Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 6020B							
Laboratory: ELLE, Lancaster, PA							
Arsenic	**16C1**	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16MW8	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16MW9	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16WC1A	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16WC1B	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16WC2B	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16-2	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16-3	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16-5	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16SPRING	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL.**
	16WDUP	**10**	**U**	**U**		**10**	**Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.**
Barium	**16C1**	**200**		**200**		**10**	**No action taken.**
	16MW8	**120**		**120**		**10**	**No action taken.**
	16MW9	**650**		**650**		**10**	**No action taken.**
	16WC1A	**360**		**360**		**10**	**No action taken.**
	16WC1B	**130**		**130**		**10**	**No action taken.**
	16WC2B	**120**		**120**		**10**	**No action taken.**
	16-2	**250**		**250**		**10**	**No action taken.**
	16-3	**770**		**770**		**10**	**No action taken.**
	16-5	**180**		**180**		**10**	**No action taken.**
	16SPRING	**230**		**230**		**10**	**No action taken.**
	16WDUP	**360**		**360**		**10**	**No action taken. Blind field duplicate of 16WC1A. RPD 0.0.**
Beryllium	**16C1**	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16MW8	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16MW9	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16WC1A	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16WC1B	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16WC2B	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16-2	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16-3	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16-5	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**
	16SPRING	**1**	**U**	**U**		**1**	**Analyte not detected at or above project QL.**

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 6020B							
Laboratory: ELLE, Lancaster, PA							
Beryllium	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Cadmium	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Chromium	16C1	5	U	U		5	Analyte not detected at or above project QL.
	16MW8	5	U	U		5	Analyte not detected at or above project QL.
	16MW9	5	U	U		5	Analyte not detected at or above project QL.
	16WC1A	5	U	U		5	Analyte not detected at or above project QL.
	16WC1B	5	U	U		5	Analyte not detected at or above project QL.
	16WC2B	5	U	U		5	Analyte not detected at or above project QL.
	16-2	5	U	U		5	Analyte not detected at or above project QL.
	16-3	5	U	U		5	Analyte not detected at or above project QL.
	16-5	5	U	U		5	Analyte not detected at or above project QL.
	16SPRING	5	U	U		5	Analyte not detected at or above project QL.
	16WDUP	5	U	U		5	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Cobalt	16C1	5	U	U		5	Analyte not detected at or above project QL.
	16MW8	5	U	U		5	Analyte not detected at or above project QL.
	16MW9	5.4		5.4		5	No action taken.
	16WC1A	12		12		5	No action taken.
	16WC1B	5	U	U		5	Analyte not detected at or above project QL.
	16WC2B	5	U	U		5	Analyte not detected at or above project QL.
	16-2	5	U	U		5	Analyte not detected at or above project QL.
	16-3	5	U	U		5	Analyte not detected at or above project QL.
	16-5	5	U	U		5	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 6020B							
Laboratory: ELLE, Lancaster, PA							
Cobalt	16SPRING	5	U	U		5	Analyte not detected at or above project QL.
	16WDUP	11		11		5	No action taken. Blind field duplicate of 16WC1A. RPD 8.7.
Copper	16C1	5	U	U		5	Analyte not detected at or above project QL.
	16MW8	16		16		5	No action taken.
	16MW9	5	U	U		5	Analyte not detected at or above project QL.
	16WC1A	5	U	U		5	Analyte not detected at or above project QL.
	16WC1B	5	U	U		5	Analyte not detected at or above project QL.
	16WC2B	5	U	U		5	Analyte not detected at or above project QL.
	16-2	5	U	U		5	Analyte not detected at or above project QL.
	16-3	5	U	U		5	Analyte not detected at or above project QL.
	16-5	5	U	U		5	Analyte not detected at or above project QL.
	16SPRING	5	U	U		5	Analyte not detected at or above project QL.
	16WDUP	5	U	U		5	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Lead	16C1	3	U	U		3	Analyte not detected at or above project QL.
	16MW8	3	U	U		3	Analyte not detected at or above project QL.
	16MW9	3	U	U		3	Analyte not detected at or above project QL.
	16WC1A	3	U	U		3	Analyte not detected at or above project QL.
	16WC1B	3	U	U		3	Analyte not detected at or above project QL.
	16WC2B	3	U	U		3	Analyte not detected at or above project QL.
	16-2	3	U	U		3	Analyte not detected at or above project QL.
	16-3	3	U	U		3	Analyte not detected at or above project QL.
	16-5	3	U	U		3	Analyte not detected at or above project QL.
	16SPRING	3	U	U		3	Analyte not detected at or above project QL.
	16WDUP	3	U	U		3	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Nickel	16C1	10	U	U		10	Analyte not detected at or above project QL.
	16MW8	10	U	U		10	Analyte not detected at or above project QL.
	16MW9	12		12		10	No action taken.
	16WC1A	10		10		10	No action taken.
	16WC1B	10	U	U		10	Analyte not detected at or above project QL.
	16WC2B	10	U	U		10	Analyte not detected at or above project QL.
	16-2	10	U	U		10	Analyte not detected at or above project QL.
	16-3	10	U	U		10	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 6020B							
Laboratory: ELLE, Lancaster, PA							
Nickel	16-5	10	U	U		10	Analyte not detected at or above project QL.
	16SPRING	10	U	U		10	Analyte not detected at or above project QL.
	16WDUP	10	U	U		10	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A. RPD NC.
Silver	16C1	2	U	U		2	Analyte not detected at or above project QL.
	16MW8	2	U	U		2	Analyte not detected at or above project QL.
	16MW9	2	U	U		2	Analyte not detected at or above project QL.
	16WC1A	2	U	U		2	Analyte not detected at or above project QL.
	16WC1B	2	U	U		2	Analyte not detected at or above project QL.
	16WC2B	2	U	U		2	Analyte not detected at or above project QL.
	16-2	2	U	U		2	Analyte not detected at or above project QL.
	16-3	2	U	U		2	Analyte not detected at or above project QL.
	16-5	2	U	U		2	Analyte not detected at or above project QL.
	16SPRING	2	U	U		2	Analyte not detected at or above project QL.
	16WDUP	2	U	U		2	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Vanadium	16C1	10	U	U		10	Analyte not detected at or above project QL.
	16MW8	10	U	U		10	Analyte not detected at or above project QL.
	16MW9	10	U	U		10	Analyte not detected at or above project QL.
	16WC1A	10	U	U		10	Analyte not detected at or above project QL.
	16WC1B	10	U	U		10	Analyte not detected at or above project QL.
	16WC2B	10	U	U		10	Analyte not detected at or above project QL.
	16-2	10	U	U		10	Analyte not detected at or above project QL.
	16-3	10	U	U		10	Analyte not detected at or above project QL.
	16-5	10	U	U		10	Analyte not detected at or above project QL.
	16SPRING	10	U	U		10	Analyte not detected at or above project QL.
	16WDUP	10	U	U		10	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Zinc	16C1	30	U	U		30	Analyte not detected at or above project QL.
	16MW8	34		34		30	No action taken.
	16MW9	30	U	U		30	Analyte not detected at or above project QL.
	16WC1A	30	U	U		30	Analyte not detected at or above project QL.
	16WC1B	30	U	U		30	Analyte not detected at or above project QL.
	16WC2B	30	U	U		30	Analyte not detected at or above project QL.
	16-2	30	U	U		30	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 6020B							
Laboratory: ELLE, Lancaster, PA							
Zinc	16-3	30	U	U		30	Analyte not detected at or above project QL.
	16-5	30	U	U		30	Analyte not detected at or above project QL.
	16SPRING	30	U	U		30	Analyte not detected at or above project QL.
	16WDUP	30	U	U		30	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Method: 7470A							
Laboratory: ELLE, Lancaster, PA							
Mercury	16C1	2	U	U		2	Analyte not detected at or above project QL.
	16MW8	2	U	U		2	Analyte not detected at or above project QL.
	16MW9	2	U	U		2	Analyte not detected at or above project QL.
	16WC1A	2	U	U		2	Analyte not detected at or above project QL.
	16WC1B	2	U	U		2	Analyte not detected at or above project QL.
	16WC2B	2	U	U		2	Analyte not detected at or above project QL.
	16-2	2	U	U		2	Analyte not detected at or above project QL.
	16-3	2	U	U		2	Analyte not detected at or above project QL.
	16-5	2	U	U		2	Analyte not detected at or above project QL.
	16SPRING	2	U	U		2	Analyte not detected at or above project QL.
	16WDUP	2	U	U		2	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
Benzene	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
2-Butanone	16C1	10	U	U		10	Analyte not detected at or above project QL.
	16MW8	10	U	U		10	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
2-Butanone	16MW9	10	U	U		10	Analyte not detected at or above project QL.
	16WC1A	10	U	U		10	Analyte not detected at or above project QL.
	16WC1B	10	U	U	J	10	Analyte not detected at or above project QL. Internal standard area below acceptable criteria.
	16WC2B	10	U	U		10	Analyte not detected at or above project QL.
	16-2	10	U	U	J	10	Analyte not detected at or above project QL. Internal standard area below acceptable criteria.
	16-3	10	U	U		10	Analyte not detected at or above project QL.
	16-5	10	U	U		10	Analyte not detected at or above project QL.
	16SPRING	10	U	U		10	Analyte not detected at or above project QL.
	16WDUP	10	U	U		10	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Carbon tetrachloride	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Chloroethane	16C1	2.5		2.5		1	No action taken.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1.7		1.7		1	No action taken.
	16WC1A	1.2		1.2		1	No action taken.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1.1		1.1		1	No action taken. Blind field duplicate of 16WC1A. RPD 8.7%.
Dichlorodifluoromethane	16C1	1	U	U		1	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
Dichlorodifluoromethane	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U	J	1	Analyte not detected at or above the project QL. CV %D > +/- 20 (-21%).
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
1,1-Dichloroethane	16C1	5		5		1	No action taken.
	16MW8	1	U	U		1	Analyte not detected at or above the QL.
	16MW9	4.7		4.7		1	No action taken.
	16WC1A	2		2.0		1	No action taken.
	16WC1B	1	U	U		1	Analyte not detected at or above the QL.
	16WC2B	1	U	U		1	Analyte not detected at or above the QL.
	16-2	1	U	U		1	Analyte not detected at or above the QL.
	16-3	1	U	U		1	Analyte not detected at or above the QL.
	16-5	1	U	U		1	Analyte not detected at or above the QL.
	16SPRING	1	U	U		1	Analyte not detected at or above the QL.
	16WDUP	1.9		1.9		1	No action taken. Blind field duplicate of 16WC1A. RPD 5.1
1,1-Dichloroethene	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
Diethyl ether	16C1	29.9	J	29.9	J	10	Result < adjusted QL (100 ug/l). MSD recovered low (56%). Analyzed in dilution (1:10).
	16MW8	10	U	U	J	10	Analyte not detected at or above project QL. MSD recovered low (56%).
	16MW9	60.4	J	60.4	J	10	Result < adjusted QL (100 ug/l). MSD recovered low (56%). Analyzed in dilution (1:10).
	16WC1A	16		16	J	10	MSD recovered low (56%).
	16WC1B	10	U	U	J	10	Analyte not detected at or above project QL. MSD recovered low (56%).
	16WC2B	10	U	U	J	10	Analyte not detected at or above project QL. MSD recovered low (56%).
	16-2	10	U	U	J	10	Analyte not detected at or above project QL. MSD recovered low (56%).
	16-3	10	U	U	J	10	Analyte not detected at or above project QL. MSD recovered low (56%).
	16-5	10	U	U	J	10	Analyte not detected at or above project QL. MSD recovered low (56%).
	16SPRING	10	U	U	J	10	Analyte not detected at or above the project QL.
	16WDUP	15		15	J	10	MSD recovered low (56%). Blind field duplicate of 16WC1A. RPD 6.4%.
Dimethyl ether	16C1	10	U	U		10	Analyte not detected at or above project QL.
	16MW8	10	U	U		10	Analyte not detected at or above project QL.
	16MW9	10	U	U		10	Analyte not detected at or above project QL.
	16WC1A	10	U	U		10	Analyte not detected at or above project QL.
	16WC1B	10	U	U		10	Analyte not detected at or above project QL.
	16WC2B	10	U	U		10	Analyte not detected at or above project QL.
	16-2	10	U	U		10	Analyte not detected at or above project QL.
	16-3	10	U	U		10	Analyte not detected at or above project QL.
	16-5	10	U	U		10	Analyte not detected at or above project QL.
	16SPRING	10	U	U		10	Analyte not detected at or above project QL.
	16WDUP	10	U	U		10	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Ethylbenzene	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
Ethylbenzene	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Chloromethane	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Methylene chloride	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Tetrachloroethene	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
Tetrachloroethene	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Tetrahydrofuran	16C1	26		26		25	No action taken.
	16MW8	25	U	U		25	Analyte not detected at or above project QL.
	16MW9	25	U	U		25	Analyte not detected at or above project QL.
	16WC1A	25	U	U		25	Analyte not detected at or above project QL.
	16WC1B	25	U	U	J	25	Analyte not detected at or above project QL. Internal standard area below acceptable criteria.
	16WC2B	25	U	U		25	Analyte not detected at or above project QL.
	16-2	25	U	U	J	25	Analyte not detected at or above the project QL. Internal standard area below acceptable criteria.
	16-3	25	U	U		25	Analyte not detected at or above project QL.
	16-5	25	U	U		25	Analyte not detected at or above project QL.
	16SPRING	25	U	U		25	Analyte not detected at or above project QL.
	16WDUP	25	U	U		25	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Toluene	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
1,1,1-Trichloroethane	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
1,1,1-Trichloroethane	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Trichloroethene	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Trichlorofluoromethane	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
1,1,2-Trichloro-1,2,2-Trifluoroethane	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
1,1,2-Trichloro-1,2,2-Trifluoroethane	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Vinyl chloride	16C1	1	U	U		1	Analyte not detected at or above project QL.
	16MW8	1	U	U		1	Analyte not detected at or above project QL.
	16MW9	1	U	U		1	Analyte not detected at or above project QL.
	16WC1A	1	U	U		1	Analyte not detected at or above project QL.
	16WC1B	1	U	U		1	Analyte not detected at or above project QL.
	16WC2B	1	U	U		1	Analyte not detected at or above project QL.
	16-2	1	U	U		1	Analyte not detected at or above project QL.
	16-3	1	U	U		1	Analyte not detected at or above project QL.
	16-5	1	U	U		1	Analyte not detected at or above project QL.
	16SPRING	1	U	U		1	Analyte not detected at or above project QL.
	16WDUP	1	U	U		1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Xylenes (Total)	16C1	3	U	U		3	Analyte not detected at or above project QL.
	16MW8	3	U	U		3	Analyte not detected at or above project QL.
	16MW9	3	U	U		3	Analyte not detected at or above project QL.
	16WC1A	3	U	U		3	Analyte not detected at or above project QL.
	16WC1B	3	U	U		3	Analyte not detected at or above project QL.
	16WC2B	3	U	U		3	Analyte not detected at or above project QL.
	16-2	3	U	U		3	Analyte not detected at or above project QL.
	16-3	3	U	U		3	Analyte not detected at or above project QL.
	16-5	3	U	U		3	Analyte not detected at or above project QL.
	16SPRING	3	U	U		3	Analyte not detected at or above project QL.
	16WDUP	3	U	U		3	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
Method: 8270E							
Laboratory: ELLE, Lancaster, PA							
Diethyl phthalate	16C1	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16MW8	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16MW9	5	U	U		5	Analyte not detected at or above project QL.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 8270E							
Laboratory: ELLE, Lancaster, PA							
Diethyl phthalate	16WC1A	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16WC1B	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16WC2B	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16-2	5	U	U		5	Analyte not detected at or above project QL.
	16-3	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16-5	5.1	U	U		5.1	Analyte not detected at or above project QL.
	16SPRING	5	U	U		5	Analyte not detected at or above project QL.
	16WDUP	5.1	U	U		5.1	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
2,4-Dinitrotoluene	16C1	10	U	U		10	Analyte not detected at or above project QL.
	16MW8	10	U	U		10	Analyte not detected at or above project QL.
	16MW9	10	U	U		10	Analyte not detected at or above project QL.
	16WC1A	10	U	U		10	Analyte not detected at or above project QL.
	16WC1B	10	U	U		10	Analyte not detected at or above project QL.
	16WC2B	10	U	U		10	Analyte not detected at or above project QL.
	16-2	10	U	U		10	Analyte not detected at or above project QL.
	16-3	10	U	U		10	Analyte not detected at or above project QL.
	16-5	10	U	U		10	Analyte not detected at or above project QL.
	16SPRING	10	U	U		10	Analyte not detected at or above project QL.
	16WDUP	10	U	U		10	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.
2,6-Dinitrotoluene	16C1	10	U	U		10	Analyte not detected at or above project QL.
	16MW8	10	U	U		10	Analyte not detected at or above project QL.
	16MW9	10	U	U		10	Analyte not detected at or above project QL.
	16WC1A	10	U	U		10	Analyte not detected at or above project QL.
	16WC1B	10	U	U		10	Analyte not detected at or above project QL.
	16WC2B	10	U	U		10	Analyte not detected at or above project QL.
	16-2	10	U	U		10	Analyte not detected at or above project QL.
	16-3	10	U	U		10	Analyte not detected at or above project QL.
	16-5	10	U	U		10	Analyte not detected at or above project QL.
	16SPRING	10	U	U		10	Analyte not detected at or above project QL.
	16WDUP	10	U	U		10	Analyte not detected at or above project QL. Blind field duplicate of 16WC1A.

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes

Definitions:

Appendix IX monitoring events and compliance monitoring wells:
For Appendix IX monitoring events, all compliance well results evaluated to the project detection limit.
See separate table for Appendix IX monitoring event detection limits.
QLDenotes permit quantitation limit.
Q Denotes data qualifier.
U Denotes analyte not detected at or above laboratory detection limit (DL) or QL.
J Denotes analyte reported at or above laboratory detection limit and associated result is estimated. When used with "U" (i.e., "UJ"), denotes analyte not detected at or above laboratory detection limit and project required quantitation limit/detection limit is estimated.
UA Denotes analyte not detected at or above adjusted sample detection limit /QL.
UN Denotes analyte concentration is less than the quantitation limit and five times the blank concentration. Analyte was not reliably detected due to blank contamination.
R Denotes result rejected.
Laboratory Data Qualifiers,
"U" and "<", denote not detected at or above the detection limit or QL.
B or J denote result detected between DL and QL, associated value should be considered an estimated concentration.

Appendix IX monitoring events:
Third Quarter 2003, Second Quarter 2004, Second Quarter 2005, Third Quarter 2006, Second Quarter 2007, Second Quarter 2008, Second Quarter 2009, Second Quarter 2010, 2Q 2011, 2Q 2012, 2Q 2013. 2Q 2014, 2Q 2015, 2Q 2016, 2Q 2017, 2Q2018, 2Q2019, 2Q2020, 4Q2021, 4Q2022

Definitions for Non-Appendix IX Monitoring Events and plume monitoring wells:
QL Denotes permit quantitation limit.
Q Denotes data qualifier.
U Denotes analyte not detected at or above QL.
UA Denotes analyte not detected at or above adjusted sample QL. See data validation report for further explanation.
UN Denotes analyte concentration is less than five times the blank concentration. Analyte was not reliably detected due to blank contamination.

J Denotes analyte reported at or above QL and associated result is estimated. When used with "U" (i.e., "UJ"), denotes analyte not detected at or above **QL and QL is estimated. When used with "UA"**(i.e., "**UAJ**"), denotes analyte not detected at or above adjusted QL and **adjusted QL is estimated.**
R Denotes result rejected. See data validation report for further explanation.
Laboratory Data Qualifiers, "U" and "<", denote not detected at or above the QL.

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Data Validation Summary
Second Quarter 2025
Semiannual Compliance Groundwater Monitoring Event for HWMU 16
Corrective Action Annual Groundwater Monitoring Event for HWMU 5

Post Closure Care Permit Hazardous Waste Management Units 5 and 16
Radford Army Ammunition Plant, Radford, Virginia
EPA ID# VA1210020730

TRC Engineers, Inc. (TRC) performed data validation of the analytical results for the Second Quarter 2025 semiannual groundwater monitoring event at Hazardous Waste Management Units (HWMUs) 5 and 16 located at the Radford Army Ammunition Plant (RFAAP) in Radford, Virginia. Groundwater monitoring activities were conducted in accordance with the *Final Hazardous Waste Management Post-Closure Care Permit* (Permit) for HWMUs 5 and 16 (original effective date October 4, 2002, reissued August 16, 2014, with subsequent modifications.

The Second Quarter 2025 event served as the annual Corrective Action (CA) groundwater monitoring event for HWMU-5 and semiannual compliance monitoring for HWMU-16 conducted in accordance with the Permit. The Second Quarter 2025 groundwater monitoring event was conducted using revised detection limits (DLs) and quantitation limits (QLs), where applicable, as specified in the Class 1 Permit Modification approved by the Virginia Department of Environmental Quality (VDEQ) in electronic correspondence dated May 5, 2021. Additionally, HWMU-16 total cobalt data were evaluated using the revised alternate source demonstration (ASD) for total cobalt in groundwater at HWMU-16 approved by the VDEQ in electronic correspondence dated September 13, 2021. Furthermore, HWMU-16 total silver data were evaluated as requested by VDEQ in correspondence dated May 8, 2024.

The annual event for HWMU-16 will be conducted in Third Quarter 2025. The following information summarizes the findings of the Second Quarter 2025 semiannual activities at each Unit.

Sample Collection/Analytical Services

TRC, of Blacksburg, Virginia, collected groundwater samples on June 24, 2025 (Unit 5) and June 25 and 26, 2025 (Unit 16).

Samples were submitted for laboratory analysis via courier to Eurofins Lancaster Laboratories Environmental Testing, LLC, (ELLE), of Lancaster, Pennsylvania and GEL Laboratories, LLC of Charleston, South Carolina. A summary table of the required analyses and identification of the analyzing laboratory is provided below. Each laboratory is accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP) for the analytes, methods, and matrix as listed on each certificate of analysis, except if noted below.

Receipt of Monitoring Event Data

On behalf of BAE Systems, Ordnance Systems, Inc., each laboratory submitted results to TRC in a final certificate of analysis which included analytical results as well as relevant documentation to verify and validate the results as discussed below. The final certificate of analysis for this event was received at TRC on July 30, 2025.

Verification Events or Resampling Event

Verification/resampling event was not required.

Summary of Monitoring Event Data by Analytical Method

Certificates of analysis were received from each laboratory in the following sample delivery groups (SDGs):

Summary of Required Analytical Methods and SDGs

Analytical Method	Hazardous Waste Management Unit (HWMU)	
	HWMU 5 / Laboratory	HWMU 16 / Laboratory
8260D Volatiles	410-229106-1 REV 2 / ELLE - 7/30/2025	410-229895-1 Rev 3 / ELLE – 7/30/2025
8270E Semivolatiles	410-229106-1 REV 2 / ELLE - 7/30/2025 730455 / GEL – 7/2/2025	410-229895-1 Rev 3 / ELLE – 7/30/2025
6020B Inorganics, total	410-229106-1 REV 2 / ELLE - 7/30/2025	410-229895-1 Rev 3 / ELLE – 7/30/2025
7470A Mercury, total	410-229106-1 REV 2 / ELLE - 7/30/2025	410-229895-1 Rev 3 / ELLE – 7/30/2025

NA - Denotes analysis not applicable/analysis not required.

Each final certificate of analysis was complete in its presentation and the data were of acceptable quality. Chains of custody (COC) and permit required target analyte lists are provided in each SDG.

Data Analysis and Validation

Samples were analyzed by *SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd edition - Final Update I, II/IIA, III and subsequent updates)*. Data, except where noted below, were evaluated in accordance with:

- *Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods*, USEPA SW-846, 3rd edition - Final Update I, II/IIA, III and subsequent updates)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review (SFAM01.1)* , November 2020, where applicable.
- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (SFAM01.1)*, November 2020, where applicable.

TRC, of Blacksburg, Virginia, performed data validation as detailed in the attached data validation reports. For each HWMU, data validation reports and a summary table of data

validation results are provided as an attachment.

Reporting of Results

HWMU-5 – DLs and QLs listed in the Class 1 permit modification approved May 5, 2021 were used for this monitoring event. Results were reported to at or above the permit detection limit for constituents listed in Appendix J to Permit Attachment 2 and Appendix K to Permit Attachment 2 of Module VI-Groundwater Corrective Action & Monitoring Program for Unit-5. All QLs and DLs met permit specified QLs and DLs. All QLs were less than the permit specified groundwater protection standard (GPS). Results reported between the DL and QL should be considered estimated concentrations.

- The USEPA periodically updates the RSLs (formerly known as RBCs). As stated in Permit Condition VI.E.3 of Module VI of the Permit, "The Permittee shall use the most up to date USEPA MCL, the Department ACL, or EPA Region 3 RBC as the GPS. If USEPA implements any changes to MCLs or RBCs, the GPS defined by that MCL or RBC will be updated to reflect the most current value established by USEPA." At the time of the Second Quarter 2025 groundwater monitoring event, the November 2024 USEPA RSL table reflected the most current RSL values. According to the November 2024 USEPA RSL table, the current RSL for diethyl ether (CAS Number 60-29-7), tap water, is 3,900 ug/l (target hazard quotient (THQ)=1.0, target risk (TR) =1E-06); the permit-specified GPS for diethyl ether listed in Appendix K to Permit Attachment 2 is based on the previous RSL of 7,300 ug/l. The GPS comparison value for diethyl ether listed in Appendix A-2 of this report is the Permit-specified GPS of 7,300 ug/l; however, RFAAP also compared diethyl ether concentrations detected during Second Quarter 2025 to the current USEPA RSL of 3,900 ug/l. Diethyl ether is the only constituent listed in Appendix K to Permit Attachment 2 whose GPS is based on a previous USEPA RSL that has been updated subsequent to the Permit reissuance date of August 16, 2014. During Second Quarter 2025, diethyl ether was not detected at or above the quantitation limit (QL) of 13 ug/l. Diethyl ether was detected below the QL of 10 ug/l in point of compliance wells 5WC22 and 5WC23 at estimated value of 1.1 ug/l and 6.2 ug/l. The detected diethyl ether concentrations are less than the GPS listed in Appendix K to Permit Attachment 2 (7,300 ug/l) as well as the November 2024 USEPA RSL (3,900 ug/l). Diethyl ether was not detected in any other wells comprising the CA groundwater monitoring network.

- Additionally, a footnote presented in Appendix K to Permit Attachment 2 indicates that verification is required for constituents detected at concentrations less than the QL if their associated GPS are 1) based on background values equal to the QL, and 2) are greater than the applicable risk-based concentrations (i.e., VDEQ Alternate Concentration Limit (ACL) or USEPA Regional Screening Level (RSL)). In these instances, verification must be conducted using an alternate low-level analytical method in order to confirm or refute the observed initial detections if the QL achievable by that method is less than, or equal to, the ACL or RSL for the subject constituent. If a concentration greater than the low-level analytical method QL is observed above the ACL or RSL, then a revised background concentration will be established using the low-level analytical method, if appropriate, and

the GPS for that constituent will be updated, if warranted. This applies to p-nitroaniline (a.k.a., 4-nitroaniline) and nitrobenzene listed on Appendix K to Permit Attachment 2; however, only p-nitroaniline has an alternate low level analytical method that can achieve a QL less than, or equal to, the ACL or RSL which could be used for additional verification. For this event, p-nitroaniline was not detected at or above the laboratory method detection limit and no further action is needed.

HWMU 16 - QLs listed in the Class 1 permit modification approved May 5, 2021 were used for this monitoring event as well as the QL for total silver as noted above in VDEQ correspondence (2024). For this event, point of compliance well and plume well results for HWMU 16 were reported to at or above the permit QL, except where noted as follows. For this event, the QL for diethyl phthalate was adjusted from 5 ug/l to 5.1 ug/l in most sample locations due to the final sample volume used in analysis. Also, the QL for diethyl ether and dimethyl ether was reported at 10 ug/l (permit QL 12.5 ug/l). In all cases, the QL and adjusted QL were less than the GPS.

Second quarter typically includes annual monitoring in which the upgradient and POC wells at HWMU-16 are sampled for the 40 CFR Part 264 Appendix IX constituents listed in Appendix I of Permit Attachment 1. The Appendix IX sampling was deferred until Third Quarter 2025 due to scheduling associated with new RFAAP contractual reporting deadlines. This deferred scheduling continues to meet permit requirements. For this event, all wells in the Compliance groundwater monitoring network for HWMU-16 were sampled for the constituents listed in Appendix E to Permit Attachment 3 (Unit 16 Groundwater Compliance Monitoring (Semiannual) Constituent List) (See Class 1 permit modification approved May 5, 2021) and total silver (VDEQ correspondence dated May 8, 2024).

- Additionally, a footnote presented in Appendix G of Permit Attachment 3 indicates that verification is required for constituents detected at concentrations less than the QL if their associated GPS are equal to the QL and are greater than the applicable risk-based concentrations (i.e., ACL or RSL). In these instances, verification must be conducted using an alternate low-level analytical method in order to confirm or refute the observed initial detections if the QL achievable by that method is less than, or equal to, the ACL or RSL for the subject constituent. If a concentration greater than the low-level analytical method QL is observed, then the GPS for that constituent will be updated, if warranted. During Second Quarter 2025, no constituents with GPS equal to their respective QLs and greater than the applicable risk-based concentrations were detected at concentrations less than their respective QLs based on review of associated instrument data; therefore, no further action was warranted. This applied to 2,4-dinitrotoluene and 2,6-dinitrotoluene.

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LIMITATIONS:

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SW-846 METHODS 6020B AND 7470A INORGANIC DATA REVIEW SUMMARY

TRC Engineers, Inc. (TRC) performed a manual comprehensive data review of the analytical results for the June 25-26, 2025 semiannual groundwater monitoring event for Hazardous Waste Management Unit 16 (HWMU 16) located at the Radford Army Ammunition Plant (RFAAP), Radford, Virginia.

TRC collected the groundwater samples from the upgradient and point of compliance (POC) monitoring wells 16C1, 16MW8, 16MW9, 16WC1A, 16WC1A, 16WDUP, 16WC1B, 16-2, 16-3, 16-5, 16WC2B and 16SPRING. Sample 16WDUP was submitted to the laboratory as a blind field sample duplicate for 16WC1A. The following information and attached table summarize the inorganic data validation results. Validation of other required methods is presented on separate reports.

For this groundwater monitoring event, samples were analyzed for the thirteen total inorganic constituents listed in the facility's permit by SW-846 Method 6020B and SW-846 Method 7470A.

Inductively coupled plasma mass spectrometry (ICP-MS) and cold vapor atomic absorption (CVAA) were the techniques used for the metal analyses. ICP-MS Method 6020B was used to analyze for arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, vanadium, silver and zinc. CVAA Method 7470A was used to analyze mercury. Target analytes were analyzed for total (T) concentrations.

TRC sent samples via overnight carrier to Eurofins Lancaster Laboratories Environmental (ELLE), of Lancaster, Pennsylvania. ELLE performed the Method 6020B and 7470A analyses. On behalf of RFAAP, ELLE submitted results to TRC in a final certificate of analysis, which included sample analytical results, as well as relevant documentation to validate and verify the results. ELLE is accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP) for the above analytes, methods, and matrix.

The evaluation of ELLE's compliance with the method and validation of results presented here are based upon a review of quality assurance/quality control (QA/QC) information including chain-of-custody, case narrative, holding time, preservation procedures, instrument calibration, tuning, blank (method, calibration, and other blanks), interference check sample, matrix spike/matrix spike duplicate (MS/MSD), laboratory control sample (LCS), internal standard, and serial dilution data. A review of transcriptions from instrument data to sample summary sheets was performed. Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

ELLE received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel, except where noted below. The laboratory received the samples on ice and in good condition, with custody seals intact. Technical holding time and preservation criteria were met. The data set demonstrated the laboratory's ability to achieve the permit QL, unless noted.

Method 6020B (ICP-MS)

The revised certificate of analysis was received on July 30, 2025 (rev 3 dated 7.30.25 @ 1:47 PM). The certificate of analysis appeared complete in its presentation and the data were of acceptable quality. The data set demonstrated the laboratory's ability to achieve the reported permit quantitation limit (QL).

QC history documentation was provided. Applicable preservation and technical holding time criteria were met. Instrument calibration, calibration verification and tuning requirements were met. QL check standards, blank, interference check samples (ICSA), MS/MSD, LCS, internal standard data, and serial dilution sample results were within control limits, where applicable, unless noted below. Field duplicate/sample results exhibited acceptable precision, where applicable. Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable. A review of transcriptions from instrument data to sample summary sheets was performed. Deviations from QA/QC criteria that were noted during the data review are summarized below.

The laboratory revised the original certificate of analysis to report results to at or above the project QLs.

Arsenic was detected below the QL in one continuing calibration blank. Total arsenic was not detected at or above the QL in any project sample and data qualification was not required. The remaining blank criteria were met.

Sample/Blind Field Sample Duplicate results – 16WC1A/16WDUP – total barium (360/360 ug/l) and total cobalt (12/11 ug/l) were reported above the QL in both the sample and blind field duplicate. The RPD criteria were met. Nickel was reported above the QL in 16WC1A and not detected at or above the QL in 16WDUP. The RPD was non-calculable.

Field duplicate/sample results exhibited acceptable precision, where applicable. Target analyte detections at or above the permit quantitation limit (QL) were verified through calculations from the instrument data.

For this groundwater monitoring event, sample results were reported at or above the permit specified quantitation limit (QL). Target analytes detected at or above the permit QL

and/or analytical data that required a data validation qualifier due to quality control deviations noted above are summarized on the attached table.

Results for samples unaffected by the data validation process and reported as not detected at or above the QL were validated and qualified "U" or as described above. No results were rejected based on the data validation criteria.

Method 7470A (CVAA)

The revised certificate of analysis was received on July 30, 2025 (rev 3 dated 7.30.25 @ 1:47 PM). The certificate of analysis appeared complete in its presentation and the data were of acceptable quality. The data set demonstrated the laboratory's ability to achieve the reported permit quantitation limit (QL).

QC history documentation was provided. Applicable preservation and technical holding time criteria were met. Instrument calibration and calibration verification criteria were met. QL standard, blank, MS/MSD and LCS results recovered within control limits. Field duplicate/sample results exhibited acceptable precision, where applicable. Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable. A review of transcriptions from instrument data to sample summary sheets was performed. No deviations from QA/QC criteria were noted during data review.

Sample results unaffected by the data validation process and reported as not detected at or above the QL were validated and qualified "U." No results were rejected based on the data validation criteria.

INORGANIC DATA EVALUATION BY SW-846 ICP-MS METHOD 6020B

Eurofins Lancaster Laboratories Environmental, Lancaster, PA; Job No: 410-229895-1 Rev. 3

☑ - denotes items reviewed. See Data Validation Summary for additional comments.

A. DOCUMENTION COMPLETENESS CRITERIA:

Data Quality Objective: Representativeness

- ☑ Chain of custody – Custody transfers must be signed and dated
- ☑ Chain of custody properly and completely filled out including sampler signatures, date and time of sampling, sample ID, analysis requested

B. DETECTION LIMIT AND QUANTITATION LIMIT CRITERIA:

Data Quality Objective: Analytical Sensitivity

- ☑ Specific detection limit reported - NA
- ☑ Specific quantitation limit reported
- ☑ Instrument detection limit (IDL) less than QL
- ☑ VELAP accredited for target analytes

C. INITIAL DEMONSTRATION OF CAPABILITY (IDOC) CRITERIA:

Data Quality Objective: Laboratory Method Sensitivity

- ☑ Analyst IDOC kept on file at the laboratory

D. SAMPLE AND STANDARD PREPARATION CRITERIA:

Data Quality Objective: Accuracy and Representativeness

- ☑ Digestion method: 3005A

E. TECHNICAL HOLDING TIME / PRESERVATION REQUIREMENTS:

Data Quality Objective: Representativeness

- ☑ 6 month holding time, pH<2 with Nitric Acid (HNO_3)

F. INSTRUMENT TUNE CRITERIA:

Data Quality Objective: Verify Operating Conditions

- ☑ Prior to calibration
- ☑ Relative Standard Deviation (RSD) </=5%
- ☑ Resolution < 0.9 amu full width at 10% peak height (or lower)
- ☑ Mass calibration </=0.1 amu difference from true value

G. INITIAL CALIBRATION CRITERIA:

Data Quality Objective: Laboratory Accuracy

- ☑ A single point calibration or a multi-point calibration with a calibration blank and at least 3 standards (low standard at or below the QL)
- ☑ Linear curve fit with correlation coefficient r≥0.995
- ☑ Daily calibration following tuning and prior to sample analysis

H. INITIAL CALIBRATION VERIFICATION (ICV) CRITERIA:

Data Quality Objective: Laboratory Accuracy

- ☑ Daily following initial calibration - Independent/second source used for standard
- ☑ ICV recovery 90-110% - concentration near mid-point of calibration curve

☑ Low level ICV (LLICV/CRQL) – prior to sample analysis, at QL concentration, 80-120% recovery

I. INITIAL CALIBRATION BLANK CRITERIA:

Data Quality Objective: Laboratory Analytical Sensitivity/Instrument Drift/Contamination Evaluation

☑ Daily following ICV
☑ Interference free (< ±1/2 the QL concentration)

J. QL/LOQ CHECK STANDARD CRITERIA:

Data Quality Objective: Laboratory Analytical Sensitivity

☑ Standard analyzed at or below the QL (LLQC), digested, mean of 7 replicates with RSD <5%, analyzed after MDL determination and analyzed at least quarterly
☑ QL standard recovery 80-120%

K. CONTINUING CALIBRATION VERIFICATION (CCV) CRITERIA:

Data Quality Objective: Laboratory Analytical Accuracy

☑ CCV, prior to analysis, after every 10 samples, at end of analysis
☑ CCV recovery within 90-110%, mid-point of curve concentration

L. CONTINUING CALIBRATION BLANK CRITERIA:

Data Quality Objective: Laboratory Analytical Sensitivity/Instrument Drift/Contamination Evaluation

☑ Immediately after the CCV and after each group of 10 samples
☑ Interference free (< ±1/2 the QL concentration)

M. BLANK CRITERIA:

Data Quality Objective: Sensitivity/Instrument Drift/Contamination Evaluation

N/A Trip Blank (check only if analyzed)
☑ Method/Other Lab Blanks (check only if analyzed), one per digestion batch
☑ Interference free (<1/2 LLOQ), where applicable

N. INTERFERENCE CHECK SAMPLE (ICS)/(Spectral Interference Check (SIC) CRITERIA:

Data Quality Objective: Analytical Accuracy/Verification of Isobaric Interference Corrections

☑ At beginning of analytical run or once every 12 hours of continuing sample analysis Results for elements not spiked in solution should be < 2 times the LLOQ. (Ti and Mo are spiked in addition to alkali metals)

O. MATRIX SPIKE DUPLICATE (MSD) CRITERIA:

Data Quality Objective: Method Precision in Sample Matrix

☑ All analytes, one MSD or sample duplicate per batch of 20 samples
☑ Spiked prior to sample preparation
☑ RPD ≤ 20 between MS & MSD results or sample & duplicate results, where applicable
☑ MSD analyte recovery 75-125%

P. MATRIX SPIKE (MS) CRITERIA:

Data Quality Objective: Method Accuracy in Sample Matrix

☑ All analytes, one MS per digestion batch of 20 samples
☑ Spiked prior to sample preparation
☑ Recovery: 75-125%, post-digestion spike analyzed for failed analytes, recovery 75-125%

Q. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

Data Quality Objective: Laboratory Method Accuracy, Laboratory Performance

- ☑ 1 LCS per 20 samples, all analytes, Recovery: 80-120%
- ☑ LCS solution same concentration as MS/MSD solution

R. INTERNAL STANDARDS (IS) CRITERIA:

Data Quality Objective: Analytical Accuracy in Sample Matrix

- ☑ IS added to each sample and QC sample
- ☑ Relative intensity (RI) should be within 70-125%
- ☑ If RI of CCB is <30%, terminate run and recalibrate

S. SERIAL DILUTION TEST CRITERIA:

Data Quality Objective: Accuracy in Sample Matrix

- ☑ <20% Difference (applicable when concentration >25X LLOQ)

T. SAMPLE QUANTITATION AND GENERAL REPORTING CRITERIA:

Data Quality Objective: n/a

- ☑ Sample results reported within instrument calibration range
- ☑ Sample results reported to permit detection limit
- ☑ Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable.
- ☑ Sample/Field duplicate RPD ≤ 20 when both results are ≥ 5x QL; ± 5x QL when results are < 5x QL, where applicable

REFERENCES:

TRC Engineers, Inc. (TRC) conducted a limited data validation of the above noted data set using the data package provided by the analyzing laboratory. Data evaluation was conducted using SW-846 (Test Methods for Evaluating Solid Waste-Physical/Chemical Methods, USEPA, SW-846, 3rd Edition-Final Update I, II/IIA, III, and subsequent updates) method requirements and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020, where applicable). Validation of this data set is limited to review of items detailed in this data review report. Additionally, laboratory specific acceptance criteria and/or historical program acceptance criteria were used when no other acceptance criteria were available. Validation of this data set is limited to the items detailed in this report.

DATA EVALUATION FOR MERCURY BY COLD VAPOR AA SW 846 -METHOD 7470A

Eurofins Lancaster Laboratories Environmental, Lancaster, PA; Job No: 410-229895-1 Rev. 3

☑ - denotes items reviewed. See Data Validation Summary for additional comments.

A. QC DOCUMENTATION CRITERIA:

- ☑ Specific quantitation limit (QL) for mercury
- ☑ Standard analyzed at the QL (70-130% R)
- ☑ VELAP accredited within 12 months
- ☑ Analyst IDOC kept on file at the laboratory

B. METHOD INFORMATION DOCUMENTATION:

- ☑ Mercury analyzed by requested method

C. TECHNICAL HOLDING TIME / PRESERVATION REQUIREMENTS:

- ☑ 28-day holding time
- ☑ Adjust pH <2 w/ HNO_3

D. INSTRUMENT CALIBRATION CRITERIA:

- ☑ 1 calibration blank and at least 3 standards, correlation coefficient >0.995
- ☑ Instrument calibrated for every analytical sequence for every method

E. INITIAL / CONTINUING CALIBRATION VERIFICATION CRITERIA:

- ☑ 10 sample frequency for CCV
- ☑ Recovery within 80-120%

F. BLANK SAMPLE CRITERIA:

- N/A Trip Blank (check only if analyzed)
- N/A Equipment Blank (check only if analyzed)
- ☑ Method/other laboratory blanks (check only if analyzed)
- ☑ Interference free

G. MATRIX SPIKE DUPLICATE (MSD)/DUPLICATE SAMPLE CRITERIA:

- ☑ One MSD or sample duplicate per batch of 20 samples
- ☑ RPD ≤20 between MS and MSD or sample and duplicate results
- ☑ RPD ≤ 20 for spike/sample values greater than 5 times QL
- ☑ Recovery 75-125% for MSD

H. MATRIX SPIKE (MS) SAMPLE CRITERIA:

- ☑ Recovery within 75-125% range
- ☑ One MS per batch of 20 samples
- ☑ MS added prior to digestion

I. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

- ☑ LCS for mercury, one LCS per 20 sample batch
- ☑ Recovery within 80-120%

☑ Independent source for LCS

J. SAMPLE RESULTS CRITERIA:

☑ Sample results reported within instrument calibration range
☑ Sample results reported to permit detection limit
☑ Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable.
☑ Sample/Field duplicate RPD ≤ 20 when both results are ≥ 5x QL; ± 5x QL when results are < 5x QL, where applicable

REFERENCES:

TRC Engineers, Inc. (TRC) conducted a limited data validation of the above noted data set using the data package provided by the analyzing laboratory. Data evaluation was conducted using SW-846 (Test Methods for Evaluating Solid Waste-Physical/Chemical Methods, USEPA, SW-846, 3rd Edition-Final Update I, II/IIA, III, and subsequent updates) method requirements and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020, where applicable). Validation of this data set is limited to review of items detailed in this data review report. Additionally, laboratory specific acceptance criteria and/or historical program acceptance criteria were used when no other acceptance criteria were available. Validation of this data set is limited to the items detailed in this report.

LIMITATIONS:

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Conclusions presented are based upon a review of available information, the results of our field studies, and/or professional judgment. To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

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SW-846 METHOD 8260D VOLATILE ORGANIC DATA REVIEW SUMMARY

TRC Engineers, Inc. (TRC) performed a manual comprehensive review of the analytical results for the June 25-26, 2025 semiannual groundwater monitoring event at Hazardous Waste Management Unit 16 (HWMU 16) located at the Radford Army Ammunition Plant (RFAAP), Radford, Virginia. TRC collected the groundwater samples from the upgradient and point of compliance (POC) monitoring wells 16C1, 16MW8, 16MW9, 16WC1A, 16WDUP, 16WC1B, 16-2, 16-3, 16-5, 16WC2B and 16SPRING. Sample 16WDUP was submitted to the laboratory as a blind field sample duplicate for 16WC1A. The following information and attached table summarize the Method 8260D data validation results. Validation of other required methods is presented on separate reports.

Samples were analyzed for twenty-one volatile target analytes listed in the facility's permit by USEPA SW-846 Method 8260D. The following information and attached table summarize the Method 8260D data validation results.

TRC sent samples via overnight carrier to Eurofins Lancaster Laboratories Environmental, (ELLE), of Lancaster, Pennsylvania. ELLE performed the SW-846 Method 8260D volatile analysis. ELLE is accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP) for the analytes, method and matrix as reported on the certificate of analysis. On behalf of RFAAP, ELLE submitted results to TRC in final certificates of analysis that included sample analytical results as well as relevant documentation to validate and verify the results (Job#: 410-229895-1 Rev. 3).

The evaluation of ELLE's compliance with Method 8260D and validation of the results were based on a review of the following items: quality control (QC) deliverables package, QC history documentation, technical holding time and preservation requirements, instrument performance (tune) check, instrument calibration and calibration verification, blank, surrogate spike, matrix spike and matrix spike duplicate (MS/MSD), laboratory control sample (LCS), internal standard, and/or target analyte identification and quantitation results. A review of transcriptions from instrument data to sample summary sheets was performed. Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

ELLE received the samples on ice and in good condition, with custody seals intact. The chain of custody (COC) was appropriately signed and dated by field and laboratory personnel. Applicable holding time and preservation criteria were met for the samples.

The revised certificate of analysis was received on July 30, 2025. The revised certificate of analysis appeared complete in its presentation and the data were of acceptable quality. The certificate of analysis demonstrated the ability of the laboratory to achieve the permit required quantitation limit (QL) for each target analyte, except where noted below.

QC deliverables package requirements were met. QC history documentation and instrument performance check criteria were met. Sample holding time, preservation, initial calibration,

calibration verification, blanks, surrogates, MS/MSD, LCS, and internal standards criteria were met, unless noted below. Target analyte identification and quantitation criteria were met unless noted below. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

The laboratory revised the original certificate of analysis to report the QLs to the permit limits and to report 1,1-dichloroethane which was mistakenly omitted by the laboratory. A revision to the COC was included to reflect a trip blank for each day of sampling.

The laboratory noted acetone met the CV standard QC percent difference/drift requirement (±20) when rounded down to the whole number, as per method protocol. No data qualification as required.

Dichlorodifluoromethane did not meet (recovered low) one continuous calibration verification (CV) percent difference/drift requirement (±20). The result for dichlorodifluoromethane in associated sample, 16-3, was not detected at or above the QL and the 16-3 dichlorodifluoromethane result was qualified "UJ" to note the QL is estimated. The remaining CV standard requirements were met.

Diethyl ether recovered low in the MSD. Diethyl ether sample results not detected at or above the QL were qualified "UJ" to note that the QL is estimated. The remaining MS/MSD recoveries were met.

The internal standard t-Butyl alcohol-d10 response was outside the lower acceptance range for samples 16WC1B and 16-2. The analytes associated with this internal standard, tetrahydrofuran and 2-butanone, were not detected at or above the project QL and sample results for these analytes in 16WC1B and 16-2 were qualified "UJ" to note this QC deficiency. The laboratory reanalyzed both samples with similar internal standard responses. The original results were reported as the final results.

Samples 16C1 and 16MW9 were analyzed in dilution (1:10) to obtain a result within the calibration range for diethyl ether. The diluted results were reported below greater than the adjusted DL, but less than the adjusted QL. The results were qualified "J" to note the result was less than the adjusted QL. The results are consistent with historical data.

The permit required QL is 12.5 ug/l for diethyl ether. The laboratory reported the QL as 10 ug/l for diethyl ether. All permit QLs for analytes analyzed by Method 8260D were met.

Sample/Blind Field Duplicate results – 16WC1A/16WDUP – chloroethane (1.2/1.1 ug/l), 1,1-dichloroethane (2.0/1.9 ug/l) and diethyl ether (16/15 ug/l) were reported above the QL in both the sample and field duplicate and the RPD criteria were met.

A 25 ml sample purge volume was used for the analysis of the target analytes.

Results were reported by the laboratory to at or above the permit quantitation limit (QL) for this monitoring event.

Sample results unaffected by the data validation process and reported as not detected at or above the QL were validated and qualified "U."

SW-846 METHOD 8260D (GC/MS) VOLATILE ORGANIC DATA VALIDATION

Comment: *Volatile organic analysis uses a purge and trap system to remove volatile organic target analytes from a 25 ml water sample (SW-846 5030C). Target analytes are separated and quantified using a capillary column gas chromatograph (GC)/mass spectrometer (MS).*

A. QC DELIVERABLES PACKAGE:

1.	Was the case narrative present/signed by a lab representative?	☑ YES ☐ NO
2.	Was the Chain of Custody present/signed by a lab representative?	☑ YES ☐ NO
3.	Were the sample results included for the sample locations?	☑ YES ☐ NO
4.	Did the results correspond to the project specific analyte list?	☑ YES ☐ NO
5.	Did reported QLs agree with the MDL study?	☑ YES ☐ NO
6.	VELAP accredited?	☑ YES ☐ NO

Comments: QC deliverables package requirements were met.

B. QC HISTORY DOCUMENTATION CRITERIA:

1.	Was the MDL study provided, which included DL and QL values for the target analytes?	☑ YES ☐ NO
2.	Was the calibration range specified?	☑ YES ☐ NO
3.	Was the analyst specific initial demonstration of proficiency data provided for each target analyte?	See comment

Comments: QC history documentation criteria were met. IDOCs remain on file with the laboratory. Results were reported to at or above the QL.

C. TECHNICAL HOLDING TIME AND PRESERVATION CRITERIA:

1.	Was the 14-day sample collection to analysis holding time met?	☑ YES ☐ NO
2.	Were the samples received at ≤6°C with zero headspace?	☑ YES ☐ NO
3.	Was the pH of each sample adjusted to < 2 with HCl?	☑ YES ☐ NO
4.	Was a separate sample aliquot adjusted with HCl to a pH between 4-5? (For analysis of acrolein and acrylonitrile only).	☑ NA ☐ YES ☐ NO

Comments: Technical holding time criteria were met.

D. GC/MS INSTRUMENT PERFORMANCE (TUNING) CHECK CRITERIA:

1.	Was the instrument performance check solution (BFB ≤ 50ng) analyzed immediately prior to ICAL analysis.	☑ YES ☐ NO
2.	Was there documentation of the injection of 5-50 ng bromofluorobenzene (BFB)?	☑ YES ☐ NO

3. Were ion abundance criteria as outlined in Table 3 met? ☑ YES ☐ NO

Comments: Instrument performance check criteria were met.

E. INITIAL GC/MS CALIBRATION CRITERIA:

SW-846 Criteria*:*

1. Was the initial calibration (ICAL) analyzed immediately following the instrument performance (tune) check? ☑ YES ☐ NO
2. Were all required target analytes included in the ICAL? ☑ YES ☐ NO
3. Were calibration standards dropped to meet calibration criteria? ☐ YES ☑ NO
4. Did the ICALs consist of a minimum of 5 calibration levels? ☑ YES ☐ NO
5. Was the lowest concentration calibration standard at or below the associated MCL? ☑ YES ☐ NO
6. Was the calibration curve developed using the same purge volume as that used for sample analysis? ☑ YES ☐ NO
7. Were 8260D Relative Response Factor (RRF) criteria in agreement with those listed in Table 4 (guidance only)? ☑ YES ☐ NO
8. Was each target analyte %RSD ≤ 20%? ☑ YES ☐ NO
9. Was the correlation coefficient >0.99 for target analytes with ≥20% RSD? (*System recalibrated if >10% analytes fail above condition)* ☑ NA ☐ YES ☐ NO
10. Was an initial calibration verification (ICV) standard analyzed immediately following the ICAL? ☑ YES ☐ NO
11. Was the recovery within 70-130%? ☑ YES ☐ NO
12. Was the ICV standard prepared from a different source from the ICAL? ☑ YES ☐ NO

Method Validation Performance Criteria:

1. Did target analytes and surrogates that have RSDs >20% have ≥0.99 correlation coefficient or coefficient of determination? ☑ NA ☐ YES ☐ NO
2. For linear regression curves, was the recalculated concentration of the low calibration point within ±50%? (30 % for all other levels). ☑ NA ☐ YES ☐ NO
3. For quadratic curves, was a minimum six standards used? ☑ NA ☐ YES ☐ NO

Comments: Initial calibration criteria were met.

F. CALIBRATION VERIFICATION CRITERIA:

SW-846 Criteria:

1. Was a calibration verification analyzed at the beginning of each 12-hour period and prior to analysis of the method blank and samples? ☑ YES ☐ NO
2. Did the target analytes and system monitoring analytes (surrogates) have the % D within ± 20%? ☐ YES ☑ NO
   If more than 20% fail the %D criteria, corrective action must be taken prior to the analysis of samples.
3. If analyte failed low, was QL standard analyzed and detected? ☑ NA ☐ YES ☐ NO

If yes: Report non-detects with qualification. Qualify any detects as estimated. If analyte failed high, qualify any detects as estimated. Non-detects will not need to be qualified.

Contractual Requirements:

1. Did the target analytes and system monitoring analytes (surrogates) have % Ds within ± 20%? ☐ YES ☑ NO

Comments: Calibration verification criteria were met, except where noted above.

G. BLANK CRITERIA:

1. Was a method blank analyzed after the calibration standards, prior to sample analysis, and once for every 12-hour period? ☑ YES ☐ NO
2. Was a trip blank analyzed with this sample batch? ☑ YES ☐ NO
3. Were the trip blanks and method blanks interference free? ☑ YES ☐ NO
   Was the blank concentration <½ the LQL (required)? ☑ YES ☐ NO
4. List target analytes detected in the blanks: *None in trip or method blanks*
5. Was the blank concentration less than 5% of the MCL associated with the analyte? ☑ YES ☐ NO
6. Did any samples contain high concentrations of VOCs in excess of the linear range of the calibration curve? ☐ YES ☑ NO
7. Were one or more blanks analyzed following the high concentration sample to prevent cross contamination? ☑ NA ☐ YES ☐ NO

Comments: Blank criteria were met. A trip blank was analyzed each day of sampling.

H. SURROGATE CRITERIA:

SW-846 Criteria:

1. Were the following surrogates used? ☑ YES ☐ NO
   - dibromofluoromethane (80-120%)
   - 4-bromofluorobenzene (80-120%)
   - toluene-d_8 (80-120%)
   - 1,2-dichloroethane-d_4 (80-120%)
2. Were recoveries within the specified ranges? ☑ YES ☐ NO
   If "NO", corrective action is required. Flagging of the data as estimated is not acceptable until corrective action has been attempted.
3. Were samples with surrogates outside the QC reanalyzed? ☑ NA ☐ YES ☐ NO

Comments: The surrogate criteria were met.

I. MATRIX SPIKE, MATRIX SPIKE DUPLICATE (MS/MSD) CRITERIA:

1. Was a matrix spike and matrix spike duplicate (MS/MSD) analyzed per sample batch or every 20 samples, whichever may occur first? ☑ YES ☐ NO
2. Did the MS/MSD spike contain additional target analytes? ☑ YES ☐ NO
3. Was the MS/MSD analyzed on the specific project matrix? ☑ YES ☐ NO
4. List the MS % recovery range: 75-125%; 70-130% poor purge analytes; RPD ≤20

5. Were any analytes qualified as estimated? ☑ YES ☐ NO
   - If yes, and the LCS for the analyte(s) recovered within control limits, matrix interference is suspected.

Comments: MS/MSD criteria were met, except where noted above.

J. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

1. Was a LCS included in the sample analysis? ☑ YES ☐ NO
2. Did the LCS contain the required target analytes? ☑ YES ☐ NO
3. List the LCS acceptance criteria: 80-120%; 70-130% for poor purge analytes
4. Were any analytes flagged as estimated due to LCS criteria? ☐ YES ☑ NO

Comments: The LCS criteria were met.

K. INTERNAL STANDARDS (IS) CRITERIA:

1. Were the following internal standards (IS) used? ☑ YES ☐ NO
   t-butyl alcohol-d10, fluorobenzene, chlorobenzene-d_5, 1,4-dichlorobenzene-d_4
2. Were the IS areas within 50% - 200% of the last CV? See comment
3. Were the IS RTs within ± 30 seconds of the last CV? ☑ YES ☐ NO
4. Were samples failing items 2 and/or 3 above reanalyzed? See comment

Comments: Internal standards criteria were met, except where noted above in summary. The laboratory may make internal standard substitutions (pentafluorobenzene, 1,4-difluorobenzene) as allowed by the method.

L. TARGET ANALYTE IDENTIFICATION:

1. Were the RTs of the reported analytes within ±10 seconds of the standard RT or within ±10 seconds relative to the shift of the associated IS? ☑ YES ☐ NO
2. Check the sample spectra against the laboratory standard spectra to see that the following criteria were met:
   * Characteristic ions maximize in the same scan or within one scan of each other
   * Characteristic ions present in the standard spectra present in the sample spectra for analytes detected above the QL
   * Relative intensities of the ions between the standard and sample spectra within ± 30%
3. Were reported analytes confirmed? ☑ YES ☐ NO

Comments: Target analyte identification criteria were met.

M. TARGET ANALYTE QUANTITATION:

***** If the %RSD of an analyte was 20% or less, then the average relative response factor should have been used for quantitation.

* If the %RSD of an analyte was greater than 20%, then the quantitation should be based on a calibration curve using the first or higher order regression fit of the five calibration points (6 calibration points for 2nd order).

1. Evaluate analytes detected above the QL whose %RSD was >20%: *None*
   a. Was quantitation based on a linear regression fit? ☑ NA ☐ YES ☐ NO
   b. Was the curve forced through the origin? ☑ NA ☐ YES ☐ NO
2. Did the initial analysis of any sample have a target analyte concentration that exceeded the initial calibration range? ☐ YES ☑ NO
   -If so, was the sample reanalyzed at a higher dilution? ☑ NA ☐ YES ☐ NO
3. Were the analyte concentrations recorded on the raw sample quantitation reports accurately transferred to the sample summary sheets? ☑ YES ☐ NO

Comments: Target analyte quantitation criteria were met.

N. LIBRARY SEARCHES:

Comments: Library searches were not requested.

O. CORRECTIVE ACTION TAKEN AND GENERAL COMMENTS:

Comments: The initial demonstration of capability (IDOC) is maintained and kept on file at the laboratory. No corrective action was taken.

REFERENCES:

TRC Engineers, Inc. (TRC) conducted data validation of the above noted data set using summary tables and instrument data provided by the analyzing laboratory. Data were evaluated in general accordance with SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd edition - Final Update I, II/IIA, III and subsequent updates) and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, November 2020, where applicable). Where QA/QC criteria differed, the analytical method acceptance criteria were used. Additionally, laboratory specific acceptance criteria and/or historical program acceptance criteria were used when no other acceptance criteria were available. Validation of this data set is limited to the items detailed in this report.

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SW-846 METHOD 8270E SEMIVOLATILE ORGANIC DATA REVIEW SUMMARY

TRC Engineering, Inc. (TRC) performed a comprehensive manual review of the analytical results for the June 25-26, 2025 groundwater monitoring event at Hazardous Waste Management Unit 16 (HWMU 16) located at the Radford Army Ammunition Plant (RFAAP), Radford, Virginia. TRC collected the groundwater samples from the upgradient and point of compliance (POC) monitoring wells 16C1, 16MW8, 16MW9, 16WC1A, 16WDUP, 16WC1B, 16-2, 16-3, 16-5, 16WC2B and 16SPRING. Sample 16WDUP was submitted to the laboratory as a blind field sample duplicate for 16WC1A.

Samples were analyzed for three semivolatile target analytes listed in the facility's permit by USEPA SW-846 Method 8270E. The following information and attached table summarize the Method 8270E data validation results.

TRC sent samples via overnight carrier to Eurofins Lancaster Laboratories Environmental, LLC (ELLE), of Lancaster, Pennsylvania. ELLE is accredited under the Virginia Environmental Laboratory Accreditation Program (VELAP) for the analytes, method and matrix as reported on the certificate of analysis. On behalf of RFAAP, ELLE submitted results to TRC in a final certificate of analysis, which included sample analytical results, as well as relevant documentation to validate and verify the results (ELLE Job# 410-229895-1 Rev. 3).

The evaluation of ELLE's compliance with Method 8270E and validation of the results was based on review of the following items: quality control (QC) deliverables package, QC history documentation, case narrative, technical holding time and preservation requirements, instrument performance (tune) check, instrument calibrations, blank analysis, surrogate spike recoveries, matrix spike and matrix spike duplicate (MS/MSD), laboratory control sample (LCS), internal standard and/or target analyte identification and quantitation results. A review of transcriptions from instrument data to sample summary sheets was performed. Calculation verifications were performed on all reported sample detections and on ten percent of the QA data, where applicable. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

Each laboratory received the samples on ice and in good condition, with custody seals intact. The chain of custody (COC) was appropriately signed and dated by field and laboratory personnel, except as noted.

ELLE noted a container count discrepancy; however, there was sufficient sample volume to perform the requested method analyses and no further action was taken.

The revised certificate of analysis (COA) was received from ELLE on July 30, 2025. ELLE revised the COA to report the QLs to the permit requirements and to correct the method reference. The final certificate of analysis appeared complete, and data were of acceptable quality,

except where noted below. The data set demonstrated the laboratory's ability to achieve the reported permit required quantitation limit (QL).

QC history documentation (instrument specific initial demonstration of proficiency and method detection limit data) were provided. Applicable preservation and technical holding time criteria were met. Instrument performance check (tuning) criteria, initial calibration, calibration verification, blank, MS/MSD, LCS, surrogate recoveries, and internal standard requirements were met, except where noted below. Target analyte identification and quantitation criteria were met except where noted below. No deviations from specific QA/QC criteria were identified during the data review process.

Field duplicate/sample results exhibited acceptable precision, where applicable. No transcription errors were observed with the reporting of sample results.

Laboratory QLs were reported at the permit QL except for diethyl phthalate. For this event, the QL for diethyl phthalate was adjusted from 5 ug/l to 5.1 ug/l in most sample locations due to the final sample volume used in analysis. The permit QL is 5 ug/l. In all cases, the QL and adjusted QL were less than the GPS.

Except where noted above, results remain as reported by the laboratory. Sample results were validated to at or above the permit QL.

Sample results unaffected by the data validation process and reported as not detected at or above the QL or adjusted QL were validated and qualified "U." No results were rejected based on the data validation criteria.

SW-846 METHOD 8270E (GC/MS) SEMIVOLATILE ORGANIC DATA VALIDATION

Comments: *Semivolatile (a.k.a, base/neutral and acid extractables) analysis involves sample preparation using liquid/liquid extraction technique (SW-846 Method 3510C). The semivolatile extracts are concentrated through evaporation. Target analytes are separated and quantified using a capillary column gas chromatograph (GC)/mass spectrometer (MS).*

A. QC DELIVERABLES PACKAGE:

1. Was the case narrative present/signed by a lab representative? ☑ YES ☐ NO
2. Was the Chain of Custody present/signed by a lab representative? ☑ YES ☐ NO
3. Were the sample results included for the sample locations? ☑ YES ☐ NO
4. Did the data correspond to the project specific analyte list? ☑ YES ☐ NO
5. Were the analyte QLs reported on sample summary sheets in agreement with the instrument specific MDL study? ☑ YES ☐ NO

Comments: QC deliverables package criteria were met.

B. QC HISTORY DOCUMENTATION CRITERIA:

1. Were instrument specific detection limits provided for analytes? ☑ YES ☐ NO
2. Were the instrument specific QLs for target analytes provided? ☑ YES ☐ NO
3. Was calibration range specified for the target analytes? ☑ YES ☐ NO

Comments: QC history documentation criteria were met.

C. TECHNICAL HOLDING TIME AND PRESERVATION CRITERIA:

1. Was the 7-day sample collection to extraction holding time met? ☑ YES ☐ NO
2. Was the 40-day extraction to analysis holding time met? ☑ YES ☐ NO
3. Were the samples received at ≤6°C? ☑ YES ☐ NO

Comments: Sample holding times and preservation criteria were met.

D. GC/MS INSTRUMENT PERFORMANCE CHECK CRITERIA:
(Tuning, Injection Port and Column Performance)

1. Was performance check solution analysis performed at the beginning of each 12-hour period of standard and/or sample analysis? ☑ NA ☐ YES ☐ NO
2. Was there documentation of the injection of 12.5 ng of DFTPP? ☑ YES ☐ NO
3. Were the ion abundance criteria met? ☑ YES ☐ NO
4. Was the injection port inertness verified by analysis of 4,4′-DDT? ☑ YES ☐ NO
   - If no, does associated data require qualification? ☑ NA ☐ YES ☐ NO
   - Was the injection port inertness check acceptable? ☑ YES ☐ NO
5. Was column performance checked through the analysis of peak tailing of pentachlorophenol and benzidine? ☑ YES ☐ NO

- If no, does associated data require qualification? ☑ NA ☐ YES ☐ NO
- Was column performance check acceptable? ☑ YES ☐ NO

Comments: Instrument performance check criteria were met.

E. INITIAL GC/MS CALIBRATION CRITERIA:

SW-846 Criteria:

1. Were the initial calibrations (ICAL) and any directly associated blanks and samples analyzed within 12-hours of the associated instrument performance (tune) check? ☑ YES ☐ NO
2. Were quantitation ions, used and listed on data, randomly checked against primary quantitation ions as required by Method 8270E? ☑ YES ☐ NO
3. Were the target analytes included in the ICAL? ☑ YES ☐ NO
4. Did the ICAL consist of a minimum of 5 calibration levels? ☑ YES ☐ NO
5. Was the lowest concentration calibration standard at or below the associated MCL, regulatory compliance, or action limit? ☑ YES ☐ NO
6. Were calibration levels removed from the curve that would negatively impact the data integrity? ☐ YES ☑ NO
7. Were 8270E minimum RRF criteria met? Relative Response Factor-range (RRF 0.010-0.900) ☑ YES ☐ NO
   **Refer to Table 4 of SW-846 Method 8270E (Rev6 06/2018) for specific analyte RRFs*
8. Was each target analyte %RSD ≤ 20%? ☐ YES ☑ NO
9. Was the correlation coefficient or coefficient of determination >0.99 for target analytes with > 20% RSD? ☑ YES ☐ NO
   **System recalibrated if >10% analytes fail above condition*
10. Was an initial calibration verification (ICV) standard analyzed immediately following the ICAL? ☑ YES ☐ NO
11. Was the recovery within 70-130%? ☑ YES ☐ NO
12. Was the ICV standard prepared from a different source from the ICAL? ☑ YES ☐ NO

Method Validation Performance Criteria:

1. Did target analytes and surrogates that have RSDs > 20% have ≥0.99 correlation coefficient or coefficient of determination? ☑ YES ☐ NO
2. For linear regression curves, was the recalculated concentration of the low calibration point within ±30%? ☑ YES ☐ NO
3. For quadratic curves, was a minimum six standards used? ☑ NA ☐ YES ☐ NO

Comments: Initial calibration criteria were met.

F. CALIBRATION VERIFICATION CRITERIA:

SW-846 Criteria:

1. Was a calibration verification analyzed at the beginning of each 12-hour period following the analysis of the instrument performance check and prior to analysis of the method blank and samples? The calibration verification may be part of the ICAL or run independently on another 12-hour analysis period. ☑ YES ☐ NO

2. Was each target analyte % difference/drift ≤ 20%? ☑ YES ☐ NO
(Corrective action if >20%)
3. Were 8270E minimum RRF criteria met?
Relative Response Factor-range (RRF 0.010-0.900) ☑ YES ☐ NO
**Refer to Table 4 of SW-846 Method 8270E (Rev6 06/2018) for specific analyte RRFs*

Method Validation Performance Criteria:

1. Did target analytes and system monitoring analytes (surrogates) have % Ds within ± 20.0%? ☑ YES ☐ NO
If "NO", list analytes that exceed this criterion:

Comments: Calibration verification criteria were met.

G. BLANK CRITERIA:

1. Was a method/extraction blank analyzed on each GC/MS system used for sample analysis? ☑ YES ☐ NO
2. Was a trip blank analyzed with this sample batch? ☑ NA ☐ YES ☐ NO
3. Were the blank samples interference free? ☑ YES ☐ NO
4. Was the level of blank contamination > 5% of the MCL? ☑ NA ☐ YES ☐ NO
5. List target analytes detected in the blanks: *None*

Comments: Blank criteria were met,

H. SURROGATE CRITERIA:

1. Were the following surrogates used?
   - phenol - d_6 (10%-94%)
   - 2-fluorophenol (21%-100%)
   - 2,4,6-tribromophenol (10%-123%)
   - nitrobenzene – d_5 (35%-107%)
   - 2-fluorobiphenyl (44%-102%)
   - p-terphenyl - d_{14} (33%-126%)
2. Were recoveries within the specified ranges? ☑ YES ☐ NO
3. Were any two base/neutral or acid surrogates out of specification or did any one base/neutral or acid extractable surrogate have a recovery of less than 10%? ☐ YES ☑ NO
If yes, was a re-extraction and reanalysis performed to confirm that the non-compliance was due to sample matrix effects rather than laboratory deficiencies?

Comments: The surrogate criteria were met.

I. MATRIX SPIKE/ MATRIX SPIKE DUPLICATE (MS/MSD) CRITERIA:

1. Was a MS/MSD analyzed per sample batch or every 20 samples, whichever may occur first? ☑ YES ☐ NO
2. Did the MS/MSD spike contain additional target analytes? ☑ YES ☐ NO
3. Was the MS/MSD analyzed on the specific project matrix? ☑ YES ☐ NO

4. List the MS % recovery range: *See certificate of analysis*
5. Were any analytes qualified as estimated? ☐ YES ☑ NO
    - If yes, and the LCS for the analyte(s) recovered within control limits, matrix interference is suspected.

Comments: MS/MSD criteria were met except. Field duplicate/sample results exhibited acceptable precision, where applicable.

J. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

1. Was a LCS included in the sample analysis? ☑ YES ☐ NO
2. Did the LCS contain required target analytes? ☑ YES ☐ NO
3. List the LCS target analytes and laboratory recovery range: *See semivolatile certificate of analysis.*
4. Were any analytes qualified as estimated due to LCS criteria? ☐ YES ☑ NO

Comments: LCS criteria were met.

K. INTERNAL STANDARDS (IS) CRITERIA:

1. Were the following internal standards used? ☑ YES ☐ NO
    - 1,4-Dichlorobenzene-d_4
    - Naphthalene-d_8
    - Acenapththene-d_{10}
    - Phenanthrene-d_{10}
    - Pyrene-d_{10}
    - Perylene-d_{12}
2. Were the IS areas within - 50% to + 100% of the last CV? ☑ YES ☐ NO
3. Were the IS RTs within ± 30 seconds of last CV? ☑ YES ☐ NO

Comments: Internal standard criteria were met.

L. TARGET ANALYTE IDENTIFICATION:

1. Were the RRTs of the reported analytes within ± 0.06 RRT units of the standard RRT? ☑ YES ☐ NO
2. Check the sample spectra against the laboratory standard spectra to see that the following criteria were met: ☑ YES ☐ NO
    * Did characteristic ions maximize in the same scan or within one scan of each other?
    * Were characteristic ions present in the standard spectra present in the sample spectra for analytes detected above the QL?
    * Were the relative ion intensities between the standard and sample spectra within ± 30%?
3. Were the reported analytes confirmed? ☑ YES ☐ NO

Comments: Target analyte identification criteria were met.

M. TARGET ANALYTE QUANTITATION:

- ***** If the %RSD of an analyte was 20% or less, then the average relative response factor should have been used for quantitation.
- * If the %RSD of an analyte was greater than 20%, then the quantitation should be based on a calibration curve using the first or higher order regression fit of the five calibration points (6 calibration points for 2nd order).

1. List analytes detected above the QL whose %RSD was >20%: *None*
   a. Was quantitation based on a linear regression fit? ☑ NA ☐ YES ☐ NO
   b. Was the curve forced through the origin? ☑ NA ☐ YES ☐ NO
2. Did the initial analysis of any sample have a concentration of a target analyte that exceeded the initial calibration range? ☐ YES ☑ NO
   -If so, was the sample reanalyzed at a higher dilution? ☑ NA ☐ YES ☐ NO
3. Were the analyte concentrations that were recorded on the raw sample quantitation reports accurately transferred to the sample summary sheets? ☑ YES ☐ NO
4. Were sample/ field duplicate RPDs <20% where applicable? ☑ YES ☐ NO

Comments: Target analyte quantitation criteria were met

N. CORRECTIVE ACTION TAKEN AND GENERAL COMMENTS:

Comments: No corrective action was taken. Library searches were not requested with this data set. The initial demonstration of capability (IDOC) is maintained and kept on file at the laboratory.

REFERENCES:

TRC Engineers, Inc. (TRC) conducted data validation of the above noted data set using summary tables and instrument data provided by the analyzing laboratory. Data were evaluated in general accordance with SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd edition - Final Update I, II/IIA, III and subsequent updates) and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, November 2020, where applicable). Where QA/QC criteria differed, the analytical method acceptance criteria were used. Additionally, laboratory specific acceptance criteria and/or historical program acceptance criteria were used when no other acceptance criteria were available. Validation of this data set is limited to the items detailed in this report.

LIMITATIONS:

TRC Engineers, Inc. (TRC) prepared this document (which may include drawings, specifications, reports, studies and attachments) in accordance with the agreement between TRC and BAE Systems, Ordnance Systems, Inc. The standard of care for all professional engineering, environmental and surveying and related services performed or furnished by TRC under this Agreement are the care and skill ordinarily used by members of these professions practicing under similar circumstances at the same time and in the same

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ANALYTICAL REPORT

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JOB DESCRIPTION

RFAAP, Radford HWMU16

JOB NUMBER

410-229895-1

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See page two for job notes and contact information.

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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Barb Weyandt

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Revision 3

Authorized for release by
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Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.
· QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
· Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
· Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
cn	Refer to Case Narrative for further detail
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
410-229895-1

REVISION

The report being provided is a revision of the original report sent on 7/15/2025. The report (revision 3) is being revised due to adding 1,1-DCA to L4 report.

Report revision history
Revision 2 - 7/28/2025 - Reason - correcting the SVOC method chain from 8270D to 8270E.
Revision 1 - 7/16/2025 - Reason - reporting the results to the RL.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/27/2025 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7°C and 3.6°C.

Receipt Exceptions
The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): 16WC1A (410-229895-4).
The laboratory received 18 total containers, while the COC lists 27 total containers.

The container count for the following sample did not match what was listed on the Chain-of-Custody (COC): 16MW9 (410-229895-3).
The laboratory received 9 total containers, while the COC lists 18 total containers.

GC/MS VOA
Method 8260D_LL: Internal standard (ISTD) response for the following samples were outside control limits: 16WC1B (410-229895-6) and 16-2 (410-229895-7). The sample(s) was re-extracted and/or re-analyzed and ISTD response was outside control limits.

Method 8260D_LL: The continuing calibration verification (CCV) associated with batch 410-668678 recovered outside acceptance criteria, low biased, for Dichlorodifluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Non-detections of the affected analytes are reported. Any detections are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: TRC, Engineers, Inc.
Project/Site: RFAAP, Radford HWMU16

Job ID: 410-229895-1

Client Sample ID: 16C1 — Lab Sample ID: 410-229895-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	2.5		1.0		ug/L	1		8260D	Total/NA
1,1-Dichloroethane	5.0		1.0		ug/L	1		8260D	Total/NA
Tetrahydrofuran	26		25		ug/L	1		8260D	Total/NA
Barium	200		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16MW8 — Lab Sample ID: 410-229895-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		10		ug/L	1		6020B	Total Recoverable
Copper	16		5.0		ug/L	1		6020B	Total Recoverable
Zinc	34		30		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16MW9 — Lab Sample ID: 410-229895-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	1.7		1.0		ug/L	1		8260D	Total/NA
1,1-Dichloroethane	4.7		1.0		ug/L	1		8260D	Total/NA
Barium	650		10		ug/L	1		6020B	Total Recoverable
Cobalt	5.4		5.0		ug/L	1		6020B	Total Recoverable
Nickel	12		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16WC1A — Lab Sample ID: 410-229895-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	1.2		1.0		ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.0		1.0		ug/L	1		8260D	Total/NA
Ethyl ether	16		10		ug/L	1		8260D	Total/NA
Barium	360		10		ug/L	1		6020B	Total Recoverable
Cobalt	12		5.0		ug/L	1		6020B	Total Recoverable
Nickel	10		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16WDUP — Lab Sample ID: 410-229895-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroethane	1.1		1.0		ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.9		1.0		ug/L	1		8260D	Total/NA
Ethyl ether	15		10		ug/L	1		8260D	Total/NA
Barium	360		10		ug/L	1		6020B	Total Recoverable
Cobalt	11		5.0		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16WC1B — Lab Sample ID: 410-229895-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130		10		ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC, Engineers, Inc.
Project/Site: RFAAP, Radford HWMU16

Job ID: 410-229895-1

Client Sample ID: 16-2 — Lab Sample ID: 410-229895-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	250		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16-3 — Lab Sample ID: 410-229895-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	770		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16-5 — Lab Sample ID: 410-229895-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	180		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16WC2B — Lab Sample ID: 410-229895-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: 16SPRING — Lab Sample ID: 410-229895-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	230		10		ug/L	1		6020B	Total Recoverable

Client Sample ID: Trip Blank 1 — Lab Sample ID: 410-229895-12

No Detections.

Client Sample ID: Trip Blank 2 — Lab Sample ID: 410-229895-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 16C1
Date Collected: 06/26/25 12:15
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-1
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 14:36	1
2-Butanone	ND		10		ug/L			07/08/25 14:36	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 14:36	1
Chloroethane	**2.5**		1.0		ug/L			07/08/25 14:36	1
Chloromethane	ND		1.0		ug/L			07/08/25 14:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 14:36	1
1,1-Dichloroethane	**5.0**		1.0		ug/L			07/08/25 14:36	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 14:36	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 14:36	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 14:36	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 14:36	1
Tetrahydrofuran	**26**		25		ug/L			07/08/25 14:36	1
Toluene	ND		1.0		ug/L			07/08/25 14:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 14:36	1
Trichloroethene	ND		1.0		ug/L			07/08/25 14:36	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 14:36	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 14:36	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 14:36	1
Dimethyl ether	ND		10		ug/L			07/08/25 14:36	1
Freon 113	ND		1.0		ug/L			07/08/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*07/08/25 14:36*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/08/25 14:36*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/08/25 14:36*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/08/25 14:36*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		100		ug/L			07/09/25 16:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/09/25 16:21*	*10*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*07/09/25 16:21*	*10*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/09/25 16:21*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/09/25 16:21*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 19:13	1
2,6-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 19:13	1
Diethyl phthalate	ND		5.1		ug/L		07/03/25 08:30	07/09/25 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*13 - 134*	*07/03/25 08:30*	*07/09/25 19:13*	*1*
2-Fluorobiphenyl (Surr)	*83*		*45 - 120*	*07/03/25 08:30*	*07/09/25 19:13*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*07/03/25 08:30*	*07/09/25 19:13*	*1*
Nitrobenzene-d5 (Surr)	*91*		*33 - 120*	*07/03/25 08:30*	*07/09/25 19:13*	*1*
p-Terphenyl-d14 (Surr)	*96*		*26 - 123*	*07/03/25 08:30*	*07/09/25 19:13*	*1*
Phenol-d5 (Surr)	*45*		*10 - 120*	*07/03/25 08:30*	*07/09/25 19:13*	*1*

Client Sample ID: 16C1
Lab Sample ID: 410-229895-1
Date Collected: 06/26/25 12:15
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:56	1
Barium	**200**		10		ug/L		07/04/25 21:00	07/10/25 17:56	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 17:56	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:56	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:56	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:11	1

Client Sample ID: 16MW8
Lab Sample ID: 410-229895-2
Date Collected: 06/25/25 12:05
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 14:59	1
2-Butanone	ND		10		ug/L			07/08/25 14:59	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 14:59	1
Chloroethane	ND		1.0		ug/L			07/08/25 14:59	1
Chloromethane	ND		1.0		ug/L			07/08/25 14:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 14:59	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 14:59	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 14:59	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 14:59	1
Ethyl ether	ND		10		ug/L			07/08/25 14:59	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 14:59	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 14:59	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 14:59	1
Toluene	ND		1.0		ug/L			07/08/25 14:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 14:59	1
Trichloroethene	ND		1.0		ug/L			07/08/25 14:59	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 14:59	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 14:59	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 14:59	1
Dimethyl ether	ND		10		ug/L			07/08/25 14:59	1
Freon 113	ND		1.0		ug/L			07/08/25 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/08/25 14:59*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/08/25 14:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/08/25 14:59*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/08/25 14:59*	*1*

Client Sample ID: 16MW8
Date Collected: 06/25/25 12:05
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 22:40	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 22:40	1
Diethyl phthalate	ND		5.1		ug/L		07/02/25 15:31	07/03/25 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*13 - 134*	*07/02/25 15:31*	*07/03/25 22:40*	*1*
2-Fluorobiphenyl (Surr)	*85*		*45 - 120*	*07/02/25 15:31*	*07/03/25 22:40*	*1*
2-Fluorophenol (Surr)	*53*		*10 - 120*	*07/02/25 15:31*	*07/03/25 22:40*	*1*
Nitrobenzene-d5 (Surr)	*84*		*33 - 120*	*07/02/25 15:31*	*07/03/25 22:40*	*1*
p-Terphenyl-d14 (Surr)	*86*		*26 - 123*	*07/02/25 15:31*	*07/03/25 22:40*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*07/02/25 15:31*	*07/03/25 22:40*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:54	1
Barium	**120**		10		ug/L		07/04/25 21:00	07/10/25 17:54	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Copper	**16**		5.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 17:54	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:54	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:54	1
Zinc	**34**		30		ug/L		07/04/25 21:00	07/10/25 17:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:24	1

Client Sample ID: 16MW9
Date Collected: 06/26/25 11:00
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 15:21	1
2-Butanone	ND		10		ug/L			07/08/25 15:21	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 15:21	1
Chloroethane	**1.7**		1.0		ug/L			07/08/25 15:21	1
Chloromethane	ND		1.0		ug/L			07/08/25 15:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 15:21	1
1,1-Dichloroethane	**4.7**		1.0		ug/L			07/08/25 15:21	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 15:21	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 15:21	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 15:21	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 15:21	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 15:21	1
Toluene	ND		1.0		ug/L			07/08/25 15:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 15:21	1

Client Sample ID: 16MW9
Date Collected: 06/26/25 11:00
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-3
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0		ug/L			07/08/25 15:21	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 15:21	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 15:21	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 15:21	1
Dimethyl ether	ND		10		ug/L			07/08/25 15:21	1
Freon 113	ND		1.0		ug/L			07/08/25 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*07/08/25 15:21*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/08/25 15:21*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*07/08/25 15:21*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/08/25 15:21*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl ether	ND		100		ug/L			07/09/25 16:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/09/25 16:43*	*10*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/09/25 16:43*	*10*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*07/09/25 16:43*	*10*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/09/25 16:43*	*10*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 19:34	1
2,6-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 19:34	1
Diethyl phthalate	ND		5.0		ug/L		07/03/25 08:30	07/09/25 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*13 - 134*	*07/03/25 08:30*	*07/09/25 19:34*	*1*
2-Fluorobiphenyl (Surr)	*82*		*45 - 120*	*07/03/25 08:30*	*07/09/25 19:34*	*1*
2-Fluorophenol (Surr)	*48*		*10 - 120*	*07/03/25 08:30*	*07/09/25 19:34*	*1*
Nitrobenzene-d5 (Surr)	*87*		*33 - 120*	*07/03/25 08:30*	*07/09/25 19:34*	*1*
p-Terphenyl-d14 (Surr)	*101*		*26 - 123*	*07/03/25 08:30*	*07/09/25 19:34*	*1*
Phenol-d5 (Surr)	*43*		*10 - 120*	*07/03/25 08:30*	*07/09/25 19:34*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:58	1
Barium	**650**		10		ug/L		07/04/25 21:00	07/10/25 17:58	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Cobalt	**5.4**		5.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Nickel	**12**		10		ug/L		07/04/25 21:00	07/10/25 17:58	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:58	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:58	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:58	1

Client Sample ID: 16MW9
Lab Sample ID: 410-229895-3
Date Collected: 06/26/25 11:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:09	1

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4
Date Collected: 06/26/25 09:45
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 15:43	1
2-Butanone	ND		10		ug/L			07/08/25 15:43	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 15:43	1
Chloroethane	**1.2**		1.0		ug/L			07/08/25 15:43	1
Chloromethane	ND		1.0		ug/L			07/08/25 15:43	1
Dichlorodifluoromethane	ND	F1	1.0		ug/L			07/08/25 15:43	1
1,1-Dichloroethane	**2.0**		1.0		ug/L			07/08/25 15:43	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 15:43	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 15:43	1
Ethyl ether	**16**		10		ug/L			07/08/25 15:43	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 15:43	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 15:43	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 15:43	1
Toluene	ND		1.0		ug/L			07/08/25 15:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 15:43	1
Trichloroethene	ND		1.0		ug/L			07/08/25 15:43	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 15:43	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 15:43	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 15:43	1
Dimethyl ether	ND		10		ug/L			07/08/25 15:43	1
Freon 113	ND		1.0		ug/L			07/08/25 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*07/08/25 15:43*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 120*		*07/08/25 15:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*07/08/25 15:43*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/08/25 15:43*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 14:34	1
2,6-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 14:34	1
Diethyl phthalate	ND		5.1		ug/L		07/03/25 08:30	07/09/25 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*22*		*13 - 134*	*07/03/25 08:30*	*07/09/25 14:34*	*1*
2-Fluorobiphenyl (Surr)	*77*		*45 - 120*	*07/03/25 08:30*	*07/09/25 14:34*	*1*
2-Fluorophenol (Surr)	*10*		*10 - 120*	*07/03/25 08:30*	*07/09/25 14:34*	*1*
Nitrobenzene-d5 (Surr)	*82*		*33 - 120*	*07/03/25 08:30*	*07/09/25 14:34*	*1*
p-Terphenyl-d14 (Surr)	*58*		*26 - 123*	*07/03/25 08:30*	*07/09/25 14:34*	*1*
Phenol-d5 (Surr)	*6*	*S1-*	*10 - 120*	*07/03/25 08:30*	*07/09/25 14:34*	*1*

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4

Date Collected: 06/26/25 09:45
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:30	1
Barium	**360**		10		ug/L		07/04/25 21:00	07/10/25 17:30	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Cobalt	**12**		5.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Nickel	**10**		10		ug/L		07/04/25 21:00	07/10/25 17:30	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:30	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:30	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 19:35	1

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5

Date Collected: 06/26/25 09:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 17:35	1
2-Butanone	ND		10		ug/L			07/08/25 17:35	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 17:35	1
Chloroethane	**1.1**		1.0		ug/L			07/08/25 17:35	1
Chloromethane	ND		1.0		ug/L			07/08/25 17:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 17:35	1
1,1-Dichloroethane	**1.9**		1.0		ug/L			07/08/25 17:35	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 17:35	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 17:35	1
Ethyl ether	**15**		10		ug/L			07/08/25 17:35	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 17:35	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 17:35	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 17:35	1
Toluene	ND		1.0		ug/L			07/08/25 17:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 17:35	1
Trichloroethene	ND		1.0		ug/L			07/08/25 17:35	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 17:35	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 17:35	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 17:35	1
Dimethyl ether	ND		10		ug/L			07/08/25 17:35	1
Freon 113	ND		1.0		ug/L			07/08/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*07/08/25 17:35*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/08/25 17:35*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*07/08/25 17:35*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/08/25 17:35*	*1*

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5

Date Collected: 06/26/25 09:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 19:56	1
2,6-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 19:56	1
Diethyl phthalate	ND		5.1		ug/L		07/03/25 08:30	07/09/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*34*		*13 - 134*	*07/03/25 08:30*	*07/09/25 19:56*	*1*
2-Fluorobiphenyl (Surr)	*87*		*45 - 120*	*07/03/25 08:30*	*07/09/25 19:56*	*1*
2-Fluorophenol (Surr)	*22*		*10 - 120*	*07/03/25 08:30*	*07/09/25 19:56*	*1*
Nitrobenzene-d5 (Surr)	*92*		*33 - 120*	*07/03/25 08:30*	*07/09/25 19:56*	*1*
p-Terphenyl-d14 (Surr)	*67*		*26 - 123*	*07/03/25 08:30*	*07/09/25 19:56*	*1*
Phenol-d5 (Surr)	*19*		*10 - 120*	*07/03/25 08:30*	*07/09/25 19:56*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 18:03	1
Barium	**360**		10		ug/L		07/04/25 21:00	07/10/25 18:03	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Cobalt	**11**		5.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 18:03	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 18:03	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 18:03	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 18:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:19	1

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6

Date Collected: 06/26/25 11:20
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	cn	1.0		ug/L			07/08/25 17:57	1
2-Butanone	ND	*3 cn	10		ug/L			07/08/25 17:57	1
Carbon tetrachloride	ND	cn	1.0		ug/L			07/08/25 17:57	1
Chloroethane	ND	cn	1.0		ug/L			07/08/25 17:57	1
Chloromethane	ND	cn	1.0		ug/L			07/08/25 17:57	1
Dichlorodifluoromethane	ND	cn	1.0		ug/L			07/08/25 17:57	1
1,1-Dichloroethane	ND	cn	1.0		ug/L			07/08/25 17:57	1
1,1-Dichloroethene	ND	cn	1.0		ug/L			07/08/25 17:57	1
Ethylbenzene	ND	cn	1.0		ug/L			07/08/25 17:57	1
Ethyl ether	ND	cn	10		ug/L			07/08/25 17:57	1
Methylene Chloride	ND	cn	1.0		ug/L			07/08/25 17:57	1
Tetrachloroethene	ND	cn	1.0		ug/L			07/08/25 17:57	1
Tetrahydrofuran	ND	*3 cn	25		ug/L			07/08/25 17:57	1
Toluene	ND	cn	1.0		ug/L			07/08/25 17:57	1

Client Sample ID: 16WC1B

Date Collected: 06/26/25 11:20
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-6

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	cn	1.0		ug/L			07/08/25 17:57	1
Trichloroethene	ND	cn	1.0		ug/L			07/08/25 17:57	1
Trichlorofluoromethane	ND	cn	1.0		ug/L			07/08/25 17:57	1
Vinyl chloride	ND	cn	1.0		ug/L			07/08/25 17:57	1
Xylenes, Total	ND	cn	3.0		ug/L			07/08/25 17:57	1
Dimethyl ether	ND	cn	10		ug/L			07/08/25 17:57	1
Freon 113	ND	cn	1.0		ug/L			07/08/25 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*	*cn*	*80 - 120*		*07/08/25 17:57*	*1*
Dibromofluoromethane (Surr)	*104*	*cn*	*80 - 120*		*07/08/25 17:57*	*1*
4-Bromofluorobenzene (Surr)	*95*	*cn*	*80 - 120*		*07/08/25 17:57*	*1*
Toluene-d8 (Surr)	*97*	*cn*	*80 - 120*		*07/08/25 17:57*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/09/25 15:14	1
2-Butanone	ND	*3	10		ug/L			07/09/25 15:14	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/25 15:14	1
Chloroethane	ND		1.0		ug/L			07/09/25 15:14	1
Chloromethane	ND		1.0		ug/L			07/09/25 15:14	1
Dichlorodifluoromethane	ND	cn	1.0		ug/L			07/09/25 15:14	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/25 15:14	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/25 15:14	1
Ethylbenzene	ND		1.0		ug/L			07/09/25 15:14	1
Ethyl ether	ND		10		ug/L			07/09/25 15:14	1
Methylene Chloride	ND		1.0		ug/L			07/09/25 15:14	1
Tetrachloroethene	ND		1.0		ug/L			07/09/25 15:14	1
Tetrahydrofuran	ND	*3	25		ug/L			07/09/25 15:14	1
Toluene	ND		1.0		ug/L			07/09/25 15:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/25 15:14	1
Trichloroethene	ND		1.0		ug/L			07/09/25 15:14	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/25 15:14	1
Vinyl chloride	ND		1.0		ug/L			07/09/25 15:14	1
Xylenes, Total	ND		3.0		ug/L			07/09/25 15:14	1
Dimethyl ether	ND		10		ug/L			07/09/25 15:14	1
Freon 113	ND		1.0		ug/L			07/09/25 15:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*		*07/09/25 15:14*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 120*		*07/09/25 15:14*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/09/25 15:14*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/09/25 15:14*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 20:17	1
2,6-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 20:17	1
Diethyl phthalate	ND		5.1		ug/L		07/03/25 08:30	07/09/25 20:17	1

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6

Date Collected: 06/26/25 11:20
Matrix: Water
Date Received: 06/27/25 09:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*13 - 134*	*07/03/25 08:30*	*07/09/25 20:17*	*1*
2-Fluorobiphenyl (Surr)	*84*		*45 - 120*	*07/03/25 08:30*	*07/09/25 20:17*	*1*
2-Fluorophenol (Surr)	*35*		*10 - 120*	*07/03/25 08:30*	*07/09/25 20:17*	*1*
Nitrobenzene-d5 (Surr)	*88*		*33 - 120*	*07/03/25 08:30*	*07/09/25 20:17*	*1*
p-Terphenyl-d14 (Surr)	*87*		*26 - 123*	*07/03/25 08:30*	*07/09/25 20:17*	*1*
Phenol-d5 (Surr)	*26*		*10 - 120*	*07/03/25 08:30*	*07/09/25 20:17*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:52	1
Barium	**130**		10		ug/L		07/04/25 21:00	07/10/25 17:52	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 17:52	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:52	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:52	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:17	1

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7

Date Collected: 06/25/25 11:15
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	cn	1.0		ug/L			07/08/25 18:19	1
2-Butanone	ND	*3 cn	10		ug/L			07/08/25 18:19	1
Carbon tetrachloride	ND	cn	1.0		ug/L			07/08/25 18:19	1
Chloroethane	ND	cn	1.0		ug/L			07/08/25 18:19	1
Chloromethane	ND	cn	1.0		ug/L			07/08/25 18:19	1
Dichlorodifluoromethane	ND	cn	1.0		ug/L			07/08/25 18:19	1
1,1-Dichloroethane	ND	cn	1.0		ug/L			07/08/25 18:19	1
1,1-Dichloroethene	ND	cn	1.0		ug/L			07/08/25 18:19	1
Ethylbenzene	ND	cn	1.0		ug/L			07/08/25 18:19	1
Ethyl ether	ND	cn	10		ug/L			07/08/25 18:19	1
Methylene Chloride	ND	cn	1.0		ug/L			07/08/25 18:19	1
Tetrachloroethene	ND	cn	1.0		ug/L			07/08/25 18:19	1
Tetrahydrofuran	ND	*3 cn	25		ug/L			07/08/25 18:19	1
Toluene	ND	cn	1.0		ug/L			07/08/25 18:19	1
1,1,1-Trichloroethane	ND	cn	1.0		ug/L			07/08/25 18:19	1
Trichloroethene	ND	cn	1.0		ug/L			07/08/25 18:19	1
Trichlorofluoromethane	ND	cn	1.0		ug/L			07/08/25 18:19	1
Vinyl chloride	ND	cn	1.0		ug/L			07/08/25 18:19	1
Xylenes, Total	ND	cn	3.0		ug/L			07/08/25 18:19	1

Client Sample ID: 16-2
Date Collected: 06/25/25 11:15
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-7
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl ether	ND	cn	10		ug/L			07/08/25 18:19	1
Freon 113	ND	cn	1.0		ug/L			07/08/25 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*	*cn*	*80 - 120*		*07/08/25 18:19*	*1*
Dibromofluoromethane (Surr)	*104*	*cn*	*80 - 120*		*07/08/25 18:19*	*1*
4-Bromofluorobenzene (Surr)	*93*	*cn*	*80 - 120*		*07/08/25 18:19*	*1*
Toluene-d8 (Surr)	*96*	*cn*	*80 - 120*		*07/08/25 18:19*	*1*

Method: SW846 8260D - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/09/25 15:36	1
2-Butanone	ND	*3	10		ug/L			07/09/25 15:36	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/25 15:36	1
Chloroethane	ND		1.0		ug/L			07/09/25 15:36	1
Chloromethane	ND		1.0		ug/L			07/09/25 15:36	1
Dichlorodifluoromethane	ND	cn	1.0		ug/L			07/09/25 15:36	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/25 15:36	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/25 15:36	1
Ethylbenzene	ND		1.0		ug/L			07/09/25 15:36	1
Ethyl ether	ND		10		ug/L			07/09/25 15:36	1
Methylene Chloride	ND		1.0		ug/L			07/09/25 15:36	1
Tetrachloroethene	ND		1.0		ug/L			07/09/25 15:36	1
Tetrahydrofuran	ND	*3	25		ug/L			07/09/25 15:36	1
Toluene	ND		1.0		ug/L			07/09/25 15:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/25 15:36	1
Trichloroethene	ND		1.0		ug/L			07/09/25 15:36	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/25 15:36	1
Vinyl chloride	ND		1.0		ug/L			07/09/25 15:36	1
Xylenes, Total	ND		3.0		ug/L			07/09/25 15:36	1
Dimethyl ether	ND		10		ug/L			07/09/25 15:36	1
Freon 113	ND		1.0		ug/L			07/09/25 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*80 - 120*		*07/09/25 15:36*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 120*		*07/09/25 15:36*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/09/25 15:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/09/25 15:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 23:01	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 23:01	1
Diethyl phthalate	ND		5.0		ug/L		07/02/25 15:31	07/03/25 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*13 - 134*	*07/02/25 15:31*	*07/03/25 23:01*	*1*
2-Fluorobiphenyl (Surr)	*79*		*45 - 120*	*07/02/25 15:31*	*07/03/25 23:01*	*1*
2-Fluorophenol (Surr)	*49*		*10 - 120*	*07/02/25 15:31*	*07/03/25 23:01*	*1*
Nitrobenzene-d5 (Surr)	*79*		*33 - 120*	*07/02/25 15:31*	*07/03/25 23:01*	*1*
p-Terphenyl-d14 (Surr)	*108*		*26 - 123*	*07/02/25 15:31*	*07/03/25 23:01*	*1*

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7

Date Collected: 06/25/25 11:15
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*34*		*10 - 120*	*07/02/25 15:31*	*07/03/25 23:01*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 18:05	1
Barium	**250**		10		ug/L		07/04/25 21:00	07/10/25 18:05	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 18:05	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 18:05	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 18:05	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 18:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:05	1

Client Sample ID: 16-3
Lab Sample ID: 410-229895-8

Date Collected: 06/25/25 13:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/09/25 15:59	1
2-Butanone	ND		10		ug/L			07/09/25 15:59	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/25 15:59	1
Chloroethane	ND		1.0		ug/L			07/09/25 15:59	1
Chloromethane	ND		1.0		ug/L			07/09/25 15:59	1
Dichlorodifluoromethane	ND	cn	1.0		ug/L			07/09/25 15:59	1
1,1-Dichloroethane	ND		1.0		ug/L			07/09/25 15:59	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/25 15:59	1
Ethylbenzene	ND		1.0		ug/L			07/09/25 15:59	1
Ethyl ether	ND		10		ug/L			07/09/25 15:59	1
Methylene Chloride	ND		1.0		ug/L			07/09/25 15:59	1
Tetrachloroethene	ND		1.0		ug/L			07/09/25 15:59	1
Tetrahydrofuran	ND		25		ug/L			07/09/25 15:59	1
Toluene	ND		1.0		ug/L			07/09/25 15:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/25 15:59	1
Trichloroethene	ND		1.0		ug/L			07/09/25 15:59	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/25 15:59	1
Vinyl chloride	ND		1.0		ug/L			07/09/25 15:59	1
Xylenes, Total	ND		3.0		ug/L			07/09/25 15:59	1
Dimethyl ether	ND		10		ug/L			07/09/25 15:59	1
Freon 113	ND		1.0		ug/L			07/09/25 15:59	1

Client Sample ID: 16-3
Date Collected: 06/25/25 13:00
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-8
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*07/09/25 15:59*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/09/25 15:59*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/09/25 15:59*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/09/25 15:59*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 23:23	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 23:23	1
Diethyl phthalate	ND		5.1		ug/L		07/02/25 15:31	07/03/25 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*13 - 134*	*07/02/25 15:31*	*07/03/25 23:23*	*1*
2-Fluorobiphenyl (Surr)	*80*		*45 - 120*	*07/02/25 15:31*	*07/03/25 23:23*	*1*
2-Fluorophenol (Surr)	*55*		*10 - 120*	*07/02/25 15:31*	*07/03/25 23:23*	*1*
Nitrobenzene-d5 (Surr)	*84*		*33 - 120*	*07/02/25 15:31*	*07/03/25 23:23*	*1*
p-Terphenyl-d14 (Surr)	*104*		*26 - 123*	*07/02/25 15:31*	*07/03/25 23:23*	*1*
Phenol-d5 (Surr)	*38*		*10 - 120*	*07/02/25 15:31*	*07/03/25 23:23*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:38	1
Barium	**770**		10		ug/L		07/04/25 21:00	07/10/25 17:38	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 17:38	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:38	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:38	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:02	1

Client Sample ID: 16-5
Date Collected: 06/25/25 09:15
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 19:04	1
2-Butanone	ND		10		ug/L			07/08/25 19:04	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 19:04	1
Chloroethane	ND		1.0		ug/L			07/08/25 19:04	1
Chloromethane	ND		1.0		ug/L			07/08/25 19:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 19:04	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 19:04	1

Client Sample ID: 16-5
Date Collected: 06/25/25 09:15
Date Received: 06/27/25 09:35

Lab Sample ID: 410-229895-9
Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 19:04	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 19:04	1
Ethyl ether	ND		10		ug/L			07/08/25 19:04	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 19:04	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 19:04	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 19:04	1
Toluene	ND		1.0		ug/L			07/08/25 19:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 19:04	1
Trichloroethene	ND		1.0		ug/L			07/08/25 19:04	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 19:04	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 19:04	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 19:04	1
Dimethyl ether	ND		10		ug/L			07/08/25 19:04	1
Freon 113	ND		1.0		ug/L			07/08/25 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*		*07/08/25 19:04*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*07/08/25 19:04*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*07/08/25 19:04*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/08/25 19:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/09/25 03:30	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/09/25 03:30	1
Diethyl phthalate	ND		5.1		ug/L		07/02/25 15:31	07/09/25 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*64*		*13 - 134*	*07/02/25 15:31*	*07/09/25 03:30*	*1*
2-Fluorobiphenyl (Surr)	*76*		*45 - 120*	*07/02/25 15:31*	*07/09/25 03:30*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*07/02/25 15:31*	*07/09/25 03:30*	*1*
Nitrobenzene-d5 (Surr)	*77*		*33 - 120*	*07/02/25 15:31*	*07/09/25 03:30*	*1*
p-Terphenyl-d14 (Surr)	*105*		*26 - 123*	*07/02/25 15:31*	*07/09/25 03:30*	*1*
Phenol-d5 (Surr)	*36*		*10 - 120*	*07/02/25 15:31*	*07/09/25 03:30*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 18:00	1
Barium	**180**		10		ug/L		07/04/25 21:00	07/10/25 18:00	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 18:00	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 18:00	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 18:00	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 18:00	1

Client Sample ID: 16-5
Lab Sample ID: 410-229895-9

Date Collected: 06/25/25 09:15
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:07	1

Client Sample ID: 16WC2B
Lab Sample ID: 410-229895-10

Date Collected: 06/25/25 10:20
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 19:26	1
2-Butanone	ND		10		ug/L			07/08/25 19:26	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 19:26	1
Chloroethane	ND		1.0		ug/L			07/08/25 19:26	1
Chloromethane	ND		1.0		ug/L			07/08/25 19:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 19:26	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 19:26	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 19:26	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 19:26	1
Ethyl ether	ND		10		ug/L			07/08/25 19:26	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 19:26	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 19:26	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 19:26	1
Toluene	ND		1.0		ug/L			07/08/25 19:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 19:26	1
Trichloroethene	ND		1.0		ug/L			07/08/25 19:26	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 19:26	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 19:26	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 19:26	1
Dimethyl ether	ND		10		ug/L			07/08/25 19:26	1
Freon 113	ND		1.0		ug/L			07/08/25 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*		*07/08/25 19:26*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 120*		*07/08/25 19:26*	*1*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*07/08/25 19:26*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/08/25 19:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/09/25 03:51	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/09/25 03:51	1
Diethyl phthalate	ND		5.1		ug/L		07/02/25 15:31	07/09/25 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*13 - 134*	*07/02/25 15:31*	*07/09/25 03:51*	*1*
2-Fluorobiphenyl (Surr)	*69*		*45 - 120*	*07/02/25 15:31*	*07/09/25 03:51*	*1*
2-Fluorophenol (Surr)	*41*		*10 - 120*	*07/02/25 15:31*	*07/09/25 03:51*	*1*
Nitrobenzene-d5 (Surr)	*67*		*33 - 120*	*07/02/25 15:31*	*07/09/25 03:51*	*1*
p-Terphenyl-d14 (Surr)	*90*		*26 - 123*	*07/02/25 15:31*	*07/09/25 03:51*	*1*
Phenol-d5 (Surr)	*28*		*10 - 120*	*07/02/25 15:31*	*07/09/25 03:51*	*1*

Client Sample ID: 16WC2B
Lab Sample ID: 410-229895-10

Date Collected: 06/25/25 10:20
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:41	1
Barium	**120**		10		ug/L		07/04/25 21:00	07/10/25 17:41	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 17:41	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:41	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:41	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:04	1

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11

Date Collected: 06/25/25 09:25
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 19:48	1
2-Butanone	ND		10		ug/L			07/08/25 19:48	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 19:48	1
Chloroethane	ND		1.0		ug/L			07/08/25 19:48	1
Chloromethane	ND		1.0		ug/L			07/08/25 19:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 19:48	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 19:48	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 19:48	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 19:48	1
Ethyl ether	ND		10		ug/L			07/08/25 19:48	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 19:48	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 19:48	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 19:48	1
Toluene	ND		1.0		ug/L			07/08/25 19:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 19:48	1
Trichloroethene	ND		1.0		ug/L			07/08/25 19:48	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 19:48	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 19:48	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 19:48	1
Dimethyl ether	ND		10		ug/L			07/08/25 19:48	1
Freon 113	ND		1.0		ug/L			07/08/25 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*80 - 120*		*07/08/25 19:48*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*07/08/25 19:48*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*07/08/25 19:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/08/25 19:48*	*1*

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11
Date Collected: 06/25/25 09:25
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/09/25 04:12	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/09/25 04:12	1
Diethyl phthalate	ND		5.0		ug/L		07/02/25 15:31	07/09/25 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*58*		*13 - 134*	*07/02/25 15:31*	*07/09/25 04:12*	*1*
2-Fluorobiphenyl (Surr)	*71*		*45 - 120*	*07/02/25 15:31*	*07/09/25 04:12*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 120*	*07/02/25 15:31*	*07/09/25 04:12*	*1*
Nitrobenzene-d5 (Surr)	*71*		*33 - 120*	*07/02/25 15:31*	*07/09/25 04:12*	*1*
p-Terphenyl-d14 (Surr)	*99*		*26 - 123*	*07/02/25 15:31*	*07/09/25 04:12*	*1*
Phenol-d5 (Surr)	*30*		*10 - 120*	*07/02/25 15:31*	*07/09/25 04:12*	*1*

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 18:07	1
Barium	**230**		10		ug/L		07/04/25 21:00	07/10/25 18:07	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 18:07	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 18:07	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 18:07	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 18:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 20:21	1

Client Sample ID: Trip Blank 1
Lab Sample ID: 410-229895-12
Date Collected: 06/26/25 00:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			07/08/25 12:23	1
2-Butanone	ND		10		ug/L			07/08/25 12:23	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 12:23	1
Chloroethane	ND		1.0		ug/L			07/08/25 12:23	1
Chloromethane	ND		1.0		ug/L			07/08/25 12:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 12:23	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 12:23	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 12:23	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 12:23	1
Ethyl ether	ND		10		ug/L			07/08/25 12:23	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 12:23	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 12:23	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 12:23	1
Toluene	ND		1.0		ug/L			07/08/25 12:23	1

Client Sample ID: Trip Blank 1
Lab Sample ID: 410-229895-12

Date Collected: 06/26/25 00:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 12:23	1
Trichloroethene	ND		1.0		ug/L			07/08/25 12:23	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 12:23	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 12:23	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 12:23	1
Dimethyl ether	ND		10		ug/L			07/08/25 12:23	1
Freon 113	ND		1.0		ug/L			07/08/25 12:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*80 - 120*		*07/08/25 12:23*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/08/25 12:23*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*07/08/25 12:23*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/08/25 12:23*	*1*

Client Sample ID: Trip Blank 2
Lab Sample ID: 410-229895-13

Date Collected: 06/25/25 00:00
Matrix: Water
Date Received: 06/27/25 09:35

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50		ug/L			07/08/25 12:45	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 12:45	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 12:45	1
2-Butanone	ND		10		ug/L			07/08/25 12:45	1
Benzene	ND		1.0		ug/L			07/08/25 12:45	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 12:45	1
Chloroethane	ND		1.0		ug/L			07/08/25 12:45	1
Chloromethane	ND		1.0		ug/L			07/08/25 12:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 12:45	1
Ethyl ether	ND		10		ug/L			07/08/25 12:45	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 12:45	1
Freon 113	ND		1.0		ug/L			07/08/25 12:45	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 12:45	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 12:45	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 12:45	1
Toluene	ND		1.0		ug/L			07/08/25 12:45	1
Trichloroethene	ND		1.0		ug/L			07/08/25 12:45	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 12:45	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 12:45	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 12:45	1
Dimethyl ether	ND		10		ug/L			07/08/25 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*80 - 120*		*07/08/25 12:45*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 120*		*07/08/25 12:45*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*07/08/25 12:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/08/25 12:45*	*1*

Default Detection Limits

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Method: 8260D - Volatile Organic Compounds by GC/MS

Analyte	RL	MDL
1,1,1-Trichloroethane	1.0 ug/L	0.080 ug/L
1,1,2-Trichloroethane	0.50 ug/L	0.080 ug/L
1,1-Dichloroethane	1.0 ug/L	0.10 ug/L
1,1-Dichloroethene	1.0 ug/L	0.10 ug/L
2-Butanone	10 ug/L	1.0 ug/L
Benzene	1.0 ug/L	0.10 ug/L
Carbon tetrachloride	1.0 ug/L	0.10 ug/L
Chloroethane	1.0 ug/L	0.10 ug/L
Chloromethane	1.0 ug/L	0.10 ug/L
Dichlorodifluoromethane	1.0 ug/L	0.10 ug/L
Dimethyl ether	10 ug/L	0.30 ug/L
Ethyl ether	10 ug/L	0.10 ug/L
Ethylbenzene	1.0 ug/L	0.080 ug/L
Freon 113	1.0 ug/L	0.080 ug/L
Methylene Chloride	1.0 ug/L	0.20 ug/L
Tetrachloroethene	1.0 ug/L	0.20 ug/L
Tetrahydrofuran	25 ug/L	0.80 ug/L
Toluene	1.0 ug/L	0.080 ug/L
Trichloroethene	1.0 ug/L	0.080 ug/L
Trichlorofluoromethane	1.0 ug/L	0.10 ug/L
Vinyl chloride	1.0 ug/L	0.10 ug/L
Xylenes, Total	3.0 ug/L	0.070 ug/L

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Prep: 3510C

Analyte	RL	MDL
2,4-Dinitrotoluene	10 ug/L	2.1 ug/L
2,6-Dinitrotoluene	10 ug/L	2.1 ug/L
Diethyl phthalate	5.0 ug/L	2.0 ug/L

Method: 6020B - Metals (ICP/MS) - Total Recoverable

Prep: 3005A

Analyte	RL	MDL
Arsenic	10 ug/L	3.0 ug/L
Barium	10 ug/L	1.0 ug/L
Beryllium	1.0 ug/L	0.50 ug/L
Cadmium	1.0 ug/L	0.15 ug/L
Chromium	5.0 ug/L	1.0 ug/L
Cobalt	5.0 ug/L	0.16 ug/L
Copper	5.0 ug/L	1.0 ug/L
Lead	3.0 ug/L	1.1 ug/L
Nickel	10 ug/L	3.0 ug/L
Silver	2.0 ug/L	1.0 ug/L
Vanadium	10 ug/L	2.0 ug/L
Zinc	30 ug/L	6.2 ug/L

Method: 7470A - Mercury (CVAA)

Prep: 7470A

Analyte	RL	MDL
Mercury	2.0 ug/L	0.087 ug/L

Surrogate Summary

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	BFB	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-120)	(80-120)	(80-120)
410-229825-A-1 MSD	Matrix Spike Duplicate	100	103	100	101
410-229825-B-1 MS	Matrix Spike	100	102	99	101
410-229895-1	16C1	106	106	92	96
410-229895-1 - DL	16C1	104	107	92	96
410-229895-2	16MW8	104	106	92	95
410-229895-3	16MW9	106	106	93	97
410-229895-3 - DL	16MW9	103	106	91	96
410-229895-4	16WC1A	107	108	93	96
410-229895-4 MS	16WC1A	105	103	99	99
410-229895-4 MS	16WC1A	106	105	93	97
410-229895-4 MSD	16WC1A	105	103	99	100
410-229895-4 MSD	16WC1A	103	105	92	96
410-229895-5	16WDUP	106	106	93	96
410-229895-6	16WC1B	102 cn	104 cn	95 cn	97 cn
410-229895-6 - RA	16WC1B	103	104	92	98
410-229895-7	16-2	103 cn	104 cn	93 cn	96 cn
410-229895-7 - RA	16-2	101	105	92	98
410-229895-8	16-3	107	106	92	96
410-229895-9	16-5	106	107	93	95
410-229895-10	16WC2B	105	109	92	96
410-229895-11	16SPRING	108	107	91	96
410-229895-12	Trip Blank 1	104	106	93	97
410-229895-13	Trip Blank 2	102	106	94	97
LCS 410-668089/5	Lab Control Sample	106	103	100	98
LCS 410-668089/6	Lab Control Sample	103	105	93	97
LCS 410-668678/5	Lab Control Sample	101	103	100	100
LCS 410-668678/7	Lab Control Sample	103	103	93	96
LCSD 410-668678/6	Lab Control Sample Dup	106	102	99	99
LCSD 410-668678/8	Lab Control Sample Dup	106	104	93	96
MB 410-668089/8	Method Blank	107	107	94	97
MB 410-668678/10	Method Blank	105	106	94	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(13-134)	(45-120)	(10-120)	(33-120)	(26-123)	(10-120)
410-229895-1	16C1	84	83	57	91	96	45
410-229895-2	16MW8	72	85	53	84	86	38
410-229895-3	16MW9	74	82	48	87	101	43
410-229895-4	16WC1A	22	77	10	82	58	6 S1-
410-229895-4 MS	16WC1A	17	71	25	76	101	17
410-229895-4 MSD	16WC1A	26	77	27	82	102	23

Surrogate Summary

Client: TRC, Engineers, Inc. Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	TPHd14	PHL
Lab Sample ID	Client Sample ID	(13-134)	(45-120)	(10-120)	(33-120)	(26-123)	(10-120)
410-229895-5	16WDUP	34	87	22	92	67	19
410-229895-6	16WC1B	68	84	35	88	87	26
410-229895-7	16-2	66	79	49	79	108	34
410-229895-8	16-3	63	80	55	84	104	38
410-229895-9	16-5	64	76	52	77	105	36
410-229895-10	16WC2B	52	69	41	67	90	28
410-229895-11	16SPRING	58	71	44	71	99	30
LCS 410-666257/2-A	Lab Control Sample	75	63	52	74	95	37
LCS 410-666606/2-A	Lab Control Sample	77	66	50	60	102	39
LCSD 410-666257/3-A	Lab Control Sample Dup	75	64	51	69	92	38
MB 410-666257/1-A	Method Blank	63	73	50	78	105	35
MB 410-666606/1-A	Method Blank	62	80	57	81	94	40

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 410-668089/8
Matrix: Water
Analysis Batch: 668089

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		0.50		ug/L			07/08/25 12:00	1
1,1-Dichloroethane	ND		1.0		ug/L			07/08/25 12:00	1
1,1-Dichloroethene	ND		1.0		ug/L			07/08/25 12:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/08/25 12:00	1
2-Butanone	ND		10		ug/L			07/08/25 12:00	1
Benzene	ND		1.0		ug/L			07/08/25 12:00	1
Carbon tetrachloride	ND		1.0		ug/L			07/08/25 12:00	1
Chloroethane	ND		1.0		ug/L			07/08/25 12:00	1
Chloromethane	ND		1.0		ug/L			07/08/25 12:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/08/25 12:00	1
Ethyl ether	ND		10		ug/L			07/08/25 12:00	1
Ethylbenzene	ND		1.0		ug/L			07/08/25 12:00	1
Methylene Chloride	ND		1.0		ug/L			07/08/25 12:00	1
Tetrachloroethene	ND		1.0		ug/L			07/08/25 12:00	1
Tetrahydrofuran	ND		25		ug/L			07/08/25 12:00	1
Toluene	ND		1.0		ug/L			07/08/25 12:00	1
Trichloroethene	ND		1.0		ug/L			07/08/25 12:00	1
Trichlorofluoromethane	ND		1.0		ug/L			07/08/25 12:00	1
Vinyl chloride	ND		1.0		ug/L			07/08/25 12:00	1
Xylenes, Total	ND		3.0		ug/L			07/08/25 12:00	1
Dimethyl ether	ND		10		ug/L			07/08/25 12:00	1
Freon 113	ND		1.0		ug/L			07/08/25 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*80 - 120*		*07/08/25 12:00*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 120*		*07/08/25 12:00*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*07/08/25 12:00*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/08/25 12:00*	*1*

Lab Sample ID: LCS 410-668089/5
Matrix: Water
Analysis Batch: 668089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	5.00	4.93		ug/L		99	74 - 120
1,1-Dichloroethene	5.00	5.06		ug/L		101	80 - 131
1,1,1-Trichloroethane	5.00	4.90		ug/L		98	78 - 126
2-Butanone	62.5	68.2		ug/L		109	59 - 141
Benzene	5.00	4.76		ug/L		95	80 - 120
Carbon tetrachloride	5.00	5.02		ug/L		100	64 - 141
Chloroethane	5.00	4.99		ug/L		100	63 - 120
Chloromethane	5.00	4.79		ug/L		96	56 - 124
Dichlorodifluoromethane	5.00	5.11		ug/L		102	43 - 123
Ethyl ether	4.96	4.62	J	ug/L		93	54 - 127
Ethylbenzene	5.00	4.64		ug/L		93	80 - 120
Methylene Chloride	5.00	5.11		ug/L		102	80 - 120
Tetrachloroethene	5.00	4.65		ug/L		93	80 - 120
Tetrahydrofuran	25.0	26.0		ug/L		104	67 - 137

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-668089/5
Matrix: Water
Analysis Batch: 668089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toluene			5.00	4.70		ug/L		94	80 - 120		
Trichloroethene			5.00	4.70		ug/L		94	80 - 120		
Trichlorofluoromethane			5.00	5.00		ug/L		100	53 - 136		
Vinyl chloride			5.00	4.97		ug/L		99	60 - 125		
Xylenes, Total			15.0	14.2		ug/L		95	80 - 120		
Freon 113			5.00	4.46		ug/L		89	67 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCS 410-668089/6
Matrix: Water
Analysis Batch: 668089

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetonitrile			18.8	19.6		ug/L		105	51 - 160		
Vinyl acetate			12.5	11.7		ug/L		93	64 - 145		
Dimethyl ether			5.00	4.38	J	ug/L		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 410-229895-4 MS
Matrix: Water
Analysis Batch: 668089

Client Sample ID: 16WC1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		5.00	5.30		ug/L		102	80 - 120		
2-Butanone	ND		62.6	73.4		ug/L		117	59 - 141		
Carbon tetrachloride	ND		5.00	5.53		ug/L		111	64 - 141		
Chloroethane	1.2		5.00	6.43		ug/L		104	63 - 120		
Chloromethane	ND		5.00	5.40		ug/L		108	80 - 120		
Dichlorodifluoromethane	ND	F1	5.00	6.31	F1	ug/L		126	43 - 123		
1,1-Dichloroethane	2.0		5.00	7.15		ug/L		102	74 - 120		
1,1-Dichloroethene	ND		5.00	5.71		ug/L		112	80 - 131		
Ethylbenzene	ND		5.00	4.94		ug/L		99	80 - 120		
Ethyl ether	16		4.97	19.9		ug/L		70	54 - 127		
Methylene Chloride	ND		5.00	5.39		ug/L		108	80 - 120		
Tetrachloroethene	ND		5.00	5.16		ug/L		103	80 - 120		
Tetrahydrofuran	ND		25.0	30.7		ug/L		119	67 - 137		
Toluene	ND		5.00	5.09		ug/L		102	80 - 120		
1,1,1-Trichloroethane	ND		5.00	5.33		ug/L		106	78 - 126		

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-229895-4 MS
Matrix: Water
Analysis Batch: 668089

Client Sample ID: 16WC1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene	ND		5.00	5.16		ug/L		103	80 - 120
Trichlorofluoromethane	ND		5.00	5.81		ug/L		116	53 - 136
Vinyl chloride	ND		5.00	5.71		ug/L		112	60 - 125
Xylenes, Total	ND		15.0	15.1		ug/L		100	80 - 120
Freon 113	ND		5.00	5.55		ug/L		111	67 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 410-229895-4 MS
Matrix: Water
Analysis Batch: 668089

Client Sample ID: 16WC1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl ether	ND		4.65	ND		ug/L		120	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: 410-229895-4 MSD
Matrix: Water
Analysis Batch: 668089

Client Sample ID: 16WC1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		5.00	5.32		ug/L		103	80 - 120	0	30
2-Butanone	ND		62.6	67.3		ug/L		108	59 - 141	9	30
Carbon tetrachloride	ND		5.00	5.66		ug/L		113	64 - 141	2	30
Chloroethane	1.2		5.00	6.33		ug/L		102	63 - 120	2	30
Chloromethane	ND		5.00	5.33		ug/L		106	80 - 120	1	30
Dichlorodifluoromethane	ND	F1	5.00	6.29	F1	ug/L		126	43 - 123	0	30
1,1-Dichloroethane	2.0		5.00	7.20		ug/L		103	74 - 120	1	30
1,1-Dichloroethene	ND		5.00	5.89		ug/L		116	80 - 131	3	30
Ethylbenzene	ND		5.00	5.02		ug/L		100	80 - 120	2	30
Ethyl ether	16		4.97	19.2		ug/L		56	54 - 127	4	30
Methylene Chloride	ND		5.00	5.40		ug/L		108	80 - 120	0	30
Tetrachloroethene	ND		5.00	5.24		ug/L		105	80 - 120	2	30
Tetrahydrofuran	ND		25.0	27.1		ug/L		104	67 - 137	12	30
Toluene	ND		5.00	5.12		ug/L		102	80 - 120	1	30
1,1,1-Trichloroethane	ND		5.00	5.39		ug/L		108	78 - 126	1	30
Trichloroethene	ND		5.00	5.21		ug/L		104	80 - 120	1	30
Trichlorofluoromethane	ND		5.00	5.79		ug/L		116	53 - 136	0	30
Vinyl chloride	ND		5.00	5.70		ug/L		112	60 - 125	0	30

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-229895-4 MSD
Matrix: Water
Analysis Batch: 668089

Client Sample ID: 16WC1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Xylenes, Total	ND		15.0	15.1		ug/L		101	80 - 120	0	30
Freon 113	ND		5.00	5.80		ug/L		116	67 - 124	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 410-229895-4 MSD
Matrix: Water
Analysis Batch: 668089

Client Sample ID: 16WC1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethyl ether	ND		4.65	ND		ug/L		118	70 - 130	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 410-668678/10
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0		ug/L			07/09/25 12:38	1
1,1-Dichloroethene	ND		1.0		ug/L			07/09/25 12:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			07/09/25 12:38	1
2-Butanone	ND		10		ug/L			07/09/25 12:38	1
Benzene	ND		1.0		ug/L			07/09/25 12:38	1
Carbon tetrachloride	ND		1.0		ug/L			07/09/25 12:38	1
Chloroethane	ND		1.0		ug/L			07/09/25 12:38	1
Chloromethane	ND		1.0		ug/L			07/09/25 12:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			07/09/25 12:38	1
Ethyl ether	ND		10		ug/L			07/09/25 12:38	1
Ethylbenzene	ND		1.0		ug/L			07/09/25 12:38	1
Methylene Chloride	ND		1.0		ug/L			07/09/25 12:38	1
Tetrachloroethene	ND		1.0		ug/L			07/09/25 12:38	1
Tetrahydrofuran	ND		25		ug/L			07/09/25 12:38	1
Toluene	ND		1.0		ug/L			07/09/25 12:38	1
Trichloroethene	ND		1.0		ug/L			07/09/25 12:38	1
Trichlorofluoromethane	ND		1.0		ug/L			07/09/25 12:38	1
Vinyl chloride	ND		1.0		ug/L			07/09/25 12:38	1
Xylenes, Total	ND		3.0		ug/L			07/09/25 12:38	1
Dimethyl ether	ND		10		ug/L			07/09/25 12:38	1
Freon 113	ND		1.0		ug/L			07/09/25 12:38	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 410-668678/10
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		80 - 120		07/09/25 12:38	1
Dibromofluoromethane (Surr)	106		80 - 120		07/09/25 12:38	1
4-Bromofluorobenzene (Surr)	94		80 - 120		07/09/25 12:38	1
Toluene-d8 (Surr)	96		80 - 120		07/09/25 12:38	1

Lab Sample ID: LCS 410-668678/5
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	5.00	5.02		ug/L		100	74 - 120
1,1-Dichloroethene	5.00	5.09		ug/L		102	80 - 131
1,1,1-Trichloroethane	5.00	4.93		ug/L		99	78 - 126
2-Butanone	62.5	72.1		ug/L		115	59 - 141
Benzene	5.00	4.84		ug/L		97	80 - 120
Carbon tetrachloride	5.00	5.05		ug/L		101	64 - 141
Chloroethane	5.00	4.52		ug/L		90	63 - 120
Chloromethane	5.00	4.57		ug/L		91	56 - 124
Dichlorodifluoromethane	5.00	4.52		ug/L		90	43 - 123
Ethyl ether	4.96	4.66	J	ug/L		94	54 - 127
Ethylbenzene	5.00	4.76		ug/L		95	80 - 120
Methylene Chloride	5.00	5.14		ug/L		103	80 - 120
Tetrachloroethene	5.00	4.74		ug/L		95	80 - 120
Tetrahydrofuran	25.0	27.5		ug/L		110	67 - 137
Toluene	5.00	4.84		ug/L		97	80 - 120
Trichloroethene	5.00	4.75		ug/L		95	80 - 120
Trichlorofluoromethane	5.00	4.55		ug/L		91	53 - 136
Vinyl chloride	5.00	4.53		ug/L		91	60 - 125
Xylenes, Total	15.0	14.4		ug/L		96	80 - 120
Freon 113	5.00	4.70		ug/L		94	67 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCS 410-668678/7
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dimethyl ether	5.00	3.54	J	ug/L		71	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 410-668678/7
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 410-668678/6
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane			5.00	5.19		ug/L		104	74 - 120	3	30
1,1-Dichloroethene			5.00	5.25		ug/L		105	80 - 131	3	30
1,1,1-Trichloroethane			5.00	5.11		ug/L		102	78 - 126	4	30
2-Butanone			62.5	72.1		ug/L		115	59 - 141	0	30
Benzene			5.00	5.05		ug/L		101	80 - 120	4	30
Carbon tetrachloride			5.00	5.25		ug/L		105	64 - 141	4	30
Chloroethane			5.00	4.82		ug/L		96	63 - 120	6	30
Chloromethane			5.00	4.77		ug/L		95	56 - 124	4	30
Dichlorodifluoromethane			5.00	4.79		ug/L		96	43 - 123	6	30
Ethyl ether			4.96	4.88	J	ug/L		98	54 - 127	5	30
Ethylbenzene			5.00	4.92		ug/L		98	80 - 120	3	30
Methylene Chloride			5.00	5.37		ug/L		107	80 - 120	4	30
Tetrachloroethene			5.00	4.89		ug/L		98	80 - 120	3	30
Tetrahydrofuran			25.0	27.7		ug/L		111	67 - 137	1	30
Toluene			5.00	5.00		ug/L		100	80 - 120	3	30
Trichloroethene			5.00	4.92		ug/L		98	80 - 120	3	30
Trichlorofluoromethane			5.00	4.74		ug/L		95	53 - 136	4	30
Vinyl chloride			5.00	4.85		ug/L		97	60 - 125	7	30
Xylenes, Total			15.0	14.9		ug/L		100	80 - 120	4	30
Freon 113			5.00	4.79		ug/L		96	67 - 124	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 410-668678/8
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dimethyl ether			5.00	3.57	J	ug/L		71	70 - 130	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*80 - 120*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-229825-A-1 MSD
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		500	553		ug/L		111	74 - 120	6	30
1,1-Dichloroethene	ND		500	585		ug/L		117	80 - 131	7	30
1,1,1-Trichloroethane	ND		500	563		ug/L		113	78 - 126	5	30
2-Butanone	ND		6260	7340		ug/L		117	59 - 141	5	30
Benzene	ND		500	542		ug/L		108	80 - 120	5	30
Carbon tetrachloride	ND		500	588		ug/L		118	64 - 141	5	30
Chloroethane	ND		500	483		ug/L		97	63 - 120	6	30
Chloromethane	ND		500	459		ug/L		92	80 - 120	14	30
Dichlorodifluoromethane	ND		500	549		ug/L		110	43 - 123	7	30
Ethyl ether	ND		497	ND		ug/L		95	54 - 127	2	30
Ethylbenzene	ND		500	532		ug/L		106	80 - 120	5	30
Methylene Chloride	ND		500	559		ug/L		112	80 - 120	5	30
Tetrachloroethene	ND		500	535		ug/L		107	80 - 120	6	30
Tetrahydrofuran	ND		2500	2960		ug/L		118	67 - 137	2	30
Toluene	ND		500	548		ug/L		107	80 - 120	5	30
Trichloroethene	32000	E	500	31200	E 4	ug/L		-228	80 - 120	4	30
Trichlorofluoromethane	ND		500	514		ug/L		103	53 - 136	7	30
Vinyl chloride	ND		500	497		ug/L		99	60 - 125	8	30
Xylenes, Total	ND		1500	1600		ug/L		107	80 - 120	5	30
Freon 113	ND	F1	500	586		ug/L		117	67 - 124	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 410-229825-B-1 MS
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethane	ND		500	585		ug/L		117	74 - 120
1,1-Dichloroethene	ND		500	625		ug/L		125	80 - 131
1,1,1-Trichloroethane	ND		500	593		ug/L		119	78 - 126
2-Butanone	ND		6260	7740		ug/L		124	59 - 141
Benzene	ND		500	569		ug/L		114	80 - 120
Carbon tetrachloride	ND		500	619		ug/L		124	64 - 141
Chloroethane	ND		500	511		ug/L		102	63 - 120
Chloromethane	ND		500	530		ug/L		106	80 - 120
Dichlorodifluoromethane	ND		500	592		ug/L		118	43 - 123
Ethyl ether	ND		497	ND		ug/L		96	54 - 127
Ethylbenzene	ND		500	560		ug/L		112	80 - 120
Methylene Chloride	ND		500	589		ug/L		118	80 - 120
Tetrachloroethene	ND		500	571		ug/L		114	80 - 120
Tetrahydrofuran	ND		2500	3010		ug/L		120	67 - 137
Toluene	ND		500	576		ug/L		113	80 - 120
Trichloroethene	32000	E	500	32700	E 4	ug/L		56	80 - 120

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 410-229825-B-1 MS
Matrix: Water
Analysis Batch: 668678

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	ND		500	550		ug/L		110	53 - 136
Vinyl chloride	ND		500	538		ug/L		107	60 - 125
Xylenes, Total	ND		1500	1690		ug/L		113	80 - 120
Freon 113	ND	F1	500	625	F1	ug/L		125	67 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-666257/1-A
Matrix: Water
Analysis Batch: 666539

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666257

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 14:27	1
2,6-Dinitrotoluene	ND		10		ug/L		07/02/25 15:31	07/03/25 14:27	1
Diethyl phthalate	ND		5.0		ug/L		07/02/25 15:31	07/03/25 14:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*63*		*13 - 134*	*07/02/25 15:31*	*07/03/25 14:27*	*1*
2-Fluorobiphenyl (Surr)	*73*		*45 - 120*	*07/02/25 15:31*	*07/03/25 14:27*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*07/02/25 15:31*	*07/03/25 14:27*	*1*
Nitrobenzene-d5 (Surr)	*78*		*33 - 120*	*07/02/25 15:31*	*07/03/25 14:27*	*1*
p-Terphenyl-d14 (Surr)	*105*		*26 - 123*	*07/02/25 15:31*	*07/03/25 14:27*	*1*
Phenol-d5 (Surr)	*35*		*10 - 120*	*07/02/25 15:31*	*07/03/25 14:27*	*1*

Lab Sample ID: LCS 410-666257/2-A
Matrix: Water
Analysis Batch: 666539

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666257

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	50.0	46.8		ug/L		94	54 - 143
2,6-Dinitrotoluene	50.0	43.0		ug/L		86	53 - 139
Diethyl phthalate	50.0	40.8		ug/L		82	45 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*13 - 134*
2-Fluorobiphenyl (Surr)	*63*		*45 - 120*
2-Fluorophenol (Surr)	*52*		*10 - 120*
Nitrobenzene-d5 (Surr)	*74*		*33 - 120*
p-Terphenyl-d14 (Surr)	*95*		*26 - 123*
Phenol-d5 (Surr)	*37*		*10 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 410-666257/3-A
Matrix: Water
Analysis Batch: 666539

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 666257

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrotoluene			50.0	48.4		ug/L		97	54 - 143	3	30
2,6-Dinitrotoluene			50.0	43.1		ug/L		86	53 - 139	0	30
Diethyl phthalate			50.0	42.8		ug/L		86	45 - 130	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*13 - 134*
2-Fluorobiphenyl (Surr)	*64*		*45 - 120*
2-Fluorophenol (Surr)	*51*		*10 - 120*
Nitrobenzene-d5 (Surr)	*69*		*33 - 120*
p-Terphenyl-d14 (Surr)	*92*		*26 - 123*
Phenol-d5 (Surr)	*38*		*10 - 120*

Lab Sample ID: MB 410-666606/1-A
Matrix: Water
Analysis Batch: 668774

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 666606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 11:15	1
2,6-Dinitrotoluene	ND		10		ug/L		07/03/25 08:30	07/09/25 11:15	1
Diethyl phthalate	ND		5.0		ug/L		07/03/25 08:30	07/09/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*13 - 134*	*07/03/25 08:30*	*07/09/25 11:15*	*1*
2-Fluorobiphenyl (Surr)	*80*		*45 - 120*	*07/03/25 08:30*	*07/09/25 11:15*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*07/03/25 08:30*	*07/09/25 11:15*	*1*
Nitrobenzene-d5 (Surr)	*81*		*33 - 120*	*07/03/25 08:30*	*07/09/25 11:15*	*1*
p-Terphenyl-d14 (Surr)	*94*		*26 - 123*	*07/03/25 08:30*	*07/09/25 11:15*	*1*
Phenol-d5 (Surr)	*40*		*10 - 120*	*07/03/25 08:30*	*07/09/25 11:15*	*1*

Lab Sample ID: LCS 410-666606/2-A
Matrix: Water
Analysis Batch: 668774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 666606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene			50.0	49.1		ug/L		98	54 - 143
2,6-Dinitrotoluene			50.0	43.9		ug/L		88	53 - 139
Diethyl phthalate			50.0	32.8		ug/L		66	45 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*13 - 134*
2-Fluorobiphenyl (Surr)	*66*		*45 - 120*
2-Fluorophenol (Surr)	*50*		*10 - 120*
Nitrobenzene-d5 (Surr)	*60*		*33 - 120*
p-Terphenyl-d14 (Surr)	*102*		*26 - 123*
Phenol-d5 (Surr)	*39*		*10 - 120*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 410-229895-4 MS
Matrix: Water
Analysis Batch: 668774

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 666606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	ND		51.0	51.0		ug/L		100	54 - 143
2,6-Dinitrotoluene	ND		51.0	47.7		ug/L		94	53 - 139
Diethyl phthalate	ND		51.0	43.4		ug/L		85	45 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*17*		*13 - 134*
2-Fluorobiphenyl (Surr)	*71*		*45 - 120*
2-Fluorophenol (Surr)	*25*		*10 - 120*
Nitrobenzene-d5 (Surr)	*76*		*33 - 120*
p-Terphenyl-d14 (Surr)	*101*		*26 - 123*
Phenol-d5 (Surr)	*17*		*10 - 120*

Lab Sample ID: 410-229895-4 MSD
Matrix: Water
Analysis Batch: 668774

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 666606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-Dinitrotoluene	ND		50.6	53.7		ug/L		106	54 - 143	5	30
2,6-Dinitrotoluene	ND		50.6	49.9		ug/L		99	53 - 139	5	30
Diethyl phthalate	ND		50.6	47.0		ug/L		93	45 - 130	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*26*		*13 - 134*
2-Fluorobiphenyl (Surr)	*77*		*45 - 120*
2-Fluorophenol (Surr)	*27*		*10 - 120*
Nitrobenzene-d5 (Surr)	*82*		*33 - 120*
p-Terphenyl-d14 (Surr)	*102*		*26 - 123*
Phenol-d5 (Surr)	*23*		*10 - 120*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 410-665887/1-A
Matrix: Water
Analysis Batch: 669799

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 665887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10		ug/L		07/04/25 21:00	07/10/25 17:25	1
Barium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:25	1
Beryllium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Cadmium	ND		1.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Chromium	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Cobalt	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Copper	ND		5.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Lead	ND		3.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Nickel	ND		10		ug/L		07/04/25 21:00	07/10/25 17:25	1
Silver	ND		2.0		ug/L		07/04/25 21:00	07/10/25 17:25	1
Vanadium	ND		10		ug/L		07/04/25 21:00	07/10/25 17:25	1
Zinc	ND		30		ug/L		07/04/25 21:00	07/10/25 17:25	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 410-665887/2-A
Matrix: Water
Analysis Batch: 669799

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 665887

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			500	508		ug/L		102	86 - 111		
Barium			500	523		ug/L		105	86 - 114		
Beryllium			50.0	52.2		ug/L		104	80 - 120		
Cadmium			50.0	53.4		ug/L		107	86 - 114		
Chromium			500	530		ug/L		106	84 - 113		
Cobalt			500	528		ug/L		106	85 - 112		
Copper			500	514		ug/L		103	86 - 111		
Lead			50.0	52.0		ug/L		104	86 - 114		
Nickel			500	525		ug/L		105	85 - 113		
Silver			50.0	52.1		ug/L		104	88 - 116		
Vanadium			500	524		ug/L		105	84 - 112		
Zinc			500	520		ug/L		104	86 - 112		

Lab Sample ID: 410-229895-4 MS
Matrix: Water
Analysis Batch: 669799

Client Sample ID: 16WC1A
Prep Type: Total Recoverable
Prep Batch: 665887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	ND		500	513		ug/L		102	75 - 125		
Barium	360		500	876		ug/L		103	75 - 125		
Beryllium	ND		50.0	51.1		ug/L		102	75 - 125		
Cadmium	ND		50.0	52.7		ug/L		105	75 - 125		
Chromium	ND		500	522		ug/L		104	75 - 125		
Cobalt	12		500	520		ug/L		102	80 - 125		
Copper	ND		500	500		ug/L		100	75 - 125		
Lead	ND		50.0	51.6		ug/L		103	75 - 125		
Nickel	10		500	516		ug/L		101	75 - 125		
Silver	ND		50.0	52.4		ug/L		105	75 - 125		
Vanadium	ND		500	522		ug/L		104	75 - 125		
Zinc	ND		500	509		ug/L		102	75 - 125		

Lab Sample ID: 410-229895-4 MSD
Matrix: Water
Analysis Batch: 669799

Client Sample ID: 16WC1A
Prep Type: Total Recoverable
Prep Batch: 665887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	ND		500	521		ug/L		103	75 - 125	1	20
Barium	360		500	897		ug/L		108	75 - 125	2	20
Beryllium	ND		50.0	51.5		ug/L		103	75 - 125	1	20
Cadmium	ND		50.0	53.8		ug/L		108	75 - 125	2	20
Chromium	ND		500	540		ug/L		108	75 - 125	3	20
Cobalt	12		500	531		ug/L		104	80 - 125	2	20
Copper	ND		500	509		ug/L		102	75 - 125	2	20
Lead	ND		50.0	52.2		ug/L		104	75 - 125	1	20
Nickel	10		500	530		ug/L		104	75 - 125	3	20
Silver	ND		50.0	53.0		ug/L		106	75 - 125	1	20
Vanadium	ND		500	538		ug/L		108	75 - 125	3	20
Zinc	ND		500	521		ug/L		104	75 - 125	2	20

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 410-229895-4 DU
Matrix: Water
Analysis Batch: 669799

Client Sample ID: 16WC1A
Prep Type: Total Recoverable
Prep Batch: 665887

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Arsenic	ND			ND		ug/L				NC	20
Barium	360			361		ug/L				0.2	20
Beryllium	ND			ND		ug/L				NC	20
Cadmium	ND			ND		ug/L				NC	20
Chromium	ND			ND		ug/L				NC	20
Cobalt	12			11.4		ug/L				3	20
Copper	ND			ND		ug/L				NC	20
Lead	ND			ND		ug/L				NC	20
Nickel	10			ND		ug/L				NC	20
Silver	ND			ND		ug/L				NC	20
Vanadium	ND			ND		ug/L				NC	20
Zinc	ND			ND		ug/L				NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 410-668919/1-A
Matrix: Water
Analysis Batch: 671166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 668919

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		2.0		ug/L		07/11/25 07:15	07/14/25 19:32	1

Lab Sample ID: LCS 410-668919/2-A
Matrix: Water
Analysis Batch: 671166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 668919

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			1.00	1.11	J	ug/L		111	80 - 120		

Lab Sample ID: 410-229895-4 MS
Matrix: Water
Analysis Batch: 671166

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 668919

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		1.00	ND		ug/L		104	80 - 120		

Lab Sample ID: 410-229895-4 MSD
Matrix: Water
Analysis Batch: 671166

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 668919

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		1.00	ND		ug/L		106	80 - 120	2	20

Lab Sample ID: 410-229895-4 DU
Matrix: Water
Analysis Batch: 671166

Client Sample ID: 16WC1A
Prep Type: Total/NA
Prep Batch: 668919

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	ND			ND		ug/L				NC	20

GC/MS VOA

Analysis Batch: 668089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total/NA	Water	8260D	
410-229895-2	16MW8	Total/NA	Water	8260D	
410-229895-3	16MW9	Total/NA	Water	8260D	
410-229895-4	16WC1A	Total/NA	Water	8260D	
410-229895-5	16WDUP	Total/NA	Water	8260D	
410-229895-6	16WC1B	Total/NA	Water	8260D	
410-229895-7	16-2	Total/NA	Water	8260D	
410-229895-9	16-5	Total/NA	Water	8260D	
410-229895-10	16WC2B	Total/NA	Water	8260D	
410-229895-11	16SPRING	Total/NA	Water	8260D	
410-229895-12	Trip Blank 1	Total/NA	Water	8260D	
410-229895-13	Trip Blank 2	Total/NA	Water	8260D	
MB 410-668089/8	Method Blank	Total/NA	Water	8260D	
LCS 410-668089/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-668089/6	Lab Control Sample	Total/NA	Water	8260D	
410-229895-4 MS	16WC1A	Total/NA	Water	8260D	
410-229895-4 MS	16WC1A	Total/NA	Water	8260D	
410-229895-4 MSD	16WC1A	Total/NA	Water	8260D	
410-229895-4 MSD	16WC1A	Total/NA	Water	8260D	

Analysis Batch: 668678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1 - DL	16C1	Total/NA	Water	8260D	
410-229895-3 - DL	16MW9	Total/NA	Water	8260D	
410-229895-6 - RA	16WC1B	Total/NA	Water	8260D	
410-229895-7 - RA	16-2	Total/NA	Water	8260D	
410-229895-8	16-3	Total/NA	Water	8260D	
MB 410-668678/10	Method Blank	Total/NA	Water	8260D	
LCS 410-668678/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 410-668678/7	Lab Control Sample	Total/NA	Water	8260D	
LCSD 410-668678/6	Lab Control Sample Dup	Total/NA	Water	8260D	
LCSD 410-668678/8	Lab Control Sample Dup	Total/NA	Water	8260D	
410-229825-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
410-229825-B-1 MS	Matrix Spike	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 666257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-2	16MW8	Total/NA	Water	3510C	
410-229895-7	16-2	Total/NA	Water	3510C	
410-229895-8	16-3	Total/NA	Water	3510C	
410-229895-9	16-5	Total/NA	Water	3510C	
410-229895-10	16WC2B	Total/NA	Water	3510C	
410-229895-11	16SPRING	Total/NA	Water	3510C	
MB 410-666257/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-666257/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-666257/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC/MS Semi VOA

Analysis Batch: 666539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-2	16MW8	Total/NA	Water	8270E	666257
410-229895-7	16-2	Total/NA	Water	8270E	666257
410-229895-8	16-3	Total/NA	Water	8270E	666257
MB 410-666257/1-A	Method Blank	Total/NA	Water	8270E	666257
LCS 410-666257/2-A	Lab Control Sample	Total/NA	Water	8270E	666257
LCSD 410-666257/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	666257

Prep Batch: 666606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total/NA	Water	3510C	
410-229895-3	16MW9	Total/NA	Water	3510C	
410-229895-4	16WC1A	Total/NA	Water	3510C	
410-229895-5	16WDUP	Total/NA	Water	3510C	
410-229895-6	16WC1B	Total/NA	Water	3510C	
MB 410-666606/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-666606/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-229895-4 MS	16WC1A	Total/NA	Water	3510C	
410-229895-4 MSD	16WC1A	Total/NA	Water	3510C	

Analysis Batch: 668512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-9	16-5	Total/NA	Water	8270E	666257
410-229895-10	16WC2B	Total/NA	Water	8270E	666257
410-229895-11	16SPRING	Total/NA	Water	8270E	666257

Analysis Batch: 668774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total/NA	Water	8270E	666606
410-229895-3	16MW9	Total/NA	Water	8270E	666606
410-229895-4	16WC1A	Total/NA	Water	8270E	666606
410-229895-5	16WDUP	Total/NA	Water	8270E	666606
410-229895-6	16WC1B	Total/NA	Water	8270E	666606
MB 410-666606/1-A	Method Blank	Total/NA	Water	8270E	666606
LCS 410-666606/2-A	Lab Control Sample	Total/NA	Water	8270E	666606
410-229895-4 MS	16WC1A	Total/NA	Water	8270E	666606
410-229895-4 MSD	16WC1A	Total/NA	Water	8270E	666606

Metals

Prep Batch: 665887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total Recoverable	Water	3005A	
410-229895-2	16MW8	Total Recoverable	Water	3005A	
410-229895-3	16MW9	Total Recoverable	Water	3005A	
410-229895-4	16WC1A	Total Recoverable	Water	3005A	
410-229895-5	16WDUP	Total Recoverable	Water	3005A	
410-229895-6	16WC1B	Total Recoverable	Water	3005A	
410-229895-7	16-2	Total Recoverable	Water	3005A	
410-229895-8	16-3	Total Recoverable	Water	3005A	
410-229895-9	16-5	Total Recoverable	Water	3005A	
410-229895-10	16WC2B	Total Recoverable	Water	3005A	

Metals (Continued)

Prep Batch: 665887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-11	16SPRING	Total Recoverable	Water	3005A	
MB 410-665887/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 410-665887/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
410-229895-4 MS	16WC1A	Total Recoverable	Water	3005A	
410-229895-4 MSD	16WC1A	Total Recoverable	Water	3005A	
410-229895-4 DU	16WC1A	Total Recoverable	Water	3005A	

Prep Batch: 668919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total/NA	Water	7470A	
410-229895-2	16MW8	Total/NA	Water	7470A	
410-229895-3	16MW9	Total/NA	Water	7470A	
410-229895-4	16WC1A	Total/NA	Water	7470A	
410-229895-5	16WDUP	Total/NA	Water	7470A	
410-229895-6	16WC1B	Total/NA	Water	7470A	
410-229895-7	16-2	Total/NA	Water	7470A	
410-229895-8	16-3	Total/NA	Water	7470A	
410-229895-9	16-5	Total/NA	Water	7470A	
410-229895-10	16WC2B	Total/NA	Water	7470A	
410-229895-11	16SPRING	Total/NA	Water	7470A	
MB 410-668919/1-A	Method Blank	Total/NA	Water	7470A	
LCS 410-668919/2-A	Lab Control Sample	Total/NA	Water	7470A	
410-229895-4 MS	16WC1A	Total/NA	Water	7470A	
410-229895-4 MSD	16WC1A	Total/NA	Water	7470A	
410-229895-4 DU	16WC1A	Total/NA	Water	7470A	

Analysis Batch: 669799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total Recoverable	Water	6020B	665887
410-229895-2	16MW8	Total Recoverable	Water	6020B	665887
410-229895-3	16MW9	Total Recoverable	Water	6020B	665887
410-229895-4	16WC1A	Total Recoverable	Water	6020B	665887
410-229895-5	16WDUP	Total Recoverable	Water	6020B	665887
410-229895-6	16WC1B	Total Recoverable	Water	6020B	665887
410-229895-7	16-2	Total Recoverable	Water	6020B	665887
410-229895-8	16-3	Total Recoverable	Water	6020B	665887
410-229895-9	16-5	Total Recoverable	Water	6020B	665887
410-229895-10	16WC2B	Total Recoverable	Water	6020B	665887
410-229895-11	16SPRING	Total Recoverable	Water	6020B	665887
MB 410-665887/1-A	Method Blank	Total Recoverable	Water	6020B	665887
LCS 410-665887/2-A	Lab Control Sample	Total Recoverable	Water	6020B	665887
410-229895-4 MS	16WC1A	Total Recoverable	Water	6020B	665887
410-229895-4 MSD	16WC1A	Total Recoverable	Water	6020B	665887
410-229895-4 DU	16WC1A	Total Recoverable	Water	6020B	665887

Analysis Batch: 671166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-1	16C1	Total/NA	Water	7470A	668919
410-229895-2	16MW8	Total/NA	Water	7470A	668919
410-229895-3	16MW9	Total/NA	Water	7470A	668919
410-229895-4	16WC1A	Total/NA	Water	7470A	668919

Metals (Continued)

Analysis Batch: 671166 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-229895-5	16WDUP	Total/NA	Water	7470A	668919
410-229895-6	16WC1B	Total/NA	Water	7470A	668919
410-229895-7	16-2	Total/NA	Water	7470A	668919
410-229895-8	16-3	Total/NA	Water	7470A	668919
410-229895-9	16-5	Total/NA	Water	7470A	668919
410-229895-10	16WC2B	Total/NA	Water	7470A	668919
410-229895-11	16SPRING	Total/NA	Water	7470A	668919
MB 410-668919/1-A	Method Blank	Total/NA	Water	7470A	668919
LCS 410-668919/2-A	Lab Control Sample	Total/NA	Water	7470A	668919
410-229895-4 MS	16WC1A	Total/NA	Water	7470A	668919
410-229895-4 MSD	16WC1A	Total/NA	Water	7470A	668919
410-229895-4 DU	16WC1A	Total/NA	Water	7470A	668919

Client Sample ID: 16C1

Lab Sample ID: 410-229895-1

Date Collected: 06/26/25 12:15

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 14:36
Total/NA	Analysis	8260D	DL	10	668678	N7YK	ELLE	07/09/25 16:21
Total/NA	Prep	3510C			666606	XU9L	ELLE	07/03/25 08:30
Total/NA	Analysis	8270E		1	668774	W6ZA	ELLE	07/09/25 19:13
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:56
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:11

Client Sample ID: 16MW8

Lab Sample ID: 410-229895-2

Date Collected: 06/25/25 12:05

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 14:59
Total/NA	Prep	3510C			666257	L2FU	ELLE	07/02/25 15:31
Total/NA	Analysis	8270E		1	666539	W6ZA	ELLE	07/03/25 22:40
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:54
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:24

Client Sample ID: 16MW9

Lab Sample ID: 410-229895-3

Date Collected: 06/26/25 11:00

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 15:21
Total/NA	Analysis	8260D	DL	10	668678	N7YK	ELLE	07/09/25 16:43
Total/NA	Prep	3510C			666606	XU9L	ELLE	07/03/25 08:30
Total/NA	Analysis	8270E		1	668774	W6ZA	ELLE	07/09/25 19:34
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:58
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:09

Client Sample ID: 16WC1A

Lab Sample ID: 410-229895-4

Date Collected: 06/26/25 09:45

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 15:43
Total/NA	Prep	3510C			666606	XU9L	ELLE	07/03/25 08:30
Total/NA	Analysis	8270E		1	668774	W6ZA	ELLE	07/09/25 14:34

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4
Date Collected: 06/26/25 09:45
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:30
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 19:35

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5
Date Collected: 06/26/25 09:00
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 17:35
Total/NA	Prep	3510C			666606	XU9L	ELLE	07/03/25 08:30
Total/NA	Analysis	8270E		1	668774	W6ZA	ELLE	07/09/25 19:56
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 18:03
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:19

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6
Date Collected: 06/26/25 11:20
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 17:57
Total/NA	Analysis	8260D	RA	1	668678	N7YK	ELLE	07/09/25 15:14
Total/NA	Prep	3510C			666606	XU9L	ELLE	07/03/25 08:30
Total/NA	Analysis	8270E		1	668774	W6ZA	ELLE	07/09/25 20:17
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:52
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:17

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7
Date Collected: 06/25/25 11:15
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 18:19
Total/NA	Analysis	8260D	RA	1	668678	N7YK	ELLE	07/09/25 15:36
Total/NA	Prep	3510C			666257	L2FU	ELLE	07/02/25 15:31
Total/NA	Analysis	8270E		1	666539	W6ZA	ELLE	07/03/25 23:01
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 18:05
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:05

Client Sample ID: 16-3

Lab Sample ID: 410-229895-8

Date Collected: 06/25/25 13:00

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668678	N7YK	ELLE	07/09/25 15:59
Total/NA	Prep	3510C			666257	L2FU	ELLE	07/02/25 15:31
Total/NA	Analysis	8270E		1	666539	W6ZA	ELLE	07/03/25 23:23
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:38
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:02

Client Sample ID: 16-5

Lab Sample ID: 410-229895-9

Date Collected: 06/25/25 09:15

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 19:04
Total/NA	Prep	3510C			666257	L2FU	ELLE	07/02/25 15:31
Total/NA	Analysis	8270E		1	668512	SJ89	ELLE	07/09/25 03:30
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 18:00
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:07

Client Sample ID: 16WC2B

Lab Sample ID: 410-229895-10

Date Collected: 06/25/25 10:20

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 19:26
Total/NA	Prep	3510C			666257	L2FU	ELLE	07/02/25 15:31
Total/NA	Analysis	8270E		1	668512	SJ89	ELLE	07/09/25 03:51
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 17:41
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:04

Client Sample ID: 16SPRING

Lab Sample ID: 410-229895-11

Date Collected: 06/25/25 09:25

Matrix: Water

Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 19:48
Total/NA	Prep	3510C			666257	L2FU	ELLE	07/02/25 15:31
Total/NA	Analysis	8270E		1	668512	SJ89	ELLE	07/09/25 04:12
Total Recoverable	Prep	3005A			665887	UAMX	ELLE	07/04/25 21:00
Total Recoverable	Analysis	6020B		1	669799	LHF4	ELLE	07/10/25 18:07

Lab Chronicle

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11
Date Collected: 06/25/25 09:25
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			668919	X3ZX	ELLE	07/11/25 07:15
Total/NA	Analysis	7470A		1	671166	HNC4	ELLE	07/14/25 20:21

Client Sample ID: Trip Blank 1
Lab Sample ID: 410-229895-12
Date Collected: 06/26/25 00:00
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 12:23

Client Sample ID: Trip Blank 2
Lab Sample ID: 410-229895-13
Date Collected: 06/25/25 00:00
Matrix: Water
Date Received: 06/27/25 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	668089	N7YK	ELLE	07/08/25 12:45

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Virginia	NELAP	460182	06-14-26

Method Summary

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	ELLE
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	ELLE
7470A	Mercury (CVAA)	SW846	ELLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE
5030C	Purge and Trap	SW846	ELLE
7470A	Preparation, Mercury	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-229895-1	16C1	Water	06/26/25 12:15	06/27/25 09:35
410-229895-2	16MW8	Water	06/25/25 12:05	06/27/25 09:35
410-229895-3	16MW9	Water	06/26/25 11:00	06/27/25 09:35
410-229895-4	16WC1A	Water	06/26/25 09:45	06/27/25 09:35
410-229895-5	16WDUP	Water	06/26/25 09:00	06/27/25 09:35
410-229895-6	16WC1B	Water	06/26/25 11:20	06/27/25 09:35
410-229895-7	16-2	Water	06/25/25 11:15	06/27/25 09:35
410-229895-8	16-3	Water	06/25/25 13:00	06/27/25 09:35
410-229895-9	16-5	Water	06/25/25 09:15	06/27/25 09:35
410-229895-10	16WC2B	Water	06/25/25 10:20	06/27/25 09:35
410-229895-11	16SPRING	Water	06/25/25 09:25	06/27/25 09:35
410-229895-12	Trip Blank 1	Water	06/26/25 00:00	06/27/25 09:35
410-229895-13	Trip Blank 2	Water	06/25/25 00:00	06/27/25 09:35

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/12 Client Sample ID:

Date Analyzed: 03/11/21 19:26 Lab File ID: CM11X12.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:19
1,4-Dioxane	8.44	Incomplete Integration	knouses	03/23/21 12:07

Lab Sample ID: ICIS 410-102081/13 Client Sample ID:

Date Analyzed: 03/11/21 19:49 Lab File ID: CM11X13.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.42	Incomplete Integration	spositok	03/23/21 16:34
Methyl acetate	3.81	Incomplete Integration	spositok	03/23/21 16:37

Lab Sample ID: IC 410-102081/14 Client Sample ID:

Date Analyzed: 03/11/21 20:11 Lab File ID: CM11X14.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone	3.42	Incomplete Integration	knouses	03/12/21 09:09
Methyl acetate	3.81	Baseline	knouses	03/12/21 09:10
t-Butyl alcohol	4.14	Incomplete Integration	knouses	03/12/21 09:10
Isobutyl alcohol	7.02	Incomplete Integration	knouses	03/12/21 09:11
1,2-Dichloroethane	7.18	Incomplete Integration	knouses	03/12/21 09:11
n-Heptane	7.53	Baseline	knouses	03/12/21 09:12
1,4-Dioxane	8.45	Incomplete Integration	knouses	03/23/21 12:01

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/15 Client Sample ID:

Date Analyzed: 03/11/21 20:33 Lab File ID: CM11X15.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.07	Incomplete Integration	knouses	03/12/21 09:15
Trichlorofluoromethane	2.86	Incomplete Integration	knouses	03/12/21 09:15
Acetone	3.42	Incomplete Integration	knouses	03/12/21 09:16
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:22
Isobutyl alcohol	7.03	Incomplete Integration	knouses	03/12/21 09:18
1,2-Dichloroethane	7.17	Incomplete Integration	knouses	03/12/21 09:18
n-Butanol	7.93	Incomplete Integration	knouses	03/12/21 09:19
1,4-Dioxane	8.48	Incomplete Integration	knouses	03/23/21 12:00

Lab Sample ID: IC 410-102081/16 Client Sample ID:

Date Analyzed: 03/11/21 20:55 Lab File ID: CM11X16.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chloromethane	2.09	Incomplete Integration	knouses	03/12/21 09:21
1,3-Butadiene	2.19	Baseline	knouses	03/12/21 09:21
Acetone	3.43	Incomplete Integration	knouses	03/12/21 09:22
Methyl acetate	3.84	Baseline	knouses	03/23/21 12:23
1,2-Dichloroethane	7.18	Incomplete Integration	knouses	03/12/21 09:24
1,4-Dioxane	8.46	Incomplete Integration	knouses	03/12/21 09:25
2-Nitropropane	8.98	Incomplete Integration	knouses	03/12/21 09:26

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/17 Client Sample ID:

Date Analyzed: 03/11/21 21:18 Lab File ID: CM11X17.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.18	Baseline	knouses	03/12/21 12:10
Vinyl chloride	2.18	Incomplete Integration	knouses	03/12/21 12:12
Bromomethane	2.50	Incomplete Integration	knouses	03/12/21 12:12
Acetone	3.42	Incomplete Integration	knouses	03/12/21 09:35
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:25
2-Butanone	5.89	Incomplete Integration	knouses	03/12/21 09:38
Methacrylonitrile	6.20	Missed Peak	knouses	03/12/21 09:39
1,4-Dioxane	8.44	Incomplete Integration	knouses	03/12/21 09:40
2-Hexanone	10.36	Incomplete Integration	knouses	03/12/21 09:46
1,2-Dibromoethane	10.62	Incomplete Integration	knouses	03/12/21 09:46
1,2-Dibromo-3-Chloropropane	13.81	Incomplete Integration	knouses	03/12/21 09:46

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/18 Client Sample ID:

Date Analyzed: 03/11/21 21:40 Lab File ID: CM11X18.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.18	Incomplete Integration	knouses	03/12/21 10:46
Acetone	3.42	Incomplete Integration	knouses	03/12/21 11:47
Ethyl bromide	3.59	Incomplete Integration	knouses	03/12/21 11:49
Allyl chloride	3.82	Incomplete Integration	knouses	03/12/21 11:52
Methyl acetate	3.82	Baseline	knouses	03/23/21 12:27
Methylene Chloride	4.01	Incomplete Integration	knouses	03/12/21 10:48
t-Butyl alcohol	4.14	Incomplete Integration	knouses	03/12/21 10:48
Ethyl t-butyl ether	5.67	Incomplete Integration	knouses	03/12/21 11:53
2-Butanone	5.90	Incomplete Integration	knouses	03/12/21 11:53
2,2-Dichloropropane	5.93	Missed Peak	knouses	03/12/21 10:49
Propionitrile	6.01	Incomplete Integration	knouses	03/12/21 11:54
Methacrylonitrile	6.21	Incomplete Integration	knouses	03/12/21 10:50
Tetrahydrofuran	6.28	Missed Peak	knouses	03/12/21 10:50
Isobutyl alcohol	7.04	Incomplete Integration	knouses	03/12/21 10:51
1,2-Dichloroethane	7.18	Incomplete Integration	knouses	03/12/21 12:00
t-Amyl methyl ether	7.31	Incomplete Integration	knouses	03/12/21 12:01
n-Heptane	7.52	Incomplete Integration	knouses	03/12/21 12:02
n-Butanol	7.95	Incomplete Integration	knouses	03/12/21 12:02
1,4-Dioxane	8.45	Incomplete Integration	knouses	03/12/21 10:52
Methyl methacrylate	8.46	Incomplete Integration	knouses	03/12/21 12:03
2-Nitropropane	8.98	Incomplete Integration	knouses	03/12/21 10:52
cis-1,3-Dichloropropene	9.26	Incomplete Integration	knouses	03/12/21 12:03
trans-1,3-Dichloropropene	9.92	Incomplete Integration	knouses	03/12/21 10:52
Ethyl methacrylate	9.99	Incomplete Integration	knouses	03/12/21 10:53
1,1,2-Trichloroethane	10.13	Incomplete Integration	knouses	03/12/21 12:03
1,3-Dichloropropane	10.29	Incomplete Integration	knouses	03/12/21 12:04
2-Hexanone	10.37	Incomplete Integration	knouses	03/12/21 12:06
Styrene	11.65	Incomplete Integration	knouses	03/12/21 12:07
tert-Butylbenzene	12.65	Incomplete Integration	knouses	03/12/21 10:53

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 102081

Lab Sample ID: IC 410-102081/18 Client Sample ID:

Date Analyzed: 03/11/21 21:40 Lab File ID: CM11X18.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butylbenzene	13.23	Incomplete Integration	knouses	03/12/21 10:54
1,3,5-Trichlorobenzene	13.94	Incomplete Integration	knouses	03/12/21 12:08
1,2,4-Trichlorobenzene	14.37	Incomplete Integration	knouses	03/12/21 12:08
Naphthalene	14.55	Incomplete Integration	knouses	03/12/21 10:54
1,2,3-Trichlorobenzene	14.69	Incomplete Integration	knouses	03/12/21 12:08

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 114096

Lab Sample ID: ICV 410-114096/10 Client Sample ID:

Date Analyzed: 04/13/21 23:36 Lab File ID: CA13V01.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorodifluoromethane	1.90	Incomplete Integration	campbellme	04/14/21 00:04
Dimethyl ether	1.96	Incomplete Integration	campbellme	04/14/21 00:05
Acetonitrile	3.78	Incomplete Integration	campbellme	04/14/21 00:05
Cyclohexanone	12.02	Incomplete Integration	campbellme	04/14/21 00:05

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 652703

Lab Sample ID: IC 410-652703/3 Client Sample ID:

Date Analyzed: 06/04/25 17:23 Lab File ID: CU04X02.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dimethyl ether	1.80	Incomplete Integration	DVW2	06/05/25 11:04
Acetonitrile	3.41	Incomplete Integration	DVW2	06/05/25 11:04

Lab Sample ID: IC 410-652703/4 Client Sample ID:

Date Analyzed: 06/04/25 17:46 Lab File ID: CU04X03.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.50	Peak assignment corrected	DVW2	06/05/25 11:04

Lab Sample ID: IC 410-652703/5 Client Sample ID:

Date Analyzed: 06/04/25 18:08 Lab File ID: CU04X04.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dimethyl ether	1.81	Other	UKEK	06/06/25 08:38

Lab Sample ID: IC 410-652703/6 Client Sample ID:

Date Analyzed: 06/04/25 18:30 Lab File ID: CU04X05.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.46	Incomplete Integration	DVW2	06/05/25 11:03

Lab Sample ID: IC 410-652703/7 Client Sample ID:

Date Analyzed: 06/04/25 18:53 Lab File ID: CU04X06.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.45	Incomplete Integration	DVW2	06/05/25 11:03

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 652703

Lab Sample ID: IC 410-652703/8 Client Sample ID:

Date Analyzed: 06/04/25 19:15 Lab File ID: CU04X07.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.45	Incomplete Integration	DVW2	06/05/25 11:02

Lab Sample ID: IC 410-652703/9 Client Sample ID:

Date Analyzed: 06/04/25 19:37 Lab File ID: CU04X08.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	3.48	Incomplete Integration	DVW2	06/05/25 11:02

Lab Sample ID: IC 410-652703/13 Client Sample ID:

Date Analyzed: 06/04/25 21:06 Lab File ID: CU04X12.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.02	Incomplete Integration	DVW2	06/05/25 10:54
Bromomethane	2.35	Incomplete Integration	DVW2	06/05/25 10:54
Dichlorofluoromethane	2.57	Incomplete Integration	DVW2	06/05/25 10:55
Trichlorofluoromethane	2.68	Incomplete Integration	DVW2	06/05/25 10:55
Methyl iodide	3.26	Incomplete Integration	DVW2	06/05/25 10:55
Carbon disulfide	3.35	Other	UKEK	06/06/25 08:15
Methyl acetate	3.46	Incomplete Integration	DVW2	06/05/25 10:56
Allyl chloride	3.49	Peak assignment corrected	DVW2	06/05/25 10:56
t-Butyl alcohol	3.75	Incomplete Integration	DVW2	06/05/25 11:13
Tetrahydrofuran	5.87	Incomplete Integration	DVW2	06/05/25 10:57
t-Amyl methyl ether	6.92	Incomplete Integration	DVW2	06/05/25 10:57
n-Butanol	7.63	Incomplete Integration	DVW2	06/05/25 10:57
1,4-Dioxane	8.09	Incomplete Integration	DVW2	06/05/25 10:57

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 652703

Lab Sample ID: IC 410-652703/14 Client Sample ID:

Date Analyzed: 06/04/25 21:28 Lab File ID: CU04X13.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.03	Incomplete Integration	DVW2	06/05/25 10:52
Bromomethane	2.35	Incomplete Integration	DVW2	06/05/25 10:52
Dichlorofluoromethane	2.65	Incomplete Integration	DVW2	06/05/25 10:52
Carbon disulfide	3.35	Other	UKEK	06/06/25 08:13
t-Butyl alcohol	3.77	Other	UKEK	06/06/25 08:14
Tetrahydrofuran	5.86	Incomplete Integration	DVW2	06/05/25 10:53
Bromochloromethane	5.87	Peak assignment corrected	DVW2	06/05/25 10:53
Isobutyl alcohol	6.66	Incomplete Integration	DVW2	06/05/25 10:53
1,4-Dioxane	8.10	Incomplete Integration	DVW2	06/05/25 10:53

Lab Sample ID: IC 410-652703/15 Client Sample ID:

Date Analyzed: 06/04/25 21:51 Lab File ID: CU04X14.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.34	Incomplete Integration	DVW2	06/05/25 10:50
Dichlorofluoromethane	2.63	Incomplete Integration	DVW2	06/05/25 10:51
Trichlorofluoromethane	2.67	Incomplete Integration	DVW2	06/05/25 10:51
Carbon disulfide	3.34	Other	UKEK	06/06/25 08:12
Allyl chloride	3.49	Peak assignment corrected	DVW2	06/05/25 10:51
t-Butyl alcohol	3.76	Incomplete Integration	DVW2	06/05/25 11:13
1,4-Dioxane	8.08	Incomplete Integration	DVW2	06/05/25 10:51

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 652703

Lab Sample ID: IC 410-652703/16 Client Sample ID:

Date Analyzed: 06/04/25 22:13 Lab File ID: CU04X15.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.02	Incomplete Integration	DVW2	06/05/25 10:48
Bromomethane	2.35	Incomplete Integration	DVW2	06/05/25 10:48
Dichlorofluoromethane	2.63	Incomplete Integration	DVW2	06/05/25 10:48
Acrolein	2.98	Incomplete Integration	DVW2	06/05/25 10:49
Carbon disulfide	3.35	Other	UKEK	06/06/25 08:10
t-Butyl alcohol	3.77	Other	UKEK	06/06/25 08:11
Acrylonitrile	3.97	Incomplete Integration	DVW2	06/05/25 10:49
1,2-Dichloroethane	6.80	Other	UKEK	06/06/25 08:22
n-Butanol	7.58	Incomplete Integration	DVW2	06/05/25 10:50
1,4-Dioxane	8.08	Incomplete Integration	DVW2	06/05/25 10:50

Lab Sample ID: IC 410-652703/17 Client Sample ID:

Date Analyzed: 06/04/25 22:35 Lab File ID: CU04X16.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.63	Incomplete Integration	DVW2	06/05/25 10:46
Acrolein	2.98	Incomplete Integration	DVW2	06/05/25 10:47
Carbon disulfide	3.35	Incomplete Integration	DVW2	06/05/25 10:47
Methyl acetate	3.48	Incomplete Integration	DVW2	06/05/25 10:47
1,2-Dichloroethane	6.80	Other	UKEK	06/06/25 08:23
1,4-Dioxane	8.07	Incomplete Integration	DVW2	06/05/25 10:48

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 652703

Lab Sample ID: ICIS 410-652703/18 Client Sample ID:

Date Analyzed: 06/04/25 22:57 Lab File ID: CU04X17.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,3-Butadiene	2.03	Incomplete Integration	DVW2	06/05/25 10:37
Dichlorofluoromethane	2.63	Incomplete Integration	DVW2	06/05/25 10:37
Carbon disulfide	3.35	Other	UKEK	06/06/25 08:09
Methyl acetate	3.47	Incomplete Integration	DVW2	06/05/25 10:39
1,4-Dioxane	8.07	Incomplete Integration	DVW2	06/05/25 10:42

Lab Sample ID: IC 410-652703/19 Client Sample ID:

Date Analyzed: 06/04/25 23:20 Lab File ID: CU04X18.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorofluoromethane	2.63	Incomplete Integration	DVW2	06/05/25 10:44
Trichlorofluoromethane	2.67	Other	UKEK	06/06/25 08:07
Carbon disulfide	3.34	Incomplete Integration	DVW2	06/05/25 10:45
Methyl acetate	3.46	Incomplete Integration	DVW2	06/05/25 10:45
Allyl chloride	3.49	Peak assignment corrected	DVW2	06/05/25 10:45
1,2-Dichloroethane	6.80	Other	UKEK	06/06/25 08:27
1,4-Dioxane	8.07	Other	UKEK	06/06/25 08:32

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 652703

Lab Sample ID: ICV 410-652703/21 Client Sample ID:

Date Analyzed: 06/05/25 00:04 Lab File ID: CU04X20.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	2.35	Other	UKEK	06/06/25 08:04
Dichlorofluoromethane	2.63	Incomplete Integration	DVW2	06/05/25 10:58
Trichlorofluoromethane	2.68	Other	UKEK	06/06/25 08:03
Acrolein	2.98	Incomplete Integration	DVW2	06/05/25 10:59
Carbon disulfide	3.34	Other	UKEK	06/06/25 08:02
Methyl acetate	3.48	Incomplete Integration	DVW2	06/05/25 11:00
3-Chloro-1-propene	3.50	Peak assignment corrected	DVW2	06/05/25 11:01
1,4-Dioxane	8.08	Incomplete Integration	DVW2	06/05/25 11:01

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 668089

Lab Sample ID: CCVIS 410-668089/3 Client Sample ID:

Date Analyzed: 07/08/25 10:09 Lab File ID: CL08X02.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.34	Incomplete Integration	N7YK	07/08/25 10:32
Methyl acetate	3.47	Incomplete Integration	N7YK	07/08/25 10:33

Lab Sample ID: MB 410-668089/8 Client Sample ID:

Date Analyzed: 07/08/25 12:00 Lab File ID: CL08X07.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetone		Invalid Compound ID	N7YK	07/08/25 12:36

Lab Sample ID: 410-229895-13 Client Sample ID: Trip Blank 2

Date Analyzed: 07/08/25 12:45 Lab File ID: CL08X09.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dimethyl ether		Invalid Compound ID	N7YK	07/22/25 15:52

Lab Sample ID: 410-229895-1 Client Sample ID: 16C1

Date Analyzed: 07/08/25 14:36 Lab File ID: CL08X14.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Butanone		Invalid Compound ID	N9NA	07/09/25 09:00
Dichlorodifluoromethane		Invalid Compound ID	N9NA	07/09/25 08:59

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 668089

Lab Sample ID: 410-229895-2 Client Sample ID: 16MW8

Date Analyzed: 07/08/25 14:59 Lab File ID: CL08X15.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrahydrofuran	5.87	Peak assignment corrected	N9NA	07/09/25 09:04

Lab Sample ID: 410-229895-3 Client Sample ID: 16MW9

Date Analyzed: 07/08/25 15:21 Lab File ID: CL08X16.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	3.67	Incomplete Integration	N9NA	07/09/25 09:06
Trichloroethene	7.63	Incomplete Integration	N9NA	07/09/25 09:06
2-Butanone		Invalid Compound ID	N9NA	07/09/25 09:06
Dichlorodifluoromethane		Invalid Compound ID	N9NA	07/09/25 09:05
Dimethyl ether		Invalid Compound ID	N9NA	07/09/25 09:05

Lab Sample ID: 410-229895-4 Client Sample ID: 16WC1A

Date Analyzed: 07/08/25 15:43 Lab File ID: CL08X17.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	3.65	Incomplete Integration	N9NA	07/09/25 09:07
Trichloroethene	7.63	Incomplete Integration	N9NA	07/09/25 09:08
Dichlorodifluoromethane		Invalid Compound ID	N9NA	07/09/25 09:07
Dimethyl ether		Invalid Compound ID	N9NA	07/09/25 09:07

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 668089

Lab Sample ID: 410-229895-5 Client Sample ID: 16WDUP

Date Analyzed: 07/08/25 17:35 Lab File ID: CL08X22.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichloroethene	7.63	Incomplete Integration	N9NA	07/09/25 09:14
Chloromethane		Invalid Compound ID	N9NA	07/09/25 09:13
Dichlorodifluoromethane		Invalid Compound ID	N9NA	07/09/25 09:13
Dimethyl ether		Invalid Compound ID	N9NA	07/09/25 09:13

Lab Sample ID: 410-229895-6 Client Sample ID:

Date Analyzed: 07/08/25 17:57 Lab File ID: CL08X23.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
t-Butyl alcohol-d10 (IS)	3.93	Peak assignment corrected	N9NA	07/09/25 09:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Analysis Batch Number: 668678

Lab Sample ID: CCVIS 410-668678/3 Client Sample ID:

Date Analyzed: 07/09/25 10:02 Lab File ID: CL09X02.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl acetate	3.48	Incomplete Integration	N7YK	07/09/25 10:30
1,4-Dioxane	8.08	Incomplete Integration	N7YK	07/09/25 10:31

Lab Sample ID: 410-229895-6 RA Client Sample ID: 16WC1B RA

Date Analyzed: 07/09/25 15:14 Lab File ID: CL09X16.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzene	6.73	Peak assignment corrected	N9NA	07/10/25 12:13

Lab Sample ID: 410-229895-8 Client Sample ID: 16-3

Date Analyzed: 07/09/25 15:59 Lab File ID: CL09X18.D GC Column: R-624SilMS 3 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	2.67	Incomplete Integration	N9NA	07/10/25 12:23

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 661633

Lab Sample ID: ICIS 410-661633/2 Client Sample ID:

Date Analyzed: 06/23/25 20:42 Lab File ID: HF2351.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Safrole, Total	6.40	Peak assignment corrected	SJ89	06/24/25 08:27
Thionazin	8.03	Peak assignment corrected	SJ89	06/24/25 08:24
Sulfotepp	8.34	Peak assignment corrected	SJ89	06/24/25 08:24
cis-Diallate	8.46	Peak assignment corrected	SJ89	06/24/25 08:24
Phorate	8.48	Peak assignment corrected	SJ89	06/24/25 08:24
trans-Diallate	8.55	Peak assignment corrected	SJ89	06/24/25 08:24
Dimethoate	8.63	Peak assignment corrected	SJ89	06/24/25 08:24
Disulfoton	8.99	Peak assignment corrected	SJ89	06/24/25 08:24
Methyl parathion	9.35	Peak assignment corrected	SJ89	06/24/25 08:24
Parathion	9.74	Peak assignment corrected	SJ89	06/24/25 08:25
6-Methylchrysene	12.48	Peak assignment corrected	SJ89	06/24/25 08:25
3-Methylcholanthrene	14.33	Peak assignment corrected	SJ89	06/24/25 08:25
Indeno[1,2,3-cd]pyrene	15.64	Split Peak	N5QU	06/23/25 21:44

Lab Sample ID: IC 410-661633/3 Client Sample ID:

Date Analyzed: 06/23/25 21:24 Lab File ID: HF2352.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Safrole, Total	6.40	Peak assignment corrected	SJ89	06/24/25 08:26

Lab Sample ID: IC 410-661633/6 Client Sample ID:

Date Analyzed: 06/23/25 22:30 Lab File ID: HF2355.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.63	Split Peak	SJ89	06/24/25 07:55

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 661633

Lab Sample ID: IC 410-661633/7 Client Sample ID:

Date Analyzed: 06/23/25 22:52 Lab File ID: HF2356.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.63	Split Peak	SJ89	06/24/25 07:56

Lab Sample ID: IC 410-661633/8 Client Sample ID:

Date Analyzed: 06/23/25 23:14 Lab File ID: HF2357.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzyl alcohol	4.65	Peak assignment corrected	SJ89	06/24/25 07:56
2-Methylphenol	4.75	Peak assignment corrected	SJ89	06/24/25 07:56
2-Chloronaphthalene	6.97	Split Peak	SJ89	06/24/25 07:57
1-Chloronaphthalene	6.99	Split Peak	SJ89	06/24/25 07:57
N,N-dimethylformamide		Invalid Compound ID	SJ89	06/24/25 07:56

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 661633

Lab Sample ID: IC 410-661633/9 Client Sample ID:

Date Analyzed: 06/23/25 23:36 Lab File ID: HF2358.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2-Methylphenol	4.75	Split Peak	SJ89	06/24/25 07:58
3,4-Methylphenol	4.89	Peak assignment corrected	SJ89	06/24/25 07:58
Isosafrole Peak 1	6.69	Peak assignment corrected	SJ89	06/24/25 07:58
2-Chloronaphthalene	6.97	Split Peak	SJ89	06/24/25 07:58
1-Chloronaphthalene	6.99	Split Peak	SJ89	06/24/25 07:58
1,3-Dinitrobenzene	7.27	Peak assignment corrected	SJ89	06/24/25 07:58
Parathion	9.73	Peak assignment corrected	SJ89	06/24/25 09:13
N,N-dimethylformamide		Invalid Compound ID	SJ89	06/24/25 07:57
6-Methylchrysene	12.48	Peak assignment corrected	SJ89	06/24/25 09:13
3-Methylcholanthrene	14.32	Peak assignment corrected	SJ89	06/24/25 09:13
Dibenz[a,h]acridine	15.22	Peak assignment corrected	SJ89	06/24/25 07:59
Indeno[1,2,3-cd]pyrene	15.63	Split Peak	SJ89	06/24/25 07:59
Benzo[g,h,i]perylene	16.13	Split Peak	SJ89	06/24/25 07:59

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 661633

Lab Sample ID: ICV 410-661633/12 Client Sample ID:

Date Analyzed: 06/24/25 00:42 Lab File ID: HF2361.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o,o',o''-Triethylphosphorothioate	5.50	Peak assignment corrected	SJ89	06/24/25 09:37
Safrole, Total	6.40	Peak assignment corrected	SJ89	06/24/25 09:37
Thionazin	8.03	Peak assignment corrected	SJ89	06/24/25 09:38
Sulfotepp	8.34	Peak assignment corrected	SJ89	06/24/25 09:38
1,3,5-Trinitrobenzene	8.42	Peak assignment corrected	SJ89	06/24/25 09:38
cis-Diallate	8.46	Peak assignment corrected	SJ89	06/24/25 09:38
Phorate	8.48	Peak assignment corrected	SJ89	06/24/25 09:38
trans-Diallate	8.55	Peak assignment corrected	SJ89	06/24/25 09:38
Dimethoate	8.63	Peak assignment corrected	SJ89	06/24/25 09:38
Disulfoton	8.99	Peak assignment corrected	SJ89	06/24/25 09:38
Methyl parathion	9.35	Peak assignment corrected	SJ89	06/24/25 09:38
Parathion	9.74	Peak assignment corrected	SJ89	06/24/25 09:38
Hexachlorocyclopentadiene		Invalid Compound ID	SJ89	06/24/25 09:46
6-Methylchrysene	12.48	Peak assignment corrected	SJ89	06/24/25 09:39
3-Methylcholanthrene	14.33	Peak assignment corrected	SJ89	06/24/25 09:39

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 666539

Lab Sample ID: CCVIS 410-666539/2 Client Sample ID:

Date Analyzed: 07/03/25 12:04 Lab File ID: HF0301a.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.27	Split Peak	RN6U	07/03/25 12:38
Dibenz(a,h)anthracene	15.50	Split Peak	RN6U	07/03/25 12:37

Lab Sample ID: CCVC 410-666539/19 Client Sample ID:

Date Analyzed: 07/03/25 20:11 Lab File ID: HF0321.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.45	Incomplete Integration	W6ZA	07/07/25 11:24

Lab Sample ID: 410-229895-7 Client Sample ID: 16-2

Date Analyzed: 07/03/25 23:01 Lab File ID: HF0329.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	W6ZA	07/07/25 11:26

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 668512

Lab Sample ID: CCVIS 410-668512/2 Client Sample ID:

Date Analyzed: 07/08/25 20:38 Lab File ID: HG0851.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Indeno[1,2,3-cd]pyrene	15.45	Baseline	SJ89	07/08/25 20:59

Lab Sample ID: 410-229895-10 Client Sample ID: 16WC2B

Date Analyzed: 07/09/25 03:51 Lab File ID: HG0871.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	SJ89	07/09/25 12:00

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Analysis Batch Number: 668774

Lab Sample ID: CCVIS 410-668774/2 Client Sample ID:

Date Analyzed: 07/09/25 09:26 Lab File ID: HG0901.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
N-Nitrosodimethylamine	2.27	Split Peak	RN6U	07/09/25 09:56
2-Methylphenol	4.68	Peak assignment corrected	RN6U	07/09/25 09:57
3,4-Methylphenol	4.82	Peak assignment corrected	RN6U	07/09/25 09:58
Benzo[a]pyrene	13.67	Split Peak	RN6U	07/09/25 10:03
Indeno[1,2,3-cd]pyrene	15.46	Split Peak	RN6U	07/09/25 10:03
Dibenz(a,h)anthracene	15.50	Split Peak	RN6U	07/09/25 10:04

Lab Sample ID: MB 410-666606/1-A Client Sample ID:

Date Analyzed: 07/09/25 11:15 Lab File ID: HG0904.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	W6ZA	07/10/25 12:52

Lab Sample ID: 410-229895-3 Client Sample ID: 16MW9

Date Analyzed: 07/09/25 19:34 Lab File ID: HG0925.D GC Column: DB-5MS 30m 0 ID: 0.25(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
2,4-Dinitrotoluene		Invalid Compound ID	W6ZA	07/10/25 13:10

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
Hg_0.1Control_00276	07/15/25	07/08/25	0.15% HNO3, Lot 7532106	10 mL	Hg_1Control_00262	1 mL	Mercury	0.1 ug/mL
.Hg_1Control_00262	07/15/25	07/08/25	0.15% HNO3, Lot 7532106	10 mL	MT_S_10Hg_CPI_00003	1 mL	Mercury	1 ug/mL
..MT_S_10Hg_CPI_00003	02/10/26	CPI International, Lot 1503810			(Purchased Reagent)		Mercury	10 ug/mL
Hg_1Cal_00262	07/15/25	07/08/25	0.15% HNO3, Lot 7532106	10 mL	MT_S_10Hg_CPI_00002	1 mL	Mercury	1 ug/mL
.MT_S_10Hg_CPI_00002	02/10/26	CPI International, Lot 1452342			(Purchased Reagent)		Mercury	10 ug/mL
Hg_1Control_00262	07/15/25	07/08/25	0.15% HNO3, Lot 7532106	10 mL	MT_S_10Hg_CPI_00003	1 mL	Mercury	1 ug/mL
.MT_S_10Hg_CPI_00003	02/10/26	CPI International, Lot 1503810			(Purchased Reagent)		Mercury	10 ug/mL
Hg_5%KMnO4_00553	01/03/26	07/03/25	DI Water, Lot DI07032025	2000 mL	MT_KMnO4_LC_00002	100.21 g	Potassium Permanganate	4.98044 %
.MT_KMnO4_LC_00002	07/28/26	Lab Chem, Lot 44100407			(Purchased Reagent)		Potassium Permanganate	99.4 %
Hg_5%KMnO4_00554	01/03/26	07/03/25	DI Water, Lot DI07032025	2000 mL	MT_KMnO4_LC_00002	100.327 g	Potassium Permanganate	4.98625 %
.MT_KMnO4_LC_00002	07/28/26	Lab Chem, Lot 44100407			(Purchased Reagent)		Potassium Permanganate	99.4 %
MP_1:1HCl_00052	12/20/25	06/20/25	DI Water, Lot DI06202025	20000 mL	MT_HCl_JT_00019	10000 mL	Hydrogen Chloride	188000 ug/mL
.MT_HCl_JT_00019	02/28/30	J.T.Baker, Lot 25C2662003			(Purchased Reagent)		Hydrogen Chloride	37.6 %
MP_1:1HNO3_00086	12/26/25	06/26/25	DI Water, Lot DI06262025	20000 mL	MT_HNO3_FI_00018	10000 mL	Nitric acid	348500 ug/mL
.MT_HNO3_FI_00018	02/17/30	ThermoFisher Scientific, Lot 245385			(Purchased Reagent)		Nitric acid	69.7 %
MP_40Hg_IV_00259	07/16/25	07/09/25	DI Water, Lot DI07012025	200 mL	MT_HNO3_FI_00018	0.3 mL	Nitric acid	1045.5 ug/mL
					MT_S_10Hg_CPI_00002	0.8 mL	Mercury	0.04 ug/mL
.MT_HNO3_FI_00018	02/17/30	ThermoFisher Scientific, Lot 245385			(Purchased Reagent)		Nitric acid	69.7 %
.MT_S_10Hg_CPI_00002	02/10/26	CPI International, Lot 1452342			(Purchased Reagent)		Mercury	10 ug/mL
MP_5K2S2O8_00150	12/25/25	06/25/25	DI Water, Lot DI06252025	2000 mL	MT_K2S2O8_JT_00053	400.012 g	Potassium persulfate	19.9006 %
.MT_K2S2O8_JT_00053	07/26/28	J.T.Baker, Lot 22D2261044			(Purchased Reagent)		Potassium persulfate	99.5 %
MP_NaClHNO_00369	01/03/26	07/03/25	DI Water, Lot DI07032025	2000 mL	MT_H3NO_Fishe_00061	240.328 g	Hydroxylamine hydrochloride	11.9804 %
					MT_NaCl_Fis_00001	240.251 g	Sodium Chloride	12.0125 %
.MT_H3NO_Fishe_00061	07/03/26	Fisher, Lot 243373			(Purchased Reagent)		Hydroxylamine hydrochloride	99.7 %
.MT_NaCl_Fis_00001	07/24/26	Fisher, Lot 243064			(Purchased Reagent)		Sodium Chloride	100 %
MP_NaClHNO_00370	01/08/26	07/08/25	DI Water, Lot DI07082025	2000 mL	MT_H3NO_Fishe_00061	240.449 g	Hydroxylamine hydrochloride	11.9864 %
					MT_NaCl_Fis_00001	240.203 g	Sodium Chloride	12.0101 %
.MT_H3NO_Fishe_00061	07/03/26	Fisher, Lot 243373			(Purchased Reagent)		Hydroxylamine hydrochloride	99.7 %
.MT_NaCl_Fis_00001	07/24/26	Fisher, Lot 243064			(Purchased Reagent)		Sodium Chloride	100 %
MSS_RV8270_1_00043	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_RV8270_2_00044	1000 uL	Benzidine	0.375 ppm
							1,3,5-Trinitrobenzene	0.125 ppm
							1,4-Dinitrobenzene	0.125 ppm
							1-Naphthylamine	0.125 ppm
							2-Acetylaminofluorene	0.125 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	0.125 ppm
							2-Picoline	0.125 ppm
							2-Toluidine	0.125 ppm
							3,3'-Dimethylbenzidine	0.125 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.125 ppm
							4-Aminobiphenyl	0.125 ppm
							4-Nitroquinoline-1-oxide	0.125 ppm
							Dibenz[a,h]acridine	0.125 ppm
							N-Nitro-o-toluidine	0.125 ppm
							N-Nitrosodi-n-butylamine	0.125 ppm
							N-Nitrosodiethylamine	0.125 ppm
							N-Nitrosomethylethylamine	0.125 ppm
							N-Nitrosomorpholine	0.125 ppm
							N-Nitrosopiperidine	0.125 ppm
							N-Nitrosopyrrolidine	0.125 ppm
							p-Dimethylamino azobenzene	0.125 ppm
							p-Phenylene diamine	0.125 ppm
							Pentachloronitrobenzene	0.125 ppm
							Phenacetin	0.125 ppm
							Pronamide	0.125 ppm
							Quinoline	0.125 ppm
							1,4-Naphthoquinone	0.125 ppm
							1-Chloronaphthalene	0.125 ppm
							7,12-Dimethylbenz(a)anthracene	0.125 ppm
							Chlorobenzilate	0.125 ppm
							Dinoseb	0.125 ppm
							Ethyl methanesulfonate	0.125 ppm
							Hexachloropropene	0.125 ppm
							Isodrin	0.125 ppm
							Isosafrole Peak 1	0.02 ppm
							Isosafrole Peak 2	0.105 ppm
							Methyl methanesulfonate	0.125 ppm
							Pentachlorobenzene	0.125 ppm
							3-Methylcholanthrene	0.125 ppm
							6-Methylchrysene	0.125 ppm
							cis-Diallate	0.0925 ppm
							Dimethoate	0.125 ppm
							Disulfoton	0.125 ppm
							Ethyl Parathion	0.125 ppm
							Methyl parathion	0.125 ppm
							o,o',o''-Triethylphosphorothioate	0.125 ppm
							Phorate	0.125 ppm
							Safrole, Total	0.125 ppm
							Sulfotepp	0.125 ppm
							Thionazin	0.125 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	0.0325 ppm
							2,4,6-Tribromophenol (Surr)	0.25 ppm
							2-Fluorobiphenyl (Surr)	0.25 ppm
							2-Fluorophenol (Surr)	0.25 ppm
							Nitrobenzene-d5 (Surr)	0.25 ppm
							p-Terphenyl-d14 (Surr)	0.25 ppm
							Phenol-d5 (Surr)	0.25 ppm
							Alpha-Terpineol	0.125 ppm
							Dimethylformamide	0.125 ppm
							Octachlorostyrene	0.125 ppm
							Phenyl ether	0.125 ppm
							Dibenz[a,j]acridine	0.125 ppm
							1,1'-Biphenyl	0.125 ppm
							1,2,4,5-Tetrachlorobenzene	0.125 ppm
							1,2,4-Trichlorobenzene	0.125 ppm
							1,2-Dichlorobenzene	0.125 ppm
							1,2-Diphenylhydrazine	0.125 ppm
							1,3-Dichlorobenzene	0.125 ppm
							1,3-Dinitrobenzene	0.125 ppm
							1,4-Dichlorobenzene	0.125 ppm
							1,4-Dioxane	0.125 ppm
							1-Methylnaphthalene	0.125 ppm
							2,2'-oxybis[1-chloropropane]	0.125 ppm
							2,3,4,6-Tetrachlorophenol	0.125 ppm
							2,4,5-Trichlorophenol	0.125 ppm
							2,4,6-Trichlorophenol	0.125 ppm
							2,4-Dichlorophenol	0.125 ppm
							2,4-Dimethylphenol	0.125 ppm
							2,4-Dinitrophenol	1.25 ppm
							2,4-Dinitrotoluene	0.125 ppm
							2,6-Dichlorophenol	0.125 ppm
							2,6-Dinitrotoluene	0.125 ppm
							2-Chloronaphthalene	0.125 ppm
							2-Chlorophenol	0.125 ppm
							2-Methylnaphthalene	0.125 ppm
							2-Methylphenol	0.125 ppm
							2-Nitroaniline	0.125 ppm
							2-Nitrophenol	0.125 ppm
							3-Nitroaniline	0.125 ppm
							4,6-Dinitro-2-methylphenol	0.75 ppm
							4-Bromophenyl phenyl ether	0.125 ppm
							4-Chloro-3-methylphenol	0.125 ppm
							4-Chloroaniline	0.125 ppm
							4-Chlorophenyl phenyl ether	0.125 ppm
							4-Methylphenol	0.125 ppm
							4-Nitroaniline	0.125 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	0.75 ppm
							Acenaphthene	0.125 ppm
							Acenaphthylene	0.125 ppm
							Acetophenone	0.125 ppm
							Aniline	0.125 ppm
							Anthracene	0.125 ppm
							Benzo[a]anthracene	0.125 ppm
							Benzo[a]pyrene	0.125 ppm
							Benzo[b]fluoranthene	0.125 ppm
							Benzo[g,h,i]perylene	0.125 ppm
							Benzo[k]fluoranthene	0.125 ppm
							Benzyl alcohol	0.125 ppm
							Bis(2-chloroethoxy)methane	0.125 ppm
							Bis(2-chloroethyl)ether	0.125 ppm
							Bis(2-ethylhexyl) phthalate	0.125 ppm
							Butyl benzyl phthalate	0.125 ppm
							Carbazole	0.125 ppm
							Chrysene	0.125 ppm
							Di-n-butyl phthalate	0.125 ppm
							Di-n-octyl phthalate	0.125 ppm
							Dibenz(a,h)anthracene	0.125 ppm
							Dibenzofuran	0.125 ppm
							Diethyl phthalate	0.125 ppm
							Dimethyl phthalate	0.125 ppm
							Fluoranthene	0.125 ppm
							Fluorene	0.125 ppm
							Hexachlorobenzene	0.125 ppm
							Hexachlorobutadiene	0.125 ppm
							Hexachlorocyclopentadiene	0.125 ppm
							Hexachloroethane	0.125 ppm
							Indeno[1,2,3-cd]pyrene	0.125 ppm
							Isophorone	0.125 ppm
							N-Nitrosodi-n-propylamine	0.125 ppm
							N-Nitrosodimethylamine	0.125 ppm
							N-Nitrosodiphenylamine	0.10625 ppm
							Naphthalene	0.125 ppm
							Nitrobenzene	0.125 ppm
							Pentachlorophenol	0.625 ppm
							Phenanthrene	0.125 ppm
							Phenol	0.125 ppm
							Pyrene	0.125 ppm
							Pyridine	0.25 ppm
							3,3'-Dichlorobenzidine	0.125 ppm
							Atrazine	0.125 ppm
							Benzaldehyde	0.125 ppm
							Caprolactam	0.125 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
					MSS_RV8270_IS_00110	20 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_RV8270_2_00044	08/28/25	06/23/25	MeCl2, Lot 65052	5 mL	MSS_8270_APWS_00028	5 uL	Benzidine	0.75 ppm
							1,3,5-Trinitrobenzene	0.25 ppm
							1,4-Dinitrobenzene	0.25 ppm
							1-Naphthylamine	0.25 ppm
							2-Acetylaminofluorene	0.25 ppm
							2-Naphthylamine	0.25 ppm
							2-Picoline	0.25 ppm
							2-Toluidine	0.25 ppm
							3,3'-Dimethylbenzidine	0.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.25 ppm
							4-Aminobiphenyl	0.25 ppm
							4-Nitroquinoline-1-oxide	0.25 ppm
							Dibenz[a,h]acridine	0.25 ppm
							N-Nitro-o-toluidine	0.25 ppm
							N-Nitrosodi-n-butylamine	0.25 ppm
							N-Nitrosodiethylamine	0.25 ppm
							N-Nitrosomethylethylamine	0.25 ppm
							N-Nitrosomorpholine	0.25 ppm
							N-Nitrosopiperidine	0.25 ppm
							N-Nitrosopyrrolidine	0.25 ppm
							p-Dimethylamino azobenzene	0.25 ppm
							p-Phenylene diamine	0.25 ppm
							Pentachloronitrobenzene	0.25 ppm
							Phenacetin	0.25 ppm
							Pronamide	0.25 ppm
							Quinoline	0.25 ppm
							1,4-Naphthoquinone	0.25 ppm
							1-Chloronaphthalene	0.25 ppm
							7,12-Dimethylbenz(a)anthracene	0.25 ppm
							Chlorobenzilate	0.25 ppm
							Dinoseb	0.25 ppm
							Ethyl methanesulfonate	0.25 ppm
							Hexachloropropene	0.25 ppm
							Isodrin	0.25 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isosafrole Peak 1	0.04 ppm
							Isosafrole Peak 2	0.21 ppm
							Methyl methanesulfonate	0.25 ppm
							Pentachlorobenzene	0.25 ppm
							3-Methylcholanthrene	0.25 ppm
							6-Methylchrysene	0.25 ppm
							cis-Diallate	0.185 ppm
							Dimethoate	0.25 ppm
							Disulfoton	0.25 ppm
							Ethyl Parathion	0.25 ppm
							Methyl parathion	0.25 ppm
							o,o',o''-Triethylphosphorothioate	0.25 ppm
							Phorate	0.25 ppm
							Safrole, Total	0.25 ppm
							Sulfotepp	0.25 ppm
							Thionazin	0.25 ppm
							trans-Diallate	0.065 ppm
					MSS_8270_WS_00027	5 uL	2,4,6-Tribromophenol (Surr)	0.5 ppm
							2-Fluorobiphenyl (Surr)	0.5 ppm
							2-Fluorophenol (Surr)	0.5 ppm
							Nitrobenzene-d5 (Surr)	0.5 ppm
							p-Terphenyl-d14 (Surr)	0.5 ppm
							Phenol-d5 (Surr)	0.5 ppm
							Alpha-Terpineol	0.25 ppm
							Dimethylformamide	0.25 ppm
							Octachlorostyrene	0.25 ppm
							Phenyl ether	0.25 ppm
							Dibenz[a,j]acridine	0.25 ppm
							1,1'-Biphenyl	0.25 ppm
							1,2,4,5-Tetrachlorobenzene	0.25 ppm
							1,2,4-Trichlorobenzene	0.25 ppm
							1,2-Dichlorobenzene	0.25 ppm
							1,2-Diphenylhydrazine	0.25 ppm
							1,3-Dichlorobenzene	0.25 ppm
							1,3-Dinitrobenzene	0.25 ppm
							1,4-Dichlorobenzene	0.25 ppm
							1,4-Dioxane	0.25 ppm
							1-Methylnaphthalene	0.25 ppm
							2,2'-oxybis[1-chloropropane]	0.25 ppm
							2,3,4,6-Tetrachlorophenol	0.25 ppm
							2,4,5-Trichlorophenol	0.25 ppm
							2,4,6-Trichlorophenol	0.25 ppm
							2,4-Dichlorophenol	0.25 ppm
							2,4-Dimethylphenol	0.25 ppm
							2,4-Dinitrophenol	2.5 ppm
							2,4-Dinitrotoluene	0.25 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	0.25 ppm
							2,6-Dinitrotoluene	0.25 ppm
							2-Chloronaphthalene	0.25 ppm
							2-Chlorophenol	0.25 ppm
							2-Methylnaphthalene	0.25 ppm
							2-Methylphenol	0.25 ppm
							2-Nitroaniline	0.25 ppm
							2-Nitrophenol	0.25 ppm
							3-Nitroaniline	0.25 ppm
							4,6-Dinitro-2-methylphenol	1.5 ppm
							4-Bromophenyl phenyl ether	0.25 ppm
							4-Chloro-3-methylphenol	0.25 ppm
							4-Chloroaniline	0.25 ppm
							4-Chlorophenyl phenyl ether	0.25 ppm
							4-Methylphenol	0.25 ppm
							4-Nitroaniline	0.25 ppm
							4-Nitrophenol	1.5 ppm
							Acenaphthene	0.25 ppm
							Acenaphthylene	0.25 ppm
							Acetophenone	0.25 ppm
							Aniline	0.25 ppm
							Anthracene	0.25 ppm
							Benzo[a]anthracene	0.25 ppm
							Benzo[a]pyrene	0.25 ppm
							Benzo[b]fluoranthene	0.25 ppm
							Benzo[g,h,i]perylene	0.25 ppm
							Benzo[k]fluoranthene	0.25 ppm
							Benzyl alcohol	0.25 ppm
							Bis(2-chloroethoxy)methane	0.25 ppm
							Bis(2-chloroethyl)ether	0.25 ppm
							Bis(2-ethylhexyl) phthalate	0.25 ppm
							Butyl benzyl phthalate	0.25 ppm
							Carbazole	0.25 ppm
							Chrysene	0.25 ppm
							Di-n-butyl phthalate	0.25 ppm
							Di-n-octyl phthalate	0.25 ppm
							Dibenz(a,h)anthracene	0.25 ppm
							Dibenzofuran	0.25 ppm
							Diethyl phthalate	0.25 ppm
							Dimethyl phthalate	0.25 ppm
							Fluoranthene	0.25 ppm
							Fluorene	0.25 ppm
							Hexachlorobenzene	0.25 ppm
							Hexachlorobutadiene	0.25 ppm
							Hexachlorocyclopentadiene	0.25 ppm
							Hexachloroethane	0.25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	0.25 ppm
							Isophorone	0.25 ppm
							N-Nitrosodi-n-propylamine	0.25 ppm
							N-Nitrosodimethylamine	0.25 ppm
							N-Nitrosodiphenylamine	0.2125 ppm
							Naphthalene	0.25 ppm
							Nitrobenzene	0.25 ppm
							Pentachlorophenol	1.25 ppm
							Phenanthrene	0.25 ppm
							Phenol	0.25 ppm
							Pyrene	0.25 ppm
							Pyridine	0.5 ppm
							3,3'-Dichlorobenzidine	0.25 ppm
							Benzidine	0.75 ppm
					MSS_AB_24DNP_00009	10 uL	2,4-Dinitrophenol	2.5 ppm
					MSS_AB_46D2MP_00006	5 uL	4,6-Dinitro-2-methylphenol	1.5 ppm
					MSS_AB_4NP_00006	5 uL	4-Nitrophenol	1.5 ppm
					MSS_AB_PCP_00004	3.75 uL	Pentachlorophenol	1.25 ppm
					MSS_BAS_WS_00018	12.5 uL	Atrazine	0.25 ppm
							Benzaldehyde	0.25 ppm
							Caprolactam	0.25 ppm
					MSS_RV8270_IS_00110	100 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
..MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
...MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
...OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
...OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
...OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
...OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
..MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
...MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
...OP_Agi_LCSadd_00001	11/30/25	Restek, Lot 0006819172			(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
...OP_RES_APPX6_00010	09/30/27	Restek, Lot A0216024			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...OP_RES_LCS1_00023	09/30/25		Restek, Lot A0219584		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
...OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..MSS_AB_24DNP_00009	01/12/29		Absolute, Lot 011224		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
..MSS_AB_46D2MP_00006	08/28/29		Absolute, Lot 082824		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
..MSS_AB_4NP_00006	02/13/28		Absolute, Lot 021323		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
..MSS_AB_PCP_00004	06/22/27		Absolute, Lot 062222		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
..MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
...OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
..MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
...MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_2_00044	08/28/25	06/23/25	MeCl2, Lot 65052	5 mL	MSS_8270_APWS_00028	5 uL	Benzidine	0.75 ppm
							1,3,5-Trinitrobenzene	0.25 ppm
							1,4-Dinitrobenzene	0.25 ppm
							1-Naphthylamine	0.25 ppm
							2-Acetylaminofluorene	0.25 ppm
							2-Naphthylamine	0.25 ppm
							2-Picoline	0.25 ppm
							2-Toluidine	0.25 ppm
							3,3'-Dimethylbenzidine	0.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	0.25 ppm
							4-Aminobiphenyl	0.25 ppm
							4-Nitroquinoline-1-oxide	0.25 ppm
							Dibenz[a,h]acridine	0.25 ppm
							N-Nitro-o-toluidine	0.25 ppm
							N-Nitrosodi-n-butylamine	0.25 ppm
							N-Nitrosodiethylamine	0.25 ppm
							N-Nitrosomethylethylamine	0.25 ppm
							N-Nitrosomorpholine	0.25 ppm
							N-Nitrosopiperidine	0.25 ppm
							N-Nitrosopyrrolidine	0.25 ppm
							p-Dimethylamino azobenzene	0.25 ppm
							p-Phenylene diamine	0.25 ppm
							Pentachloronitrobenzene	0.25 ppm
							Phenacetin	0.25 ppm
							Pronamide	0.25 ppm

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Quinoline	0.25 ppm
							1,4-Naphthoquinone	0.25 ppm
							1-Chloronaphthalene	0.25 ppm
							7,12-Dimethylbenz(a)anthracene	0.25 ppm
							Chlorobenzilate	0.25 ppm
							Dinoseb	0.25 ppm
							Ethyl methanesulfonate	0.25 ppm
							Hexachloropropene	0.25 ppm
							Isodrin	0.25 ppm
							Isosafrole Peak 1	0.04 ppm
							Isosafrole Peak 2	0.21 ppm
							Methyl methanesulfonate	0.25 ppm
							Pentachlorobenzene	0.25 ppm
							3-Methylcholanthrene	0.25 ppm
							6-Methylchrysene	0.25 ppm
							cis-Diallate	0.185 ppm
							Dimethoate	0.25 ppm
							Disulfoton	0.25 ppm
							Ethyl Parathion	0.25 ppm
							Methyl parathion	0.25 ppm
							o,o',o''-Triethylphosphorothioate	0.25 ppm
							Phorate	0.25 ppm
							Safrole, Total	0.25 ppm
							Sulfotepp	0.25 ppm
							Thionazin	0.25 ppm
							trans-Diallate	0.065 ppm
					MSS_8270_WS_00027	5 uL	2,4,6-Tribromophenol (Surr)	0.5 ppm
							2-Fluorobiphenyl (Surr)	0.5 ppm
							2-Fluorophenol (Surr)	0.5 ppm
							Nitrobenzene-d5 (Surr)	0.5 ppm
							p-Terphenyl-d14 (Surr)	0.5 ppm
							Phenol-d5 (Surr)	0.5 ppm
							Alpha-Terpineol	0.25 ppm
							Dimethylformamide	0.25 ppm
							Octachlorostyrene	0.25 ppm
							Phenyl ether	0.25 ppm
							Dibenz[a,j]acridine	0.25 ppm
							1,1'-Biphenyl	0.25 ppm
							1,2,4,5-Tetrachlorobenzene	0.25 ppm
							1,2,4-Trichlorobenzene	0.25 ppm
							1,2-Dichlorobenzene	0.25 ppm
							1,2-Diphenylhydrazine	0.25 ppm
							1,3-Dichlorobenzene	0.25 ppm
							1,3-Dinitrobenzene	0.25 ppm
							1,4-Dichlorobenzene	0.25 ppm
							1,4-Dioxane	0.25 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	0.25 ppm
							2,2'-oxybis[1-chloropropane]	0.25 ppm
							2,3,4,6-Tetrachlorophenol	0.25 ppm
							2,4,5-Trichlorophenol	0.25 ppm
							2,4,6-Trichlorophenol	0.25 ppm
							2,4-Dichlorophenol	0.25 ppm
							2,4-Dimethylphenol	0.25 ppm
							2,4-Dinitrophenol	2.5 ppm
							2,4-Dinitrotoluene	0.25 ppm
							2,6-Dichlorophenol	0.25 ppm
							2,6-Dinitrotoluene	0.25 ppm
							2-Chloronaphthalene	0.25 ppm
							2-Chlorophenol	0.25 ppm
							2-Methylnaphthalene	0.25 ppm
							2-Methylphenol	0.25 ppm
							2-Nitroaniline	0.25 ppm
							2-Nitrophenol	0.25 ppm
							3-Nitroaniline	0.25 ppm
							4,6-Dinitro-2-methylphenol	1.5 ppm
							4-Bromophenyl phenyl ether	0.25 ppm
							4-Chloro-3-methylphenol	0.25 ppm
							4-Chloroaniline	0.25 ppm
							4-Chlorophenyl phenyl ether	0.25 ppm
							4-Methylphenol	0.25 ppm
							4-Nitroaniline	0.25 ppm
							4-Nitrophenol	1.5 ppm
							Acenaphthene	0.25 ppm
							Acenaphthylene	0.25 ppm
							Acetophenone	0.25 ppm
							Aniline	0.25 ppm
							Anthracene	0.25 ppm
							Benzo[a]anthracene	0.25 ppm
							Benzo[a]pyrene	0.25 ppm
							Benzo[b]fluoranthene	0.25 ppm
							Benzo[g,h,i]perylene	0.25 ppm
							Benzo[k]fluoranthene	0.25 ppm
							Benzyl alcohol	0.25 ppm
							Bis(2-chloroethoxy)methane	0.25 ppm
							Bis(2-chloroethyl)ether	0.25 ppm
							Bis(2-ethylhexyl) phthalate	0.25 ppm
							Butyl benzyl phthalate	0.25 ppm
							Carbazole	0.25 ppm
							Chrysene	0.25 ppm
							Di-n-butyl phthalate	0.25 ppm
							Di-n-octyl phthalate	0.25 ppm
							Dibenz(a,h)anthracene	0.25 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenzofuran	0.25 ppm
							Diethyl phthalate	0.25 ppm
							Dimethyl phthalate	0.25 ppm
							Fluoranthene	0.25 ppm
							Fluorene	0.25 ppm
							Hexachlorobenzene	0.25 ppm
							Hexachlorobutadiene	0.25 ppm
							Hexachlorocyclopentadiene	0.25 ppm
							Hexachloroethane	0.25 ppm
							Indeno[1,2,3-cd]pyrene	0.25 ppm
							Isophorone	0.25 ppm
							N-Nitrosodi-n-propylamine	0.25 ppm
							N-Nitrosodimethylamine	0.25 ppm
							N-Nitrosodiphenylamine	0.2125 ppm
							Naphthalene	0.25 ppm
							Nitrobenzene	0.25 ppm
							Pentachlorophenol	1.25 ppm
							Phenanthrene	0.25 ppm
							Phenol	0.25 ppm
							Pyrene	0.25 ppm
							Pyridine	0.5 ppm
							3,3'-Dichlorobenzidine	0.25 ppm
							Benzidine	0.75 ppm
					MSS_AB_24DNP_00009	10 uL	2,4-Dinitrophenol	2.5 ppm
					MSS_AB_46D2MP_00006	5 uL	4,6-Dinitro-2-methylphenol	1.5 ppm
					MSS_AB_4NP_00006	5 uL	4-Nitrophenol	1.5 ppm
					MSS_AB_PCP_00004	3.75 uL	Pentachlorophenol	1.25 ppm
					MSS_BAS_WS_00018	12.5 uL	Atrazine	0.25 ppm
							Benzaldehyde	0.25 ppm
							Caprolactam	0.25 ppm
					MSS_RV8270_IS_00110	100 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
..OP_Agi_LCSadd_00001	11/30/25		Restek, Lot 0006819172		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27		Restek, Lot A0216024		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25		Restek, Lot A0219584		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.MSS_AB_24DNP_00009	01/12/29		Absolute, Lot 011224		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
.MSS_AB_46D2MP_00006	08/28/29		Absolute, Lot 082824		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
.MSS_AB_4NP_00006	02/13/28		Absolute, Lot 021323		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
.MSS_AB_PCP_00004	06/22/27		Absolute, Lot 062222		(Purchased Reagent)		Pentachlorophenol	1000 ug/mL
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_3_00042	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_8270_APWS_00028	10 uL	Benzidine	3.75 ppm
							1,3,5-Trinitrobenzene	1.25 ppm
							1,4-Dinitrobenzene	1.25 ppm
							1-Naphthylamine	1.25 ppm
							2-Acetylaminofluorene	1.25 ppm
							2-Naphthylamine	1.25 ppm
							2-Picoline	1.25 ppm
							2-Toluidine	1.25 ppm
							3,3'-Dimethylbenzidine	1.25 ppm
							4,4'-Methylene bis(2-chloroaniline)	1.25 ppm
							4-Aminobiphenyl	1.25 ppm
							4-Nitroquinoline-1-oxide	1.25 ppm
							Dibenz[a,h]acridine	1.25 ppm
							N-Nitro-o-toluidine	1.25 ppm
							N-Nitrosodi-n-butylamine	1.25 ppm
							N-Nitrosodiethylamine	1.25 ppm
							N-Nitrosomethylethylamine	1.25 ppm
							N-Nitrosomorpholine	1.25 ppm
							N-Nitrosopiperidine	1.25 ppm
							N-Nitrosopyrrolidine	1.25 ppm
							p-Dimethylamino azobenzene	1.25 ppm
							p-Phenylene diamine	1.25 ppm
							Pentachloronitrobenzene	1.25 ppm
							Phenacetin	1.25 ppm
							Pronamide	1.25 ppm
							Quinoline	1.25 ppm
							1,4-Naphthoquinone	1.25 ppm
							1-Chloronaphthalene	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							7,12-Dimethylbenz(a)anthracene	1.25 ppm
							Chlorobenzilate	1.25 ppm
							Dinoseb	1.25 ppm
							Ethyl methanesulfonate	1.25 ppm
							Hexachloropropene	1.25 ppm
							Isodrin	1.25 ppm
							Isosafrole Peak 1	0.2 ppm
							Isosafrole Peak 2	1.05 ppm
							Methyl methanesulfonate	1.25 ppm
							Pentachlorobenzene	1.25 ppm
							3-Methylcholanthrene	1.25 ppm
							6-Methylchrysene	1.25 ppm
							cis-Diallate	0.925 ppm
							Dimethoate	1.25 ppm
							Disulfoton	1.25 ppm
							Ethyl Parathion	1.25 ppm
							Methyl parathion	1.25 ppm
							o,o',o''-Triethylphosphorothioate	1.25 ppm
							Phorate	1.25 ppm
							Safrole, Total	1.25 ppm
							Sulfotepp	1.25 ppm
							Thionazin	1.25 ppm
							trans-Diallate	0.325 ppm
					MSS_8270_WS_00027	10 uL	2,4,6-Tribromophenol (Surr)	2.5 ppm
							2-Fluorobiphenyl (Surr)	2.5 ppm
							2-Fluorophenol (Surr)	2.5 ppm
							Nitrobenzene-d5 (Surr)	2.5 ppm
							p-Terphenyl-d14 (Surr)	2.5 ppm
							Phenol-d5 (Surr)	2.5 ppm
							Alpha-Terpineol	1.25 ppm
							Dimethylformamide	1.25 ppm
							Octachlorostyrene	1.25 ppm
							Phenyl ether	1.25 ppm
							Dibenz[a,j]acridine	1.25 ppm
							1,1'-Biphenyl	1.25 ppm
							1,2,4,5-Tetrachlorobenzene	1.25 ppm
							1,2,4-Trichlorobenzene	1.25 ppm
							1,2-Dichlorobenzene	1.25 ppm
							1,2-Diphenylhydrazine	1.25 ppm
							1,3-Dichlorobenzene	1.25 ppm
							1,3-Dinitrobenzene	1.25 ppm
							1,4-Dichlorobenzene	1.25 ppm
							1,4-Dioxane	1.25 ppm
							1-Methylnaphthalene	1.25 ppm
							2,2'-oxybis[1-chloropropane]	1.25 ppm
							2,3,4,6-Tetrachlorophenol	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	1.25 ppm
							2,4,6-Trichlorophenol	1.25 ppm
							2,4-Dichlorophenol	1.25 ppm
							2,4-Dimethylphenol	1.25 ppm
							2,4-Dinitrophenol	5 ppm
							2,4-Dinitrotoluene	1.25 ppm
							2,6-Dichlorophenol	1.25 ppm
							2,6-Dinitrotoluene	1.25 ppm
							2-Chloronaphthalene	1.25 ppm
							2-Chlorophenol	1.25 ppm
							2-Methylnaphthalene	1.25 ppm
							2-Methylphenol	1.25 ppm
							2-Nitroaniline	1.25 ppm
							2-Nitrophenol	1.25 ppm
							3-Nitroaniline	1.25 ppm
							4,6-Dinitro-2-methylphenol	3.75 ppm
							4-Bromophenyl phenyl ether	1.25 ppm
							4-Chloro-3-methylphenol	1.25 ppm
							4-Chloroaniline	1.25 ppm
							4-Chlorophenyl phenyl ether	1.25 ppm
							4-Methylphenol	1.25 ppm
							4-Nitroaniline	1.25 ppm
							4-Nitrophenol	3.75 ppm
							Acenaphthene	1.25 ppm
							Acenaphthylene	1.25 ppm
							Acetophenone	1.25 ppm
							Aniline	1.25 ppm
							Anthracene	1.25 ppm
							Benzo[a]anthracene	1.25 ppm
							Benzo[a]pyrene	1.25 ppm
							Benzo[b]fluoranthene	1.25 ppm
							Benzo[g,h,i]perylene	1.25 ppm
							Benzo[k]fluoranthene	1.25 ppm
							Benzyl alcohol	1.25 ppm
							Bis(2-chloroethoxy)methane	1.25 ppm
							Bis(2-chloroethyl)ether	1.25 ppm
							Bis(2-ethylhexyl) phthalate	1.25 ppm
							Butyl benzyl phthalate	1.25 ppm
							Carbazole	1.25 ppm
							Chrysene	1.25 ppm
							Di-n-butyl phthalate	1.25 ppm
							Di-n-octyl phthalate	1.25 ppm
							Dibenz(a,h)anthracene	1.25 ppm
							Dibenzofuran	1.25 ppm
							Diethyl phthalate	1.25 ppm
							Dimethyl phthalate	1.25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1.25 ppm
							Fluorene	1.25 ppm
							Hexachlorobenzene	1.25 ppm
							Hexachlorobutadiene	1.25 ppm
							Hexachlorocyclopentadiene	1.25 ppm
							Hexachloroethane	1.25 ppm
							Indeno[1,2,3-cd]pyrene	1.25 ppm
							Isophorone	1.25 ppm
							N-Nitrosodi-n-propylamine	1.25 ppm
							N-Nitrosodimethylamine	1.25 ppm
							N-Nitrosodiphenylamine	1.0625 ppm
							Naphthalene	1.25 ppm
							Nitrobenzene	1.25 ppm
							Pentachlorophenol	2.5 ppm
							Phenanthrene	1.25 ppm
							Phenol	1.25 ppm
							Pyrene	1.25 ppm
							Pyridine	2.5 ppm
							3,3'-Dichlorobenzidine	1.25 ppm
							Benzidine	3.75 ppm
					MSS_AB_24DNP_00009	5 uL	2,4-Dinitrophenol	5 ppm
					MSS_AB_46D2MP_00006	2.5 uL	4,6-Dinitro-2-methylphenol	3.75 ppm
					MSS_AB_4NP_00006	2.5 uL	4-Nitrophenol	3.75 ppm
					MSS_BAS_WS_00018	25 uL	Atrazine	1.25 ppm
							Benzaldehyde	1.25 ppm
							Caprolactam	1.25 ppm
					MSS_RV8270_IS_00110	40 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..OP_Agi_LCSadd_00001	11/30/25		Restek, Lot 0006819172		(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27		Restek, Lot A0216024		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25		Restek, Lot A0219584		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.MSS_AB_24DNP_00009	01/12/29		Absolute, Lot 011224		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
.MSS_AB_46D2MP_00006	08/28/29		Absolute, Lot 082824		(Purchased Reagent)		4,6-Dinitro-2-methylphenol	1000 ug/mL
.MSS_AB_4NP_00006	02/13/28		Absolute, Lot 021323		(Purchased Reagent)		4-Nitrophenol	1000 ug/mL
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_4_00041	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_8270_APWS_00028	30 uL	Benzidine	11.25 ppm
							1,3,5-Trinitrobenzene	3.75 ppm
							1,4-Dinitrobenzene	3.75 ppm
							1-Naphthylamine	3.75 ppm
							2-Acetylaminofluorene	3.75 ppm
							2-Naphthylamine	3.75 ppm
							2-Picoline	3.75 ppm
							2-Toluidine	3.75 ppm
							3,3'-Dimethylbenzidine	3.75 ppm
							4,4'-Methylene bis(2-chloroaniline)	3.75 ppm
							4-Aminobiphenyl	3.75 ppm
							4-Nitroquinoline-1-oxide	3.75 ppm
							Dibenz[a,h]acridine	3.75 ppm
							N-Nitro-o-toluidine	3.75 ppm
							N-Nitrosodi-n-butylamine	3.75 ppm
							N-Nitrosodiethylamine	3.75 ppm
							N-Nitrosomethylethylamine	3.75 ppm
							N-Nitrosomorpholine	3.75 ppm
							N-Nitrosopiperidine	3.75 ppm
							N-Nitrosopyrrolidine	3.75 ppm
							p-Dimethylamino azobenzene	3.75 ppm
							p-Phenylene diamine	3.75 ppm
							Pentachloronitrobenzene	3.75 ppm
							Phenacetin	3.75 ppm
							Pronamide	3.75 ppm
							Quinoline	3.75 ppm
							1,4-Naphthoquinone	3.75 ppm
							1-Chloronaphthalene	3.75 ppm
							7,12-Dimethylbenz(a)anthracene	3.75 ppm
							Chlorobenzilate	3.75 ppm
							Dinoseb	3.75 ppm
							Ethyl methanesulfonate	3.75 ppm
							Hexachloropropene	3.75 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isodrin	3.75 ppm
							Isosafrole Peak 1	0.6 ppm
							Isosafrole Peak 2	3.15 ppm
							Methyl methanesulfonate	3.75 ppm
							Pentachlorobenzene	3.75 ppm
							3-Methylcholanthrene	3.75 ppm
							6-Methylchrysene	3.75 ppm
							cis-Diallate	2.775 ppm
							Dimethoate	3.75 ppm
							Disulfoton	3.75 ppm
							Ethyl Parathion	3.75 ppm
							Methyl parathion	3.75 ppm
							o,o',o''-Triethylphosphorothioate	3.75 ppm
							Phorate	3.75 ppm
							Safrole, Total	3.75 ppm
							Sulfotepp	3.75 ppm
							Thionazin	3.75 ppm
							trans-Diallate	0.975 ppm
					MSS_8270_WS_00027	30 uL	2,4,6-Tribromophenol (Surr)	7.5 ppm
							2-Fluorobiphenyl (Surr)	7.5 ppm
							2-Fluorophenol (Surr)	7.5 ppm
							Nitrobenzene-d5 (Surr)	7.5 ppm
							p-Terphenyl-d14 (Surr)	7.5 ppm
							Phenol-d5 (Surr)	7.5 ppm
							Alpha-Terpineol	3.75 ppm
							Dimethylformamide	3.75 ppm
							Octachlorostyrene	3.75 ppm
							Phenyl ether	3.75 ppm
							Dibenz[a,j]acridine	3.75 ppm
							1,1'-Biphenyl	3.75 ppm
							1,2,4,5-Tetrachlorobenzene	3.75 ppm
							1,2,4-Trichlorobenzene	3.75 ppm
							1,2-Dichlorobenzene	3.75 ppm
							1,2-Diphenylhydrazine	3.75 ppm
							1,3-Dichlorobenzene	3.75 ppm
							1,3-Dinitrobenzene	3.75 ppm
							1,4-Dichlorobenzene	3.75 ppm
							1,4-Dioxane	3.75 ppm
							1-Methylnaphthalene	3.75 ppm
							2,2'-oxybis[1-chloropropane]	3.75 ppm
							2,3,4,6-Tetrachlorophenol	3.75 ppm
							2,4,5-Trichlorophenol	3.75 ppm
							2,4,6-Trichlorophenol	3.75 ppm
							2,4-Dichlorophenol	3.75 ppm
							2,4-Dimethylphenol	3.75 ppm
							2,4-Dinitrophenol	11.25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrotoluene	3.75 ppm
							2,6-Dichlorophenol	3.75 ppm
							2,6-Dinitrotoluene	3.75 ppm
							2-Chloronaphthalene	3.75 ppm
							2-Chlorophenol	3.75 ppm
							2-Methylnaphthalene	3.75 ppm
							2-Methylphenol	3.75 ppm
							2-Nitroaniline	3.75 ppm
							2-Nitrophenol	3.75 ppm
							3-Nitroaniline	3.75 ppm
							4,6-Dinitro-2-methylphenol	7.5 ppm
							4-Bromophenyl phenyl ether	3.75 ppm
							4-Chloro-3-methylphenol	3.75 ppm
							4-Chloroaniline	3.75 ppm
							4-Chlorophenyl phenyl ether	3.75 ppm
							4-Methylphenol	3.75 ppm
							4-Nitroaniline	3.75 ppm
							4-Nitrophenol	7.5 ppm
							Acenaphthene	3.75 ppm
							Acenaphthylene	3.75 ppm
							Acetophenone	3.75 ppm
							Aniline	3.75 ppm
							Anthracene	3.75 ppm
							Benzo[a]anthracene	3.75 ppm
							Benzo[a]pyrene	3.75 ppm
							Benzo[b]fluoranthene	3.75 ppm
							Benzo[g,h,i]perylene	3.75 ppm
							Benzo[k]fluoranthene	3.75 ppm
							Benzyl alcohol	3.75 ppm
							Bis(2-chloroethoxy)methane	3.75 ppm
							Bis(2-chloroethyl)ether	3.75 ppm
							Bis(2-ethylhexyl) phthalate	3.75 ppm
							Butyl benzyl phthalate	3.75 ppm
							Carbazole	3.75 ppm
							Chrysene	3.75 ppm
							Di-n-butyl phthalate	3.75 ppm
							Di-n-octyl phthalate	3.75 ppm
							Dibenz(a,h)anthracene	3.75 ppm
							Dibenzofuran	3.75 ppm
							Diethyl phthalate	3.75 ppm
							Dimethyl phthalate	3.75 ppm
							Fluoranthene	3.75 ppm
							Fluorene	3.75 ppm
							Hexachlorobenzene	3.75 ppm
							Hexachlorobutadiene	3.75 ppm
							Hexachlorocyclopentadiene	3.75 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	3.75 ppm
							Indeno[1,2,3-cd]pyrene	3.75 ppm
							Isophorone	3.75 ppm
							N-Nitrosodi-n-propylamine	3.75 ppm
							N-Nitrosodimethylamine	3.75 ppm
							N-Nitrosodiphenylamine	3.1875 ppm
							Naphthalene	3.75 ppm
							Nitrobenzene	3.75 ppm
							Pentachlorophenol	7.5 ppm
							Phenanthrene	3.75 ppm
							Phenol	3.75 ppm
							Pyrene	3.75 ppm
							Pyridine	7.5 ppm
							3,3'-Dichlorobenzidine	3.75 ppm
							Benzidine	11.25 ppm
					MSS_AB_24DNP_00009	7.5 uL	2,4-Dinitrophenol	11.25 ppm
					MSS_BAS_WS_00018	75 uL	Atrazine	3.75 ppm
							Benzaldehyde	3.75 ppm
							Caprolactam	3.75 ppm
					MSS_RV8270_IS_00110	40 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
..OP_Agi_LCSadd_00001	11/30/25	Restek, Lot 0006819172			(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27	Restek, Lot A0216024			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25	Restek, Lot A0219584			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.MSS_AB_24DNP_00009	01/12/29		Absolute, Lot 011224		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_5_00054	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_8270_APWS_00028	60 uL	Benzidine	22.5 ppm
							1,3,5-Trinitrobenzene	7.5 ppm
							1,4-Dinitrobenzene	7.5 ppm
							1-Naphthylamine	7.5 ppm
							2-Acetylaminofluorene	7.5 ppm
							2-Naphthylamine	7.5 ppm
							2-Picoline	7.5 ppm
							2-Toluidine	7.5 ppm
							3,3'-Dimethylbenzidine	7.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	7.5 ppm
							4-Aminobiphenyl	7.5 ppm
							4-Nitroquinoline-1-oxide	7.5 ppm
							Dibenz[a,h]acridine	7.5 ppm
							N-Nitro-o-toluidine	7.5 ppm
							N-Nitrosodi-n-butylamine	7.5 ppm
							N-Nitrosodiethylamine	7.5 ppm
							N-Nitrosomethylethylamine	7.5 ppm
							N-Nitrosomorpholine	7.5 ppm
							N-Nitrosopiperidine	7.5 ppm
							N-Nitrosopyrrolidine	7.5 ppm
							p-Dimethylamino azobenzene	7.5 ppm
							p-Phenylene diamine	7.5 ppm
							Pentachloronitrobenzene	7.5 ppm
							Phenacetin	7.5 ppm
							Pronamide	7.5 ppm
							Quinoline	7.5 ppm
							1,4-Naphthoquinone	7.5 ppm
							1-Chloronaphthalene	7.5 ppm
							7,12-Dimethylbenz(a)anthracene	7.5 ppm
							Chlorobenzilate	7.5 ppm
							Dinoseb	7.5 ppm
							Ethyl methanesulfonate	7.5 ppm
							Hexachloropropene	7.5 ppm
							Isodrin	7.5 ppm
							Isosafrole Peak 1	1.2 ppm
							Isosafrole Peak 2	6.3 ppm
							Methyl methanesulfonate	7.5 ppm
							Pentachlorobenzene	7.5 ppm
							3-Methylcholanthrene	7.5 ppm
							6-Methylchrysene	7.5 ppm
							cis-Diallate	5.55 ppm
							Dimethoate	7.5 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Disulfoton	7.5 ppm
							Ethyl Parathion	7.5 ppm
							Methyl parathion	7.5 ppm
							o,o',o''-Triethylphosphorothioate	7.5 ppm
							Phorate	7.5 ppm
							Safrole, Total	7.5 ppm
							Sulfotepp	7.5 ppm
							Thionazin	7.5 ppm
							trans-Diallate	1.95 ppm
					MSS_8270_WS_00027	60 uL	2,4,6-Tribromophenol (Surr)	15 ppm
							2-Fluorobiphenyl (Surr)	15 ppm
							2-Fluorophenol (Surr)	15 ppm
							Nitrobenzene-d5 (Surr)	15 ppm
							p-Terphenyl-d14 (Surr)	15 ppm
							Phenol-d5 (Surr)	15 ppm
							Alpha-Terpineol	7.5 ppm
							Dimethylformamide	7.5 ppm
							Octachlorostyrene	7.5 ppm
							Phenyl ether	7.5 ppm
							Dibenz[a,j]acridine	7.5 ppm
							1,1'-Biphenyl	7.5 ppm
							1,2,4,5-Tetrachlorobenzene	7.5 ppm
							1,2,4-Trichlorobenzene	7.5 ppm
							1,2-Dichlorobenzene	7.5 ppm
							1,2-Diphenylhydrazine	7.5 ppm
							1,3-Dichlorobenzene	7.5 ppm
							1,3-Dinitrobenzene	7.5 ppm
							1,4-Dichlorobenzene	7.5 ppm
							1,4-Dioxane	7.5 ppm
							1-Methylnaphthalene	7.5 ppm
							2,2'-oxybis[1-chloropropane]	7.5 ppm
							2,3,4,6-Tetrachlorophenol	7.5 ppm
							2,4,5-Trichlorophenol	7.5 ppm
							2,4,6-Trichlorophenol	7.5 ppm
							2,4-Dichlorophenol	7.5 ppm
							2,4-Dimethylphenol	7.5 ppm
							2,4-Dinitrophenol	17.5 ppm
							2,4-Dinitrotoluene	7.5 ppm
							2,6-Dichlorophenol	7.5 ppm
							2,6-Dinitrotoluene	7.5 ppm
							2-Chloronaphthalene	7.5 ppm
							2-Chlorophenol	7.5 ppm
							2-Methylnaphthalene	7.5 ppm
							2-Methylphenol	7.5 ppm
							2-Nitroaniline	7.5 ppm
							2-Nitrophenol	7.5 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	7.5 ppm
							4,6-Dinitro-2-methylphenol	15 ppm
							4-Bromophenyl phenyl ether	7.5 ppm
							4-Chloro-3-methylphenol	7.5 ppm
							4-Chloroaniline	7.5 ppm
							4-Chlorophenyl phenyl ether	7.5 ppm
							4-Methylphenol	7.5 ppm
							4-Nitroaniline	7.5 ppm
							4-Nitrophenol	15 ppm
							Acenaphthene	7.5 ppm
							Acenaphthylene	7.5 ppm
							Acetophenone	7.5 ppm
							Aniline	7.5 ppm
							Anthracene	7.5 ppm
							Benzo[a]anthracene	7.5 ppm
							Benzo[a]pyrene	7.5 ppm
							Benzo[b]fluoranthene	7.5 ppm
							Benzo[g,h,i]perylene	7.5 ppm
							Benzo[k]fluoranthene	7.5 ppm
							Benzyl alcohol	7.5 ppm
							Bis(2-chloroethoxy)methane	7.5 ppm
							Bis(2-chloroethyl)ether	7.5 ppm
							Bis(2-ethylhexyl) phthalate	7.5 ppm
							Butyl benzyl phthalate	7.5 ppm
							Carbazole	7.5 ppm
							Chrysene	7.5 ppm
							Di-n-butyl phthalate	7.5 ppm
							Di-n-octyl phthalate	7.5 ppm
							Dibenz(a,h)anthracene	7.5 ppm
							Dibenzofuran	7.5 ppm
							Diethyl phthalate	7.5 ppm
							Dimethyl phthalate	7.5 ppm
							Fluoranthene	7.5 ppm
							Fluorene	7.5 ppm
							Hexachlorobenzene	7.5 ppm
							Hexachlorobutadiene	7.5 ppm
							Hexachlorocyclopentadiene	7.5 ppm
							Hexachloroethane	7.5 ppm
							Indeno[1,2,3-cd]pyrene	7.5 ppm
							Isophorone	7.5 ppm
							N-Nitrosodi-n-propylamine	7.5 ppm
							N-Nitrosodimethylamine	7.5 ppm
							N-Nitrosodiphenylamine	6.375 ppm
							Naphthalene	7.5 ppm
							Nitrobenzene	7.5 ppm
							Pentachlorophenol	15 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	7.5 ppm
							Phenol	7.5 ppm
							Pyrene	7.5 ppm
							Pyridine	15 ppm
							3,3'-Dichlorobenzidine	7.5 ppm
							Benzidine	22.5 ppm
					MSS_AB_24DNP_00009	5 uL	2,4-Dinitrophenol	17.5 ppm
					MSS_BAS_WS_00018	150 uL	Atrazine	7.5 ppm
							Benzaldehyde	7.5 ppm
							Caprolactam	7.5 ppm
					MSS_RV8270_IS_00110	40 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
..OP_Agi_LCSadd_00001	11/30/25	Restek, Lot 0006819172			(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27	Restek, Lot A0216024			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25	Restek, Lot A0219584			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.MSS_AB_24DNP_00009	01/12/29		Absolute, Lot 011224		(Purchased Reagent)		2,4-Dinitrophenol	1000 ug/mL
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_6_00068	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_8270_APWS_00028	100 uL	Benzidine	37.5 ppm
							1,3,5-Trinitrobenzene	12.5 ppm
							1,4-Dinitrobenzene	12.5 ppm
							1-Naphthylamine	12.5 ppm
							2-Acetylaminofluorene	12.5 ppm
							2-Naphthylamine	12.5 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Picoline	12.5 ppm
							2-Toluidine	12.5 ppm
							3,3'-Dimethylbenzidine	12.5 ppm
							4,4'-Methylene bis(2-chloroaniline)	12.5 ppm
							4-Aminobiphenyl	12.5 ppm
							4-Nitroquinoline-1-oxide	12.5 ppm
							Dibenz[a,h]acridine	12.5 ppm
							N-Nitro-o-toluidine	12.5 ppm
							N-Nitrosodi-n-butylamine	12.5 ppm
							N-Nitrosodiethylamine	12.5 ppm
							N-Nitrosomethylethylamine	12.5 ppm
							N-Nitrosomorpholine	12.5 ppm
							N-Nitrosopiperidine	12.5 ppm
							N-Nitrosopyrrolidine	12.5 ppm
							p-Dimethylamino azobenzene	12.5 ppm
							p-Phenylene diamine	12.5 ppm
							Pentachloronitrobenzene	12.5 ppm
							Phenacetin	12.5 ppm
							Pronamide	12.5 ppm
							Quinoline	12.5 ppm
							1,4-Naphthoquinone	12.5 ppm
							1-Chloronaphthalene	12.5 ppm
							7,12-Dimethylbenz(a)anthracene	12.5 ppm
							Chlorobenzilate	12.5 ppm
							Dinoseb	12.5 ppm
							Ethyl methanesulfonate	12.5 ppm
							Hexachloropropene	12.5 ppm
							Isodrin	12.5 ppm
							Isosafrole Peak 1	2 ppm
							Isosafrole Peak 2	10.5 ppm
							Methyl methanesulfonate	12.5 ppm
							Pentachlorobenzene	12.5 ppm
							3-Methylcholanthrene	12.5 ppm
							6-Methylchrysene	12.5 ppm
							cis-Diallate	9.25 ppm
							Dimethoate	12.5 ppm
							Disulfoton	12.5 ppm
							Ethyl Parathion	12.5 ppm
							Methyl parathion	12.5 ppm
							o,o',o''-Triethylphosphorothioate	12.5 ppm
							Phorate	12.5 ppm
							Safrole, Total	12.5 ppm
							Sulfotepp	12.5 ppm
							Thionazin	12.5 ppm
							trans-Diallate	3.25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSS_8270_WS_00027	100 uL	2,4,6-Tribromophenol (Surr)	25 ppm
							2-Fluorobiphenyl (Surr)	25 ppm
							2-Fluorophenol (Surr)	25 ppm
							Nitrobenzene-d5 (Surr)	25 ppm
							p-Terphenyl-d14 (Surr)	25 ppm
							Phenol-d5 (Surr)	25 ppm
							Alpha-Terpineol	12.5 ppm
							Dimethylformamide	12.5 ppm
							Octachlorostyrene	12.5 ppm
							Phenyl ether	12.5 ppm
							Dibenz[a,j]acridine	12.5 ppm
							1,1'-Biphenyl	12.5 ppm
							1,2,4,5-Tetrachlorobenzene	12.5 ppm
							1,2,4-Trichlorobenzene	12.5 ppm
							1,2-Dichlorobenzene	12.5 ppm
							1,2-Diphenylhydrazine	12.5 ppm
							1,3-Dichlorobenzene	12.5 ppm
							1,3-Dinitrobenzene	12.5 ppm
							1,4-Dichlorobenzene	12.5 ppm
							1,4-Dioxane	12.5 ppm
							1-Methylnaphthalene	12.5 ppm
							2,2'-oxybis[1-chloropropane]	12.5 ppm
							2,3,4,6-Tetrachlorophenol	12.5 ppm
							2,4,5-Trichlorophenol	12.5 ppm
							2,4,6-Trichlorophenol	12.5 ppm
							2,4-Dichlorophenol	12.5 ppm
							2,4-Dimethylphenol	12.5 ppm
							2,4-Dinitrophenol	25 ppm
							2,4-Dinitrotoluene	12.5 ppm
							2,6-Dichlorophenol	12.5 ppm
							2,6-Dinitrotoluene	12.5 ppm
							2-Chloronaphthalene	12.5 ppm
							2-Chlorophenol	12.5 ppm
							2-Methylnaphthalene	12.5 ppm
							2-Methylphenol	12.5 ppm
							2-Nitroaniline	12.5 ppm
							2-Nitrophenol	12.5 ppm
							3-Nitroaniline	12.5 ppm
							4,6-Dinitro-2-methylphenol	25 ppm
							4-Bromophenyl phenyl ether	12.5 ppm
							4-Chloro-3-methylphenol	12.5 ppm
							4-Chloroaniline	12.5 ppm
							4-Chlorophenyl phenyl ether	12.5 ppm
							4-Methylphenol	12.5 ppm
							4-Nitroaniline	12.5 ppm
							4-Nitrophenol	25 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene	12.5 ppm
							Acenaphthylene	12.5 ppm
							Acetophenone	12.5 ppm
							Aniline	12.5 ppm
							Anthracene	12.5 ppm
							Benzo[a]anthracene	12.5 ppm
							Benzo[a]pyrene	12.5 ppm
							Benzo[b]fluoranthene	12.5 ppm
							Benzo[g,h,i]perylene	12.5 ppm
							Benzo[k]fluoranthene	12.5 ppm
							Benzyl alcohol	12.5 ppm
							Bis(2-chloroethoxy)methane	12.5 ppm
							Bis(2-chloroethyl)ether	12.5 ppm
							Bis(2-ethylhexyl) phthalate	12.5 ppm
							Butyl benzyl phthalate	12.5 ppm
							Carbazole	12.5 ppm
							Chrysene	12.5 ppm
							Di-n-butyl phthalate	12.5 ppm
							Di-n-octyl phthalate	12.5 ppm
							Dibenz(a,h)anthracene	12.5 ppm
							Dibenzofuran	12.5 ppm
							Diethyl phthalate	12.5 ppm
							Dimethyl phthalate	12.5 ppm
							Fluoranthene	12.5 ppm
							Fluorene	12.5 ppm
							Hexachlorobenzene	12.5 ppm
							Hexachlorobutadiene	12.5 ppm
							Hexachlorocyclopentadiene	12.5 ppm
							Hexachloroethane	12.5 ppm
							Indeno[1,2,3-cd]pyrene	12.5 ppm
							Isophorone	12.5 ppm
							N-Nitrosodi-n-propylamine	12.5 ppm
							N-Nitrosodimethylamine	12.5 ppm
							N-Nitrosodiphenylamine	10.625 ppm
							Naphthalene	12.5 ppm
							Nitrobenzene	12.5 ppm
							Pentachlorophenol	25 ppm
							Phenanthrene	12.5 ppm
							Phenol	12.5 ppm
							Pyrene	12.5 ppm
							Pyridine	25 ppm
							3,3'-Dichlorobenzidine	12.5 ppm
							Benzidine	37.5 ppm
					MSS_BAS_WS_00018	250 uL	Atrazine	12.5 ppm
							Benzaldehyde	12.5 ppm
							Caprolactam	12.5 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MSS_RV8270_IS_00110	40 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
..OP_Agi_LCSadd_00001	11/30/25	Restek, Lot 0006819172			(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27	Restek, Lot A0216024			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25	Restek, Lot A0219584			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_7_00045	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_8270_APWS_00028	160 uL	Benzidine	60 ppm
							1,3,5-Trinitrobenzene	20 ppm
							1,4-Dinitrobenzene	20 ppm
							1-Naphthylamine	20 ppm
							2-Acetylaminofluorene	20 ppm
							2-Naphthylamine	20 ppm
							2-Picoline	20 ppm
							2-Toluidine	20 ppm
							3,3'-Dimethylbenzidine	20 ppm
							4,4'-Methylene bis(2-chloroaniline)	20 ppm
							4-Aminobiphenyl	20 ppm
							4-Nitroquinoline-1-oxide	20 ppm
							Dibenz[a,h]acridine	20 ppm
							N-Nitro-o-toluidine	20 ppm
							N-Nitrosodi-n-butylamine	20 ppm
							N-Nitrosodiethylamine	20 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosomethylethylamine	20 ppm
							N-Nitrosomorpholine	20 ppm
							N-Nitrosopiperidine	20 ppm
							N-Nitrosopyrrolidine	20 ppm
							p-Dimethylamino azobenzene	20 ppm
							p-Phenylene diamine	20 ppm
							Pentachloronitrobenzene	20 ppm
							Phenacetin	20 ppm
							Pronamide	20 ppm
							Quinoline	20 ppm
							1,4-Naphthoquinone	20 ppm
							1-Chloronaphthalene	20 ppm
							7,12-Dimethylbenz(a)anthracene	20 ppm
							Chlorobenzilate	20 ppm
							Dinoseb	20 ppm
							Ethyl methanesulfonate	20 ppm
							Hexachloropropene	20 ppm
							Isodrin	20 ppm
							Isosafrole Peak 1	3.2 ppm
							Isosafrole Peak 2	16.8 ppm
							Methyl methanesulfonate	20 ppm
							Pentachlorobenzene	20 ppm
							3-Methylcholanthrene	20 ppm
							6-Methylchrysene	20 ppm
							cis-Diallate	14.8 ppm
							Dimethoate	20 ppm
							Disulfoton	20 ppm
							Ethyl Parathion	20 ppm
							Methyl parathion	20 ppm
							o,o',o''-Triethylphosphorothioate	20 ppm
							Phorate	20 ppm
							Safrole, Total	20 ppm
							Sulfotepp	20 ppm
							Thionazin	20 ppm
							trans-Diallate	5.2 ppm
					MSS_8270_WS_00027	160 uL	2,4,6-Tribromophenol (Surr)	40 ppm
							2-Fluorobiphenyl (Surr)	40 ppm
							2-Fluorophenol (Surr)	40 ppm
							Nitrobenzene-d5 (Surr)	40 ppm
							p-Terphenyl-d14 (Surr)	40 ppm
							Phenol-d5 (Surr)	40 ppm
							Alpha-Terpineol	20 ppm
							Dimethylformamide	20 ppm
							Octachlorostyrene	20 ppm
							Phenyl ether	20 ppm
							Dibenz[a,j]acridine	20 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1'-Biphenyl	20 ppm
							1,2,4,5-Tetrachlorobenzene	20 ppm
							1,2,4-Trichlorobenzene	20 ppm
							1,2-Dichlorobenzene	20 ppm
							1,2-Diphenylhydrazine	20 ppm
							1,3-Dichlorobenzene	20 ppm
							1,3-Dinitrobenzene	20 ppm
							1,4-Dichlorobenzene	20 ppm
							1,4-Dioxane	20 ppm
							1-Methylnaphthalene	20 ppm
							2,2'-oxybis[1-chloropropane]	20 ppm
							2,3,4,6-Tetrachlorophenol	20 ppm
							2,4,5-Trichlorophenol	20 ppm
							2,4,6-Trichlorophenol	20 ppm
							2,4-Dichlorophenol	20 ppm
							2,4-Dimethylphenol	20 ppm
							2,4-Dinitrophenol	40 ppm
							2,4-Dinitrotoluene	20 ppm
							2,6-Dichlorophenol	20 ppm
							2,6-Dinitrotoluene	20 ppm
							2-Chloronaphthalene	20 ppm
							2-Chlorophenol	20 ppm
							2-Methylnaphthalene	20 ppm
							2-Methylphenol	20 ppm
							2-Nitroaniline	20 ppm
							2-Nitrophenol	20 ppm
							3-Nitroaniline	20 ppm
							4,6-Dinitro-2-methylphenol	40 ppm
							4-Bromophenyl phenyl ether	20 ppm
							4-Chloro-3-methylphenol	20 ppm
							4-Chloroaniline	20 ppm
							4-Chlorophenyl phenyl ether	20 ppm
							4-Methylphenol	20 ppm
							4-Nitroaniline	20 ppm
							4-Nitrophenol	40 ppm
							Acenaphthene	20 ppm
							Acenaphthylene	20 ppm
							Acetophenone	20 ppm
							Aniline	20 ppm
							Anthracene	20 ppm
							Benzo[a]anthracene	20 ppm
							Benzo[a]pyrene	20 ppm
							Benzo[b]fluoranthene	20 ppm
							Benzo[g,h,i]perylene	20 ppm
							Benzo[k]fluoranthene	20 ppm
							Benzyl alcohol	20 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	20 ppm
							Bis(2-chloroethyl)ether	20 ppm
							Bis(2-ethylhexyl) phthalate	20 ppm
							Butyl benzyl phthalate	20 ppm
							Carbazole	20 ppm
							Chrysene	20 ppm
							Di-n-butyl phthalate	20 ppm
							Di-n-octyl phthalate	20 ppm
							Dibenz(a,h)anthracene	20 ppm
							Dibenzofuran	20 ppm
							Diethyl phthalate	20 ppm
							Dimethyl phthalate	20 ppm
							Fluoranthene	20 ppm
							Fluorene	20 ppm
							Hexachlorobenzene	20 ppm
							Hexachlorobutadiene	20 ppm
							Hexachlorocyclopentadiene	20 ppm
							Hexachloroethane	20 ppm
							Indeno[1,2,3-cd]pyrene	20 ppm
							Isophorone	20 ppm
							N-Nitrosodi-n-propylamine	20 ppm
							N-Nitrosodimethylamine	20 ppm
							N-Nitrosodiphenylamine	17 ppm
							Naphthalene	20 ppm
							Nitrobenzene	20 ppm
							Pentachlorophenol	40 ppm
							Phenanthrene	20 ppm
							Phenol	20 ppm
							Pyrene	20 ppm
							Pyridine	40 ppm
							3,3'-Dichlorobenzidine	20 ppm
							Benzidine	60 ppm
					MSS_BAS_WS_00018	400 uL	Atrazine	20 ppm
							Benzaldehyde	20 ppm
							Caprolactam	20 ppm
					MSS_RV8270_IS_00110	40 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
..OP_Agi_LCSadd_00001	11/30/25	Restek, Lot 0006819172			(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27	Restek, Lot A0216024			(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25	Restek, Lot A0219584			(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_8_00044	08/28/25	06/23/25	MeCl2, Lot 65052	2 mL	MSS_8270_APWS_00028	240 uL	Benzidine	90 ppm
							1,3,5-Trinitrobenzene	30 ppm
							1,4-Dinitrobenzene	30 ppm
							1-Naphthylamine	30 ppm
							2-Acetylaminofluorene	30 ppm
							2-Naphthylamine	30 ppm
							2-Picoline	30 ppm
							2-Toluidine	30 ppm
							3,3'-Dimethylbenzidine	30 ppm
							4,4'-Methylene bis(2-chloroaniline)	30 ppm
							4-Aminobiphenyl	30 ppm
							4-Nitroquinoline-1-oxide	30 ppm
							Dibenz[a,h]acridine	30 ppm
							N-Nitro-o-toluidine	30 ppm
							N-Nitrosodi-n-butylamine	30 ppm
							N-Nitrosodiethylamine	30 ppm
							N-Nitrosomethylethylamine	30 ppm
							N-Nitrosomorpholine	30 ppm
							N-Nitrosopiperidine	30 ppm
							N-Nitrosopyrrolidine	30 ppm
							p-Dimethylamino azobenzene	30 ppm
							p-Phenylene diamine	30 ppm
							Pentachloronitrobenzene	30 ppm
							Phenacetin	30 ppm
							Pronamide	30 ppm
							Quinoline	30 ppm
							1,4-Naphthoquinone	30 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Chloronaphthalene	30 ppm
							7,12-Dimethylbenz(a)anthracene	30 ppm
							Chlorobenzilate	30 ppm
							Dinoseb	30 ppm
							Ethyl methanesulfonate	30 ppm
							Hexachloropropene	30 ppm
							Isodrin	30 ppm
							Isosafrole Peak 1	4.8 ppm
							Isosafrole Peak 2	25.2 ppm
							Methyl methanesulfonate	30 ppm
							Pentachlorobenzene	30 ppm
							3-Methylcholanthrene	30 ppm
							6-Methylchrysene	30 ppm
							cis-Diallate	22.2 ppm
							Dimethoate	30 ppm
							Disulfoton	30 ppm
							Ethyl Parathion	30 ppm
							Methyl parathion	30 ppm
							o,o',o''-Triethylphosphorothioate	30 ppm
							Phorate	30 ppm
							Safrole, Total	30 ppm
							Sulfotepp	30 ppm
							Thionazin	30 ppm
							trans-Diallate	7.8 ppm
					MSS_8270_WS_00027	240 uL	2,4,6-Tribromophenol (Surr)	60 ppm
							2-Fluorobiphenyl (Surr)	60 ppm
							2-Fluorophenol (Surr)	60 ppm
							Nitrobenzene-d5 (Surr)	60 ppm
							p-Terphenyl-d14 (Surr)	60 ppm
							Phenol-d5 (Surr)	60 ppm
							Alpha-Terpineol	30 ppm
							Dimethylformamide	30 ppm
							Octachlorostyrene	30 ppm
							Phenyl ether	30 ppm
							Dibenz[a,j]acridine	30 ppm
							1,1'-Biphenyl	30 ppm
							1,2,4,5-Tetrachlorobenzene	30 ppm
							1,2,4-Trichlorobenzene	30 ppm
							1,2-Dichlorobenzene	30 ppm
							1,2-Diphenylhydrazine	30 ppm
							1,3-Dichlorobenzene	30 ppm
							1,3-Dinitrobenzene	30 ppm
							1,4-Dichlorobenzene	30 ppm
							1,4-Dioxane	30 ppm
							1-Methylnaphthalene	30 ppm
							2,2'-oxybis[1-chloropropane]	30 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,3,4,6-Tetrachlorophenol	30 ppm
							2,4,5-Trichlorophenol	30 ppm
							2,4,6-Trichlorophenol	30 ppm
							2,4-Dichlorophenol	30 ppm
							2,4-Dimethylphenol	30 ppm
							2,4-Dinitrophenol	60 ppm
							2,4-Dinitrotoluene	30 ppm
							2,6-Dichlorophenol	30 ppm
							2,6-Dinitrotoluene	30 ppm
							2-Chloronaphthalene	30 ppm
							2-Chlorophenol	30 ppm
							2-Methylnaphthalene	30 ppm
							2-Methylphenol	30 ppm
							2-Nitroaniline	30 ppm
							2-Nitrophenol	30 ppm
							3-Nitroaniline	30 ppm
							4,6-Dinitro-2-methylphenol	60 ppm
							4-Bromophenyl phenyl ether	30 ppm
							4-Chloro-3-methylphenol	30 ppm
							4-Chloroaniline	30 ppm
							4-Chlorophenyl phenyl ether	30 ppm
							4-Methylphenol	30 ppm
							4-Nitroaniline	30 ppm
							4-Nitrophenol	60 ppm
							Acenaphthene	30 ppm
							Acenaphthylene	30 ppm
							Acetophenone	30 ppm
							Aniline	30 ppm
							Anthracene	30 ppm
							Benzo[a]anthracene	30 ppm
							Benzo[a]pyrene	30 ppm
							Benzo[b]fluoranthene	30 ppm
							Benzo[g,h,i]perylene	30 ppm
							Benzo[k]fluoranthene	30 ppm
							Benzyl alcohol	30 ppm
							Bis(2-chloroethoxy)methane	30 ppm
							Bis(2-chloroethyl)ether	30 ppm
							Bis(2-ethylhexyl) phthalate	30 ppm
							Butyl benzyl phthalate	30 ppm
							Carbazole	30 ppm
							Chrysene	30 ppm
							Di-n-butyl phthalate	30 ppm
							Di-n-octyl phthalate	30 ppm
							Dibenz(a,h)anthracene	30 ppm
							Dibenzofuran	30 ppm
							Diethyl phthalate	30 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	30 ppm
							Fluoranthene	30 ppm
							Fluorene	30 ppm
							Hexachlorobenzene	30 ppm
							Hexachlorobutadiene	30 ppm
							Hexachlorocyclopentadiene	30 ppm
							Hexachloroethane	30 ppm
							Indeno[1,2,3-cd]pyrene	30 ppm
							Isophorone	30 ppm
							N-Nitrosodi-n-propylamine	30 ppm
							N-Nitrosodimethylamine	30 ppm
							N-Nitrosodiphenylamine	25.5 ppm
							Naphthalene	30 ppm
							Nitrobenzene	30 ppm
							Pentachlorophenol	60 ppm
							Phenanthrene	30 ppm
							Phenol	30 ppm
							Pyrene	30 ppm
							Pyridine	60 ppm
							3,3'-Dichlorobenzidine	30 ppm
							Benzidine	90 ppm
					MSS_BAS_WS_00018	600 uL	Atrazine	30 ppm
							Benzaldehyde	30 ppm
							Caprolactam	30 ppm
					MSS_RV8270_IS_00110	40 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_8270_APWS_00028	12/31/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_AB_BZIDIN_00012	1000 uL	Benzidine	500 ppm
					OP_RES_APPX1_00018	2500 uL	1,3,5-Trinitrobenzene	250 ppm
							1,4-Dinitrobenzene	250 ppm
							1-Naphthylamine	250 ppm
							2-Acetylaminofluorene	250 ppm
							2-Naphthylamine	250 ppm
							2-Picoline	250 ppm
							2-Toluidine	250 ppm
							3,3'-Dimethylbenzidine	250 ppm
							4,4'-Methylene bis(2-chloroaniline)	250 ppm
							4-Aminobiphenyl	250 ppm
							4-Nitroquinoline-1-oxide	250 ppm
							Dibenz[a,h]acridine	250 ppm
							N-Nitro-o-toluidine	250 ppm
							N-Nitrosodi-n-butylamine	250 ppm
							N-Nitrosodiethylamine	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosomethylethylamine	250 ppm
							N-Nitrosomorpholine	250 ppm
							N-Nitrosopiperidine	250 ppm
							N-Nitrosopyrrolidine	250 ppm
							p-Dimethylamino azobenzene	250 ppm
							p-Phenylene diamine	250 ppm
							Pentachloronitrobenzene	250 ppm
							Phenacetin	250 ppm
							Pronamide	250 ppm
							Quinoline	250 ppm
					OP_RES_APPX2_00018	2500 uL	1,4-Naphthoquinone	250 ppm
							1-Chloronaphthalene	250 ppm
							7,12-Dimethylbenz(a)anthracene	250 ppm
							Chlorobenzilate	250 ppm
							Dinoseb	250 ppm
							Ethyl methanesulfonate	250 ppm
							Hexachloropropene	250 ppm
							Isodrin	250 ppm
							Isosafrole Peak 1	40 ppm
							Isosafrole Peak 2	210 ppm
							Methyl methanesulfonate	250 ppm
							Pentachlorobenzene	250 ppm
					OP_RES_APPX3_00013	1250 uL	3-Methylcholanthrene	250 ppm
							6-Methylchrysene	250 ppm
					OP_RES_APPX4_00015	2500 uL	cis-Diallate	185 ppm
							Dimethoate	250 ppm
							Disulfoton	250 ppm
							Ethyl Parathion	250 ppm
							Methyl parathion	250 ppm
							o,o',o''-Triethylphosphorothioate	250 ppm
							Phorate	250 ppm
							Safrole, Total	250 ppm
							Sulfotepp	250 ppm
							Thionazin	250 ppm
							trans-Diallate	65 ppm
..MSS_AB_BZIDIN_00012	10/07/27		Absolute, Lot 100724		(Purchased Reagent)		Benzidine	5000 ug/mL
..OP_RES_APPX1_00018	01/31/26		Restek, Lot A0220647		(Purchased Reagent)		1,3,5-Trinitrobenzene	1000 ug/mL
							1,4-Dinitrobenzene	1000 ug/mL
							1-Naphthylamine	1000 ug/mL
							2-Acetylaminofluorene	1000 ug/mL
							2-Naphthylamine	1000 ug/mL
							2-Picoline	1000 ug/mL
							2-Toluidine	1000 ug/mL
							3,3'-Dimethylbenzidine	1000 ug/mL
							4,4'-Methylene bis(2-chloroaniline)	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Aminobiphenyl	1000 ug/mL
							4-Nitroquinoline-1-oxide	1000 ug/mL
							Dibenz[a,h]acridine	1000 ug/mL
							N-Nitro-o-toluidine	1000 ug/mL
							N-Nitrosodi-n-butylamine	1000 ug/mL
							N-Nitrosodiethylamine	1000 ug/mL
							N-Nitrosomethylethylamine	1000 ug/mL
							N-Nitrosomorpholine	1000 ug/mL
							N-Nitrosopiperidine	1000 ug/mL
							N-Nitrosopyrrolidine	1000 ug/mL
							p-Dimethylamino azobenzene	1000 ug/mL
							p-Phenylene diamine	1000 ug/mL
							Pentachloronitrobenzene	1000 ug/mL
							Phenacetin	1000 ug/mL
							Pronamide	1000 ug/mL
							Quinoline	1000 ug/mL
..OP_RES_APPX2_00018	12/31/25		Restek, Lot A0219845		(Purchased Reagent)		1,4-Naphthoquinone	1000 ug/mL
							1-Chloronaphthalene	1000 ug/mL
							7,12-Dimethylbenz(a)anthracene	1000 ug/mL
							Chlorobenzilate	1000 ug/mL
							Dinoseb	1000 ug/mL
							Ethyl methanesulfonate	1000 ug/mL
							Hexachloropropene	1000 ug/mL
							Isodrin	1000 ug/mL
							Isosafrole Peak 1	160 ug/mL
							Isosafrole Peak 2	840 ug/mL
							Methyl methanesulfonate	1000 ug/mL
							Pentachlorobenzene	1000 ug/mL
..OP_RES_APPX3_00013	12/31/25		Restek, Lot A0220331		(Purchased Reagent)		3-Methylcholanthrene	2000 ug/mL
							6-Methylchrysene	2000 ug/mL
..OP_RES_APPX4_00015	02/28/27		Restek, Lot A0222255		(Purchased Reagent)		cis-Diallate	740 ug/mL
							Dimethoate	1000 ug/mL
							Disulfoton	1000 ug/mL
							Ethyl Parathion	1000 ug/mL
							Methyl parathion	1000 ug/mL
							o,o',o''-Triethylphosphorothioate	1000 ug/mL
							Phorate	1000 ug/mL
							Safrole, Total	1000 ug/mL
							Sulfotepp	1000 ug/mL
							Thionazin	1000 ug/mL
							trans-Diallate	260 ug/mL
.MSS_8270_WS_00027	09/30/25	06/20/25	MeCl2, Lot 65052	10 mL	MSS_8270_SURR_00007	1250 uL	2,4,6-Tribromophenol (Surr)	500 ppm
							2-Fluorobiphenyl (Surr)	500 ppm
							2-Fluorophenol (Surr)	500 ppm
							Nitrobenzene-d5 (Surr)	500 ppm
							p-Terphenyl-d14 (Surr)	500 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5 (Surr)	500 ppm
					OP_Agi_LCSadd_00001	1250 uL	Alpha-Terpineol	250 ppm
							Dimethylformamide	250 ppm
							Octachlorostyrene	250 ppm
							Phenyl ether	250 ppm
					OP_RES_APPX6_00010	1250 uL	Dibenz[a,j]acridine	250 ppm
					OP_RES_LCS1_00023	2500 uL	1,1'-Biphenyl	250 ppm
							1,2,4,5-Tetrachlorobenzene	250 ppm
							1,2,4-Trichlorobenzene	250 ppm
							1,2-Dichlorobenzene	250 ppm
							1,2-Diphenylhydrazine	250 ppm
							1,3-Dichlorobenzene	250 ppm
							1,3-Dinitrobenzene	250 ppm
							1,4-Dichlorobenzene	250 ppm
							1,4-Dioxane	250 ppm
							1-Methylnaphthalene	250 ppm
							2,2'-oxybis[1-chloropropane]	250 ppm
							2,3,4,6-Tetrachlorophenol	250 ppm
							2,4,5-Trichlorophenol	250 ppm
							2,4,6-Trichlorophenol	250 ppm
							2,4-Dichlorophenol	250 ppm
							2,4-Dimethylphenol	250 ppm
							2,4-Dinitrophenol	500 ppm
							2,4-Dinitrotoluene	250 ppm
							2,6-Dichlorophenol	250 ppm
							2,6-Dinitrotoluene	250 ppm
							2-Chloronaphthalene	250 ppm
							2-Chlorophenol	250 ppm
							2-Methylnaphthalene	250 ppm
							2-Methylphenol	250 ppm
							2-Nitroaniline	250 ppm
							2-Nitrophenol	250 ppm
							3-Nitroaniline	250 ppm
							4,6-Dinitro-2-methylphenol	500 ppm
							4-Bromophenyl phenyl ether	250 ppm
							4-Chloro-3-methylphenol	250 ppm
							4-Chloroaniline	250 ppm
							4-Chlorophenyl phenyl ether	250 ppm
							4-Methylphenol	250 ppm
							4-Nitroaniline	250 ppm
							4-Nitrophenol	500 ppm
							Acenaphthene	250 ppm
							Acenaphthylene	250 ppm
							Acetophenone	250 ppm
							Aniline	250 ppm
							Anthracene	250 ppm

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	250 ppm
							Benzo[a]pyrene	250 ppm
							Benzo[b]fluoranthene	250 ppm
							Benzo[g,h,i]perylene	250 ppm
							Benzo[k]fluoranthene	250 ppm
							Benzyl alcohol	250 ppm
							Bis(2-chloroethoxy)methane	250 ppm
							Bis(2-chloroethyl)ether	250 ppm
							Bis(2-ethylhexyl) phthalate	250 ppm
							Butyl benzyl phthalate	250 ppm
							Carbazole	250 ppm
							Chrysene	250 ppm
							Di-n-butyl phthalate	250 ppm
							Di-n-octyl phthalate	250 ppm
							Dibenz(a,h)anthracene	250 ppm
							Dibenzofuran	250 ppm
							Diethyl phthalate	250 ppm
							Dimethyl phthalate	250 ppm
							Fluoranthene	250 ppm
							Fluorene	250 ppm
							Hexachlorobenzene	250 ppm
							Hexachlorobutadiene	250 ppm
							Hexachlorocyclopentadiene	250 ppm
							Hexachloroethane	250 ppm
							Indeno[1,2,3-cd]pyrene	250 ppm
							Isophorone	250 ppm
							N-Nitrosodi-n-propylamine	250 ppm
							N-Nitrosodimethylamine	250 ppm
							N-Nitrosodiphenylamine	212.5 ppm
							Naphthalene	250 ppm
							Nitrobenzene	250 ppm
							Pentachlorophenol	500 ppm
							Phenanthrene	250 ppm
							Phenol	250 ppm
							Pyrene	250 ppm
							Pyridine	500 ppm
					OP_RES_LCS2_00013	1250 uL	3,3'-Dichlorobenzidine	250 ppm
							Benzidine	250 ppm
..MSS_8270_SURR_00007	12/31/26	Sigma- Aldrich, Lot LRAD7196			(Purchased Reagent)		2,4,6-Tribromophenol (Surr)	4000 ug/mL
							2-Fluorobiphenyl (Surr)	4000 ug/mL
							2-Fluorophenol (Surr)	4000 ug/mL
							Nitrobenzene-d5 (Surr)	4000 ug/mL
							p-Terphenyl-d14 (Surr)	4000 ug/mL
							Phenol-d5 (Surr)	4000 ug/mL
..OP_Agi_LCSadd_00001	11/30/25	Restek, Lot 0006819172			(Purchased Reagent)		Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
..OP_RES_APPX6_00010	09/30/27		Restek, Lot A0216024		(Purchased Reagent)		Dibenz[a,j]acridine	2000 ug/mL
..OP_RES_LCS1_00023	09/30/25		Restek, Lot A0219584		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00013	11/30/25		Restek, Lot A0211034		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
.MSS_BAS_WS_00018	08/28/25	02/28/25	MeCl2, Lot 64313	5 mL	OP_LCSmix2stk_00010	250 uL	Atrazine	100 ppm
							Benzaldehyde	100 ppm
							Caprolactam	100 ppm
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL
							Caprolactam	2000 ug/mL
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270_IS_00111	12/24/25	06/24/25	MeCl2, Lot 65052	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	0.00025 ppm Molar
							Acenaphthene-d10	0.00025 ppm Molar
							Naphthalene-d8	0.00025 ppm Molar
							Perylene-d12	0.00025 ppm Molar
							Phenanthrene-d10	0.00025 ppm Molar
							Pyrene-d10 (IS)	0.00025 ppm Molar
.MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270ICV_00037	08/31/25	05/01/25	MeCl2, Lot 64327	2 mL	MSS_FV8270ICV_00044	500 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_FV8270ICV_00044	08/31/25	05/01/25	MeCl2, Lot 64327	5 mL	MSS_FV8270_IS_00007	100 uL	1,4-Dichlorobenzene-d4	20 ppm
							Acenaphthene-d10	20 ppm
							Naphthalene-d8	20 ppm
							Perylene-d12	20 ppm
							Phenanthrene-d10	20 ppm
							Pyrene-d10 (IS)	20 ppm
..MSS_FV8270_IS_00007	01/31/28		Restek, Lot A0221275		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RV8270ICV_00037	08/31/25	05/01/25	MeCl2, Lot 64327	2 mL	MSS_FV8270ICV_00044	500 uL	2,4-Dinitrotoluene	12.5 ppm
							2,6-Dinitrotoluene	12.5 ppm
							Diethyl phthalate	12.5 ppm

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSS_FV8270ICV_00044	08/31/25	05/01/25	MeCl2, Lot 64327	5 mL	MS_RES_ICV1_00010	250 uL	2,4-Dinitrotoluene	50 ppm
							2,6-Dinitrotoluene	50 ppm
							Diethyl phthalate	50 ppm
..MS_RES_ICV1_00010	10/31/25		Restek, Lot A0219885		(Purchased Reagent)		2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
MSS_RVDFTPP_00017							3 & 4 Methylphenol	
							4,4'-DDD	
							4,4'-DDE	
							Aramite, Total	
							Diallate	
							Diphenylamine	
							Isosafrole	
							m&p-Methylphenol	
							Tentatively Identified Compound	
							Total Cresols	
					MSS_AB_DFTPP_00016	625 uL	4,4'-DDT	12.5 ppm
							Benzidine_T	12.5 ppm
							DFTPP	12.5 ppm
							Pentachlorophenol_T	12.5 ppm
.MSS_AB_DFTPP_00016	07/20/25		Absolute, Lot 072022		(Purchased Reagent)		4,4'-DDT	500 ug/mL
							Benzidine_T	500 ug/mL
							DFTPP	500 ug/mL
							Pentachlorophenol_T	500 ug/mL
MSS_RVDFTPP_00018							3 & 4 Methylphenol	
							Aramite, Total	
							Diallate	
							Diphenylamine	
							Isosafrole	
							m&p-Methylphenol	
							Tentatively Identified Compound	
							Total Cresols	
					MSS_AB_DFTPP_00018	625 uL	4,4'-DDD	
							4,4'-DDE	
							4,4'-DDT	12.5 ppm
							Benzidine_T	12.5 ppm
							DFTPP	12.5 ppm
							Pentachlorophenol_T	12.5 ppm
.MSS_AB_DFTPP_00018	10/21/27		Absolute, Lot 102124		(Purchased Reagent)		4,4'-DDD	0 ug/mL
							4,4'-DDE	0 ug/mL
							4,4'-DDT	500 ug/mL
							Benzidine_T	500 ug/mL
							DFTPP	500 ug/mL
							Pentachlorophenol_T	500 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MSS_RVHCPICV_00011	12/10/25	06/24/25	MeCl2, Lot 65052	1 mL	MSS_RV8270_IS_00110	20 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSS_RVPDAICV_00007	12/10/25	06/24/25	MeCl2, Lot 65052	1 mL	MSS_RV8270_IS_00110	20 uL	1,4-Dichlorobenzene-d4	5 ppm
							Acenaphthene-d10	5 ppm
							Naphthalene-d8	5 ppm
							Perylene-d12	5 ppm
							Phenanthrene-d10	5 ppm
							Pyrene-d10 (IS)	5 ppm
.MSS_RV8270_IS_00110	12/10/25	06/10/25	MeCl2, Lot 65059	25 mL	MSS_FV8270_IS_00009	6250 uL	1,4-Dichlorobenzene-d4	250 ppm
							Acenaphthene-d10	250 ppm
							Naphthalene-d8	250 ppm
							Perylene-d12	250 ppm
							Phenanthrene-d10	250 ppm
							Pyrene-d10 (IS)	250 ppm
..MSS_FV8270_IS_00009	03/31/28		Restek, Lot A0223654		(Purchased Reagent)		1,4-Dichlorobenzene-d4	1000 ug/mL
							Acenaphthene-d10	1000 ug/mL
							Naphthalene-d8	1000 ug/mL
							Perylene-d12	1000 ug/mL
							Phenanthrene-d10	1000 ug/mL
							Pyrene-d10 (IS)	1000 ug/mL
MSV_CCV_CYC_00011	06/13/25	12/13/24	50/50 MeOH/Water, Lot EH471	200 mL	MSV_VCYC_STK_00014	8.884 mL	Cyclohexanone	6249.45 ug/mL
.MSV_VCYC_STK_00014	06/13/25	12/13/24	50/50 MeOH/Water, Lot EH471	10 mL	MSV_CYC_00010	1.4069 g	Cyclohexanone	140690 ug/mL
..MSV_CYC_00010	06/30/27		Chem Service, Lot 15471000		(Purchased Reagent)		Cyclohexanone	1 g/g
MSV_CCV_V5ACE_00049	06/29/25	05/30/25	Methanol, Lot EJ274	10 mL	MSV_AcetatesV_00089	1 mL	Acetonitrile	5000 ug/mL
							Ethyl acetate	1000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00089	11/30/25		Restek, Lot A0211993		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Ethyl acetate	10000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl acetate	10000 ug/mL
MSV_CCV_V5ACE_00050	07/13/25	06/13/25	Methanol, Lot EJ274	10 mL	MSV_AcetatesV_00092	1 mL	Acetonitrile	5000 ug/mL
							Vinyl acetate	1000 ug/mL
.MSV_AcetatesV_00092	12/13/25		Restek, Lot A0212300		(Purchased Reagent)		Acetonitrile	50000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_DME_00064	07/04/25		Restek, Lot A0220508		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_DME_00072	08/07/25		Restek, Lot A0220508		(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_HP25_ISO_00013	12/04/25	06/04/25	Methanol, Lot EJ274	10 mL	MSV_Cus826_IS_00741	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00741	10/31/26		Restek, Lot A0203141		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00023	05/31/21	02/08/21	Methanol, Lot DZ644	10 mL	MSV_8260_SS_00293	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00179	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_00293	03/31/22		Restek, Lot A0146938		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00179	05/31/21		Restek, Lot A0138205		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00114	12/04/25	06/04/25	Methanol, Lot EJ274	10 mL	MSV_8260_SS_01451	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
					MSV_Cus826_IS_00741	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_8260_SS_01451	10/31/29		Restek, Lot A0217887		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
.MSV_Cus826_IS_00741	10/31/26		Restek, Lot A0203141		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00116	01/08/26	07/08/25	Methanol, Lot EJ274	10 mL	MSV_Cus826_IS_00748	1 mL	1,4-Dichlorobenzene-d4	250 ug/mL
							Chlorobenzene-d5 (IS)	250 ug/mL
							Fluorobenzene (IS)	250 ug/mL
							t-Butyl alcohol-d10 (IS)	1250 ug/mL
.MSV_Cus826_IS_00748	10/31/26		Restek, Lot A0203141		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5 (IS)	2500 ug/mL
							Fluorobenzene (IS)	2500 ug/mL
							t-Butyl alcohol-d10 (IS)	12500 ug/mL
MSV_HP25_ISSS_00116	01/08/26	07/08/25	Methanol, Lot EJ274	10 mL	MSV_8260_SS_01483	1 mL	1,2-Dichloroethane-d4 (Surr)	250 ug/mL
							4-Bromofluorobenzene (Surr)	250 ug/mL
							Dibromofluoromethane (Surr)	250 ug/mL
							Toluene-d8 (Surr)	250 ug/mL
.MSV_8260_SS_01483	10/31/29		Restek, Lot A0217887		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
MSV_LCS_ACROL_00229	06/28/25	06/02/25	Methanol, Lot EH471	25 mL	MSV_LCS_ACR_00042	1 mL	Acrolein	292.631 ug/mL
.MSV_LCS_ACR_00042	06/28/25	04/29/25	Methanol, Lot EH822	10 mL	MSV_QACR_STK_00047	1.56 mL	Acrolein	7315.76 ug/mL
..MSV_QACR_STK_00047	06/28/25	04/29/25	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00040	0.5048 g	Acrolein	46895.9 ug/mL
...MSV_ACROLEIN_00040	08/31/25		Chem Service, Lot 15807600		(Purchased Reagent)		Acrolein	0.929 g/g
MSV_LCS_EE_00011	11/03/25	05/03/25	Methanol, Lot EH471	50 mL	MSV_QEE_MiscS_00015	0.061 mL	Ethyl ether	39.711 ug/mL
.MSV_QEE_MiscS_00015	11/03/25	05/03/25	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00013	0.3255 g	Ethyl ether	32550 ug/mL
..MSV_EE_Neat_00013	06/30/27		Chem Service, Lot 15507600		(Purchased Reagent)		Ethyl ether	1 g/g
MSV_LCS_V5ACE_00053	06/17/25	05/18/25	Methanol, Lot EJ274-US	50 mL	MSV_AcetatesQ_00079	1 mL	Acetonitrile	300 ug/mL
							Vinyl acetate	200 ug/mL
.MSV_AcetatesQ_00079	11/30/25		Restek, Lot A0211385		(Purchased Reagent)		Acetonitrile	15000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_LCS_V5ACE_00054	07/13/25	06/13/25	Methanol, Lot EJ274-US	50 mL	MSV_AcetatesQ_00085	1 mL	Acetonitrile	300 ug/mL
							Vinyl acetate	200 ug/mL
.MSV_AcetatesQ_00085	12/13/25		Restek, Lot A0211540		(Purchased Reagent)		Acetonitrile	15000 ug/mL
							Vinyl acetate	10000 ug/mL
MSV_LCS_VOC#1_00222	07/02/25	06/02/25	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00271	1 mL	1,1,1,2-Tetrachloroethane	40 ug/mL
							1,1,1-Trichloroethane	40 ug/mL
							1,1,2,2-Tetrachloroethane	40 ug/mL
							1,1,2-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							1,1-Dichloropropene	40 ug/mL
							1,2,3-Trichloropropane	40 ug/mL
							1,2,4-Trichlorobenzene	40 ug/mL
							1,2-Dichlorobenzene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	40 ug/mL
							1,2-Dichloropropane	40 ug/mL
							1,3-Dichlorobenzene	40 ug/mL
							1,3-Dichloropropane	40 ug/mL
							1,4-Dichlorobenzene	40 ug/mL
							2,2-Dichloropropane	40 ug/mL
							Benzene	40 ug/mL
							Bromochloromethane	40 ug/mL
							Bromodichloromethane	40 ug/mL
							Bromoform	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Chlorobenzene	40 ug/mL
							Chloroform	40 ug/mL
							cis-1,2-Dichloroethene	40 ug/mL
							cis-1,3-Dichloropropene	40 ug/mL
							Dibromochloromethane	40 ug/mL
							Dibromomethane	40 ug/mL
							Ethylbenzene	40 ug/mL
							Hexachlorobutadiene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Naphthalene	40 ug/mL
							Styrene	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							trans-1,2-Dichloroethene	40 ug/mL
							trans-1,3-Dichloropropene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00276	1 mL	2-Chloro-1,3-butadiene	40 ug/mL
							Acrylonitrile	200 ug/mL
							Allyl chloride	40 ug/mL
							Carbon disulfide	40 ug/mL
							Ethyl methacrylate	40 ug/mL
							Freon 113	40 ug/mL
							Isobutyl alcohol	1000 ug/mL
							Methacrylonitrile	300 ug/mL
							Methyl iodide	40 ug/mL
							Methyl methacrylate	40 ug/mL
							Propionitrile	300 ug/mL
							Tetrahydrofuran	200 ug/mL
							trans-1,4-Dichloro-2-butene	200 ug/mL
					MSV_Q_Ketones_00277	1 mL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
.MSV_M_MIX1SEC_00271	12/31/27		Restek, Lot A0225025		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Naphthalene	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00276	05/31/28		Restek, Lot A0225702		(Purchased Reagent)		2-Chloro-1,3-butadiene	1000 ug/mL
							Acrylonitrile	5000 ug/mL
							Allyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Freon 113	1000 ug/mL
							Isobutyl alcohol	25000 ug/mL
							Methacrylonitrile	7500 ug/mL
							Methyl iodide	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Propionitrile	7500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	5000 ug/mL
.MSV_Q_Ketones_00277	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
MSV_LCS_VOC#1_00227	08/06/25	07/07/25	Methanol, Lot EH471	25 mL	MSV_M_MIX1SEC_00273	1 mL	1,1,1-Trichloroethane	40 ug/mL
							1,1-Dichloroethane	40 ug/mL
							1,1-Dichloroethene	40 ug/mL
							Benzene	40 ug/mL
							Carbon tetrachloride	40 ug/mL
							Ethylbenzene	40 ug/mL
							Methylene Chloride	40 ug/mL
							Tetrachloroethene	40 ug/mL
							Toluene	40 ug/mL
							Trichloroethene	40 ug/mL
					MSV_M_MIX2SEC_00280	1 mL	Freon 113	40 ug/mL
							Tetrahydrofuran	200 ug/mL
					MSV_Q_Ketones_00285	1 mL	2-Butanone	500 ug/mL
.MSV_M_MIX1SEC_00273	12/31/27		Restek, Lot A0225025		(Purchased Reagent)		1,1,1-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							Benzene	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							Trichloroethene	1000 ug/mL
.MSV_M_MIX2SEC_00280	05/31/28		Restek, Lot A0225702		(Purchased Reagent)		Freon 113	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
.MSV_Q_Ketones_00285	04/30/27		Restek, Lot A0209876		(Purchased Reagent)		2-Butanone	12500 ug/mL
MSV_LL_#1_826_00168	06/28/25	06/04/25	Methanol, Lot EJ274	1 mL	MSV_CCV_VOC#1_00238	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1,4-Dioxane	2500 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							2-Nitropropane	250 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	125 ug/mL
							Allyl chloride	50 ug/mL
							Benzyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Freon 113	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Isopropyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl acetate	50 ug/mL
							Methyl iodide	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							n-Butanol	4375 ug/mL
							n-Heptane	50 ug/mL
							Propionitrile	1000 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
							Tetrahydrofuran	250 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00239	200 uL	Acrolein	2439.54 ug/mL
							2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00292	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	4375 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00238	07/02/25	06/02/25	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00234	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichlorobenzene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2,4-Trimethylbenzene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3,5-Trimethylbenzene	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							2-Chlorotoluene	1000 ug/mL
							4-Chlorotoluene	1000 ug/mL
							4-Isopropyltoluene	1000 ug/mL
							Benzene	1000 ug/mL
							Bromobenzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Ethylene Dibromide	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Isopropylbenzene	1000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methylene Chloride	1000 ug/mL
							n-Butylbenzene	1000 ug/mL
							N-Propylbenzene	1000 ug/mL
							Naphthalene	1000 ug/mL
							o-Xylene	1000 ug/mL
							sec-Butylbenzene	1000 ug/mL
							Styrene	1000 ug/mL
							tert-Butylbenzene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00232	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							1,3,5-Trichlorobenzene	1000 ug/mL
							1,4-Dioxane	12500 ug/mL
							1-Chlorohexane	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	1000 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Allyl chloride	1000 ug/mL
							Benzyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Cyclohexane	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Freon 113	1000 ug/mL
							Hexane	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Isopropyl ether	1000 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl acetate	1000 ug/mL
							Methyl iodide	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Methyl tert-butyl ether	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							n-Butanol	12500 ug/mL
							n-Heptane	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tert-amyl methyl ether	1000 ug/mL
							Tert-butyl ethyl ether	1000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00234	07/02/25		Restek, Lot A0211483		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Ethylene Dibromide	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00232	07/02/25	Restek, Lot A0212010			(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL
							1,4-Dioxane	62500 ug/mL
							1-Chlorohexane	5000 ug/mL
							2-Chloro-1,3-butadiene	5000 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							Acrylonitrile	12500 ug/mL
							Allyl chloride	5000 ug/mL
							Benzyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Freon 113	5000 ug/mL
							Hexane	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Isopropyl ether	5000 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl acetate	5000 ug/mL
							Methyl iodide	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							n-Butanol	62500 ug/mL
							n-Heptane	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00239	06/28/25	06/02/25	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00027	0.5 mL	Acrolein	12197.7 ug/mL
					MSV_V_Ketones_00230	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00027	06/28/25	04/29/25	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00047	9.072 mL	Acrolein	121977 ug/mL
...MSV_VACR_STK_00047	06/28/25	04/29/25	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00040	1.4473 g	Acrolein	134454 ug/mL
....MSV_ACROLEIN_00040	08/31/25	Chem Service, Lot 15807600			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00230	04/30/27	Restek, Lot A0210935			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00292	07/02/25	06/02/25	Methanol, Lot EH471	5 mL	MSV_V#2B_00428	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00428	05/31/26	Restek, Lot A0211456			(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#1_826_00170	07/30/25	06/30/25	Methanol, Lot EJ274	1 mL	MSV_CCV_VOC#1_00242	50 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							Benzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							Acrylonitrile	125 ug/mL
							Allyl chloride	50 ug/mL
							Carbon disulfide	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Freon 113	50 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl iodide	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Propionitrile	1000 ug/mL
							Tetrahydrofuran	250 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_CCV_VOC#3_00244	200 uL	Acrolein	2439.7 ug/mL
							2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
					MSV_V_VOA2_00296	150 uL	Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
.MSV_CCV_VOC#1_00242	07/30/25	06/30/25	Methanol, Lot EH471	5 mL	MSV_MegaMIX#1_00241	1 mL	1,1,1,2-Tetrachloroethane	1000 ug/mL
							1,1,1-Trichloroethane	1000 ug/mL
							1,1,2,2-Tetrachloroethane	1000 ug/mL
							1,1,2-Trichloroethane	1000 ug/mL
							1,1-Dichloroethane	1000 ug/mL
							1,1-Dichloroethene	1000 ug/mL
							1,1-Dichloropropene	1000 ug/mL
							1,2,3-Trichloropropane	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Dichloroethane	1000 ug/mL
							1,2-Dichloropropane	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dichloropropane	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							2,2-Dichloropropane	1000 ug/mL
							Benzene	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Bromodichloromethane	1000 ug/mL
							Bromoform	1000 ug/mL
							Carbon tetrachloride	1000 ug/mL
							Chlorobenzene	1000 ug/mL
							Chloroform	1000 ug/mL
							cis-1,2-Dichloroethene	1000 ug/mL
							cis-1,3-Dichloropropene	1000 ug/mL
							Dibromochloromethane	1000 ug/mL
							Dibromomethane	1000 ug/mL
							Ethylbenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Methylene Chloride	1000 ug/mL
							Naphthalene	1000 ug/mL
							Styrene	1000 ug/mL
							Tetrachloroethene	1000 ug/mL
							Toluene	1000 ug/mL
							trans-1,2-Dichloroethene	1000 ug/mL
							trans-1,3-Dichloropropene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	1000 ug/mL
					MSV_MegaMix#2_00241	1 mL	2-Chloro-1,3-butadiene	1000 ug/mL
							Acrylonitrile	2500 ug/mL
							Allyl chloride	1000 ug/mL
							Carbon disulfide	1000 ug/mL
							Ethyl methacrylate	1000 ug/mL
							Freon 113	1000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							Methyl iodide	1000 ug/mL
							Methyl methacrylate	1000 ug/mL
							Propionitrile	5000 ug/mL
							Tetrahydrofuran	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_MegaMIX#1_00241	07/30/25		Restek, Lot A0211483		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							Benzene	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Methylene Chloride	5000 ug/mL
							Naphthalene	5000 ug/mL
							Styrene	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
..MSV_MegaMix#2_00241	07/30/25	Restek, Lot A0212010			(Purchased Reagent)		2-Chloro-1,3-butadiene	5000 ug/mL
							Acrylonitrile	12500 ug/mL
							Allyl chloride	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Freon 113	5000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							Methyl iodide	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Propionitrile	25000 ug/mL
							Tetrahydrofuran	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_CCV_VOC#3_00244	07/30/25	06/30/25	Methanol, Lot EH471	5 mL	MSV_CCV_ACR_00028	0.5 mL	Acrolein	12198.5 ug/mL
					MSV_V_Ketones_00238	1 mL	2-Butanone	2500 ug/mL
							2-Hexanone	2500 ug/mL
							4-Methyl-2-pentanone	2500 ug/mL
							Acetone	2500 ug/mL
..MSV_CCV_ACR_00028	08/18/25	06/19/25	Methanol, Lot EH471	10 mL	MSV_VACR_STK_00048	9.042 mL	Acrolein	121985 ug/mL
...MSV_VACR_STK_00048	08/18/25	06/19/25	Methanol, Lot EH471	10 mL	MSV_ACROLEIN_00041	1.4522 g	Acrolein	134909 ug/mL
....MSV_ACROLEIN_00041	08/31/25	Chem Service, Lot 15807600			(Purchased Reagent)		Acrolein	0.929 g/g
..MSV_V_Ketones_00238	04/30/27	Restek, Lot A0210935			(Purchased Reagent)		2-Butanone	12500 ug/mL
							2-Hexanone	12500 ug/mL
							4-Methyl-2-pentanone	12500 ug/mL
							Acetone	12500 ug/mL
.MSV_V_VOA2_00296	07/30/25	06/30/25	Methanol, Lot EH471	5 mL	MSV_V#2B_00426	1 mL	Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00426	05/31/26	Restek, Lot A0211456			(Purchased Reagent)		Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
MSV_LL_#2_826_00181	06/26/25	06/01/25	Methanol, Lot EJ274	1 mL	CCV_ETBR_00009	50 uL	Ethyl bromide	49.9488 ug/mL
					MSV_BCE_00082	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_CCV_EE_00009	50 uL	Ethyl ether	50.0166 ug/mL
					MSV_V_PentaCL_00052	10 uL	Pentachloroethane	50 ug/mL
.CCV_ETBR_00009	11/06/25	05/06/25	Methanol, Lot EH471	10 mL	MSV_VETBR_STK_00018	0.344 mL	Ethyl bromide	998.976 ug/mL
..MSV_VETBR_STK_00018	11/06/25	05/06/25	Methanol, Lot EH471	10 mL	MSV_EtBr_00012	0.2904 g	Ethyl bromide	29040 ug/mL
...MSV_EtBr_00012	10/31/27	Chem Service, Lot 15732400			(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_BCE_00082	07/01/25	Restek, Lot A0201612			(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_CCV_EE_00009	11/03/25	05/03/25	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00016	1.502 mL	Ethyl ether	1000.33 ug/mL
..MSV_EE_MISCSK_00016	11/03/25	05/03/25	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00013	0.333 g	Ethyl ether	33300 ug/mL
...MSV_EE_Neat_00013	06/30/27	Chem Service, Lot 15507600			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_PentaCL_00052	06/26/25	Restek, Lot A0197490			(Purchased Reagent)		Pentachloroethane	5000 ug/mL
MSV_LL_#2_826_00184	07/23/25	06/30/25	Methanol, Lot EJ274	1 mL	MSV_CCV_EE_00009	50 uL	Ethyl ether	50.0166 ug/mL
.MSV_CCV_EE_00009	11/03/25	05/03/25	Methanol, Lot EH471	50 mL	MSV_EE_MISCSK_00016	1.502 mL	Ethyl ether	1000.33 ug/mL
..MSV_EE_MISCSK_00016	11/03/25	05/03/25	Methanol, Lot EH471	10 mL	MSV_EE_Neat_00013	0.333 g	Ethyl ether	33300 ug/mL
...MSV_EE_Neat_00013	06/30/27	Chem Service, Lot 15507600			(Purchased Reagent)		Ethyl ether	1 g/g
MSV_LL_GAS826_00274	06/11/25	06/04/25	Methanol, Lot EJ274	1 mL	MSV_CCV_GASES_01016	25 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL
							Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_01016	06/11/25	Restek, Lot A0212054			(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	2000 ug/mL
							Bromomethane	2000 ug/mL
							Butadiene	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_LL_GAS826_00279	07/14/25	07/07/25	Methanol, Lot EJ274	1 mL	MSV_CCV_GASES_01070	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_CCV_GASES_01070	07/14/25	Restek, Lot A0212054			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_Q_QARC_00077	05/12/21	04/12/21	Methanol, Lot DX212	25 mL	MSV_QACR_00022	1 mL	Acrolein	299.945 mg/L
.MSV_QACR_00022	06/05/21	04/06/21	Methanol, Lot DX212	10 mL	MSV_QACR_STK_00015	1.56 mL	Acrolein	7498.62 ug/mL
..MSV_QACR_STK_00015	06/05/21	04/06/21	Methanol, Lot DX212	10 mL	MSV_ACROLEIN_00011	0.513 g	Acrolein	48068.1 ug/mL
...MSV_ACROLEIN_00011	09/30/21	Chem Service, Lot 10804400			(Purchased Reagent)		Acrolein	0.937 g/g
MSV_Q_QDME_00013	04/24/21	03/25/21	Methanol, Lot DZ644	1 mL	MSV_DME_00027	100 uL	Dimethyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.MSV_DME_00027	04/24/21	Absolute Standards, Inc, Lot 081920			(Purchased Reagent)		Dimethyl ether	1000 ug/mL
MSV_Q_VOA5_00025	05/31/21	03/31/21	Methanol, Lot DZ644	25 mL	MSV_QAcetate_00023	1.25 mL	Vinyl acetate	50 ug/mL
.MSV_QAcetate_00023	05/31/21	Restek, Lot A0155415			(Purchased Reagent)		Vinyl acetate	1000 ug/mL
MSV_QAcet_00012	04/21/21	10/21/20	Methanol, Lot DX212	50 mL	MSV_QAcet_IT2_00001	0.5 mL	Acetonitrile	499.919 ug/mL
.MSV_QAcet_IT2_00001	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_QAcet_MSK_00006	2.826 g	Acetonitrile	49991.9 ug/mL
..MSV_QAcet_MSK_00006	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_Acet_00007	1.769 g	Acetonitrile	176900 ug/mL
...MSV_Acet_00007	04/30/22	Chem Service, Lot 9195700			(Purchased Reagent)		Acetonitrile	1 g/g
MSV_QC_Gas826_00263	06/09/25	06/03/25	Methanol, Lot EJ274	1 mL	MSV_QC_2K_GAS_00303	20 uL	Bromomethane	40 ug/mL
							Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00303	06/09/25	Restek, Lot A0211460			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_QC_Gas826_00268	07/14/25	07/07/25	Methanol, Lot EJ274	1 mL	MSV_QC_2K_GAS_00310	20 uL	Chloroethane	40 ug/mL
							Chloromethane	40 ug/mL
							Dichlorodifluoromethane	40 ug/mL
							Trichlorofluoromethane	40 ug/mL
							Vinyl chloride	40 ug/mL
.MSV_QC_2K_GAS_00310	07/14/25	Restek, Lot A0211460			(Purchased Reagent)		Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_RV1_826_00041	03/31/21	03/08/21	Methanol, Lot DZ644	1 mL	MSV_V#1B_00146	10 uL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromochloromethane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	100 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					MSV_V#2B_00197	10 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V#4C_00126	10 uL	1,2-Dichloro-1,1,2-trifluoroethane	50 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	50 ug/mL
							Benzyl chloride	50 ug/mL
							Butadiene	50 ug/mL
							Carbon disulfide	50 ug/mL
							Cyclohexane	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Freon 113	50 ug/mL
							Hexane	50 ug/mL
							Isopropyl ether	50 ug/mL
							Methyl iodide	50 ug/mL
							Methyl methacrylate	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							n-Heptane	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Tert-butyl ethyl ether	50 ug/mL
					MSV_V_VOA2_00074	150 uL	1,4-Dioxane	2500 ug/mL
							2-Methyl-2-propanol	1000 ug/mL
							Isobutyl alcohol	2500 ug/mL
							Methacrylonitrile	500 ug/mL
							n-Butanol	5000 ug/mL
							Propionitrile	1000 ug/mL
							trans-1,4-Dichloro-2-butene	500 ug/mL
					MSV_V_VOA3_00072	100 uL	2-Butanone	500 ug/mL
							2-Hexanone	500 ug/mL
							2-Nitropropane	500 ug/mL
							4-Methyl-2-pentanone	500 ug/mL
							Acetone	500 ug/mL
							Acrylonitrile	250 ug/mL
							Tetrahydrofuran	500 ug/mL
							Acrolein	2499.89 ug/mL
.MSV_V#1B_00146	03/31/23		Restek, Lot A0158586		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	5000 ug/mL
							1,1,1-Trichloroethane	5000 ug/mL
							1,1,2,2-Tetrachloroethane	5000 ug/mL
							1,1,2-Trichloroethane	5000 ug/mL
							1,1-Dichloroethane	5000 ug/mL
							1,1-Dichloroethene	5000 ug/mL
							1,1-Dichloropropene	5000 ug/mL
							1,2,3-Trichlorobenzene	5000 ug/mL
							1,2,3-Trichloropropane	5000 ug/mL
							1,2,4-Trichlorobenzene	5000 ug/mL
							1,2,4-Trimethylbenzene	5000 ug/mL
							1,2-Dibromo-3-Chloropropane	5000 ug/mL
							1,2-Dichlorobenzene	5000 ug/mL
							1,2-Dichloroethane	5000 ug/mL
							1,2-Dichloropropane	5000 ug/mL
							1,3,5-Trichlorobenzene	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	5000 ug/mL
							1,3-Dichlorobenzene	5000 ug/mL
							1,3-Dichloropropane	5000 ug/mL
							1,4-Dichlorobenzene	5000 ug/mL
							1-Chlorohexane	5000 ug/mL
							2,2-Dichloropropane	5000 ug/mL
							2-Chlorotoluene	5000 ug/mL
							4-Chlorotoluene	5000 ug/mL
							4-Isopropyltoluene	5000 ug/mL
							Benzene	5000 ug/mL
							Bromobenzene	5000 ug/mL
							Bromodichloromethane	5000 ug/mL
							Bromoform	5000 ug/mL
							Carbon tetrachloride	5000 ug/mL
							Chlorobenzene	5000 ug/mL
							Chloroform	5000 ug/mL
							cis-1,2-Dichloroethene	5000 ug/mL
							cis-1,3-Dichloropropene	5000 ug/mL
							Dibromochloromethane	5000 ug/mL
							Dibromomethane	5000 ug/mL
							Ethylbenzene	5000 ug/mL
							Ethylene Dibromide	5000 ug/mL
							Hexachlorobutadiene	5000 ug/mL
							Isopropylbenzene	5000 ug/mL
							m-Xylene & p-Xylene	10000 ug/mL
							Methylene Chloride	5000 ug/mL
							n-Butylbenzene	5000 ug/mL
							N-Propylbenzene	5000 ug/mL
							Naphthalene	5000 ug/mL
							o-Xylene	5000 ug/mL
							sec-Butylbenzene	5000 ug/mL
							Styrene	5000 ug/mL
							tert-Butylbenzene	5000 ug/mL
							Tetrachloroethene	5000 ug/mL
							Toluene	5000 ug/mL
							trans-1,2-Dichloroethene	5000 ug/mL
							trans-1,3-Dichloropropene	5000 ug/mL
							Trichloroethene	5000 ug/mL
.MSV_V#2B_00197	04/07/21		Restek, Lot A0159694		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_V#4C_00126	03/31/21		Restek, Lot A0158660		(Purchased Reagent)		1,2-Dichloro-1,1,2-trifluoroethane	5000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloro-1,3-butadiene	5000 ug/mL
							Benzyl chloride	5000 ug/mL
							Butadiene	5000 ug/mL
							Carbon disulfide	5000 ug/mL
							Cyclohexane	5000 ug/mL
							Ethyl methacrylate	5000 ug/mL
							Freon 113	5000 ug/mL
							Hexane	5000 ug/mL
							Isopropyl ether	5000 ug/mL
							Methyl iodide	5000 ug/mL
							Methyl methacrylate	5000 ug/mL
							Methyl tert-butyl ether	5000 ug/mL
							n-Heptane	5000 ug/mL
							Tert-amyl methyl ether	5000 ug/mL
							Tert-butyl ethyl ether	5000 ug/mL
.MSV_V_VOA2_00074	04/07/21	03/08/21	Methanol, Lot DZ644	5 mL	MSV_V#2B_00198	1 mL	1,4-Dioxane	12500 ug/mL
							2-Methyl-2-propanol	5000 ug/mL
							Isobutyl alcohol	12500 ug/mL
							Methacrylonitrile	2500 ug/mL
							n-Butanol	25000 ug/mL
							Propionitrile	5000 ug/mL
							trans-1,4-Dichloro-2-butene	2500 ug/mL
..MSV_V#2B_00198	04/07/21		Restek, Lot A0159694		(Purchased Reagent)		1,4-Dioxane	62500 ug/mL
							2-Methyl-2-propanol	25000 ug/mL
							Isobutyl alcohol	62500 ug/mL
							Methacrylonitrile	12500 ug/mL
							n-Butanol	125000 ug/mL
							Propionitrile	25000 ug/mL
							trans-1,4-Dichloro-2-butene	12500 ug/mL
.MSV_V_VOA3_00072	04/07/21	03/08/21	Methanol, Lot DZ644	5 mL	MSV_V#3B_00085	1 mL	2-Butanone	5000 ug/mL
							2-Hexanone	5000 ug/mL
							2-Nitropropane	5000 ug/mL
							4-Methyl-2-pentanone	5000 ug/mL
							Acetone	5000 ug/mL
							Acrylonitrile	2500 ug/mL
							Tetrahydrofuran	5000 ug/mL
					MSV_VACR_00015	1 mL	Acrolein	24998.9 ug/mL
..MSV_V#3B_00085	04/07/21		Restek, Lot A0158677		(Purchased Reagent)		2-Butanone	25000 ug/mL
							2-Hexanone	25000 ug/mL
							2-Nitropropane	25000 ug/mL
							4-Methyl-2-pentanone	25000 ug/mL
							Acetone	25000 ug/mL
							Acrylonitrile	12500 ug/mL
							Tetrahydrofuran	25000 ug/mL
..MSV_VACR_00015	04/11/21	02/10/21	Methanol, Lot DZ644	10 mL	MSV_VACR_STK_00017	9.135 mL	Acrolein	124994 ug/mL
...MSV_VACR_STK_00017	04/11/21	02/10/21	Methanol, Lot DZ644	10 mL	MSV_ACROLEIN_00010	1.4603 g	Acrolein	136830 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....MSV_ACROLEIN_00010	09/30/21	Chem Service, Lot 10804400			(Purchased Reagent)		Acrolein	0.937 g/g
MSV_RV4_826_00047	03/24/21	03/11/21	Methanol, Lot DZ644	1 mL	MSV_BCE_00025	25 uL	1-Bromo-2-chloroethane	50 ug/mL
					MSV_V_EE_00004	50 uL	Ethyl ether	50.0108 ug/mL
					MSV_V_ETBR_00009	50 uL	Ethyl bromide	50.024 ug/mL
					MSV_V_VOA6_00078	50 uL	1,2,3-Trimethylbenzene	50 ug/mL
							Allyl chloride	50 ug/mL
							Bromochloromethane	50 ug/mL
							Methyl acetate	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Pentachloroethane	50 ug/mL
.MSV_BCE_00025	03/24/21	Restek, Lot A0161419			(Purchased Reagent)		1-Bromo-2-chloroethane	2000 ug/mL
.MSV_V_EE_00004	04/21/21	10/21/20	Methanol, Lot DX212	100 mL	MSV_EE_MISCSK_00005	1.434 mL	Ethyl ether	1000.22 ug/mL
..MSV_EE_MISCSK_00005	04/21/21	10/21/20	Methanol, Lot DX212	10 mL	MSV_EE_Neat_00003	0.6975 g	Ethyl ether	69750 ug/mL
...MSV_EE_Neat_00003	11/30/21	Chem Service, Lot 7967000			(Purchased Reagent)		Ethyl ether	1 g/g
.MSV_V_ETBR_00009	06/29/21	12/29/20	Methanol, Lot DZ644	10 mL	MSV_VETBR_STK_00008	0.481 mL	Ethyl bromide	1000.48 ug/mL
..MSV_VETBR_STK_00008	06/29/21	12/29/20	Methanol, Lot DZ644	10 mL	MSV_EtBr_00002	0.208 g	Ethyl bromide	20800 ug/mL
...MSV_EtBr_00002	05/31/23	Chem Service, Lot 10795800			(Purchased Reagent)		Ethyl bromide	1 g/g
.MSV_V_VOA6_00078	04/07/21	03/08/21	Methanol, Lot DZ644	5 mL	MSV_V#6_00062	1 mL	1,2,3-Trimethylbenzene	1000 ug/mL
							Allyl chloride	1000 ug/mL
							Bromochloromethane	1000 ug/mL
							Methyl acetate	1000 ug/mL
							Methylcyclohexane	1000 ug/mL
							Pentachloroethane	1000 ug/mL
..MSV_V#6_00062	04/07/21	Restek, Lot A0158625			(Purchased Reagent)		1,2,3-Trimethylbenzene	5000 ug/mL
							Allyl chloride	5000 ug/mL
							Bromochloromethane	5000 ug/mL
							Methyl acetate	5000 ug/mL
							Methylcyclohexane	5000 ug/mL
							Pentachloroethane	5000 ug/mL
MSV_RV4GAS826_00118	03/18/21	03/11/21	Methanol, Lot DZ644	1 mL	MSV_DCFM_00035	25 uL	Dichlorofluoromethane	50 ug/mL
					MSV_V_Gas_00216	25 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.MSV_DCFM_00035	03/24/21	AccuStandard, Lot 220101035			(Purchased Reagent)		Dichlorofluoromethane	2000 ug/mL
.MSV_V_Gas_00216	03/18/21	Restek, Lot A0159812			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
MSV_V_BFB_00004							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00005	0.124 mL	BFB	49.8282 ug/mL
.MSV_VBFB_STK_00005	07/14/21	01/14/21	Methanol, Lot DZ644	10 mL	MSV_4BFB_NEAT_00004	1.0046 g	BFB	100460 ug/mL
..MSV_4BFB_NEAT_00004	02/28/25		Chem Service, Lot 10727100		(Purchased Reagent)		BFB	1 g/g
MSV_V_BFB_00019							1,2-Dichloroethene, Total	
							1,3-Dichloropropene, Total	
							Tentatively Identified Compound	
							Xylenes, Total	
					MSV_VBFB_STK_00014	0.246 mL	BFB	49.9183 ug/mL
.MSV_VBFB_STK_00014	11/22/25	05/22/25	Methanol, Lot EH471	10 mL	MSV_4BFB_NEAT_00013	0.5073 g	BFB	50730 ug/mL
..MSV_4BFB_NEAT_00013	06/30/29		Chem Service, Lot 16054300		(Purchased Reagent)		BFB	1 g/g
MSV_V_SMRV4_00088	07/02/25	06/04/25	Methanol, Lot EJ274	1 mL	MSV_CCV_2CEVE_00230	200 uL	2-Chloroethyl vinyl ether	200 ug/mL
					MSV_CCV_LKB_00013	400 uL	cis-1,4-Dichloro-2-butene	399.883 ug/mL
					MSV_V_SMFreon_00062	100 uL	Chlorodifluoromethane	200 ug/mL
.MSV_CCV_2CEVE_00230	07/02/25	06/02/25	Methanol, Lot EH471	5 mL	MSV_V_2CLEVE_00240	1 mL	2-Chloroethyl vinyl ether	1000 ug/mL
..MSV_V_2CLEVE_00240	05/31/27		Restek, Lot A0211425		(Purchased Reagent)		2-Chloroethyl vinyl ether	5000 ug/mL
.MSV_CCV_LKB_00013	09/06/25	03/06/25	Methanol, Lot EH471	50 mL	MSV_Vc14d_STK_00013	1.274 mL	cis-1,4-Dichloro-2-butene	999.708 ug/mL
..MSV_Vc14d_STK_00013	09/06/25	03/06/25	Methanol, Lot EH471	10 mL	MSV_c14dcb_Nt_00004	0.413 g	cis-1,4-Dichloro-2-butene	39235 ug/mL
...MSV_c14dcb_Nt_00004	08/16/27		Aldrich, Lot SHBH4584V		(Purchased Reagent)		cis-1,4-Dichloro-2-butene	0.95 g/g
.MSV_V_SMFreon_00062	07/03/25		Restek, Lot A0197864		(Purchased Reagent)		Chlorodifluoromethane	2000 ug/mL
MT_HNO3_FI_00018	02/17/30		ThermoFisher Scientific, Lot 245385		(Purchased Reagent)		Nitric acid	69.7 %
MT_LCS-SPK-A_00053	04/03/26		Inorganic Ventures, Lot V2-MEB751664		(Purchased Reagent)		Al	1250 mg/L
							Arsenic	125 mg/L
							B	125 mg/L
							Barium	125 mg/L
							Beryllium	12.5 mg/L
							Ca	1250 mg/L
							Cadmium	12.5 mg/L
							Chromium	125 mg/L
							Cobalt	125 mg/L
							Copper	125 mg/L
							Fe	1250 mg/L
							K	1250 mg/L
							Lead	12.5 mg/L
							Li	125 mg/L
							Mg	1250 mg/L
							Mn	125 mg/L
							Na	1250 mg/L
							Nickel	125 mg/L
							P	125 mg/L
							Se	25 mg/L
							Silver	12.5 mg/L

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sr	12.5 mg/L
							Sulfur	1250 mg/L
							Th	125 mg/L
							Tl	25 mg/L
							U	12.5 mg/L
							Vanadium	125 mg/L
							Zinc	125 mg/L
MT_LCS-SPK-B_00052	05/07/26	Inorganic Ventures, Lot V2-MEB751665			(Purchased Reagent)		Mo	12.5 mg/L
							Sb	25 mg/L
							Si	1250 mg/L
							Sn	25 mg/L
							Ti	125 mg/L
							W	125 mg/L
							Zr	125 mg/L
MT_MJ_CCV_00229	08/07/25	07/07/25	DI Water, Lot DI06242024	5 L	MT_S_MSSPK-A_00006	2.5 mL	Arsenic	249.95 ppb
							Barium	250 ppb
							Beryllium	24.99 ppb
							Cadmium	24.995 ppb
							Chromium	249.95 ppb
							Cobalt	250.1 ppb
							Copper	250 ppb
							Lead	25 ppb
							Nickel	249.95 ppb
							Silver	25 ppb
							Vanadium	250 ppb
							Zinc	250.05 ppb
.MT_S_MSSPK-A_00006	07/07/26	Inorganic Ventures, Lot U2-MEB728823			(Purchased Reagent)		Arsenic	499.9 ug/mL
							Barium	500 ug/mL
							Beryllium	49.98 ug/mL
							Cadmium	49.99 ug/mL
							Chromium	499.9 ug/mL
							Cobalt	500.2 ug/mL
							Copper	500 ug/mL
							Lead	50 ug/mL
							Nickel	499.9 ug/mL
							Silver	50 ug/mL
							Vanadium	500 ug/mL
							Zinc	500.1 ug/mL
MT_MJ_CRI-V_00218	08/09/25	07/09/25	J, Lot 7996167	1 L	MT_MJ_1V_IV_00033	1.5 mL	Vanadium	2.0025 ug/L
					MT_S_MWLLC_SC_00009	1 mL	Arsenic	2.02 ug/L
							Barium	1.99 ug/L
							Beryllium	0.499 ug/L
							Cadmium	0.496 ug/L
							Chromium	2 ug/L
							Cobalt	0.504 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Copper	0.999 ug/L
							Lead	0.503 ug/L
							Nickel	1 ug/L
							Silver	0.496 ug/L
							Vanadium	2.0025 ug/L
							Zinc	10 ug/L
.MT_MJ_1V_IV_00033	09/09/25	07/09/25	J, Lot 7996167	100 mL	MT_1KV_PIV_00008	0.1 mL	Vanadium	1.001 mg/L
..MT_1KV_PIV_00008	09/14/25	HPS, Lot 2413810-100			(Purchased Reagent)		Vanadium	1001 mg/L
.MT_S_MWLLC_SC_00009	12/09/25	Inorganic Ventures, Lot V2-MEB748176			(Purchased Reagent)		Arsenic	2.02 ug/mL
							Barium	1.99 ug/mL
							Beryllium	0.499 ug/mL
							Cadmium	0.496 ug/mL
							Chromium	2 ug/mL
							Cobalt	0.504 ug/mL
							Copper	0.999 ug/mL
							Lead	0.503 ug/mL
							Nickel	1 ug/mL
							Silver	0.496 ug/mL
							Vanadium	0.501 ug/mL
							Zinc	10 ug/mL
MT_MJ_ICSA_00142	08/04/25	07/04/25	J, Lot 7345515	500 mL	MT_S_ICS2A_IV_00019	50 mL	Al	100 ug/mL
							Arsenic	0.0085 ug/mL
							Barium	0.00039 ug/mL
							Beryllium	0.00002 ug/mL
							Ca	300 ug/mL
							Cadmium	0.00048 ug/mL
							Chromium	0.0032 ug/mL
							Cobalt	0.00022 ug/mL
							Copper	0.00086 ug/mL
							Fe	250.1 ug/mL
							K	100 ug/mL
							Lead	0.00012 ug/mL
							Mg	100 ug/mL
							Mn	0.0005 ug/mL
							Mo	2.001 ug/mL
							Na	250.1 ug/mL
							Nickel	0.0012 ug/mL
							Sb	0.00014 ug/mL
							Se	0.00058 ug/mL
							Silver	0.0002 ug/mL
							Sn	0.00006 ug/mL
							Sr	0.0017 ug/mL
							Ti	2.001 ug/mL
							Tl	0.00001 ug/mL
							U	0.00012 ug/mL
							Vanadium	0.00046 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Zinc	0.00045 ug/mL
.MT_S_ICS2A_IV_00019	10/28/25	Inorganic Ventures, Lot U2-MEB731104			(Purchased Reagent)		Al	1000 ug/mL
							Arsenic	0.085 ug/mL
							Barium	0.0039 ug/mL
							Beryllium	0.0002 ug/mL
							Ca	3000 ug/mL
							Cadmium	0.0048 ug/mL
							Chromium	0.032 ug/mL
							Cobalt	0.0022 ug/mL
							Copper	0.0086 ug/mL
							Fe	2501 ug/mL
							K	1000 ug/mL
							Lead	0.0012 ug/mL
							Mg	1000 ug/mL
							Mn	0.005 ug/mL
							Mo	20.01 ug/mL
							Na	2501 ug/mL
							Nickel	0.012 ug/mL
							Sb	0.0014 ug/mL
							Se	0.0058 ug/mL
							Silver	0.002 ug/mL
							Sn	0.0006 ug/mL
							Sr	0.017 ug/mL
							Ti	20.01 ug/mL
							Tl	0.0001 ug/mL
							U	0.0012 ug/mL
							Vanadium	0.0046 ug/mL
							Zinc	0.0045 ug/mL
MT_MJ_ICSAB_00123	07/10/25	06/10/25	J, Lot 7345515	500 mL	MT_S_ICS2A_IV_00024	50 mL	Al	100 ug/mL
							Ca	300 ug/mL
							Fe	250 ug/mL
							K	100 ug/mL
							Mg	100 ug/mL
							Mo	2 ug/mL
							Na	250 ug/mL
							Sr	0.0028 ug/mL
							Ti	2 ug/mL
					MT_S_ICS2B_IV_00007	5 mL	Arsenic	0.1 ug/mL
							Cadmium	0.1 ug/mL
							Chromium	0.2001 ug/mL
							Cobalt	0.2001 ug/mL
							Copper	0.2001 ug/mL
							Mn	0.2001 ug/mL
							Nickel	0.2001 ug/mL
							Se	0.1 ug/mL
							Silver	0.05002 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vanadium	0.2001 ug/mL
							Zinc	0.1 ug/mL
.MT_S_ICS2A_IV_00024	02/05/29	Inorganic Ventures, Lot U2-MEB741286			(Purchased Reagent)		Al	1000 ug/mL
							Ca	3000 ug/mL
							Fe	2500 ug/mL
							K	1000 ug/mL
							Mg	1000 ug/mL
							Mo	20 ug/mL
							Na	2500 ug/mL
							Sr	0.028 ug/mL
							Ti	20 ug/mL
.MT_S_ICS2B_IV_00007	10/11/25	Inorganic Ventures, Lot S2-MEB711470			(Purchased Reagent)		Arsenic	10 ug/mL
							Cadmium	10 ug/mL
							Chromium	20.01 ug/mL
							Cobalt	20.01 ug/mL
							Copper	20.01 ug/mL
							Mn	20.01 ug/mL
							Nickel	20.01 ug/mL
							Se	10 ug/mL
							Silver	5.002 ug/mL
							Vanadium	20.01 ug/mL
							Zinc	10 ug/mL
MT_MJ_ICV_00140	08/03/25	07/03/25	J, Lot 7726600	1 L	MT_S_ICVSPK-A_00007	1 mL	Arsenic	250 ppb
							Barium	250 ppb
							Beryllium	25 ppb
							Cadmium	25 ppb
							Chromium	250 ppb
							Cobalt	250 ppb
							Copper	250 ppb
							Lead	25 ppb
							Nickel	250 ppb
							Silver	25 ppb
							Vanadium	250 ppb
							Zinc	250 ppb
.MT_S_ICVSPK-A_00007	10/25/25	High-Purity Standards, Lot U2-MEB728821			(Purchased Reagent)		Arsenic	250 ug/mL
							Barium	250 ug/mL
							Beryllium	25 ug/mL
							Cadmium	25 ug/mL
							Chromium	250 ug/mL
							Cobalt	250 ug/mL
							Copper	250 ug/mL
							Lead	25 ug/mL
							Nickel	250 ug/mL
							Silver	25 ug/mL
							Vanadium	250 ug/mL
							Zinc	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MT_MJ_LRC_00127	07/30/25	06/30/25	J, Lot 7726600	0.5 L	MT_I_CCVSPK-A_00007	10 mL	Arsenic	2000 ppb
							Barium	2000 ppb
							Beryllium	2000 ppb
							Cadmium	2000 ppb
							Chromium	2000 ppb
							Cobalt	2000 ppb
							Copper	2000 ppb
							Lead	2000 ppb
							Nickel	2000 ppb
							Silver	2000 ppb
							Vanadium	2000 ppb
							Zinc	2000 ppb
.MT_I_CCVSPK-A_00007	08/15/25	Inorganic Ventures, Lot V2-MEB742653			(Purchased Reagent)		Arsenic	100 mg/L
							Barium	100 mg/L
							Beryllium	100 mg/L
							Cadmium	100 mg/L
							Chromium	100 mg/L
							Cobalt	100 mg/L
							Copper	100 mg/L
							Lead	100 mg/L
							Nickel	100 mg/L
							Silver	100 mg/L
							Vanadium	100 mg/L
							Zinc	100 mg/L
MT_MJ_S1_00160	08/08/25	07/08/25	J, Lot 6433706	500 mL/100g	MT_S_MSSPK-A_00006	0.5 mL	Arsenic	0.04999 ppb
							Barium	0.05 ppb
							Beryllium	0.004998 ppb
							Cadmium	0.004999 ppb
							Chromium	0.04999 ppb
							Cobalt	0.05002 ppb
							Copper	0.05 ppb
							Lead	0.005 ppb
							Nickel	0.04999 ppb
							Silver	0.005 ppb
							Vanadium	0.05 ppb
							Zinc	0.05001 ppb
.MT_S_MSSPK-A_00006	07/07/26	Inorganic Ventures, Lot U2-MEB728823			(Purchased Reagent)		Arsenic	499.9 ug/mL
							Barium	500 ug/mL
							Beryllium	49.98 ug/mL
							Cadmium	49.99 ug/mL
							Chromium	499.9 ug/mL
							Cobalt	500.2 ug/mL
							Copper	500 ug/mL
							Lead	50 ug/mL
							Nickel	499.9 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Silver	50 ug/mL
							Vanadium	500 ug/mL
							Zinc	500.1 ug/mL
MT_SULF_FI_00022	09/30/28	ThermoFisher Scientific, Lot 233289			(Purchased Reagent)		Sulfuric acid	96.3 %
OP_MINIBNA_SS_00158	11/02/25	06/30/25	Methanol, Lot 63145	1000 mL	OP_BNA_SS_00088	250 mL	1-Methylnaphthalene-d10	250 ppb
							2,4,6-Tribromophenol (Surr)	25000 ppb
							2-Fluorobiphenyl (Surr)	25000 ppb
							2-Fluorophenol (Surr)	25000 ppb
							Benzo(a)pyrene-d12 (Surr)	250 ppb
							Fluoranthene-d10 (Surr)	250 ppb
							Nitrobenzene-d5 (Surr)	25000 ppb
							p-Terphenyl-d14 (Surr)	25000 ppb
							Phenol-d5 (Surr)	25000 ppb
.OP_BNA_SS_00088	11/02/25	05/02/25	Methanol, Lot 63145	2500 mL	OP_BNA_STK_00085	2500 mL	1-Methylnaphthalene-d10	1000 ppb
							2,4,6-Tribromophenol (Surr)	100000 ppb
							2-Fluorobiphenyl (Surr)	100000 ppb
							2-Fluorophenol (Surr)	100000 ppb
							Benzo(a)pyrene-d12 (Surr)	1000 ppb
							Fluoranthene-d10 (Surr)	1000 ppb
							Nitrobenzene-d5 (Surr)	100000 ppb
							p-Terphenyl-d14 (Surr)	100000 ppb
							Phenol-d5 (Surr)	100000 ppb
..OP_BNA_STK_00085	11/02/25	Agilent, Lot 0006829769			(Purchased Reagent)		1-Methylnaphthalene-d10	1 ug/mL
							2,4,6-Tribromophenol (Surr)	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol (Surr)	100 ug/mL
							Benzo(a)pyrene-d12 (Surr)	1 ug/mL
							Fluoranthene-d10 (Surr)	1 ug/mL
							Nitrobenzene-d5 (Surr)	100 ug/mL
							p-Terphenyl-d14 (Surr)	100 ug/mL
							Phenol-d5 (Surr)	100 ug/mL
OP_MINLCS1_MS_00275	07/26/25	06/25/25	ACETONE, Lot EI930-US	100 mL	OP_LCS1_MS_00087	25 mL	1,1'-Biphenyl	12500 ppb
							1,2,4,5-Tetrachlorobenzene	12500 ppb
							1,2,4-Trichlorobenzene	12500 ppb
							1,2-Dichlorobenzene	12500 ppb
							1,2-Diphenylhydrazine	12500 ppb
							1,3-Dichlorobenzene	12500 ppb
							1,3-Dinitrobenzene	12500 ppb
							1,4-Dichlorobenzene	12500 ppb
							1,4-Dioxane	12500 ppb
							1-Methylnaphthalene	12500 ppb
							2,2'-oxybis[1-chloropropane]	12500 ppb
							2,3,4,6-Tetrachlorophenol	12500 ppb
							2,4,5-Trichlorophenol	12500 ppb
							2,4,6-Trichlorophenol	12500 ppb

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	12500 ppb
							2,4-Dimethylphenol	12500 ppb
							2,4-Dinitrophenol	25000 ppb
							2,4-Dinitrotoluene	12500 ppb
							2,6-Dichlorophenol	12500 ppb
							2,6-Dinitrotoluene	12500 ppb
							2-Chloronaphthalene	12500 ppb
							2-Chlorophenol	12500 ppb
							2-Methylnaphthalene	12500 ppb
							2-Methylphenol	12500 ppb
							2-Nitroaniline	12500 ppb
							2-Nitrophenol	12500 ppb
							3-Nitroaniline	12500 ppb
							4,6-Dinitro-2-methylphenol	25000 ppb
							4-Bromophenyl phenyl ether	12500 ppb
							4-Chloro-3-methylphenol	12500 ppb
							4-Chloroaniline	12500 ppb
							4-Chlorophenyl phenyl ether	12500 ppb
							4-Methylphenol	12500 ppb
							4-Nitroaniline	12500 ppb
							4-Nitrophenol	25000 ppb
							Acenaphthene	12500 ppb
							Acenaphthylene	12500 ppb
							Acetophenone	12500 ppb
							Aniline	12500 ppb
							Anthracene	12500 ppb
							Benzo[a]anthracene	12500 ppb
							Benzo[a]pyrene	12500 ppb
							Benzo[b]fluoranthene	12500 ppb
							Benzo[g,h,i]perylene	12500 ppb
							Benzo[k]fluoranthene	12500 ppb
							Benzyl alcohol	12500 ppb
							Bis(2-chloroethoxy)methane	12500 ppb
							Bis(2-chloroethyl)ether	12500 ppb
							Bis(2-ethylhexyl) phthalate	12500 ppb
							Butyl benzyl phthalate	12500 ppb
							Carbazole	12500 ppb
							Chrysene	12500 ppb
							Di-n-butyl phthalate	12500 ppb
							Di-n-octyl phthalate	12500 ppb
							Dibenz(a,h)anthracene	12500 ppb
							Dibenzofuran	12500 ppb
							Diethyl phthalate	12500 ppb
							Dimethyl phthalate	12500 ppb
							Dinitrotoluene	25000 ppb
							Fluoranthene	12500 ppb

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	12500 ppb
							Hexachlorobenzene	12500 ppb
							Hexachlorobutadiene	12500 ppb
							Hexachlorocyclopentadiene	12500 ppb
							Hexachloroethane	12500 ppb
							Hexadecane	12500 ppb
							Indeno[1,2,3-cd]pyrene	12500 ppb
							Isophorone	12500 ppb
							n-Decane	12500 ppb
							N-Nitrosodi-n-propylamine	12500 ppb
							N-Nitrosodimethylamine	12500 ppb
							N-Nitrosodiphenylamine	10625 ppb
							n-Octadecane	12500 ppb
							Naphthalene	12500 ppb
							Nitrobenzene	12500 ppb
							Pentachlorophenol	25000 ppb
							Phenanthrene	12500 ppb
							Phenol	12500 ppb
							Pyrene	12500 ppb
							Pyridine	25000 ppb
							3,3'-Dichlorobenzidine	25000 ppb
							Benzidine	25000 ppb
							Benzoic acid	12500 ppb
							Indene	12500 ppb
							1-Methylphenanthrene	12500 ppb
							2,3-Dichlorobenzenamine	12500 ppb
							Alpha Methyl Styrene	12500 ppb
							Alpha-Terpineol	12500 ppb
							Dimethylformamide	12500 ppb
							icosane	12500 ppb
							n-Docosane	12500 ppb
							n-Tetradecane	12500 ppb
							Octachlorostyrene	12500 ppb
							Phenyl ether	12500 ppb
.OP_LCS1_MS_00087	07/26/25	06/25/25	Acetone, Lot EI930-US	400 mL	OP_RES_LCS1_00024	20 mL	1,1'-Biphenyl	50000 ppb
							1,2,4,5-Tetrachlorobenzene	50000 ppb
							1,2,4-Trichlorobenzene	50000 ppb
							1,2-Dichlorobenzene	50000 ppb
							1,2-Diphenylhydrazine	50000 ppb
							1,3-Dichlorobenzene	50000 ppb
							1,3-Dinitrobenzene	50000 ppb
							1,4-Dichlorobenzene	50000 ppb
							1,4-Dioxane	50000 ppb
							1-Methylnaphthalene	50000 ppb
							2,2'-oxybis[1-chloropropane]	50000 ppb
							2,3,4,6-Tetrachlorophenol	50000 ppb

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,5-Trichlorophenol	50000 ppb
							2,4,6-Trichlorophenol	50000 ppb
							2,4-Dichlorophenol	50000 ppb
							2,4-Dimethylphenol	50000 ppb
							2,4-Dinitrophenol	100000 ppb
							2,4-Dinitrotoluene	50000 ppb
							2,6-Dichlorophenol	50000 ppb
							2,6-Dinitrotoluene	50000 ppb
							2-Chloronaphthalene	50000 ppb
							2-Chlorophenol	50000 ppb
							2-Methylnaphthalene	50000 ppb
							2-Methylphenol	50000 ppb
							2-Nitroaniline	50000 ppb
							2-Nitrophenol	50000 ppb
							3-Nitroaniline	50000 ppb
							4,6-Dinitro-2-methylphenol	100000 ppb
							4-Bromophenyl phenyl ether	50000 ppb
							4-Chloro-3-methylphenol	50000 ppb
							4-Chloroaniline	50000 ppb
							4-Chlorophenyl phenyl ether	50000 ppb
							4-Methylphenol	50000 ppb
							4-Nitroaniline	50000 ppb
							4-Nitrophenol	100000 ppb
							Acenaphthene	50000 ppb
							Acenaphthylene	50000 ppb
							Acetophenone	50000 ppb
							Aniline	50000 ppb
							Anthracene	50000 ppb
							Benzo[a]anthracene	50000 ppb
							Benzo[a]pyrene	50000 ppb
							Benzo[b]fluoranthene	50000 ppb
							Benzo[g,h,i]perylene	50000 ppb
							Benzo[k]fluoranthene	50000 ppb
							Benzyl alcohol	50000 ppb
							Bis(2-chloroethoxy)methane	50000 ppb
							Bis(2-chloroethyl)ether	50000 ppb
							Bis(2-ethylhexyl) phthalate	50000 ppb
							Butyl benzyl phthalate	50000 ppb
							Carbazole	50000 ppb
							Chrysene	50000 ppb
							Di-n-butyl phthalate	50000 ppb
							Di-n-octyl phthalate	50000 ppb
							Dibenz(a,h)anthracene	50000 ppb
							Dibenzofuran	50000 ppb
							Diethyl phthalate	50000 ppb
							Dimethyl phthalate	50000 ppb

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dinitrotoluene	100000 ppb
							Fluoranthene	50000 ppb
							Fluorene	50000 ppb
							Hexachlorobenzene	50000 ppb
							Hexachlorobutadiene	50000 ppb
							Hexachlorocyclopentadiene	50000 ppb
							Hexachloroethane	50000 ppb
							Hexadecane	50000 ppb
							Indeno[1,2,3-cd]pyrene	50000 ppb
							Isophorone	50000 ppb
							n-Decane	50000 ppb
							N-Nitrosodi-n-propylamine	50000 ppb
							N-Nitrosodimethylamine	50000 ppb
							N-Nitrosodiphenylamine	42500 ppb
							n-Octadecane	50000 ppb
							Naphthalene	50000 ppb
							Nitrobenzene	50000 ppb
							Pentachlorophenol	100000 ppb
							Phenanthrene	50000 ppb
							Phenol	50000 ppb
							Pyrene	50000 ppb
							Pyridine	100000 ppb
					OP_RES_LCS2_00014	20 mL	3,3'-Dichlorobenzidine	100000 ppb
							Benzidine	100000 ppb
					OP_RES_LCS3_00011	10 mL	Benzoic acid	50000 ppb
							Indene	50000 ppb
					OP_RES_LCSadd_00004	10 mL	1-Methylphenanthrene	50000 ppb
							2,3-Dichlorobenzenamine	50000 ppb
							Alpha Methyl Styrene	50000 ppb
							Alpha-Terpineol	50000 ppb
							Dimethylformamide	50000 ppb
							icosane	50000 ppb
							n-Docosane	50000 ppb
							n-Tetradecane	50000 ppb
							Octachlorostyrene	50000 ppb
							Phenyl ether	50000 ppb
..OP_RES_LCS1_00024	02/28/26		Restek, Lot A0224609		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dichlorophenol	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Methylphenol	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Dinitrotoluene	2000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							N-Nitrosodiphenylamine	850 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	2000 ug/mL
..OP_RES_LCS2_00014	10/31/26		Restek, Lot A0224695		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..OP_RES_LCS3_00011	09/30/25		Restek, Lot A0209261		(Purchased Reagent)		Benzoic acid	2000 ug/mL
							Indene	2000 ug/mL
..OP_RES_LCSadd_00004	11/30/25		Agilent, Lot 0006819172		(Purchased Reagent)		1-Methylphenanthrene	2000 ug/mL
							2,3-Dichlorobenzenamine	2000 ug/mL
							Alpha Methyl Styrene	2000 ug/mL
							Alpha-Terpineol	2000 ug/mL
							Dimethylformamide	2000 ug/mL
							icosane	2000 ug/mL
							n-Docosane	2000 ug/mL
							n-Tetradecane	2000 ug/mL
							Octachlorostyrene	2000 ug/mL
							Phenyl ether	2000 ug/mL
OP_MINLCS2_MS_00165	07/13/25	06/19/25	ACETONE, Lot EI930-US	100 mL	OP_LCS 2_MS_00073	25 mL	Atrazine	12500 ppb
							Benzaldehyde	12500 ppb
							Caprolactam	12500 ppb
.OP_LCS 2_MS_00073	07/13/25	06/12/25	ACETONE, Lot EI930-US	400 mL	OP_LCSmix2stk_00010	10 mL	Atrazine	50000 ppb
							Benzaldehyde	50000 ppb
							Caprolactam	50000 ppb
..OP_LCSmix2stk_00010	04/30/26		Restek, Lot A0217501		(Purchased Reagent)		Atrazine	2000 ug/mL
							Benzaldehyde	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Caprolactam	2000 ug/mL

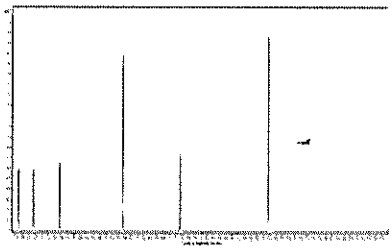
Reagent

MSS_8270_SURR_00007

Certificate of Analysis - Certified Reference Material

EPA 8270 Surrogate Standard

Product no.: CRM47960
Lot no.: LRAD7196
Expiry Date: December 2026
Manufacturing Date: November 2023
Storage: REFRIGERATE (2 °C to 8 °C)
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD7196.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-FLUOROPHENOL CAS# 367-12-4	4000 ± 92	µg/mL	99.9	STBJ2508
PHENOL-D6 CAS# 13127-88-3	4000 ± 95	µg/mL	99.6	MBBD4866
NITROBENZENE-D5 CAS# 4165-60-0	4000 ± 125	µg/mL	99.9	LB83753
2-FLUOROBIPHENYL CAS# 321-60-8	4000 ± 102	µg/mL	99.9	MKCS4107
2,4,6-TRIBROMOPHENOL CAS# 118-79-6	4000 ± 181	µg/mL	99.7	LB81262
P-TERPHENYL-D14 CAS# 1718-51-0	4000 ± 110	µg/mL	99.9	MBBD6075

ASSAY Method

METHOD: GC (IN-HOUSE)
Column: SLB-5ms, 30 m × 0.25 mm I.D., 0.25 µm film thickness
Carrier Gas: He Flow Rate: 1.0 mL/min
Inlet Temperature: 270 °C Injection Volume: 0.5 µL
Injection Mode: Split Ratio: 100:1
Temperature Program: 100 °C (Hold 1 min) @ 20 °C/min to 280 °C (Hold 4 min)
Detector: MSD Full Scan (40 – 400 m/z); Solvent Delay: 2.0 min Temperature: 280 °C; Quadrupole: 150 °C; Ion Source: 230 °C

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Reagent

MSS_AB_24DNP_00009

CERTIFIED WEIGHT REPORT

Part Number: 70159
Lot Number: 011224
Description: 2,4-Dinitrophenol

Expiration Date: 011229
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Methanol EH471-US

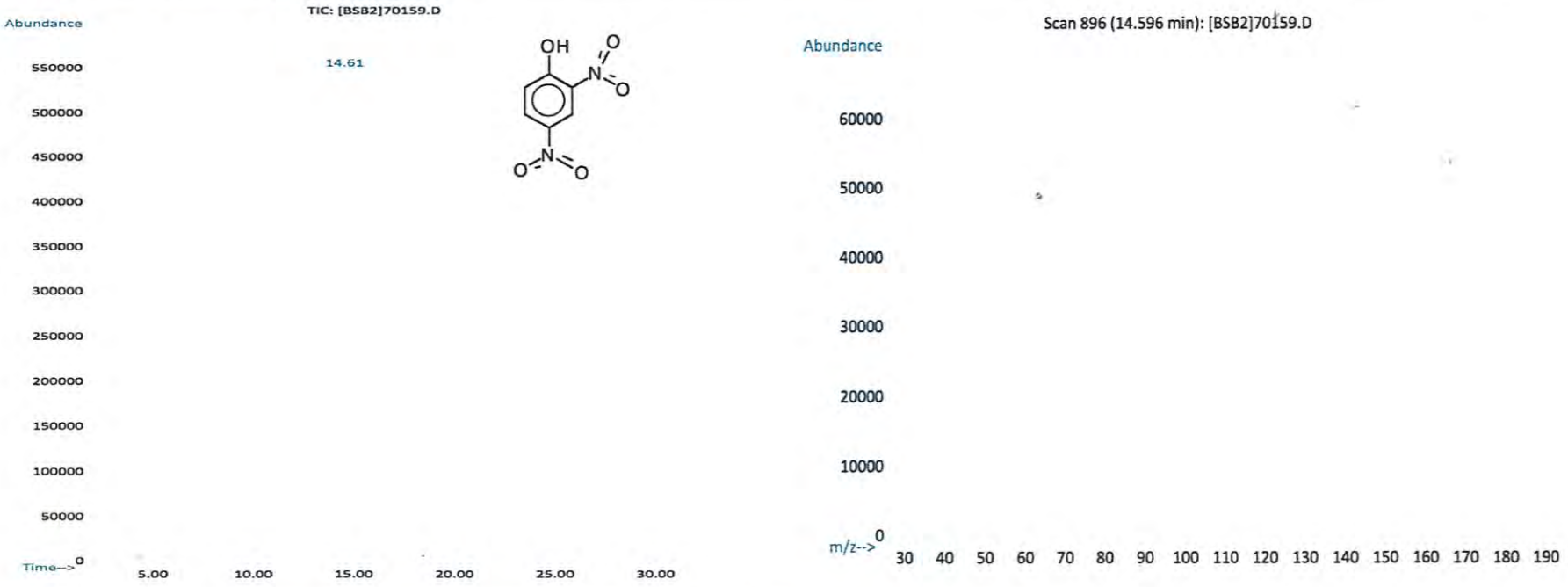
Eli Aliaga		011224
Formulated By:	Eli Aliaga	DATE
Pedro Rentas		011224
Reviewed By:	Pedro L. Rentas	DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2,4-Dinitrophenol	159	011719	1000	98	0.2	0.10207	0.10213	1000.6	4.2	51-28-5	N/A	orl-rat 30mg/kg

Method GC8MSD-3.M: Column: (30m X 0.25mm ID X 0.25µm film thickness), Temp 1 = 50°C (1min.), Temp 2 = 300°C (4 min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 300°C. Analysis performed by Melissa Stonier.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_46D2MP_00006

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70158
Lot Number: 082824
Description: 4,6-Dinitro-2-methylphenol

Solvent(s): Methanol **Lot#** EH869-US

Expiration Date: 082829
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

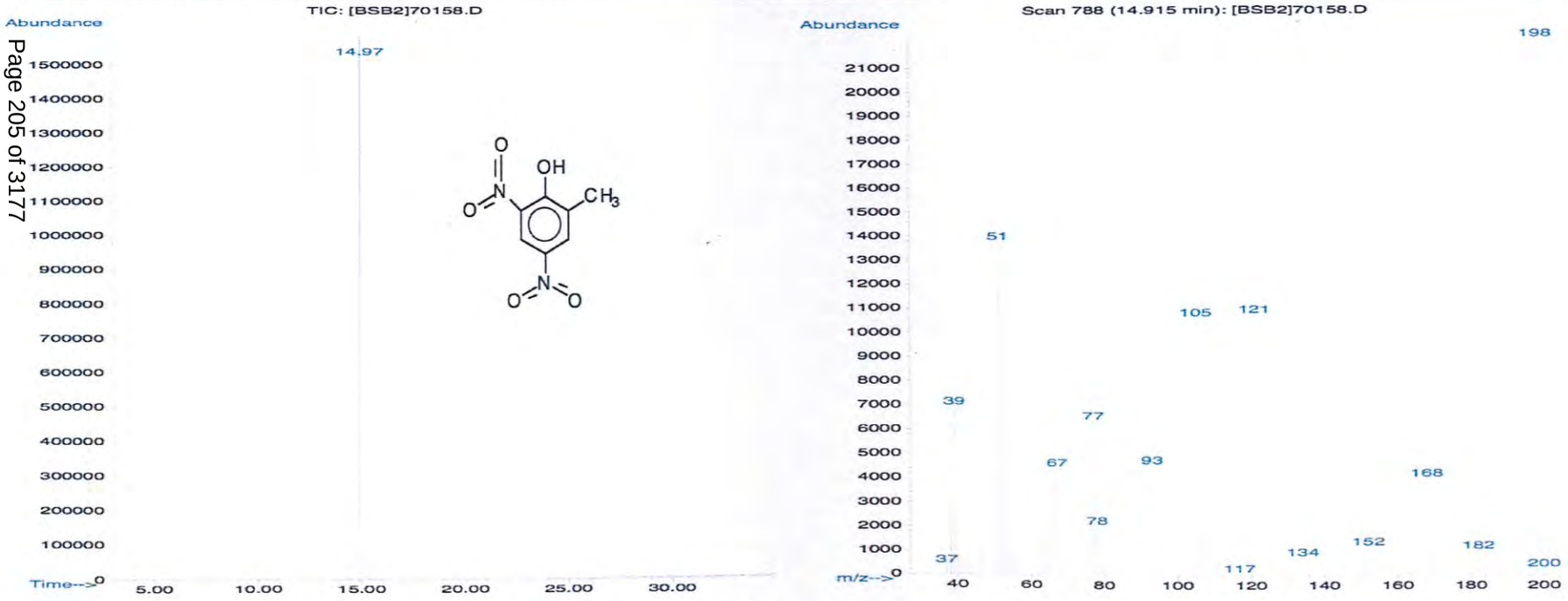
Weight(s) shown below were combined and diluted to (mL): 50.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	082824 DATE
Reviewed By:	Pedro L. Rentas	082824 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 4,6-Dinitro-2-methylphenol	158	BCCJ7293	1000	99.8	0.2	0.05013	0.05023	1002.0	4.5	534-52-1	N/A	N/A

Method GC18MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier



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- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_4NP_00006

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Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

7/30/2025
1:47:08 PM

CERTIFIED WEIGHT REPORT

Part Number: 70231
Lot Number: 021323
Description: 4-Nitrophenol

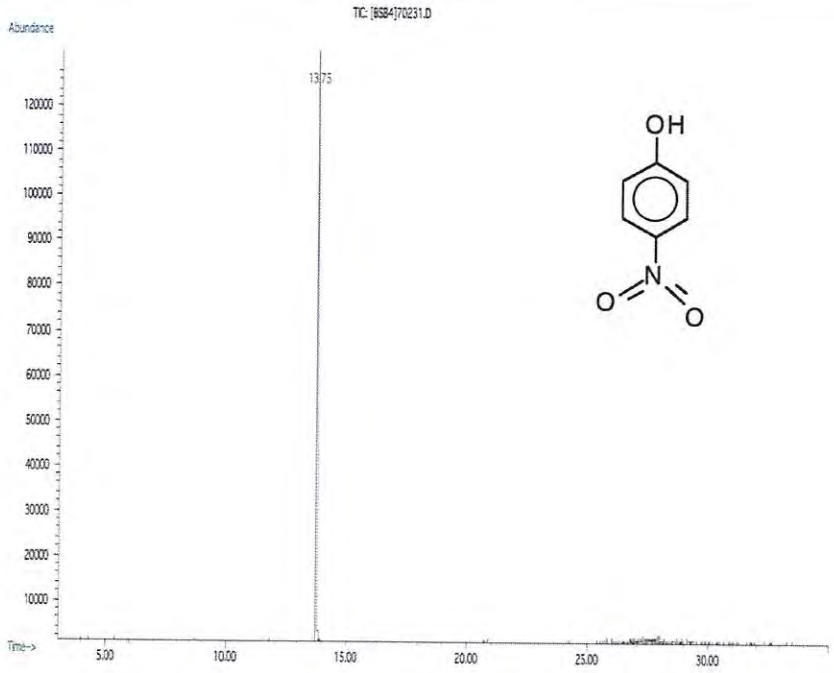
Solvent(s): **Lot#**
Methanol EF282-US

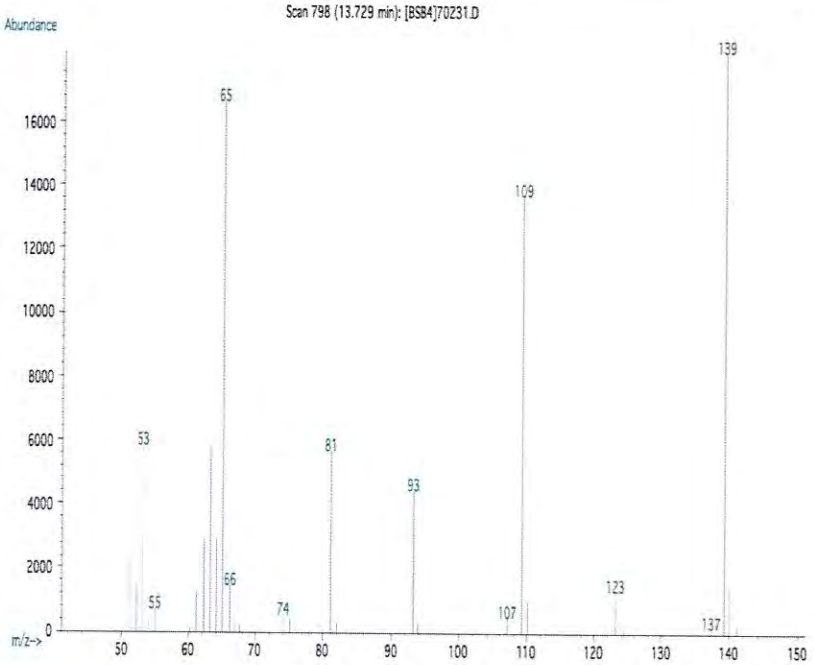
Expiration Date: 021328
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

		021323
Formulated By:	Benson Chan	DATE
		021323
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 4-Nitrophenol	231	FGM01	1000	99	0.2	0.10101	0.10123	1002.1	4.2	100-02-7	N/A	orl-rat 250mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Candice Warren.





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- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Reagent

MSS_AB_BZIDIN_00012

Absolute Standards, Inc.
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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 43124
Lot Number: 100724
Description: Benzidine

Expiration Date: 100727
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

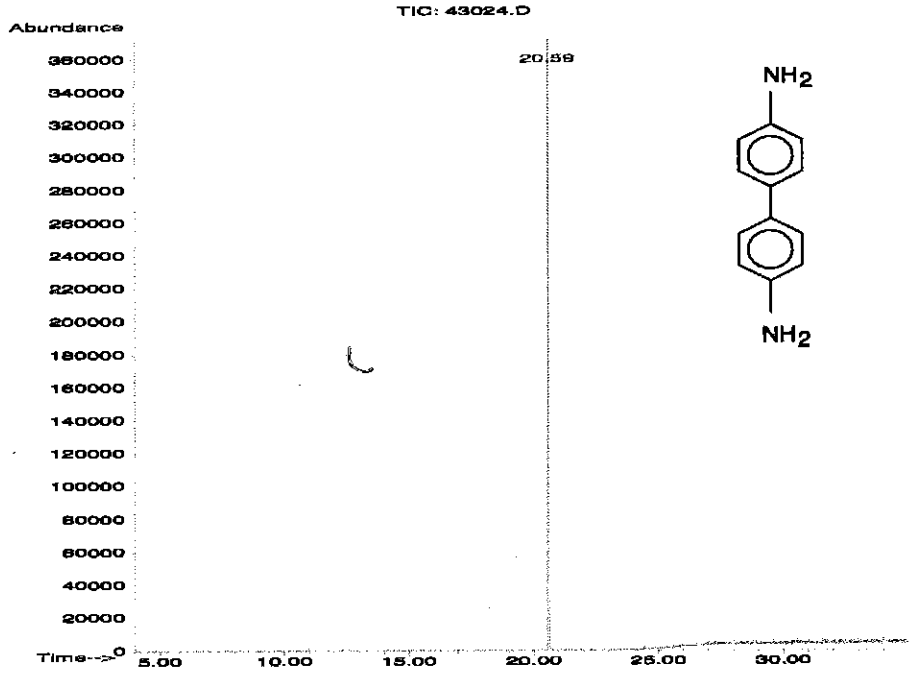
Solvent: Methylene chloride **Lot#** 23030243

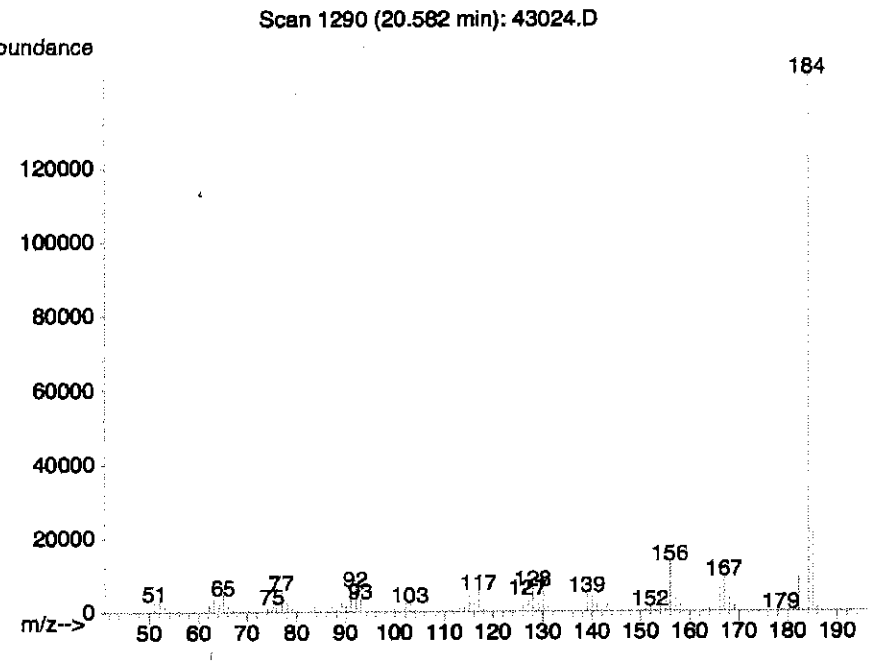
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 30.0 0.002 Flask Uncertainty

		100724
Formulated By:	Anthony Mahoney	DATE
		100724
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzidine	27	SLBH5327V	5000	98	0.2	0.15317	0.15346	5009.6	20.7	92-87-5	N/A	orl-rat 309mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Nicole Davis.





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Reagent

MSS_AB_DFTPP_00016

7/30/2025 1:47:08 PM

CERTIFIED WEIGHT REPORT

Part Number: 43030
Lot Number: 072022
Description: CLP Semi-Volatile Tuning Standard
4 components
Expiration Date: 072025
~~Recommended Storage:~~ ~~Refrigerate (4 °C)~~
Nominal Concentration (µg/mL): 500
NIST Test ID#: 6UTB

Solvent(s): Methylene chloride **Lot#** 105345

5E-05 Balance Uncertainty
0.058 Flask Uncertainty

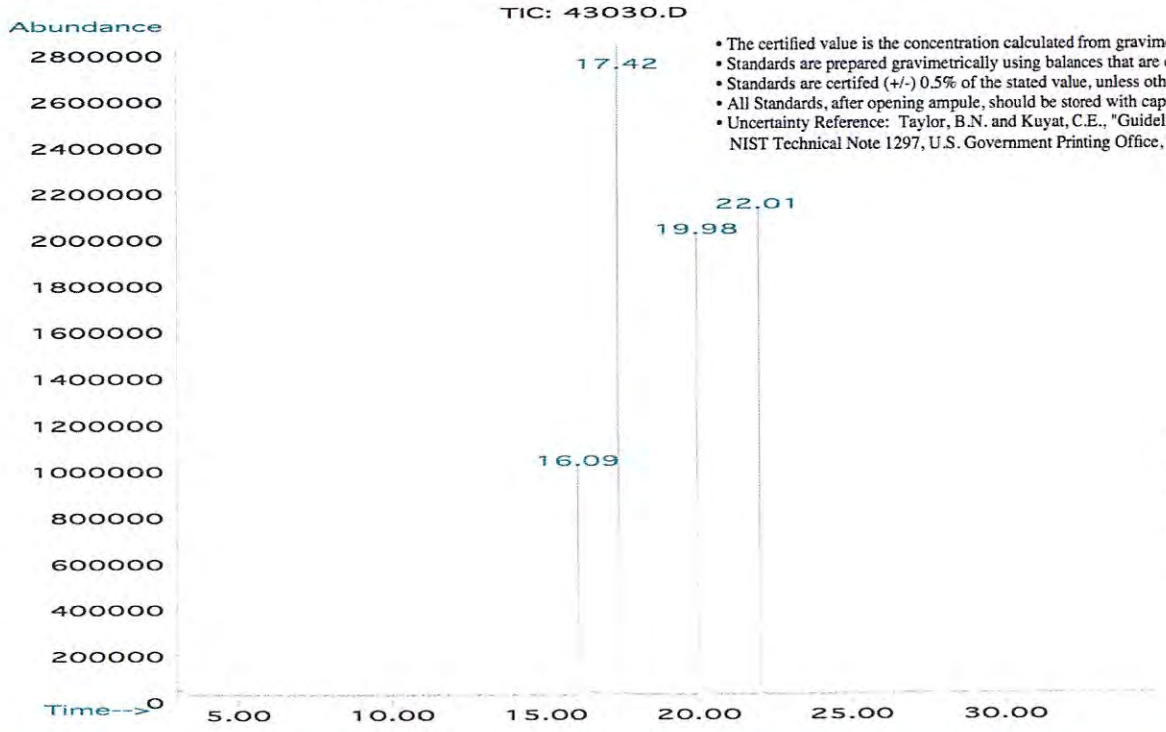
Weight(s) shown below were combined and diluted to (mL): 200.0

CAUTION: Sonicate Before Use

Gabriel Helland	072022
Formulated By: Gabriel Helland	DATE
Pedro Rentas	072022
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzidine	27	SLBH5327V	500	98	0.2	0.10205	0.10215	500.5	2.1	92-87-5	N/A	orl-rat 309mg/kg
2. 4,4'-DDT	101	04029MM	500	99	0.2	0.10102	0.10106	500.2	2.1	50-29-3	N/A	orl-rat 87mg/kg
3. Decafluorotriphenylphosphine	105	10220909	500	97	0.2	0.10311	0.10327	500.8	2.1	5074-71-5	N/A	N/A
4. Pentachlorophenol	243	06324ED	500	98	0.2	0.10205	0.10222	500.8	2.1	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.



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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Retention Time (min.)

Pentachlorophenol	16.09
Decafluorotriphenylphosphine	17.42
Benzidine	19.98
4,4'-DDT	22.01

Reagent

MSS_AB_DFTPP_00018

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 43030
Lot Number: 102124
Description: CLP Semi-Volatile Tuning Standard
4 components
Expiration Date: 102127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 500
NIST Test ID#: 6UTB

Solvent(s): Methylene chloride **Lot#** 23343

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 200.0 0.010 Flask Uncertainty

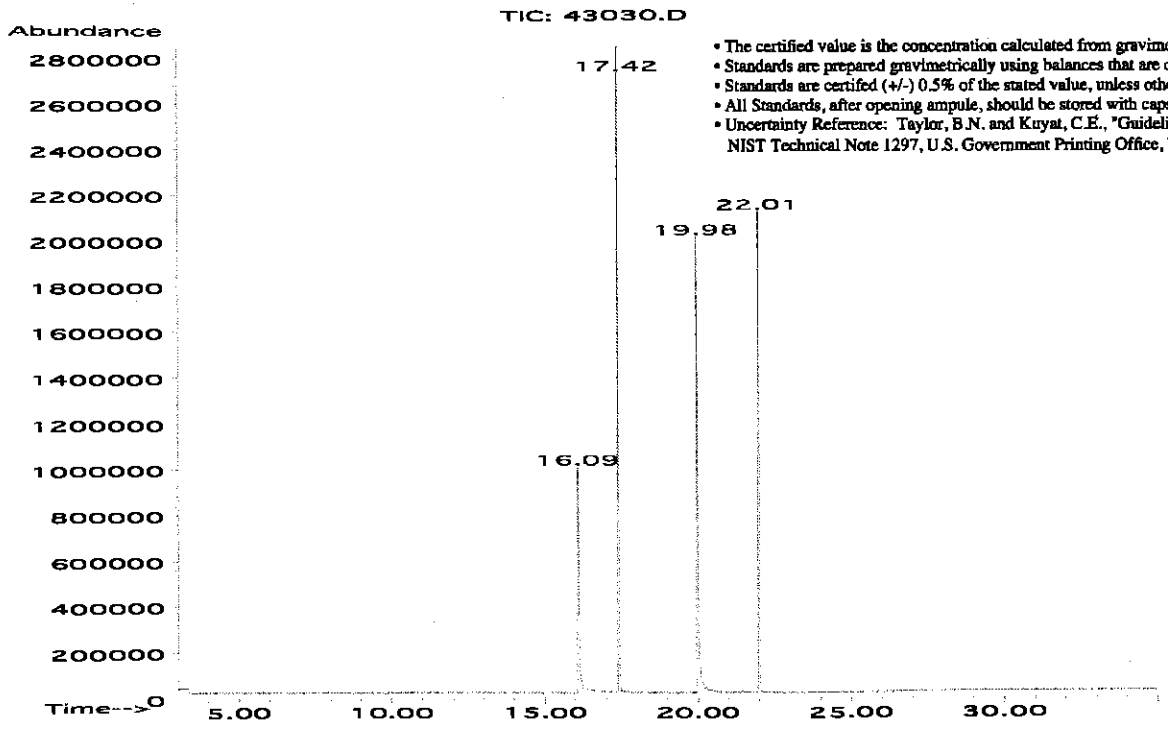
Formulated By: Lawrence Barry	102124 DATE
Reviewed By: Pedro L. Rentas	102124 DATE

CAUTION: Sonicate Before Use

RM#/LOT# CHECK

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	CAS#	SDS Information (Solvent Safety Info. On Attached pg.) OSHA PEL (TWA)	LD50
1. Benzidine	27	SLBH5327V	500	98	0.2	0.10206	0.10216	500.5	2.1	92-87-5	N/A	orl-rat 309mg/kg
2. 4,4'-DDT	101	04029MM	500	99	0.2	0.10103	0.10114	500.5	2.1	50-29-3	N/A	orl-rat 67mg/kg
3. Decafluorotriphenylphosphine	105	10220909	500	97	0.2	0.10311	0.10323	500.6	2.1	5074-71-5	N/A	N/A
4. Pentachlorophenol	243	06324ED	500	98	0.2	0.10206	0.10218	500.6	2.1	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Retention Time (min.)	
Pentachlorophenol	16.09
Decafluorotriphenylphosphine	17.42
Benzidine	19.98
4,4'-DDT	22.01

Reagent

MSS_AB_PCP_00004

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 79261
Lot Number: 062222
Description: Pentachlorophenol

Solvent(s): **Lot#**
Acetone 81025

Expiration Date: 062227
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.006 Flask Uncertainty

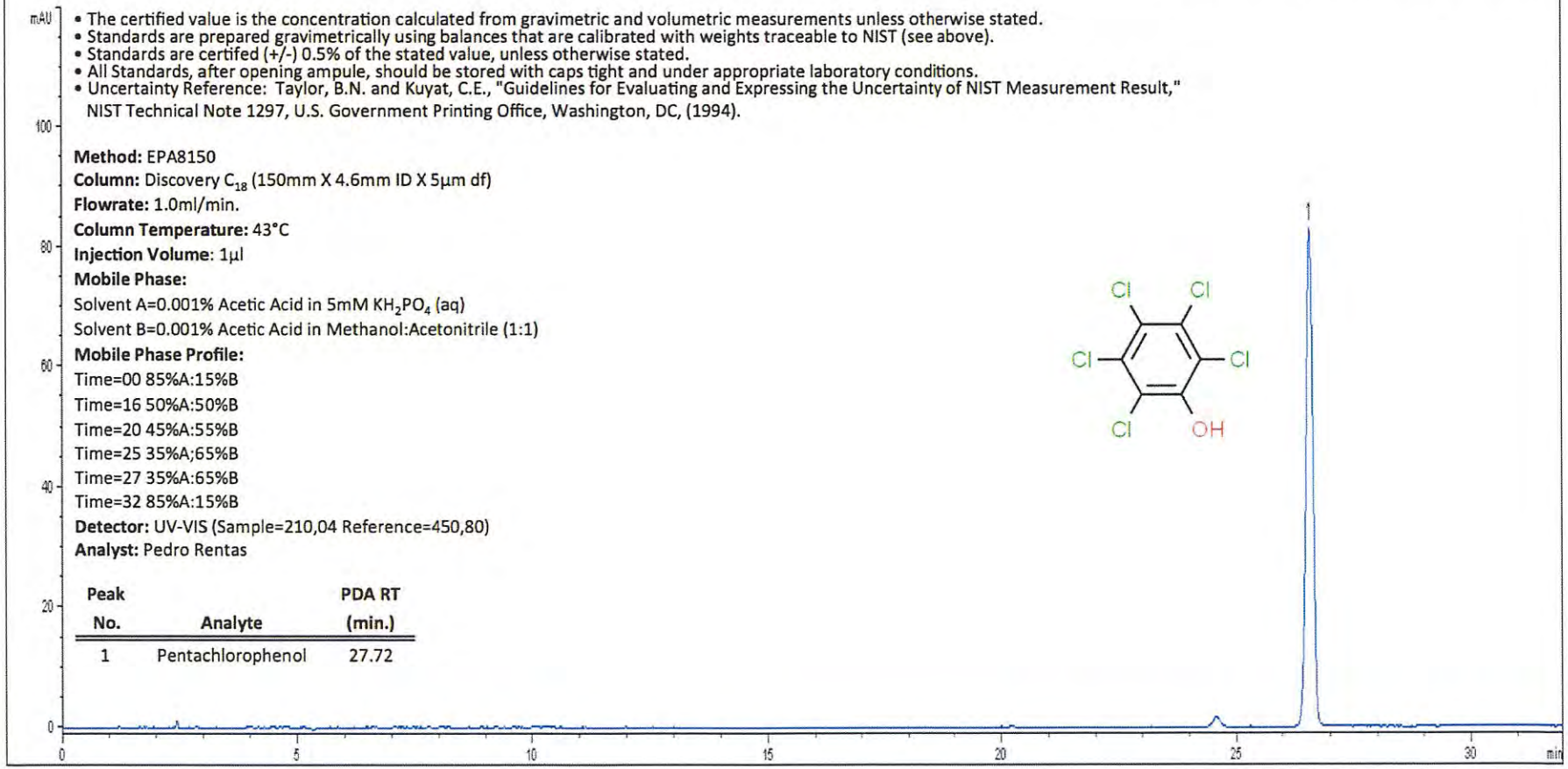
	062222
Formulated By: Benson Chan	DATE
	062222
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Pentachlorophenol	243	06324ED	1000	98	0.2	0.05106	0.05112	1001.1	4.5	87-86-5	0.5mg/m3/8H (skin)	orl-rat 27mg/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method: EPA8150
Column: Discovery C_{18} (150mm X 4.6mm ID X 5µm df)
Flowrate: 1.0ml/min.
Column Temperature: 43°C
Injection Volume: 1µl
Mobile Phase:
Solvent A=0.001% Acetic Acid in 5mM KH_2PO_4 (aq)
Solvent B=0.001% Acetic Acid in Methanol:Acetonitrile (1:1)
Mobile Phase Profile:
Time=00 85%A:15%B
Time=16 50%A:50%B
Time=20 45%A:55%B
Time=25 35%A;65%B
Time=27 35%A:65%B
Time=32 85%A:15%B
Detector: UV-VIS (Sample=210,04 Reference=450,80)
Analyst: Pedro Rentas

Peak No.	Analyte	PDA RT (min.)
1	Pentachlorophenol	27.72



Reagent

MSS_FV8270_IS_00007

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 576940 **Lot No.:** A0221275

Description : Custom Internal Standard

Custom Internal Standard 1,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	1,003.0 µg/mL	+/- 45.1922
2	Naphthalene-d8	1146-65-2	M-2180	99%	1,005.0 µg/mL	+/- 45.2823
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	1,003.0 µg/mL	+/- 45.1922
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	1,000.0 µg/mL	+/- 45.0570
5	Pyrene-d10	1718-52-1	PR-30304	99%	1,000.0 µg/mL	+/- 45.0570
6	Perylene-d12	1520-96-3	PR-33205	99%	1,006.0 µg/mL	+/- 45.3273

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

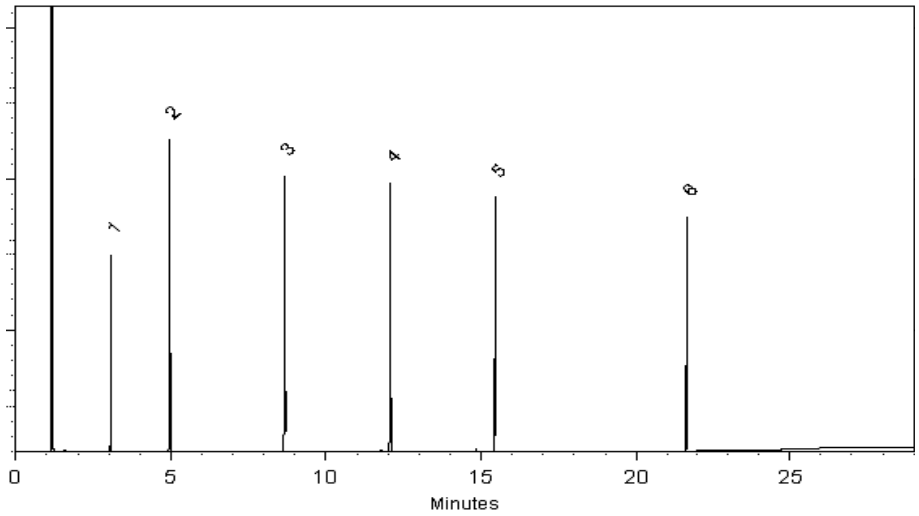
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maye - Operations Tech I

Date Mixed: 20-Jan-2025 **Balance Serial #** 1128353505

Dillan Murphy - Operations Technician I

Date Passed: 24-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSS_FV8270_IS_00009

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 576940 **Lot No.:** A0223654

Description : Custom Internal Standard

Custom Internal Standard 1,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	1,007.7 µg/mL	+/- 45.3889
2	Naphthalene-d8	1146-65-2	M-2180	99%	1,006.3 µg/mL	+/- 45.3229
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	1,006.9 µg/mL	+/- 45.3499
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	1,007.9 µg/mL	+/- 45.3949
5	Pyrene-d10	1718-52-1	PR-30304	99%	1,006.3 µg/mL	+/- 45.3259
6	Perylene-d12	1520-96-3	PR-33205	99%	1,007.6 µg/mL	+/- 45.3829

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

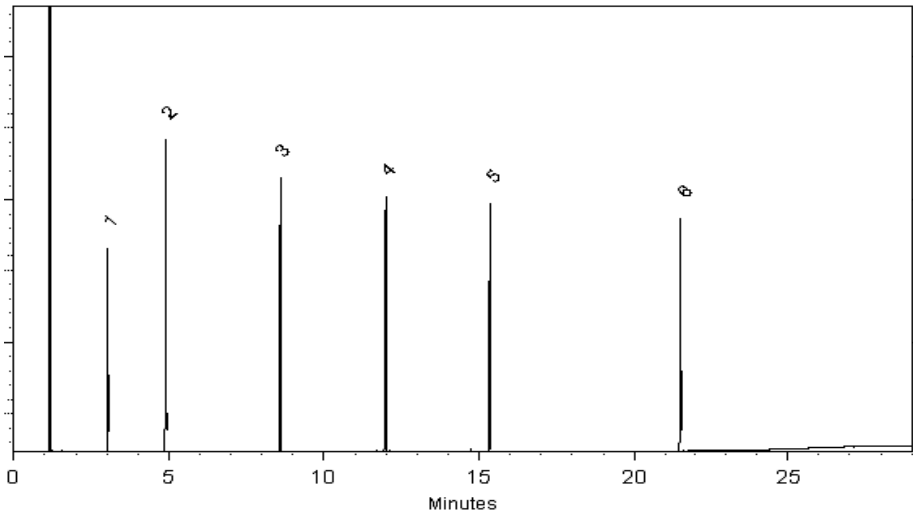
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 20-Mar-2025 **Balance Serial #** C322230531

Brittany Federinko - Operations Tech I

Date Passed: 25-Mar-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_8260_SS_00293

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 55671 **Lot No.:** A0146938

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2022 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane		2,505.2 µg/mL	+/- 14.5653	µg/mL	Gravimetric
	CAS # 1868-53-7	(Lot 0012016)		+/- 140.4622	µg/mL	Unstressed
	Purity 99%			+/- 143.7488	µg/mL	Stressed
2	1,2-Dichloroethane-d4		2,517.2 µg/mL	+/- 14.6350	µg/mL	Gravimetric
	CAS # 17060-07-0	(Lot PR-26748)		+/- 141.1350	µg/mL	Unstressed
	Purity 99%			+/- 144.4374	µg/mL	Stressed
3	Toluene-d8		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 2037-26-5	(Lot PR-27311)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)		2,507.7 µg/mL	+/- 14.5798	µg/mL	Gravimetric
	CAS # 460-00-4	(Lot 20401KO)		+/- 140.6024	µg/mL	Unstressed
	Purity 99%			+/- 143.8923	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

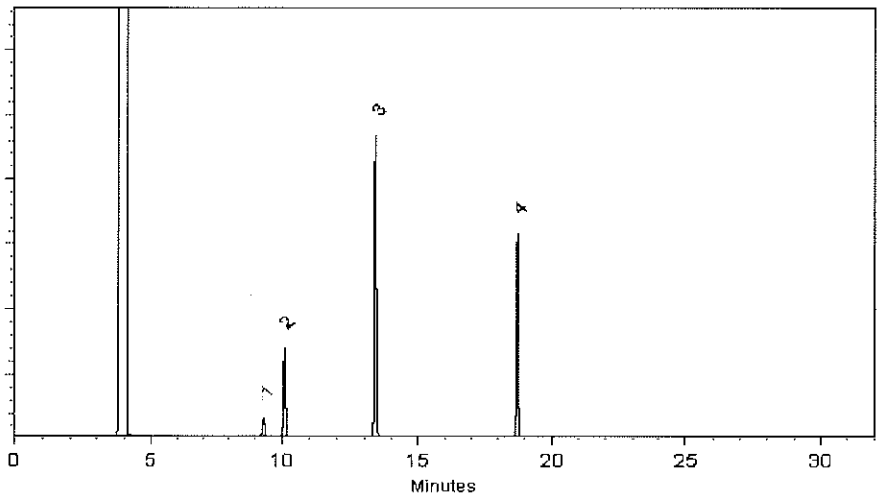
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Maggie Wang
Maggie Wang - Operations Technician I

Date Mixed: 12-Mar-2019 **Balance:** 1128342314

Jennifer J Pollino
Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 15-Mar-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_8260_SS_01451

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30240 **Lot No.:** A0217887

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,515.3 µg/mL	+/- 141.2958
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,504.3 µg/mL	+/- 140.6779
3	Toluene-d8	2037-26-5	PR-34141	99%	2,513.8 µg/mL	+/- 141.2116
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	2,517.3 µg/mL	+/- 141.4082

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

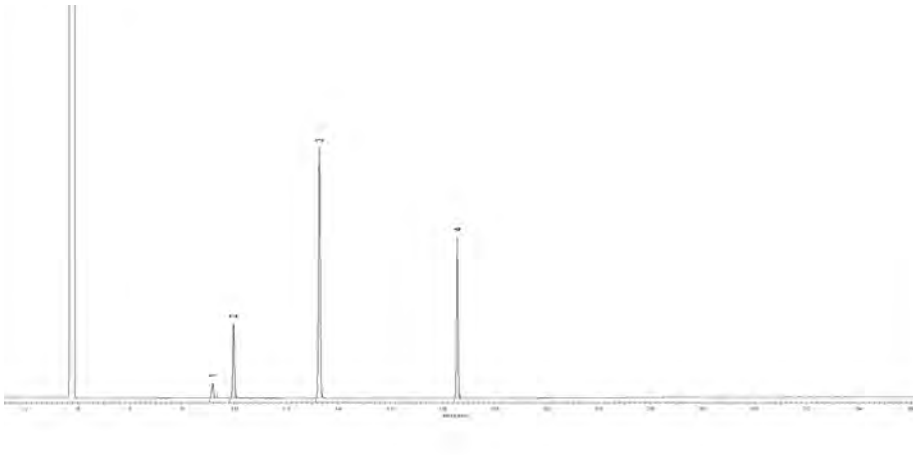
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman - Operations Tech I

Date Mixed: 15-Oct-2024 **Balance Serial #** B251644995

John Lidgett - AD Chemist

Date Passed: 23-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_8260_SS_01483

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30240 **Lot No.:** A0217887

Description : 8260A Surrogate Mix

8260A Surrogate Mix 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dibromofluoromethane	1868-53-7	022013	99%	2,515.3 µg/mL	+/- 141.2958
2	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	2,504.3 µg/mL	+/- 140.6779
3	Toluene-d8	2037-26-5	PR-34141	99%	2,513.8 µg/mL	+/- 141.2116
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	2,517.3 µg/mL	+/- 141.4082

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

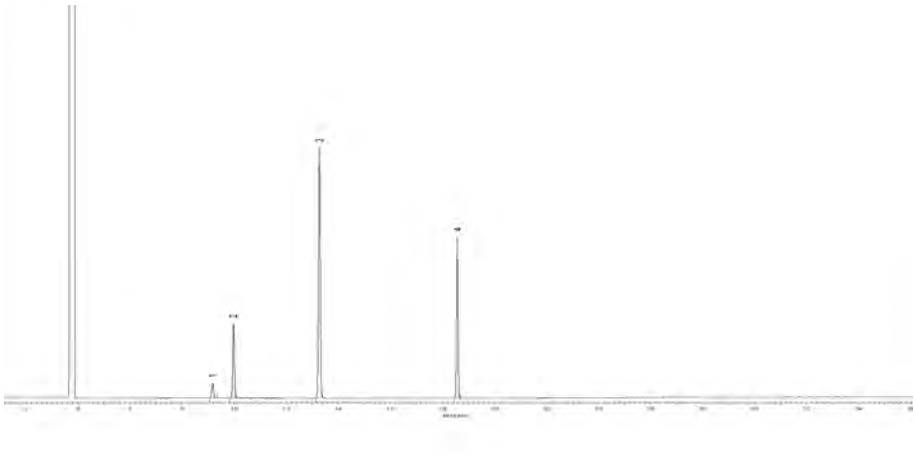
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Richard Zimmerman - Operations Tech I

Date Mixed: 15-Oct-2024 **Balance Serial #** B251644995

John Lidgett - AD Chemist

Date Passed: 23-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_AcetatesQ_00079

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577496 **Lot No.:** A0211385

Description : Custom Acetates.SEC Standard

Custom Acetates.SEC Standard 2,000-15,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** -20°C or colder

Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetonitrile	75-05-8.SEC	3ZDOE	99%	15,066.7 µg/mL	+/- 268.9903
2	Vinyl acetate	108-05-4.SEC	RD230301RSRA	98%	10,077.7 µg/mL	+/- 179.9200
3	Ethyl acetate	141-78-6.SEC	C386A-GG	99%	2,010.0 µg/mL	+/- 35.9325
4	Isopropyl acetate	108-21-4.SEC	FGL01	99%	2,010.0 µg/mL	+/- 35.9325
5	Propyl acetate	109-60-4.SEC	929400	99%	2,010.0 µg/mL	+/- 35.9325
6	Butyl acetate	123-86-4.SEC	V2L2G-GT	99%	2,010.0 µg/mL	+/- 35.9325

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution

immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

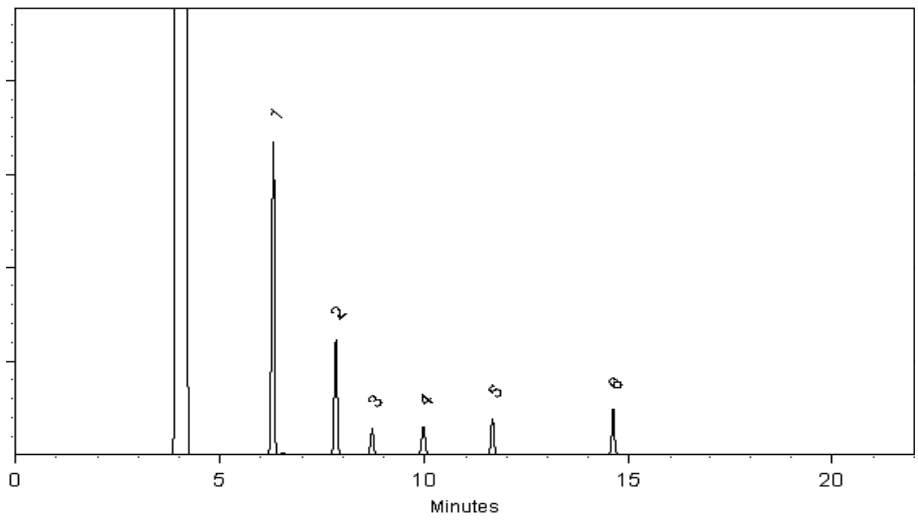
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Wilner Torres - Operation Tech I

Date Mixed: 14-May-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_AcetatesV_00089

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577489 **Lot No.:** A0211993

Description : Custom Acetates Standard

Custom Acetates Standard 10,000-50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** -20°C or colder

Ship: On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetonitrile	75-05-8	SHBR1054	99%	50,320.0 µg/mL	+/- 898.1594
2	Vinyl acetate	108-05-4	RD240423RSR	99%	10,060.0 µg/mL	+/- 179.6046
3	Ethyl acetate	141-78-6	SHBQ9682	99%	10,070.0 µg/mL	+/- 179.7831
4	Isopropyl acetate	108-21-4	BCCG7069	99%	10,076.7 µg/mL	+/- 179.9021
5	Propyl acetate	109-60-4	P8XLN	99%	10,070.0 µg/mL	+/- 179.7831
6	Butyl acetate	123-86-4	SHBR2024	99%	10,060.0 µg/mL	+/- 179.6046

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution

immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

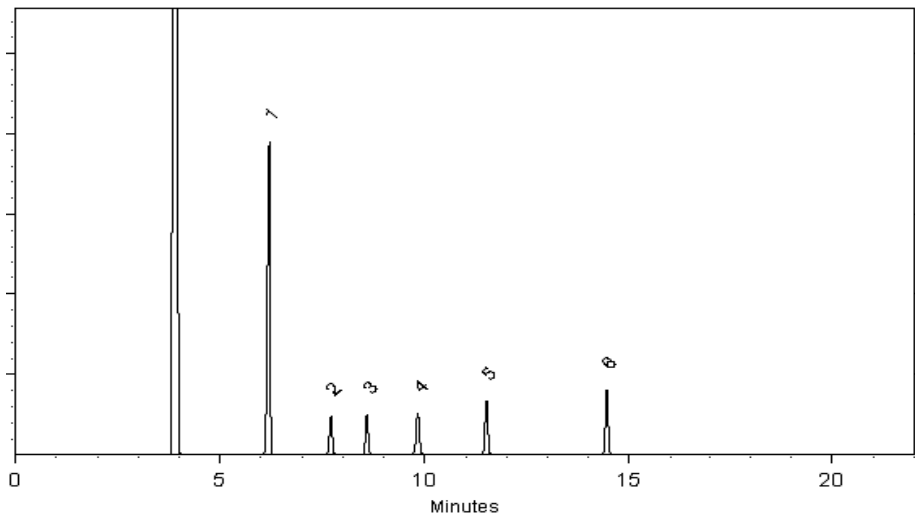
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 24-May-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_ACROLEIN_00011

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CERTIFICATE OF ANALYSIS

Acrolein

CATALOG NUMBER	RPN-11030-1G
LOT NUMBER	10804400
DATE CERTIFIED	09/30/20
EXPIRATION DATE	09/30/21
CAS NUMBER	107-02-8
MOLECULAR FORMULA	C3H4O
MOLECULAR WEIGHT	56.06
STORAGE	Refrigerator storage (2 - 8 °C)
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
NOTES	Contains water and hydroquinone as an inhibitor.

Analytical Test	Value
% PURITY (GC/TCD)	93.7

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

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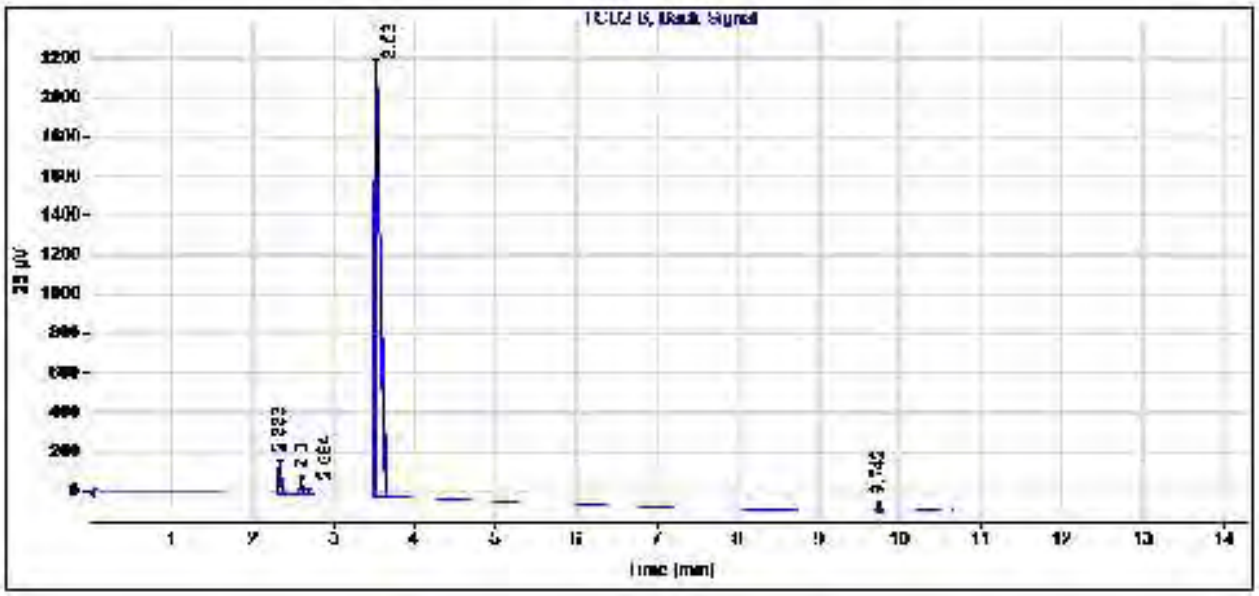
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0920\SIG2022755.D
Sample name: Acrolein

Instrument: GC 1
Injection date: 9/30/2020 9:06:04 AM
Acq. method: GASBOMB_TCD.M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Blank
Location:
Injection volume: 1.0uL



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.333	BB	0.0403	382.4806	147.1483	3.9725
2.600	BV	0.0380	151.1861	63.0647	1.5703
2.684	VB	0.0386	21.2574	8.3698	0.2208
3.530	BB S	0.0570	9029.5508	2193.4321	93.7829
9.742	BB	0.0333	43.6692	20.1758	0.4536
		Sum	9628.1440		

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

Reagent

MSV_BCE_00025

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Certificate of Analysis

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30469 **Lot No.:** A0161419

Description : 1-Bromo-2-chloroethane Standard

1-Bromo-2-Chloroethane Std, 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 0°C or colder

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1-Bromo-2-chloroethane	2,000.0 µg/mL	+/- 18.5989 µg/mL	Gravimetric
	CAS # 107-04-0 (Lot BCBQ8054V)		+/- 113.0736 µg/mL	Unstressed
	Purity 99%		+/- 115.6763 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

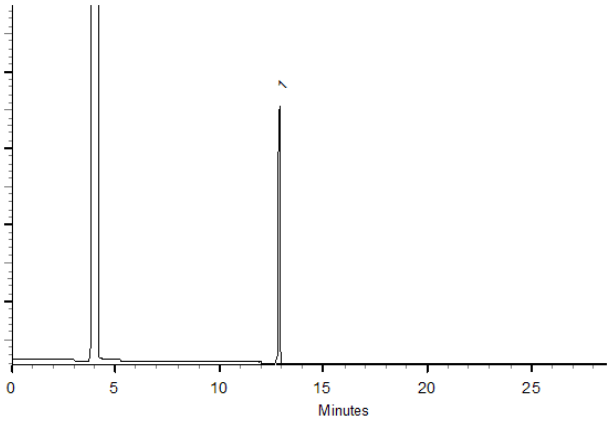
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Katelyn McGinni - Operations Tech I

Date Mixed: 03-Jun-2020 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 04-Jun-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_BCE_00082

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30469 **Lot No.:** A0201612

Description : 1-Bromo-2-chloroethane Standard

1-Bromo-2-Chloroethane Std, 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-2-chloroethane	107-04-0	BCCC1146	99%	2,004.0 µg/mL	+/- 112.6024

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

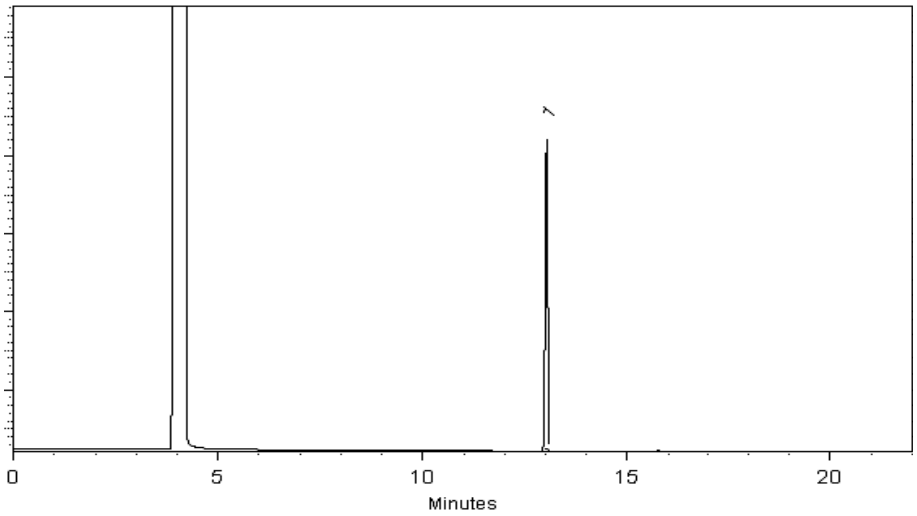
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 31-Aug-2023 **Balance Serial #** 1128342314

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Sep-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_c14dcb_Nt_00004

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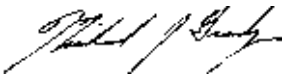
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
cis-1,4-Dichloro-2-butene - 95%

Product Number:	**195707**
Batch Number:	**SHBH4584V**
Brand:	ALDRICH
CAS Number:	1476-11-5
MDL Number:	MFCD00062950
Formula:	C4H6Cl2
Formula Weight:	125.00 g/mol
Storage Temperature:	Store at 2 - 8 °C
Quality Release Date:	30 AUG 2016

Test	Specification	Result
Appearance (Color)	Colorless to Light Yellow	Very Faint Yellow
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 94.5 %	98.0 %



Michael Grady, Manager
Quality Control
Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Reagent

MSV_CCV_GASES_01016

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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488 **Lot No.:** A0212054

Description : Custom Gases Standard

Custom Gases Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,016.7 µg/mL	+/- 114.0219
2	Chloromethane (methyl chloride)	74-87-3	SHBP8835	99%	2,015.3 µg/mL	+/- 115.0747
3	Vinyl chloride	75-01-4	00015559	99%	2,015.3 µg/mL	+/- 115.4962
4	1,3-Butadiene	106-99-0	00019375	99%	2,020.7 µg/mL	+/- 114.1301
5	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,025.3 µg/mL	+/- 114.3368
6	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,023.4 µg/mL	+/- 114.7120
7	Dichlorofluoromethane (CFC-21)	75-43-4	14485600	90%	2,019.6 µg/mL	+/- 113.4524
8	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,020.0 µg/mL	+/- 113.4748
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4	877500	99%	2,021.2 µg/mL	+/- 114.0989

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

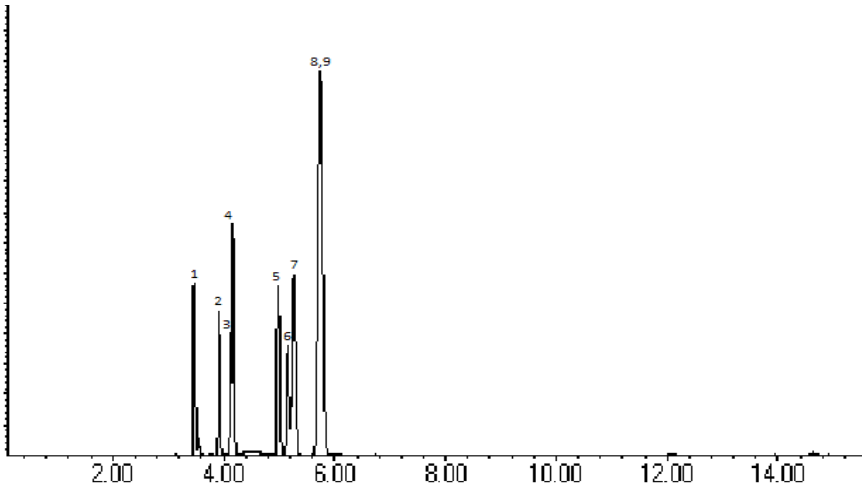
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 28-May-2024 **Balance Serial #** B251644995

Dillan Murphy - Operations Technician I

Date Passed: 03-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Cus826_IS_00179

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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0138205

Description : Custom 8260A IS Mix

Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	tert-Butyl Alcohol-d10		12,613.8	µg/mL	+/- 73.3376	µg/mL	Gravimetric
	CAS # 53001-22-2	(Lot PR-29485)			+/- 270.0624	µg/mL	Unstressed
	Purity 98%				+/- 277.9136	µg/mL	Stressed
2	Fluorobenzene		2,517.8	µg/mL	+/- 14.6387	µg/mL	Gravimetric
	CAS # 462-06-6	(Lot BCBK8171V)			+/- 53.9064	µg/mL	Unstressed
	Purity 99%				+/- 55.4736	µg/mL	Stressed
3	Chlorobenzene-d5		2,518.8	µg/mL	+/- 14.6445	µg/mL	Gravimetric
	CAS # 3114-55-4	(Lot PR-22736)			+/- 53.9278	µg/mL	Unstressed
	Purity 99%				+/- 55.4956	µg/mL	Stressed
4	1,4-Dichlorobenzene-d4		2,511.0	µg/mL	+/- 14.5992	µg/mL	Gravimetric
	CAS # 3855-82-1	(Lot PR-18488)			+/- 53.7608	µg/mL	Unstressed
	Purity 99%				+/- 55.3237	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat:#10910)

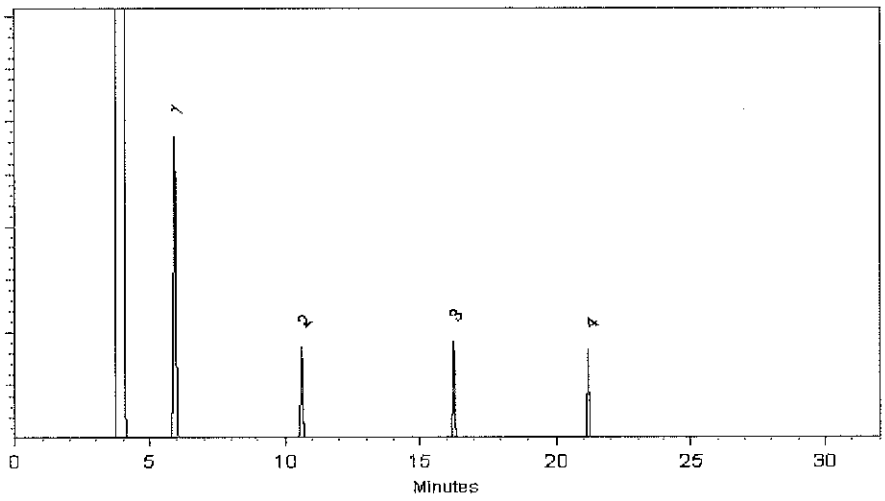
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 21-May-2018 **Balance:** 1128342314

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 23-May-2018

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0203141

Description : Custom 8260A IS Mix

Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,504.0 µg/mL	+/- 155.5359
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,503.5 µg/mL	+/- 31.1565
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,502.0 µg/mL	+/- 31.1378
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,504.5 µg/mL	+/- 31.1689

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

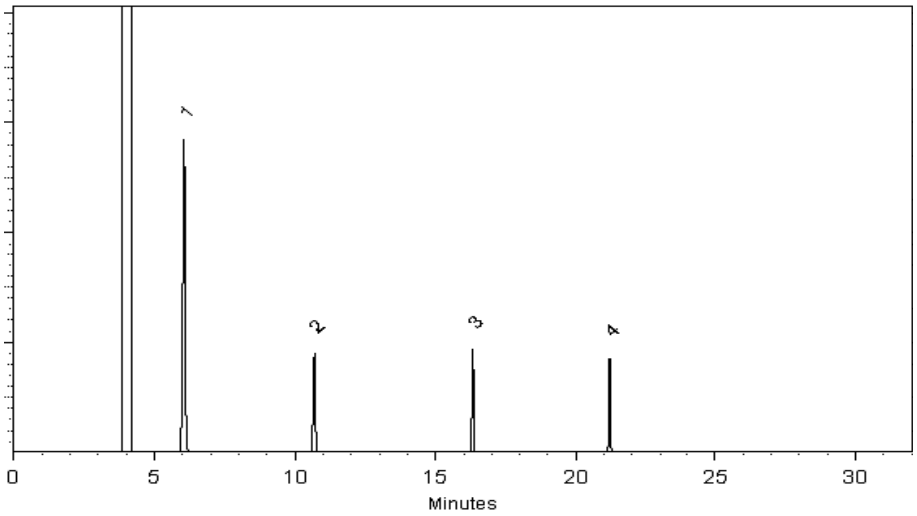
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 13-Oct-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Oct-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_Cus826_IS_00748

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558267 **Lot No.:** A0203141

Description : Custom 8260A IS Mix

Custom 8260A IS Mix 2,500-12,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methyl-2-propanol-d10	53001-22-2	PR-29961	99%	12,504.0 µg/mL	+/- 155.5359
2	Fluorobenzene	462-06-6	BCBZ5549	99%	2,503.5 µg/mL	+/- 31.1565
3	Chlorobenzene-d5	3114-55-4	PR-29571	99%	2,502.0 µg/mL	+/- 31.1378
4	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,504.5 µg/mL	+/- 31.1689

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

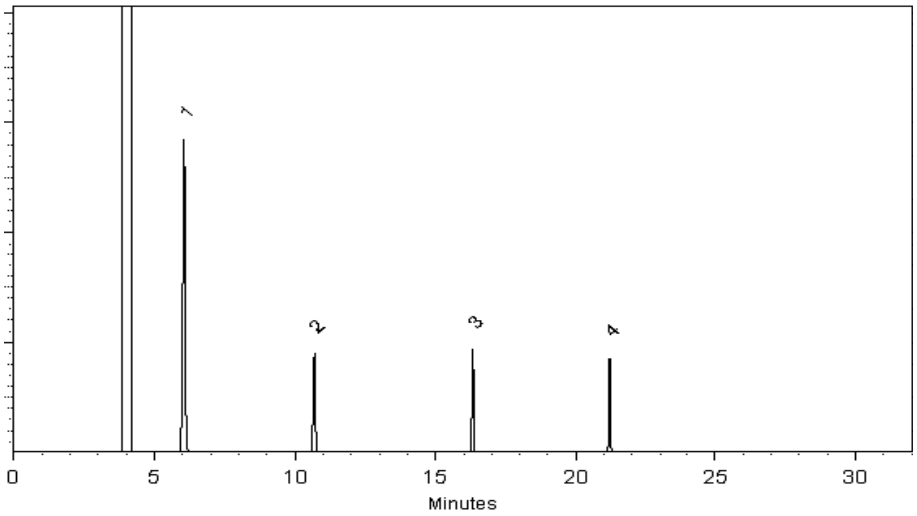
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 13-Oct-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Oct-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_DCFM_00035

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-61-10X
Description: Dichlorofluoromethane
Lot: 220101035
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Oct 6, 2020
Expiration: Oct 6, 2030
Sample Size: 1 mL
Components: 1
Storage Condition: Refrig (0-5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
Dichlorofluoromethane	75-43-4	98.0	2006	1966

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

7/30/2025
1:47:08 PM

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

Reagent

MSV_DME_00027

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 72297
Lot Number: 081920
Description: Methyl ether
[Dimethyl ether]
Expiration Date: 081925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 23060

Solvent(s): **Lot#**
Methanol DX932-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

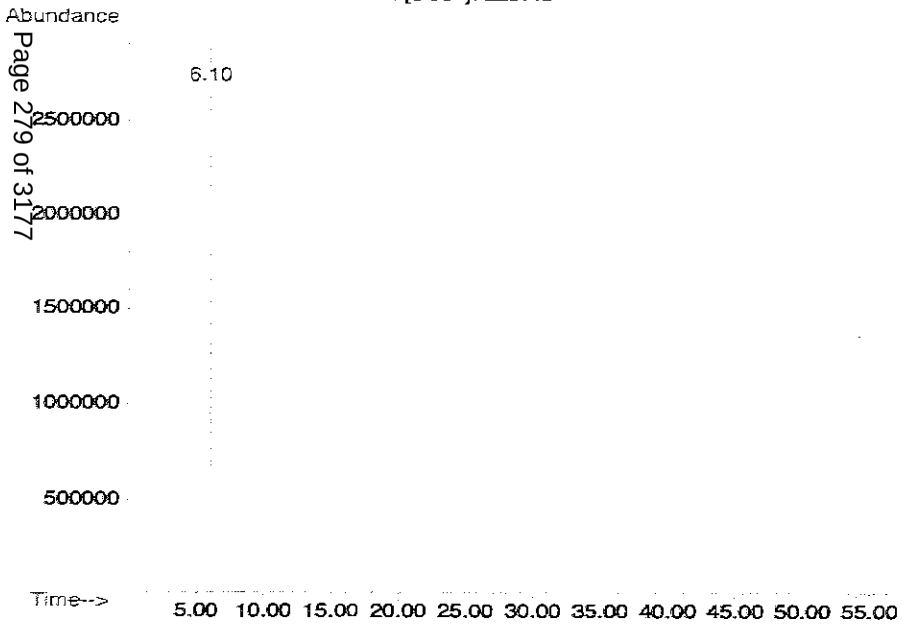
Formulated By: Vincent K. Criscio, Jr. 081920 DATE

Reviewed By: Pedro L. Rentas 081920 DATE

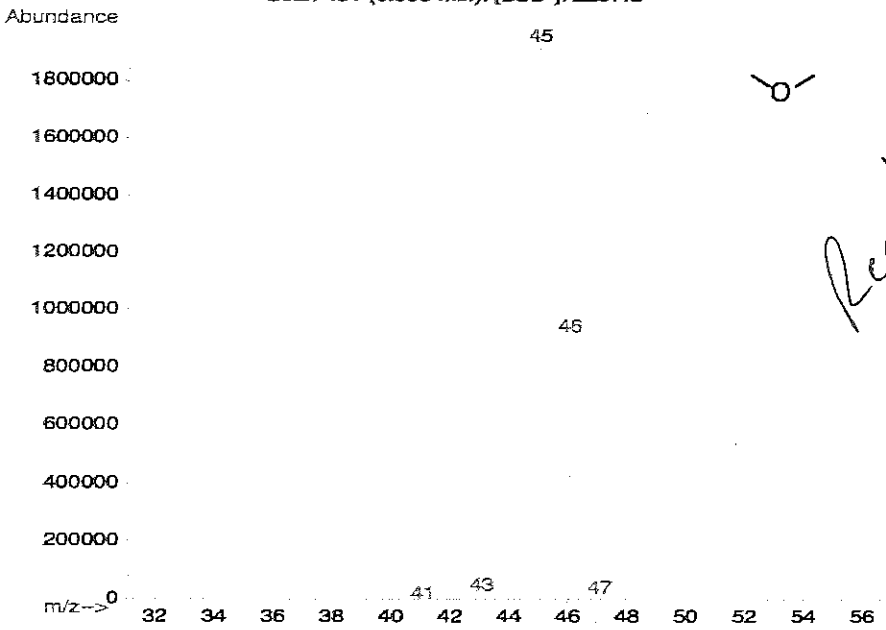
Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Methyl ether	2297	00225LO	1000	99	0.2	0.10101	0.1020	1009.8	4.2	115-10-6	N/A	N/A

Method: GC6GAS. **Detector:** MSD (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1=35°C (9 min.), Temp. 2=200°C (1 min.), Rate=33°C/min., Injector Temp.=200°C, Detector Temp.=200°C. **Analyst:** Candice Warren.

TIC: [BSB*]72297.D



Scan 461 (6.098 min): [BSB*]72297.D



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rec'd 9/8/2020

Page 279 of 3177
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Reagent

MSV_DME_00064

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 564156 **Lot No.:** A0220508

Description : Custom Dimethyl Ether Standard

Custom Dimethyl Ether Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl ether (dimethyl ether)	115-10-6	00023399	99%	1,004.7 µg/mL	+/- 16.3917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

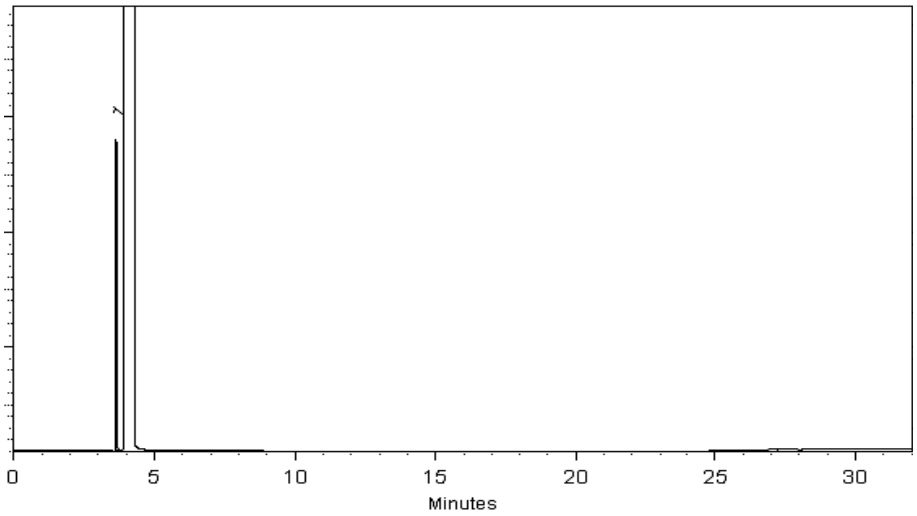
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 27-Dec-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_DME_00072

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 564156 **Lot No.:** A0220508

Description : Custom Dimethyl Ether Standard

Custom Dimethyl Ether Standard 1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl ether (dimethyl ether)	115-10-6	00023399	99%	1,004.7 µg/mL	+/- 16.3917

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

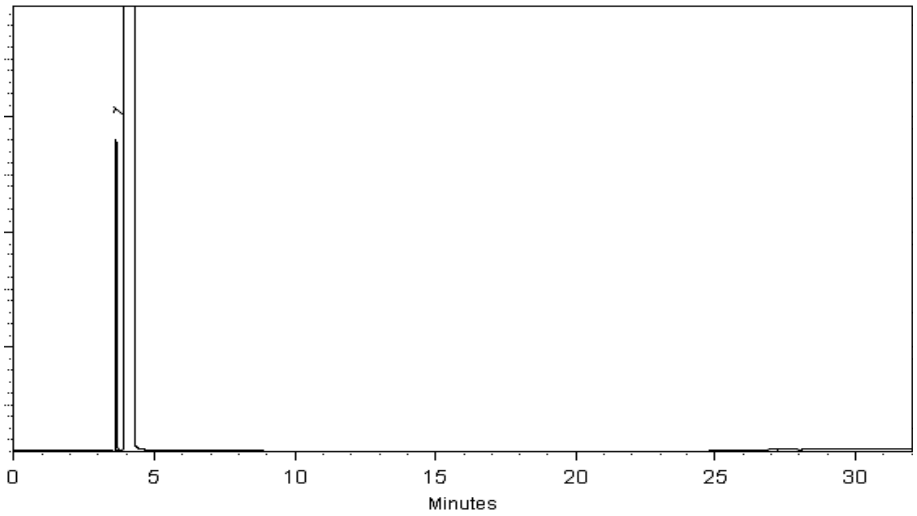
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 27-Dec-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_EE_Neat_00003

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Ethyl ether

CATALOG NUMBER	N-11897-1G
LOT NUMBER	7967000
DATE CERTIFIED	11/16/18
EXPIRATION DATE	11/30/21
CAS NUMBER	60-29-7
MOLECULAR FORMULA	C4H10O
MOLECULAR WEIGHT	74.12
STORAGE	Store under refrigeration.
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.
ISO GUIDE 34 CERTIFIED	[ ]

Analytical Test	Value
% PURITY (GC/TCD)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

Chem Service, Inc. is accredited to ISO Guide 34:2009, ISO/IEC 17025:2005 and certified to ISO 9001:2008

ISO/IEC 17025 Accreditation Number 63520
ISO GUIDE 34 Accreditation Number 63520

COA Form
Revision 3 (3/2015)

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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

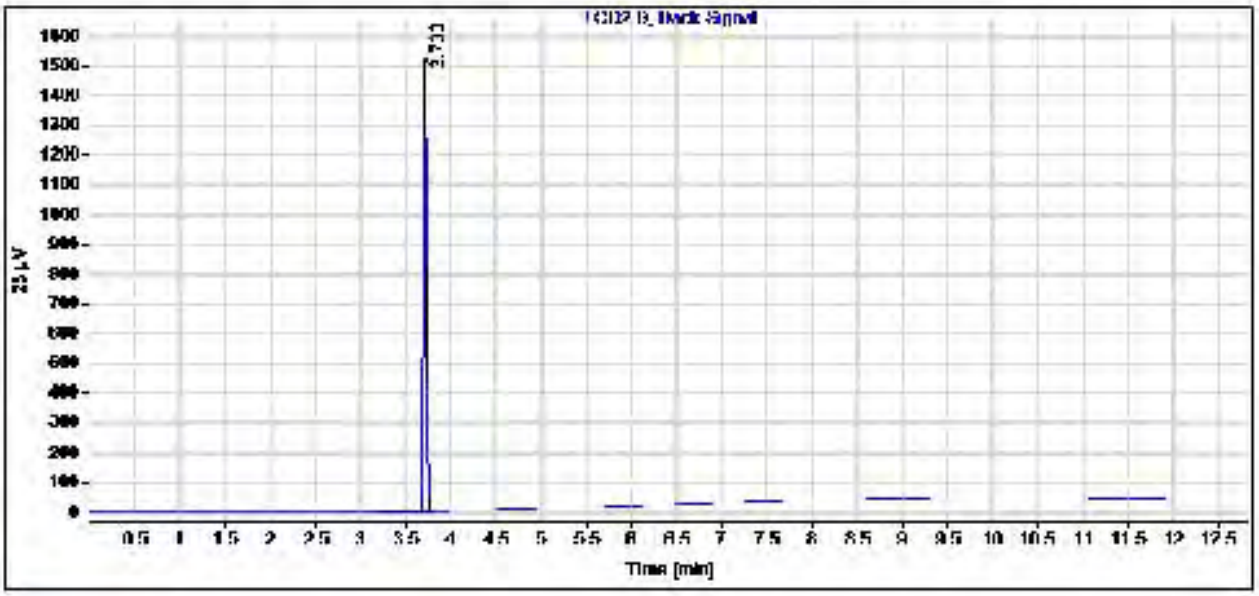
CERTIFICATE OF ANALYSIS

Gas Chromatography / Thermal Conductivity Detector (GC/TCD)

Data file: C:\CHEM32\1\DATA\2018 DATA\1118\SIG2080873.D
Sample name: Ethyl ether

Instrument: GC 1
Injection date: 11/16/2018 10:06:22 AM
Acq. method: TCD_M
Column name: DB-624 (30m x 0.53mm x 3.0um)

Sample type: Sample
Location: Vial 1
Injection volume: 1.0uL



Signal: TCD2 B, Back Signal

RT [min]	Type	Width [min]	Area	Height	Area%
3.706	BV	0.0361	3473.9382	1497.5255	100.0000
		Sum	3473.9382		

Reagent

MSV_EtBr_00002

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Ethyl bromide

CATALOG NUMBER	N-11888-1G
LOT NUMBER	10795800
DATE CERTIFIED	05/27/20
EXPIRATION DATE	05/31/23
CAS NUMBER	74-96-4
MOLECULAR FORMULA	C2H5Br
MOLECULAR WEIGHT	108.97
STORAGE	Store at room temperature (20 - 25 °C).
HANDLING	See Safety Data Sheet
INTENDED USE	For laboratory use only.

Analytical Test	Value
% PURITY (GC/FID)	99.5

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

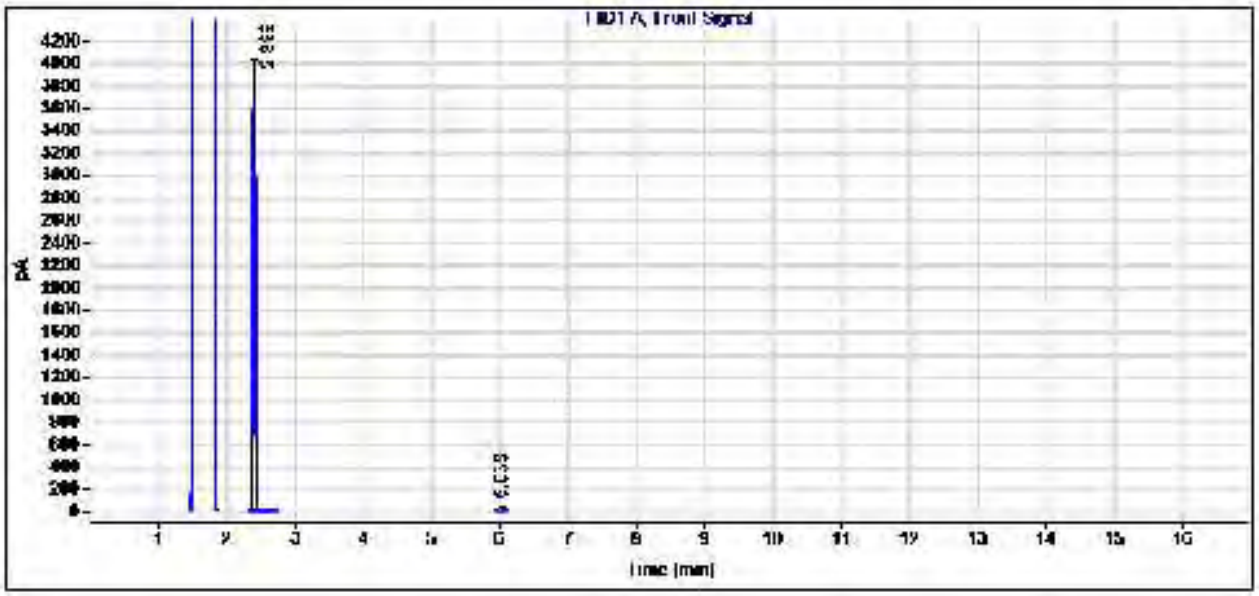
CERTIFICATE OF ANALYSIS

Gas Chromatography / Flame Ionization Detector (GC/FID)

Data file: C:\CHEM32\1\DATA\2020 DATA\0520\FID042273.D

Sample name: Bromoethane

Instrument:	GC 1	**Sample type:**	Sample
Injection date:	5/27/2020 10:27:10 AM	**Location:**	Vial 31
Acq. method:	MIX1.M	**Injection volume:**	1.0uL
Column name:	DB-624 (30m x 0.53mm x 3.0um)		



Signal: FID1 A, Front Signal

RT [min]	Type	Width [min]	Area	Height	Area%
2.399	BB S	0.0309	7828.1636	3985.3660	99.8275
6.036	BB	0.0336	13.5242	6.1630	0.1725
		Sum	7841.6877		

Reagent

MSV_MegaMIX#1_00234

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577486 **Lot No.:** A0211483

Description : Custom VOC MegaMix® #1 Standard

Custom VOC MegaMix® #1 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,1-dichloroethene	75-35-4	SHBG8609V	99%	5,038.8 µg/mL	+/- 283.8004
2	Methylene chloride (dichloromethane)	75-09-2	231383	99%	5,013.9 µg/mL	+/- 282.3994
3	trans-1,2-Dichloroethene	156-60-5	MKCP9516	99%	5,020.8 µg/mL	+/- 282.7901
4	1,1-Dichloroethane	75-34-3	852900	99%	5,007.1 µg/mL	+/- 282.0157
5	2,2-Dichloropropane	594-20-7	RP231114CTH	99%	5,045.8 µg/mL	+/- 284.2162
6	cis-1,2-Dichloroethene	156-59-2	MKCP7830	99%	5,049.3 µg/mL	+/- 284.4180
7	chloroform	67-66-3	SHBN8469	99%	5,032.5 µg/mL	+/- 283.4484
8	Bromochloromethane	74-97-5	S231117RSR	99%	5,043.2 µg/mL	+/- 284.0707
9	1,1,1-trichloroethane	71-55-6	RD230728RSR	99%	5,043.7 µg/mL	+/- 284.0785
10	1,1-Dichloropropene	563-58-6	S240215ECS	99%	5,045.2 µg/mL	+/- 284.1833
11	carbon tetrachloride	56-23-5	SHBP4875	99%	5,042.8 µg/mL	+/- 284.0292
12	1,2-Dichloroethane	107-06-2	SHBQ5408	99%	5,007.8 µg/mL	+/- 282.0579
13	Benzene	71-43-2	MKCS3357	99%	5,011.2 µg/mL	+/- 282.2682
14	Trichloroethene	79-01-6	SHBQ6161	99%	5,019.9 µg/mL	+/- 282.7408
15	1,2-Dichloropropane	78-87-5	BCBR0882V	99%	5,041.1 µg/mL	+/- 283.9307
16	bromodichloromethane	75-27-4	MKCF8470	99%	5,014.1 µg/mL	+/- 282.4134

17	Dibromomethane	74-95-3	107151T06C	99%	5,019.6	µg/mL	+/- 282.7423
18	cis-1,3-Dichloropropene	10061-01-5	RP231025CTH	99%	5,036.1	µg/mL	+/- 283.6490
19	Toluene	108-88-3	MKCS9989	99%	5,027.9	µg/mL	+/- 283.2117
20	trans-1,3-Dichloropropene	10061-02-6	RP231025CTH-1	98%	5,002.6	µg/mL	+/- 281.7640
21	1,1,2-Trichloroethane	79-00-5	FGB01	99%	5,010.4	µg/mL	+/- 282.2022
22	1,3-Dichloropropane	142-28-9	BCCH5357	99%	5,043.1	µg/mL	+/- 284.0660
23	Tetrachloroethene	127-18-4	SHBQ0051	99%	5,014.8	µg/mL	+/- 282.4522
24	dibromochloromethane	124-48-1	MKCT4871	99%	5,042.3	µg/mL	+/- 283.9976
25	1,2-Dibromoethane (EDB)	106-93-4	BCCH7113	99%	5,041.7	µg/mL	+/- 283.9862
26	Chlorobenzene	108-90-7	SHBN6640	99%	5,013.3	µg/mL	+/- 282.3642
27	1,1,1,2-Tetrachloroethane	630-20-6	TMWGK	99%	5,025.2	µg/mL	+/- 283.0568
28	Ethylbenzene	100-41-4	094632T20F	99%	5,042.0	µg/mL	+/- 284.0050
29	m-Xylene	108-38-3	SHBN6673	99%	5,042.2	µg/mL	+/- 284.0143
30	p-Xylene	106-42-3	SHBP5191	99%	5,038.1	µg/mL	+/- 283.7843
31	o-Xylene	95-47-6	50069309	99%	5,047.2	µg/mL	+/- 284.2960
32	Styrene	100-42-5	MKCQ3390	99%	5,038.9	µg/mL	+/- 283.8313
33	Isopropylbenzene (cumene)	98-82-8	Z20D022	99%	5,022.8	µg/mL	+/- 282.9253
34	bromoform	75-25-2	050494L04R	99%	5,036.9	µg/mL	+/- 283.6948
35	1,1,2,2-Tetrachloroethane	79-34-5	QQJ4I	99%	5,032.5	µg/mL	+/- 283.4484
36	1,2,3-Trichloropropane	96-18-4	Q91-34	98%	5,042.7	µg/mL	+/- 284.0428
37	n-Propylbenzene	103-65-1	095067T18C	99%	5,028.8	µg/mL	+/- 283.2586
38	Bromobenzene	108-86-1	MKCQ7174	99%	5,026.8	µg/mL	+/- 283.1460
39	1,3,5-Trimethylbenzene	108-67-8	BCCH6852	99%	5,023.1	µg/mL	+/- 282.9394
40	2-Chlorotoluene	95-49-8	235783M23T	99%	5,028.7	µg/mL	+/- 283.2539
41	4-Chlorotoluene	106-43-4	BCCG9286	99%	5,043.9	µg/mL	+/- 284.1129
42	tert-Butylbenzene	98-06-6	STBJ1937	99%	5,047.3	µg/mL	+/- 284.3054
43	1,2,4-Trimethylbenzene	95-63-6	MKCS3775	99%	5,046.3	µg/mL	+/- 284.2490
44	sec-Butylbenzene	135-98-8	MKCP2266	99%	5,044.3	µg/mL	+/- 284.1364
45	p-Isopropyltoluene (p-Cymene)	99-87-6	MKCS1827	99%	5,035.8	µg/mL	+/- 283.6576
46	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	5,034.6	µg/mL	+/- 283.5646
47	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	5,015.5	µg/mL	+/- 282.4909
48	n-Butylbenzene	104-51-8	09418JJ	99%	5,034.7	µg/mL	+/- 283.5919
49	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	5,012.9	µg/mL	+/- 282.3466
50	1,2-Dibromo-3-chloropropane	96-12-8	HBMVB	97%	5,029.4	µg/mL	+/- 283.2935
51	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	5,042.1	µg/mL	+/- 284.0096
52	Hexachlorobutadiene	87-68-3	X05J	99%	5,023.4	µg/mL	+/- 282.9582

53	Naphthalene	91-20-3	STBL1057	99%	5,008.3	µg/mL	+/- 282.1039
54	1,2,3-Trichlorobenzene	87-61-6	MKBX7627V	99%	5,037.8	µg/mL	+/- 283.7656

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

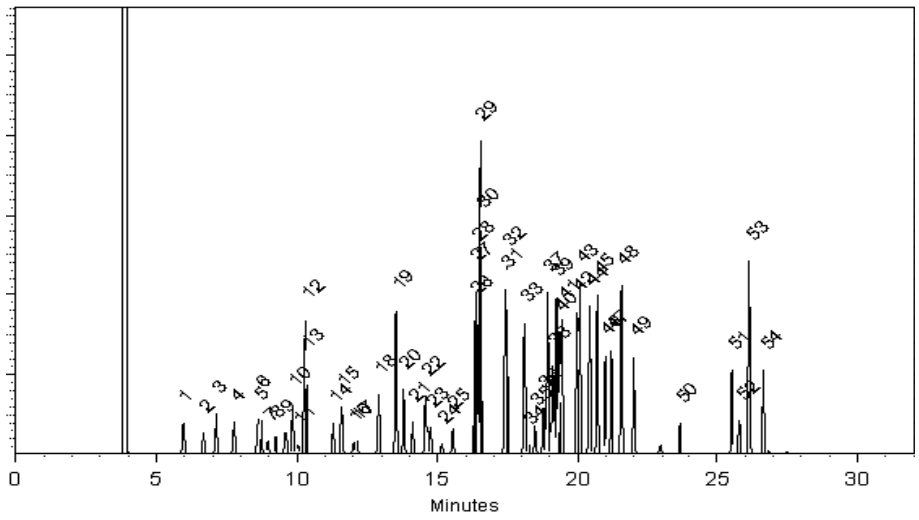
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 15-May-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_MegaMix#2_00232

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577487 **Lot No.:** A0212010

Description : Custom VOC MegaMix® #2 Standard

Custom VOC MegaMix® #2 Standard 5000-62500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	n-Pentane (C5)	109-66-0	STBK5006	99%	5,041.0 µg/mL	+/- 84.9562
2	2-Propanol (isopropanol)	67-63-0	SHBR1699	99%	25,199.0 µg/mL	+/- 412.0520
3	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	00009482	99%	5,039.2 µg/mL	+/- 84.9253
4	tert-Butanol (TBA)	75-65-0	SHBQ8002	99%	25,207.0 µg/mL	+/- 412.1828
5	Methyl acetate	79-20-9	SHBP3100	99%	5,037.0 µg/mL	+/- 84.8888
6	Iodomethane (methyl iodide)	74-88-4	RD240405RSR	99%	5,048.3 µg/mL	+/- 85.0798
7	Allyl chloride (3-chloropropene)	107-05-1	RD240221ECS	99%	5,046.7 µg/mL	+/- 85.0517
8	Carbon disulfide	75-15-0	Q30J743	99%	5,036.0 µg/mL	+/- 84.8719
9	Acrylonitrile	107-13-1	MKCN8129	99%	12,598.0 µg/mL	+/- 206.0015
10	Methyl-tert-butyl ether (MTBE)	1634-04-4	SHBQ4873	99%	5,040.7 µg/mL	+/- 84.9506
11	n-Hexane (C6)	110-54-3	102412P22T	99%	5,042.5 µg/mL	+/- 84.9815
12	Diisopropyl ether (DIPE)	108-20-3	STBK8028	99%	5,042.7 µg/mL	+/- 84.9843
13	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	S240508RSR	99%	5,049.7 µg/mL	+/- 85.1023
14	Ethyl-tert-butyl ether (ETBE)	637-92-3	MKCT4522	98%	5,049.9 µg/mL	+/- 85.1069
15	Propionitrile	107-12-0	BCCH7430	99%	25,211.0 µg/mL	+/- 412.2482
16	Methacrylonitrile	126-98-7	1012014	99%	12,613.0 µg/mL	+/- 206.2467

17	Isobutanol (2-Methyl-1-propanol)	78-83-1	SHBR1206	99%	63,123.0	µg/mL	+/-	1,032.1821
18	Tetrahydrofuran	109-99-9	SHBQ8516	99%	25,247.0	µg/mL	+/-	412.8369
19	Cyclohexane	110-82-7	MKCS9749	99%	5,046.2	µg/mL	+/-	85.0433
20	1-Butanol	71-36-3	101601K21K	99%	63,110.0	µg/mL	+/-	1,031.9695
21	tert-Amyl methyl ether (TAME)	994-05-8	HMBJ0825	99%	5,038.5	µg/mL	+/-	84.9141
22	n-Heptane (C7)	142-82-5	044743T03G	99%	5,049.2	µg/mL	+/-	85.0938
23	tert-Amyl ethyl ether (TAEE)	919-94-8	IKVYB	97%	5,038.8	µg/mL	+/-	84.9196
24	Methylcyclohexane	108-87-2	SHBN1699	99%	5,044.8	µg/mL	+/-	85.0208
25	Methyl methacrylate	80-62-6	MKCQ2756	99%	5,048.0	µg/mL	+/-	85.0742
26	1,4-Dioxane	123-91-1	SHBQ2407	99%	63,103.0	µg/mL	+/-	1,031.8550
27	2-Nitropropane	79-46-9	BCCB9352	97%	25,238.4	µg/mL	+/-	412.6967
28	Ethyl methacrylate	97-63-2	MKCN6206	97%	5,046.9	µg/mL	+/-	85.0558
29	1-Chlorohexane	544-10-5	BCBS3368V	99%	5,044.5	µg/mL	+/-	85.0152
30	trans-1,4-dichloro-2-butene	110-57-6	RP240130CTH	98%	12,602.8	µg/mL	+/-	206.0799
31	1,2,3-Trimethylbenzene	526-73-8	8776.10-38	99%	5,043.7	µg/mL	+/-	85.0012
32	1,3-Diethylbenzene	141-93-5	BCBZ6270	99%	5,048.3	µg/mL	+/-	85.0798
33	Benzyl chloride	100-44-7	MKCM5986	99%	5,039.8	µg/mL	+/-	84.9365
34	1,4-Diethylbenzene	105-05-5	1135.72-1	99%	5,048.2	µg/mL	+/-	85.0770
35	1,2-Diethylbenzene	135-01-3	BCCG9282	99%	5,049.3	µg/mL	+/-	85.0967
36	1,3,5-Trichlorobenzene	108-70-3	11319AS	99%	5,046.3	µg/mL	+/-	85.0461
37	2-Methylnaphthalene	91-57-6	STBL3028	99%	5,045.0	µg/mL	+/-	85.0236

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

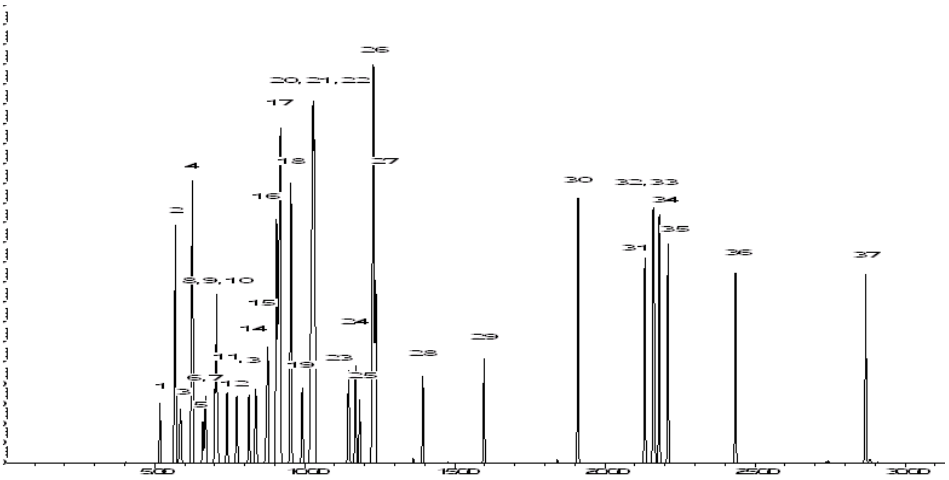
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
25.0 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 24-May-2024 **Balance Serial #** B251644995

Marlina Cowan -- Operations Tech II ARM QC

Date Passed: 30-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_QAcetate_00023

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 54590.SEC **Lot No.:** A0155415

Description : Custom Q Acetate Standard

Custom Q Acetate Standard 200-1,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Vinyl acetate		1,003.2 µg/mL	+/- 13.4249 µg/mL	Gravimetric
	CAS # 108-05-4.SEC	(Lot 190320CGKJ)		+/- 61.7235 µg/mL	Unstressed
	Purity 99%			+/- 61.8644 µg/mL	Stressed
2	Ethyl acetate		201.0 µg/mL	+/- 2.6961 µg/mL	Gravimetric
	CAS # 141-78-6.SEC	(Lot C386A-GG)		+/- 12.3682 µg/mL	Unstressed
	Purity 99%			+/- 12.3964 µg/mL	Stressed
3	Isopropyl acetate		200.0 µg/mL	+/- 2.6827 µg/mL	Gravimetric
	CAS # 108-21-4.SEC	(Lot FGL01)		+/- 12.3067 µg/mL	Unstressed
	Purity 99%			+/- 12.3348 µg/mL	Stressed
4	Propyl acetate		200.0 µg/mL	+/- 2.6827 µg/mL	Gravimetric
	CAS # 109-60-4.SEC	(Lot 929400)		+/- 12.3067 µg/mL	Unstressed
	Purity 99%			+/- 12.3348 µg/mL	Stressed
5	Butyl acetate		201.8 µg/mL	+/- 2.7068 µg/mL	Gravimetric
	CAS # 123-86-4.SEC	(Lot V2L2G-GT)		+/- 12.4174 µg/mL	Unstressed
	Purity 99%			+/- 12.4458 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution , and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

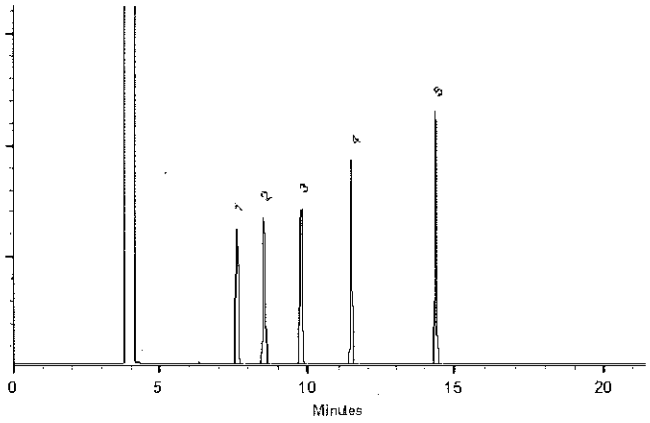
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brandon Reish - Mix Technician

Date Mixed: 27-Nov-2019 **Balance:** 1127510105

Justine Albertson - Operations Tech-ARM QC

Date Passed: 04-Dec-2019

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_QC_2K_GAS_00303

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0211460

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28888	99%	2,002.3 µg/mL	+/- 116.3467
2	Chloromethane (methyl chloride)	74-87-3.SEC	00022694	99%	2,014.2 µg/mL	+/- 117.1824
3	Vinyl chloride	75-01-4 *	00015559	99%	2,009.3 µg/mL	+/- 117.9630
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,030.2 µg/mL	+/- 117.6986
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,017.1 µg/mL	+/- 136.9230
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,005.3 µg/mL	+/- 122.7081
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,016.0 µg/mL	+/- 113.2616
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,020.0 µg/mL	+/- 113.4863
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	877500	99%	2,005.1 µg/mL	+/- 115.4133

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

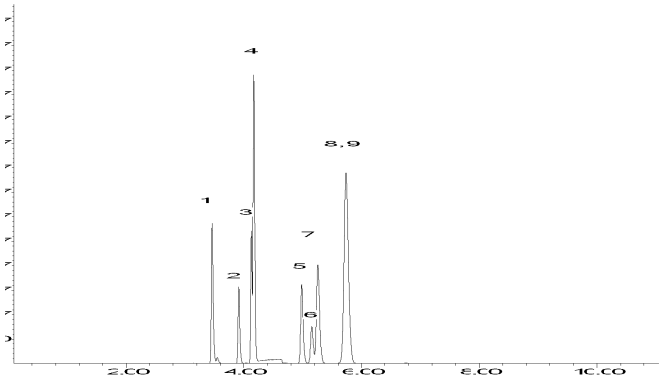
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-May-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 22-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Reagent

MSV_QC_2K_GAS_00310

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577488.SEC **Lot No.:** A0211460

Description : Custom Gases.SEC Standard

Custom Gases.SEC Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8.SEC	28888	99%	2,002.3 µg/mL	+/- 116.3467
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3	Vinyl chloride	75-01-4 *	00015559	99%	2,009.3 µg/mL	+/- 117.9630
4	1,3-Butadiene	106-99-0.SEC	28539	99%	2,030.2 µg/mL	+/- 117.6986
5	Bromomethane (methyl bromide)	74-83-9 *	00017022	99%	2,017.1 µg/mL	+/- 136.9230
6	Chloroethane (ethyl chloride)	75-00-3.SEC	00021903	99%	2,005.3 µg/mL	+/- 122.7081
7	Dichlorofluoromethane (CFC-21)	75-43-4 *	14485600	90%	2,016.0 µg/mL	+/- 113.2616
8	Trichlorofluoromethane (CFC-11)	75-69-4.SEC	00010739	99%	2,020.0 µg/mL	+/- 113.4863
9	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	354-23-4 *	877500	99%	2,005.1 µg/mL	+/- 115.4133

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

*** Restek is unable to identify a reliable and/or acceptable second source for this material - the same batch of neat material may have been used to produce both the primary and secondary standard. The primary and secondary standards were prepared using different equipment and personnel.**

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

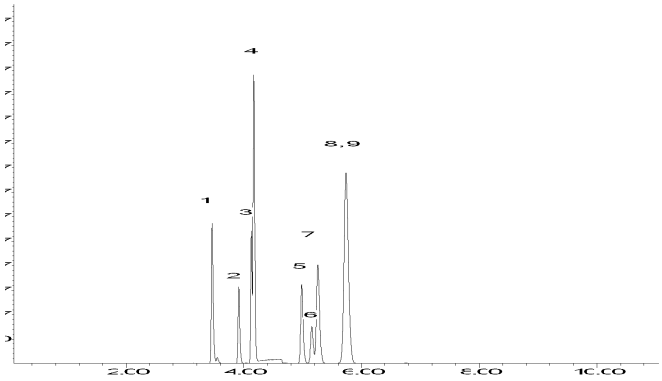
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Matt Fragassi - Mix Technician

Date Mixed: 15-May-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 22-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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Reagent

MSV_V#1B_00146

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569936-1 **Lot No.:** A0158586

Description : Custom Revised V #1B Standard

Custom Revised V #1B Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,1-dichloroethene **CAS #** 75-35-4 (Lot SHBK2437) **Purity** 99%	5,011.4 µg/mL	+/- 31.9644 µg/mL +/- 281.2901 µg/mL +/- 287.8577 µg/mL	Gravimetric Unstressed Stressed
2	Methylene chloride (dichloromethane) **CAS #** 75-09-2 (Lot SHBL3107) **Purity** 99%	5,004.6 µg/mL	+/- 31.9213 µg/mL +/- 280.9112 µg/mL +/- 287.4700 µg/mL	Gravimetric Unstressed Stressed
3	trans-1,2-Dichloroethene **CAS #** 156-60-5 (Lot MKBH9850V) **Purity** 99%	5,017.5 µg/mL	+/- 32.0035 µg/mL +/- 281.6339 µg/mL +/- 288.2096 µg/mL	Gravimetric Unstressed Stressed
4	1,1-Dichloroethane **CAS #** 75-34-3 (Lot 580900) **Purity** 99%	5,020.4 µg/mL	+/- 32.0218 µg/mL +/- 281.7953 µg/mL +/- 288.3747 µg/mL	Gravimetric Unstressed Stressed
5	2,2-Dichloropropane **CAS #** 594-20-7 (Lot BCBT5124) **Purity** 99%	5,050.0 µg/mL	+/- 32.0202 µg/mL +/- 283.4366 µg/mL +/- 290.0553 µg/mL	Gravimetric Unstressed Stressed
6	cis-1,2-Dichloroethene **CAS #** 156-59-2 (Lot MKBX5945V) **Purity** 99%	5,046.5 µg/mL	+/- 31.9980 µg/mL +/- 283.2401 µg/mL +/- 289.8543 µg/mL	Gravimetric Unstressed Stressed
7	chloroform **CAS #** 67-66-3 (Lot SHBJ9076) **Purity** 99%	5,034.3 µg/mL	+/- 32.1103 µg/mL +/- 282.5741 µg/mL +/- 289.1717 µg/mL	Gravimetric Unstressed Stressed

8	1,1,1-trichloroethane		5,001.3	µg/mL	+/-	31.9002	µg/mL	Gravimetric
	CAS # 71-55-6	(Lot 190123CG)			+/-	280.7250	µg/mL	Unstressed
	Purity 98%				+/-	287.2795	µg/mL	Stressed
9	1,1-Dichloropropene		5,048.9	µg/mL	+/-	32.0131	µg/mL	Gravimetric
	CAS # 563-58-6	(Lot 170301JLM)			+/-	283.3734	µg/mL	Unstressed
	Purity 99%				+/-	289.9907	µg/mL	Stressed
10	carbon tetrachloride		5,022.9	µg/mL	+/-	32.0378	µg/mL	Gravimetric
	CAS # 56-23-5	(Lot SHBG8938V)			+/-	281.9356	µg/mL	Unstressed
	Purity 99%				+/-	288.5183	µg/mL	Stressed
11	1,2-Dichloroethane		5,007.9	µg/mL	+/-	31.9421	µg/mL	Gravimetric
	CAS # 107-06-2	(Lot MKCH9948)			+/-	281.0937	µg/mL	Unstressed
	Purity 99%				+/-	287.6567	µg/mL	Stressed
12	Benzene		5,042.9	µg/mL	+/-	31.9750	µg/mL	Gravimetric
	CAS # 71-43-2	(Lot SHBG7317V)			+/-	283.0367	µg/mL	Unstressed
	Purity 99%				+/-	289.6461	µg/mL	Stressed
13	Trichloroethene		5,012.9	µg/mL	+/-	31.9740	µg/mL	Gravimetric
	CAS # 79-01-6	(Lot SHBJ4611)			+/-	281.3743	µg/mL	Unstressed
	Purity 99%				+/-	287.9439	µg/mL	Stressed
14	1,2-Dichloropropane		5,012.6	µg/mL	+/-	31.9724	µg/mL	Gravimetric
	CAS # 78-87-5	(Lot BCBR0882V)			+/-	281.3603	µg/mL	Unstressed
	Purity 99%				+/-	287.9295	µg/mL	Stressed
15	bromodichloromethane		5,039.1	µg/mL	+/-	32.1414	µg/mL	Gravimetric
	CAS # 75-27-4	(Lot MKCJ0238)			+/-	282.8477	µg/mL	Unstressed
	Purity 99%				+/-	289.4517	µg/mL	Stressed
16	Dibromomethane		5,047.3	µg/mL	+/-	32.0027	µg/mL	Gravimetric
	CAS # 74-95-3	(Lot 10201030)			+/-	283.2822	µg/mL	Unstressed
	Purity 99%				+/-	289.8973	µg/mL	Stressed
17	cis-1,3-Dichloropropene		5,015.1	µg/mL	+/-	31.9883	µg/mL	Gravimetric
	CAS # 10061-01-5	(Lot 200107JLM)			+/-	281.5006	µg/mL	Unstressed
	Purity 99%				+/-	288.0731	µg/mL	Stressed
18	Toluene		5,031.9	µg/mL	+/-	31.9053	µg/mL	Gravimetric
	CAS # 108-88-3	(Lot SHBH9895)			+/-	282.4193	µg/mL	Unstressed
	Purity 99%				+/-	289.0143	µg/mL	Stressed
19	trans-1,3-Dichloropropene		5,003.8	µg/mL	+/-	31.9158	µg/mL	Gravimetric
	CAS # 10061-02-6	(Lot 19420164-D1219)			+/-	280.8621	µg/mL	Unstressed
	Purity 99%				+/-	287.4198	µg/mL	Stressed
20	1,1,2-Trichloroethane		5,015.4	µg/mL	+/-	31.9899	µg/mL	Gravimetric
	CAS # 79-00-5	(Lot FGB01)			+/-	281.5146	µg/mL	Unstressed
	Purity 99%				+/-	288.0875	µg/mL	Stressed
21	1,3-Dichloropropane		5,042.4	µg/mL	+/-	31.9718	µg/mL	Gravimetric
	CAS # 142-28-9	(Lot BCBG2162V)			+/-	283.0086	µg/mL	Unstressed
	Purity 99%				+/-	289.6173	µg/mL	Stressed
22	Tetrachloroethene		5,014.3	µg/mL	+/-	31.9827	µg/mL	Gravimetric
	CAS # 127-18-4	(Lot SHBJ7422)			+/-	281.4515	µg/mL	Unstressed
	Purity 99%				+/-	288.0229	µg/mL	Stressed
23	dibromochloromethane		5,016.1	µg/mL	+/-	31.9947	µg/mL	Gravimetric
	CAS # 124-48-1	(Lot MKCK6472)			+/-	281.5567	µg/mL	Unstressed
	Purity 99%				+/-	288.1306	µg/mL	Stressed

24	1,2-Dibromoethane (EDB) **CAS #** 106-93-4 **Purity** 99%	(Lot BCBP2268V)	5,037.4	µg/mL	+/- 31.9401 +/- 282.7280 +/- 289.3302	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	1-Chlorohexane **CAS #** 544-10-5 **Purity** 98%	(Lot BCBS3368V)	5,010.7	µg/mL	+/- 29.3390 +/- 280.9687 +/- 287.5420	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Chlorobenzene **CAS #** 108-90-7 **Purity** 99%	(Lot SHBJ0839)	5,009.0	µg/mL	+/- 31.9493 +/- 281.1568 +/- 287.7213	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	1,1,1,2-Tetrachloroethane **CAS #** 630-20-6 **Purity** 99%	(Lot MKBS3769V)	5,038.6	µg/mL	+/- 31.9481 +/- 282.7981 +/- 289.4020	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	Ethylbenzene **CAS #** 100-41-4 **Purity** 99%	(Lot SHBJ3183)	5,029.3	µg/mL	+/- 31.8886 +/- 282.2719 +/- 288.8635	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	m-Xylene **CAS #** 108-38-3 **Purity** 99%	(Lot SHBH8323)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	p-Xylene **CAS #** 106-42-3 **Purity** 99%	(Lot SHBJ0052)	5,038.0	µg/mL	+/- 31.9441 +/- 282.7630 +/- 289.3661	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	o-Xylene **CAS #** 95-47-6 **Purity** 99%	(Lot SHBH3432V)	5,046.4	µg/mL	+/- 31.9972 +/- 283.2331 +/- 289.8471	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	Styrene **CAS #** 100-42-5 **Purity** 99%	(Lot MKBV4061V)	5,047.0	µg/mL	+/- 32.0012 +/- 283.2682 +/- 289.8830	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	Isopropylbenzene (cumene) **CAS #** 98-82-8 **Purity** 99%	(Lot 10185056)	5,035.3	µg/mL	+/- 31.9267 +/- 282.6087 +/- 289.2081	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	bromoform **CAS #** 75-25-2 **Purity** 99%	(Lot SHBJ4835)	5,013.0	µg/mL	+/- 31.9748 +/- 281.3813 +/- 287.9511	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,1,2,2-Tetrachloroethane **CAS #** 79-34-5 **Purity** 99%	(Lot CFA4D)	5,016.0	µg/mL	+/- 31.9939 +/- 281.5497 +/- 288.1234	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	1,2,3-Trichloropropane **CAS #** 96-18-4 **Purity** 99%	(Lot BCBH8722V)	5,033.4	µg/mL	+/- 31.9148 +/- 282.5035 +/- 289.1004	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	n-Propylbenzene **CAS #** 103-65-1 **Purity** 99%	(Lot MKBJ0332V)	5,032.4	µg/mL	+/- 31.9084 +/- 282.4473 +/- 289.0430	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Bromobenzene **CAS #** 108-86-1 **Purity** 99%	(Lot WXBC5147V)	5,035.5	µg/mL	+/- 31.9282 +/- 282.6227 +/- 289.2225	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	1,3,5-Trimethylbenzene **CAS #** 108-67-8 **Purity** 99%	(Lot BCBS7648V)	5,029.8	µg/mL	+/- 31.8918 +/- 282.3000 +/- 288.8922	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	2-Chlorotoluene **CAS #** 95-49-8 **Purity** 99%	(Lot MKBW5554V)	5,037.5	µg/mL	+/- 31.9409 +/- 282.7350 +/- 289.3373	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	4-Chlorotoluene **CAS #** 106-43-4 **Purity** 99%	(Lot MKBL7753V)	5,039.1	µg/mL	+/- 31.9512 +/- 282.8262 +/- 289.4307	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	tert-Butylbenzene **CAS #** 98-06-6 **Purity** 99%	(Lot STBD6954V)	5,049.8	µg/mL	+/- 32.0186 +/- 283.4225 +/- 290.0409	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	1,2,4-Trimethylbenzene **CAS #** 95-63-6 **Purity** 98%	(Lot MKBJ6229V)	5,046.8	µg/mL	+/- 31.9996 +/- 283.2544 +/- 289.8689	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	sec-Butylbenzene **CAS #** 135-98-8 **Purity** 99%	(Lot MKBR9260V)	5,042.8	µg/mL	+/- 31.9742 +/- 283.0296 +/- 289.6389	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	p-Isopropyltoluene (p-Cymene) **CAS #** 99-87-6 **Purity** 99%	(Lot MKBV3556V)	5,038.4	µg/mL	+/- 31.9465 +/- 282.7841 +/- 289.3876	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	1,3-Dichlorobenzene **CAS #** 541-73-1 **Purity** 99%	(Lot BCBQ7100V)	5,017.6	µg/mL	+/- 32.0043 +/- 281.6409 +/- 288.2167	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	5,023.8	µg/mL	+/- 32.0433 +/- 281.9847 +/- 288.5686	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	n-Butylbenzene **CAS #** 104-51-8 **Purity** 99%	(Lot 09804AE)	5,024.8	µg/mL	+/- 31.8601 +/- 282.0194 +/- 288.6050	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBG3111V)	5,024.5	µg/mL	+/- 32.0481 +/- 282.0268 +/- 288.6117	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	1,2-Dibromo-3-chloropropane **CAS #** 96-12-8 **Purity** 99%	(Lot FBL01)	5,036.4	µg/mL	+/- 31.9338 +/- 282.6718 +/- 289.2727	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	1,3,5-Trichlorobenzene **CAS #** 108-70-3 **Purity** 99%	(Lot 11319AS)	5,034.0	µg/mL	+/- 29.4752 +/- 282.2729 +/- 288.8768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBJ0905)	5,036.5	µg/mL	+/- 31.9346 +/- 282.6789 +/- 289.2799	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot J31X013)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKBW2603V)	5,033.6	µg/mL	+/- 31.9164 +/- 282.5175 +/- 289.1148	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	1,2,3-Trichlorobenzene **CAS #** 87-61-6 **Purity** 99%	(Lot MKBS4859V)	5,016.0	µg/mL	+/- 31.8046 +/- 281.5283 +/- 288.1024	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.# 10910)

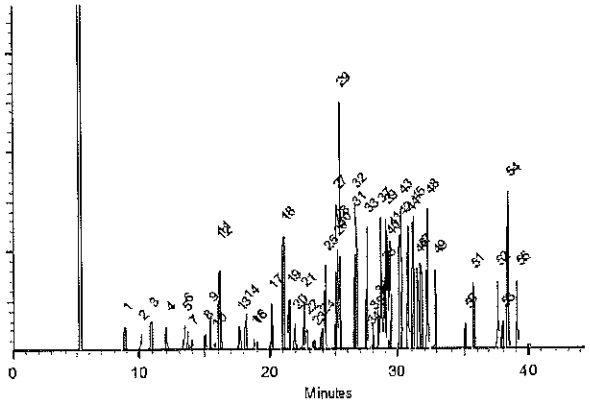
Carrier Gas:
hydrogen-constant pressure 8.0 psi.

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - QC Analyst

Date Passed: 11-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#2B_00197

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0159694

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

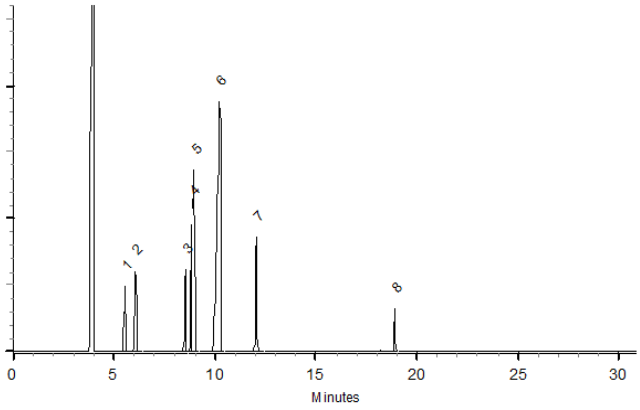
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#2B_00198

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0159694

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2022 **Storage:** 0°C or colder

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,019.2 µg/mL	+/- 146.4929 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,022.4 µg/mL	+/- 146.5117 µg/mL
3	Propionitrile	107-12-0	99%	25,020.0 µg/mL	+/- 146.4976 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,533.6 µg/mL	+/- 73.3870 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,702.0 µg/mL	+/- 367.1151 µg/mL
6	1-Butanol	71-36-3	99%	125,150.0 µg/mL	+/- 732.7430 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,550.0 µg/mL	+/- 366.2251 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	95%	12,549.5 µg/mL	+/- 73.4801 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

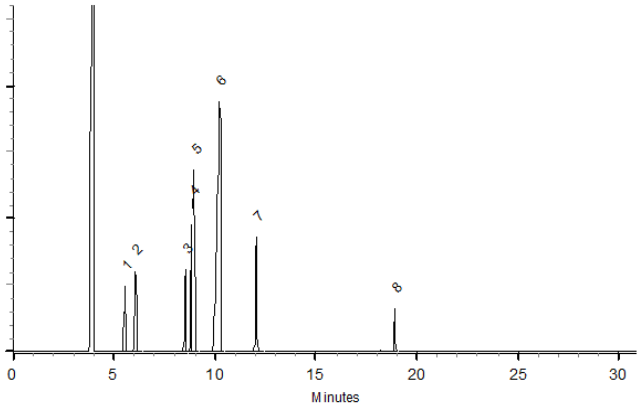
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Clara Windle - Operations Technician I

Date Mixed: 07-Apr-2020 **Balance:** B251644995

Fang-Yun Lo - QC Analyst

Date Passed: 10-Apr-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#2B_00426

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0211456

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,027.0 µg/mL	+/- 146.5386 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,028.0 µg/mL	+/- 146.5444 µg/mL
3	Propionitrile	107-12-0	99%	25,017.0 µg/mL	+/- 146.4800 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,514.0 µg/mL	+/- 73.2722 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,518.0 µg/mL	+/- 366.0566 µg/mL
6	1-Butanol	71-36-3	99%	125,047.0 µg/mL	+/- 732.1399 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,517.0 µg/mL	+/- 366.0508 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	98%	12,522.4 µg/mL	+/- 73.3216 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

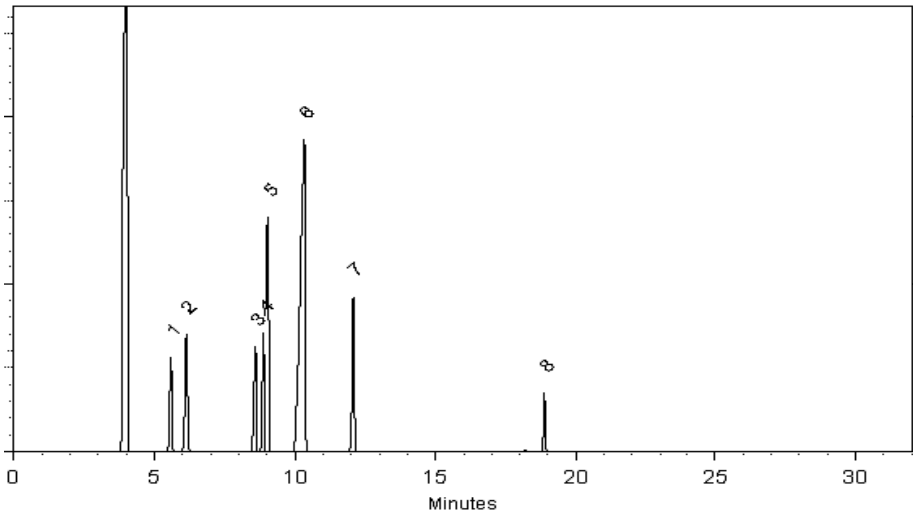
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 15-May-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V#2B_00428

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56734 **Lot No.:** A0211456

Description : Custom V # 2B Standard

Custom V #2B Standard 12,500-125,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

Elution Order	Compound	CAS #	Percent Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Propanol (isopropanol)	67-63-0	99%	25,027.0 µg/mL	+/- 146.5386 µg/mL
2	tert-Butanol (TBA)	75-65-0	99%	25,028.0 µg/mL	+/- 146.5444 µg/mL
3	Propionitrile	107-12-0	99%	25,017.0 µg/mL	+/- 146.4800 µg/mL
4	Methacrylonitrile	126-98-7	99%	12,514.0 µg/mL	+/- 73.2722 µg/mL
5	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	62,518.0 µg/mL	+/- 366.0566 µg/mL
6	1-Butanol	71-36-3	99%	125,047.0 µg/mL	+/- 732.1399 µg/mL
7	1,4-Dioxane	123-91-1	99%	62,517.0 µg/mL	+/- 366.0508 µg/mL
8	trans-1,4-dichloro-2-butene	110-57-6	98%	12,522.4 µg/mL	+/- 73.3216 µg/mL
Solvent:	P&T Methanol	67-56-1	99%		

Specific Reference Material Notes:

This RM (Reference Material) is not a CRM (Certified Reference Material) due to the 1-butanol concentration exceeding the maximum concentration on Restek's ISO Guide 34 scope of accreditation.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

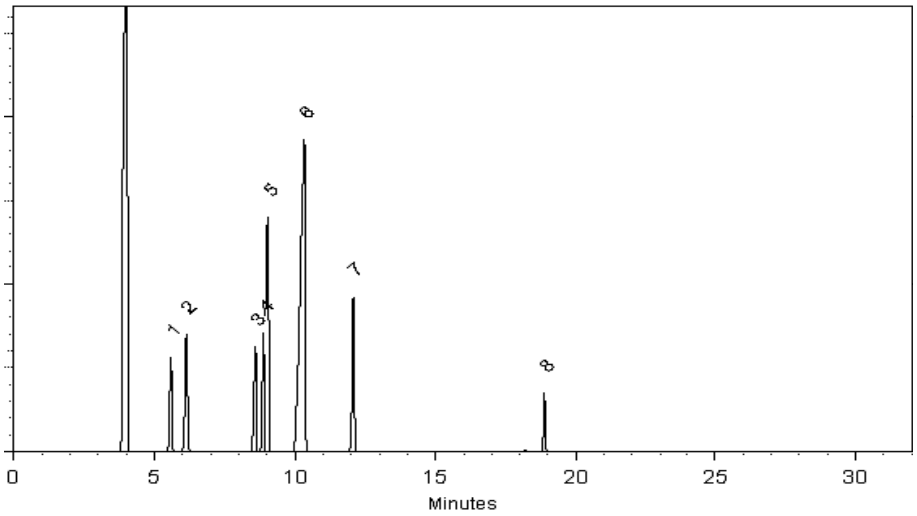
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 15-May-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 20-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the RM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Uncertainty Value Notes:

- Uncertainties are determined using data from balances and glassware, raw material purity, and, when significant, equipment tolerances or calibration results.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Reagent

MSV_V#3B_00085

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 56736 **Lot No.:** A0158677

Description : Custom V # 3B Standard

Custom V #3B Standard 12,500-25,000µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2023 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acetone	25,001.0 µg/mL	+/- 146.3864 µg/mL	Gravimetric
	CAS # 67-64-1 (Lot MKCK2598)		+/- 1,236.8670 µg/mL	Unstressed
	Purity 99%		+/- 1,267.6168 µg/mL	Stressed
2	Acrylonitrile	12,511.0 µg/mL	+/- 73.2547 µg/mL	Gravimetric
	CAS # 107-13-1 (Lot A0387097)		+/- 618.9529 µg/mL	Unstressed
	Purity 99%		+/- 634.3408 µg/mL	Stressed
3	2-Butanone (MEK)	25,007.0 µg/mL	+/- 146.4215 µg/mL	Gravimetric
	CAS # 78-93-3 (Lot SHBK9603)		+/- 1,237.1638 µg/mL	Unstressed
	Purity 99%		+/- 1,267.9210 µg/mL	Stressed
4	Tetrahydrofuran	25,049.0 µg/mL	+/- 146.6674 µg/mL	Gravimetric
	CAS # 109-99-9 (Lot SHBK8926)		+/- 1,239.2417 µg/mL	Unstressed
	Purity 99%		+/- 1,270.0505 µg/mL	Stressed
5	2-Nitropropane	24,758.3 µg/mL	+/- 144.9652 µg/mL	Gravimetric
	CAS # 79-46-9 (Lot BCCB9352)		+/- 1,224.8589 µg/mL	Unstressed
	Purity 97%		+/- 1,255.3102 µg/mL	Stressed
6	4-Methyl-2-pentanone (MIBK)	25,014.0 µg/mL	+/- 146.4625 µg/mL	Gravimetric
	CAS # 108-10-1 (Lot SHBL5515)		+/- 1,237.5101 µg/mL	Unstressed
	Purity 99%		+/- 1,268.2759 µg/mL	Stressed
7	2-Hexanone	25,016.0 µg/mL	+/- 146.4742 µg/mL	Gravimetric
	CAS # 591-78-6 (Lot MKCL1599)		+/- 1,237.6091 µg/mL	Unstressed
	Purity 99%		+/- 1,268.3773 µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

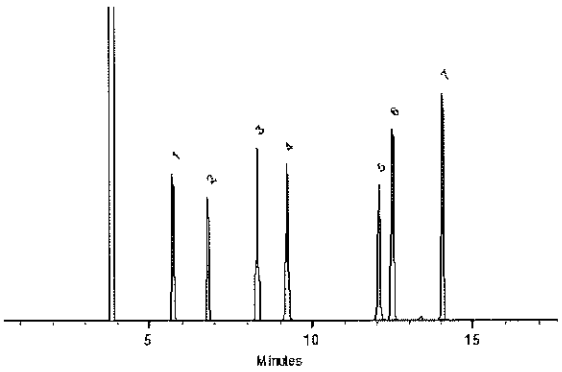
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Kylie Struble - Operations Technician I

Date Mixed: 10-Mar-2020 **Balance:** B251644995

Feng-Yun Lo - GC Analyst

Date Passed: 12-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#4C_00126

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 572312 **Lot No.:** A0158660

Description : Custom V #4C (Rev 3) Standard

Custom V #4C (Rev 3) Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2021 **Storage:** 0°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,3-Butadiene	5,002.1 µg/mL	+/- 39.8717 µg/mL	Gravimetric
	CAS # 106-99-0 (Lot SHBK2299)		+/- 303.0271 µg/mL	Unstressed
	Purity 99%		+/- 303.7407 µg/mL	Stressed
2	1,2-Dichloro-1,1,2-trifluoroethane (CFC-123a)	5,001.4 µg/mL	+/- 47.3932 µg/mL	Gravimetric
	CAS # 354-23-4 (Lot Q9B-64)		+/- 304.0702 µg/mL	Unstressed
	Purity 99%		+/- 304.7812 µg/mL	Stressed
3	n-Pentane (C5)	5,025.0 µg/mL	+/- 29.4225 µg/mL	Gravimetric
	CAS # 109-66-0 (Lot SHBL0400)		+/- 303.2005 µg/mL	Unstressed
	Purity 99%		+/- 303.9203 µg/mL	Stressed
4	1,1,2-Trichlorotrifluoroethane (CFC-113)	5,024.0 µg/mL	+/- 29.4166 µg/mL	Gravimetric
	CAS # 76-13-1 (Lot 00016133)		+/- 303.1402 µg/mL	Unstressed
	Purity 99%		+/- 303.8598 µg/mL	Stressed
5	Iodomethane (methyl iodide)	5,035.0 µg/mL	+/- 29.4810 µg/mL	Gravimetric
	CAS # 74-88-4 (Lot D4406-0122JM)		+/- 303.8039 µg/mL	Unstressed
	Purity 99%		+/- 304.5251 µg/mL	Stressed
6	Carbon disulfide	5,046.0 µg/mL	+/- 29.5454 µg/mL	Gravimetric
	CAS # 75-15-0 (Lot U22D706)		+/- 304.4676 µg/mL	Unstressed
	Purity 99%		+/- 305.1904 µg/mL	Stressed
7	Methyl-tert-butyl ether (MTBE)	5,025.0 µg/mL	+/- 29.4225 µg/mL	Gravimetric
	CAS # 1634-04-4 (Lot SHBK4806)		+/- 303.2005 µg/mL	Unstressed
	Purity 99%		+/- 303.9203 µg/mL	Stressed

8	n-Hexane (C6)		5,025.5	µg/mL	+/-	29.4254	µg/mL	Gravimetric
	CAS # 110-54-3	(Lot SHBL0924)			+/-	303.2307	µg/mL	Unstressed
	Purity 99%				+/-	303.9505	µg/mL	Stressed
9	Diisopropyl ether (DIPE)		5,015.0	µg/mL	+/-	29.3639	µg/mL	Gravimetric
	CAS # 108-20-3	(Lot SHBH1927V)			+/-	302.5971	µg/mL	Unstressed
	Purity 99%				+/-	303.3154	µg/mL	Stressed
10	Chloroprene (2-chloro-1,3-butadiene)		5,046.5	µg/mL	+/-	29.5484	µg/mL	Gravimetric
	CAS # 126-99-8	(Lot 191204JLM)			+/-	304.4978	µg/mL	Unstressed
	Purity 99%				+/-	305.2206	µg/mL	Stressed
11	Ethyl-tert-butyl ether (ETBE)		5,026.5	µg/mL	+/-	29.4313	µg/mL	Gravimetric
	CAS # 637-92-3	(Lot MKCJ3589)			+/-	303.2910	µg/mL	Unstressed
	Purity 99%				+/-	304.0110	µg/mL	Stressed
12	Cyclohexane		5,028.5	µg/mL	+/-	29.4430	µg/mL	Gravimetric
	CAS # 110-82-7	(Lot MKCF5831)			+/-	303.4117	µg/mL	Unstressed
	Purity 99%				+/-	304.1319	µg/mL	Stressed
13	tert-Amyl methyl ether (TAME)		5,021.0	µg/mL	+/-	29.3991	µg/mL	Gravimetric
	CAS # 994-05-8	(Lot HMBG6382V)			+/-	302.9592	µg/mL	Unstressed
	Purity 99%				+/-	303.6783	µg/mL	Stressed
14	n-Heptane (C7)		5,044.1	µg/mL	+/-	29.5341	µg/mL	Gravimetric
	CAS # 142-82-5	(Lot SHBK8626)			+/-	304.3506	µg/mL	Unstressed
	Purity 98%				+/-	305.0730	µg/mL	Stressed
15	tert-Amyl ethyl ether (TAEE)		5,018.5	µg/mL	+/-	29.3844	µg/mL	Gravimetric
	CAS # 919-94-8	(Lot IKVYB)			+/-	302.8083	µg/mL	Unstressed
	Purity 99%				+/-	303.5271	µg/mL	Stressed
16	Methyl methacrylate		5,028.0	µg/mL	+/-	29.4400	µg/mL	Gravimetric
	CAS # 80-62-6	(Lot MKCG6589)			+/-	303.3815	µg/mL	Unstressed
	Purity 99%				+/-	304.1017	µg/mL	Stressed
17	Ethyl methacrylate		5,043.0	µg/mL	+/-	29.5279	µg/mL	Gravimetric
	CAS # 97-63-2	(Lot SHBF9649V)			+/-	304.2866	µg/mL	Unstressed
	Purity 99%				+/-	305.0089	µg/mL	Stressed
18	Benzyl chloride		5,019.5	µg/mL	+/-	29.3903	µg/mL	Gravimetric
	CAS # 100-44-7	(Lot SHBH2102V)			+/-	302.8686	µg/mL	Unstressed
	Purity 99%				+/-	303.5876	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Raw material may contain trace amounts of tert-Butanol.

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

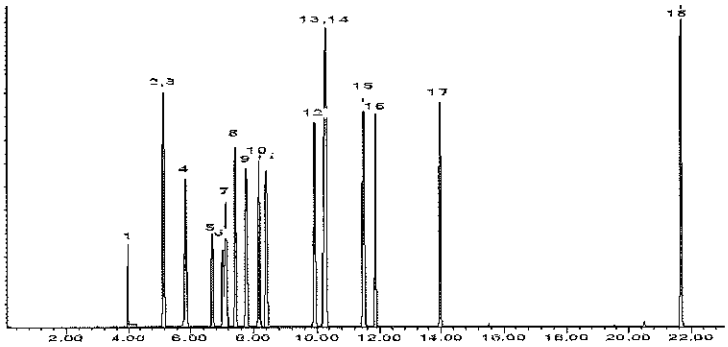
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 10-Mar-2020 **Balance:** B707717271

Fang-Yun Lo - QC Analyst

Date Passed: 25-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V#6_00062

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 558268 **Lot No.:** A0158625

Description : Custom CS#6 Standard

Custom CS#6 Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2021 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Methyl acetate		5,039.0 µg/mL	+/- 29.5717	µg/mL	Gravimetric
	CAS # 79-20-9	(Lot SHBK5436)		+/- 304.0518	µg/mL	Unstressed
	Purity 99%			+/- 304.7735	µg/mL	Stressed
2	Allyl chloride (3-chloropropene)		5,046.0 µg/mL	+/- 29.6128	µg/mL	Gravimetric
	CAS # 107-05-1	(Lot 191118KJ)		+/- 304.4742	µg/mL	Unstressed
	Purity 99%			+/- 305.1969	µg/mL	Stressed
3	Bromochloromethane		5,040.1 µg/mL	+/- 29.5784	µg/mL	Gravimetric
	CAS # 74-97-5	(Lot 00008541)		+/- 304.1206	µg/mL	Unstressed
	Purity 98%			+/- 304.8425	µg/mL	Stressed
4	Methylcyclohexane		5,041.0 µg/mL	+/- 29.5834	µg/mL	Gravimetric
	CAS # 108-87-2	(Lot SHBJ0457)		+/- 304.1725	µg/mL	Unstressed
	Purity 99%			+/- 304.8945	µg/mL	Stressed
5	Pentachloroethane		5,035.0 µg/mL	+/- 29.5482	µg/mL	Gravimetric
	CAS # 76-01-7	(Lot 8866000)		+/- 303.8104	µg/mL	Unstressed
	Purity 99%			+/- 304.5316	µg/mL	Stressed
6	1,2,3-Trimethylbenzene		5,012.0 µg/mL	+/- 29.4132	µg/mL	Gravimetric
	CAS # 526-73-8	(Lot 8766.05-14)		+/- 302.4226	µg/mL	Unstressed
	Purity 99%			+/- 303.1405	µg/mL	Stressed
7	1,3-Diethylbenzene		5,041.1 µg/mL	+/- 29.5841	µg/mL	Gravimetric
	CAS # 141-93-5	(Lot BCBT8967)		+/- 304.1797	µg/mL	Unstressed
	Purity 98%			+/- 304.9017	µg/mL	Stressed

8	1,4-Diethylbenzene		5,035.2 µg/mL	+/-	29.5496	µg/mL	Gravimetric
	CAS # 105-05-5	(Lot RLHJK)		+/-	303.8249	µg/mL	Unstressed
	Purity 98%			+/-	304.5461	µg/mL	Stressed
9	1,2-Diethylbenzene		5,011.0 µg/mL	+/-	29.4074	µg/mL	Gravimetric
	CAS # 135-01-3	(Lot ECH2970181)		+/-	302.3623	µg/mL	Unstressed
	Purity 99%			+/-	303.0800	µg/mL	Stressed
10	2-Methylnaphthalene		5,023.7 µg/mL	+/-	29.4818	µg/mL	Gravimetric
	CAS # 91-57-6	(Lot STBG8884)		+/-	303.1274	µg/mL	Unstressed
	Purity 96%			+/-	303.8469	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

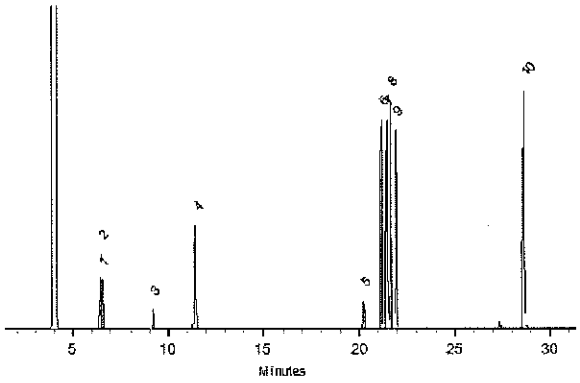
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 09-Mar-2020 **Balance:** B707717271

Peng-Yue Lu - QC Analyst

Date Passed: 12-Mar-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Gas_00216

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 55669 **Lot No.:** A0159812

Description : Custom 502.2 "V" Gas Mix

Custom 502.2 "V" Gas Mix 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2027 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dichlorodifluoromethane (CFC-12)	2,005.1 µg/mL	+/- 16.8576 µg/mL	Gravimetric
	CAS # 75-71-8 (Lot 00012554)		+/- 113.0809 µg/mL	Unstressed
	Purity 99%		+/- 115.6966 µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,003.5 µg/mL	+/- 19.3327 µg/mL	Gravimetric
	CAS # 74-87-3 (Lot SHBK6571)		+/- 113.3884 µg/mL	Unstressed
	Purity 99%		+/- 115.9929 µg/mL	Stressed
3	Vinyl chloride	2,001.1 µg/mL	+/- 18.1213 µg/mL	Gravimetric
	CAS # 75-01-4 (Lot 00015559)		+/- 113.0560 µg/mL	Unstressed
	Purity 99%		+/- 115.6619 µg/mL	Stressed
4	Bromomethane (methyl bromide)	1,998.8 µg/mL	+/- 17.7535 µg/mL	Gravimetric
	CAS # 74-83-9 (Lot 101604)		+/- 112.8737 µg/mL	Unstressed
	Purity 99%		+/- 115.4779 µg/mL	Stressed
5	Chloroethane (ethyl chloride)	2,002.3 µg/mL	+/- 17.1357 µg/mL	Gravimetric
	CAS # 75-00-3 (Lot 107-401039114-1)		+/- 112.9711 µg/mL	Unstressed
	Purity 99%		+/- 115.5821 µg/mL	Stressed
6	Trichlorofluoromethane (CFC-11)	2,020.0 µg/mL	+/- 11.7716 µg/mL	Gravimetric
	CAS # 75-69-4 (Lot 25931)		+/- 113.2622 µg/mL	Unstressed
	Purity 99%		+/- 115.9123 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

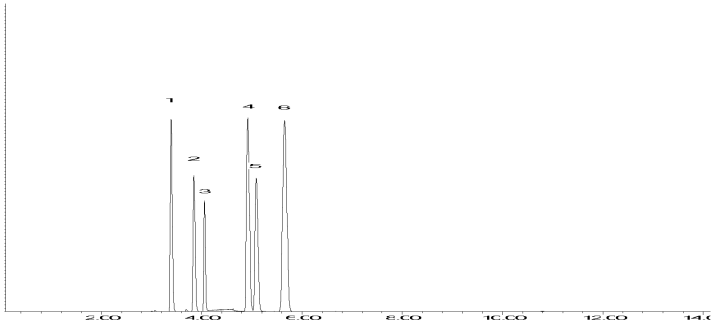
Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 10-Apr-2020 **Balance:** B707717271

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 06-May-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_Ketones_00230

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569721 **Lot No.:** A0210935

Description : 8260 List 1/ Std #2 Ketones (2015)

8260 List 1/ Std #2 Ketones (2015) 12,500µg/mL, P&T Methanol/Water (90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	12,591.3 µg/mL	+/- 435.1857
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	12,561.0 µg/mL	+/- 434.1373
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	12,580.0 µg/mL	+/- 434.7940
4	2-Hexanone	591-78-6	MKCV1997	99%	12,580.7 µg/mL	+/- 434.8170

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

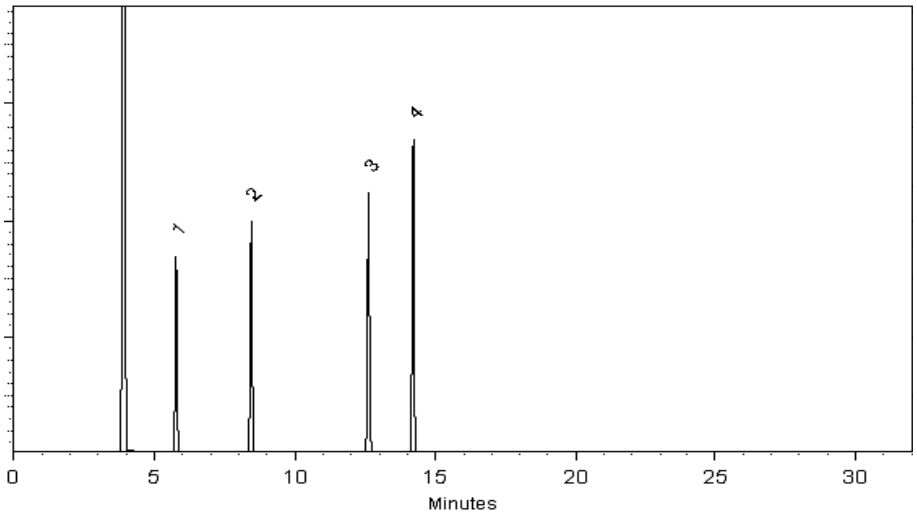
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 30-Apr-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 02-May-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_PentaCL_00052

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Tel: 1-814-353-1300
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577491 **Lot No.:** A0197490

Description : Custom Pentachloroethane Standard

Custom Pentachloroethane Standard 5,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachloroethane	76-01-7	13550700	97%	5,011.0 µg/mL	+/- 281.5258

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

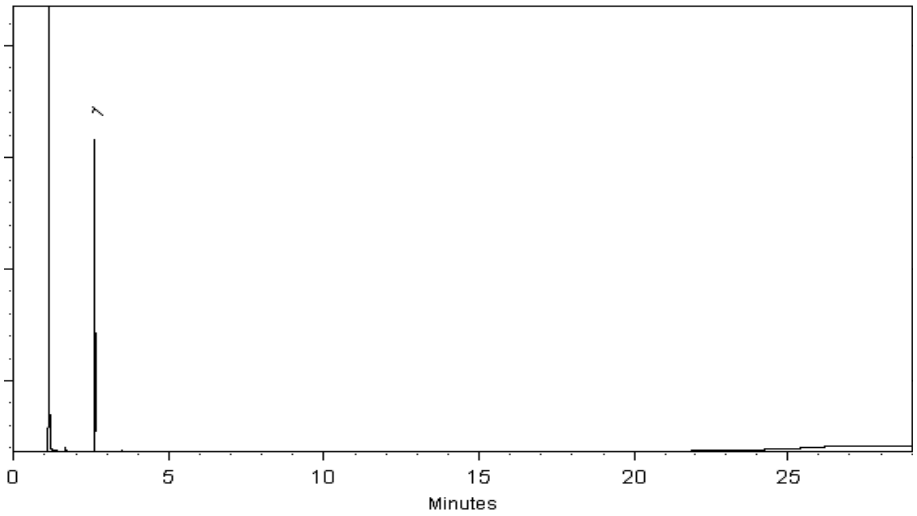
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Nick Yaw - Operations Tech I

Date Mixed: 26-Apr-2023 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 02-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MSV_V_SMFreon_00062

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 577490 **Lot No.:** A0197864

Description : Custom SM Freons Standard

Custom SM Freons Standard 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Chlorotrifluoroethylene	79-38-9	202600	99%	1,999.9 µg/mL	+/- 116.8216
2	Chlorodifluoromethane (CFC-22)	75-45-6	Q162-44	99%	2,004.5 µg/mL	+/- 121.9609
3	2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	75-88-7	Q157-146	99%	1,991.8 µg/mL	+/- 129.5770

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

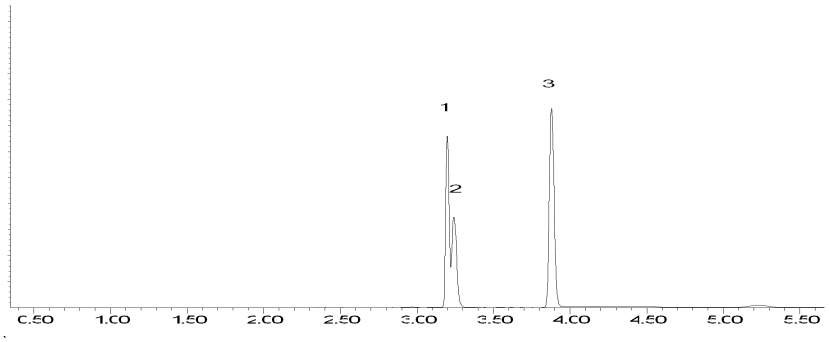
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 09-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reagent

MT_1KV_PIV_00008

7221 Investment Drive • North Charleston, SC 29418
843.767.7900 • info@highpuritystandards.com • www.highpuritystandards.com

Certificate of Analysis

Certified Reference Material

ISO 17034:2016 (RMP) Accreditation Certificate Number AR-1436

Product Description: Vanadium

Product Number: **100065-1-100**

Lot Number: **2413810-100**

Matrix: 2% HNO3

Density: 1.022 g/mL ± 0.002 g/mL @ 21.2°C ± 0.3°C

Certified Value:

Element	µg/mL	SRM ID
V	1000 ± 4	3165

The Certified value is based on gravimetric and volumetric preparation, and verified against NIST SRM 3100 series when available via inductively coupled plasma optical emission spectrometry (ICP-OES) and/or inductively coupled plasma mass spectrometry (ICP-MS) using an internal laboratory-developed method. The uncertainty in the certified value is calculated for a 95% confidence interval and coverage factor k is about 2.
* Refer to Traceability Information, Section 4

Uncertified Values:

Trace Metal Impurity Scan: The data reported are based upon a scan of this specific lot via ICP-OES/ICP-MS analysis. The values are reported in µg/L.

Ag	<0.02	Cu	<0.02	Li	<0.02	Rb	<0.5	Th	<0.02
Al	58	Dy	<0.02	Lu	<0.02	Re	<0.02	Ti	8.4
As	<0.05	Er	<0.02	Mg	<0.1	Rh	<0.02	Tl	<0.02
Au	<0.02	Eu	<0.02	Mn	<2.4	Ru	<0.02	Tm	<0.02
B	<5.3	Fe	56	Mo	<6.2	Sb	<23	U	<2.5
Ba	1.1	Ga	<3.1	Na	<26	Sc	<0.02	V	M
Be	<0.02	Gd	<0.02	Nb	<0.1	Se	<0.1	W	<0.9
Bi	<0.02	Ge	<0.02	Nd	<0.02	Si	<50	Y	<0.3
Ca	<3	Hf	<0.02	Ni	<0.02	Sm	<0.02	Yb	<0.1
Cd	<0.02	Ho	<0.02	Os	<0.02	Sn	<0.5	Zn	<0.02
Ce	<0.02	In	<0.02	Pb	<0.05	Sr	<0.1	Zr	<0.9
Co	<2.5	Ir	<0.02	Pd	<0.02	Ta	<0.02		
Cr	53	K	<6.1	Pr	<0.02	Tb	<0.02		
Cs	<0.02	La	<0.02	Pt	<0.02	Te	<0.02		

Packaging and Storage Conditions:

The standard is packaged in a pre-cleaned polyethylene bottle. To maintain the integrity of this product, the solution should be kept tightly capped and stored under normal laboratory conditions.

Expiration Information:

The expiry date is guaranteed to be valid for eighteen months from the shipping date provided and is guaranteed through the month of expiration. For this reason, standards from the same lot may have different expiration dates.

Shipped Date: September 2024

Expiration Date: March 31, 2026

Certificate Issue Date: June 4, 2024

Julio Soto, Quality Manager

Preparation Information:

This Certified Reference Material is prepared using **99.99%** pure **Ammonium Metavanadate** which was purchased from a qualified vendor per ISO 9001 guidelines and assayed by analytical methods for conformity prior to use. This standard was manufactured under appropriate laboratory conditions using the methods developed at NIST for SRM Spectrometric Standard Solutions. Sub-boiling distilled high-purity acid has been used to place the materials in solution and stabilize the standard. The matrix is as noted above in 18 megaohm deionized water. Stability of this product is based upon rigorous short-term and long-term testing of the solution for the certified value. This testing includes, but is not limited to, the effect of temperature and packaging on the product. If, during the period of validity, a recall is instituted due to substantial changes in the stability of this product, the purchaser will be notified.

Homogeneity:

This product is determined to be homogeneous following in-house procedures developed in accordance with the requirements of ISO 17034 and ISO Guide 35.

Intended Use:

This product is intended for use as a calibration standard, quality control standard, and/or for the validation of analytical methods. The standard is confirmed homogeneous; therefore, the minimum sample size should be consistent with the end user's measurement capabilities.

Traceability Information:

The traceability of this standard is maintained through an unbroken chain of comparisons to appropriate standards with suitable procedure and measurement uncertainties. The maintenance of the base and derived units of International System of Units (SI) with traceability of measurement results (contemporary metrology) to SI ensures their comparability over time as follows.

1. **Standard Weight and Analytical Balanee**
   The standard weights (NBS weights Inventory No 20231A) are calibrated every two years by South Carolina Metrology Laboratory that is a participant in 'NIST Weights and Measures Measurement Assurance Program' with a certificate of measurement traceability to NIST primary standards. The balances are calibrated yearly by the ISO 17025 accredited metrology service, and are verified weekly by an in-house method using standard weights.
2. **Volumetric Device**
   The calibrations of volumetric vessels are verified using the ASTM method E542.
3. **Thermometer**
   The standard thermometers are calibrated every year by the ISO 17025 accredited metrology service. The thermometers used in-house are verified against the standard thermometers yearly.
4. **Calibration Standards**
   The Calibration Standard is traceable to SRM 3100 Series Spectrometric Standard Solutions. If an SRM is not available, a second source standard or independent lot is used.

Refer to Safety Datasheet (SDS) for hazardous information.

NOTICE: HPS products are intended for laboratory use only. All products should be handled and used by trained professional personnel. The responsibility for the safe handling and use of these products rests solely with the buyer and/or user. The data and information as stated was furnished by the manufacturer of the product. The information provided in this certificate pertains only to the lot number specified. None of the information provided in this certificate may be used, reproduced or transmitted in any form or by any means without written approval from High-Purity Standards.

Reagent

MT_H3NO_Fishe_00061

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H330	Quality Test / Release Date	08/21/2024
Lot Number	243373		
Description	HYDROXYLAMINE HYDROCHLORIDE, A.C.S.		
Country of Origin	India	Suggested Retest Date	Feb/2027

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Colorless to white crystals
AMMONIUM (NH4)	PASS/FAIL	= PASS TEST	PASS TEST
ASSAY	%	>= 96	98.6
CLARITY OF ALCOHOL SOLUTION	PASS/FAIL	= PASS TEST	PASS TEST
HEAVY METALS BY ICP-OES	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IGNITION RESIDUE	%	<= 0.05	0.03
IRON (Fe)	ppm	<= 5	<5
MERCURY (Hg)	ppm	<= 0.05	<0.05
SULFUR COMPOUNDS	%	<= 0.005	<0.005
TITRATABLE FREE ACID	MEQ/G	<= 0.25	<0.25

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

MT_HCl_JT_00019

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 25C2662003
Manufactured Date: 2025-02-11
Retest Date:2030-02-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.7 %
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	<1 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.191
ACS - Bromide (Br)	<= 0.005 %	<0.005 %
ACS - Extractable Organic Substances	<= 5 ppm	<1 ppm
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	0.5 ppm
Phosphate (PO_4)	<= 0.05 ppm	<0.03 ppm
Sulfate (SO_4)	<= 0.5 ppm	<0.3 ppm
Sulfite (SO3)	<= 0.8 ppm	0.3 ppm
Ammonium (NH_4)	<= 3 ppm	<1 ppm
Trace Impurities - Arsenic (As)	<= 0.010 ppm	<<0.01 ppm
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 5.0 ppb	<3.0 ppb
Trace Impurities - Barium (Ba)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	<10.0 ppb
Trace Impurities - Boron (B)	<= 20.0 ppb	<5.0 ppb
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	19.3 ppb
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	<2.0 ppb
Trace Impurities - Gold (Au)	<= 4.0 ppb	<0.2 ppb
Heavy Metals (as Pb)	<= 100 ppb	<<50 ppb
Trace Impurities - Iron (Fe)	<= 15 ppb	<0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 25C2662003

Test	Specification	Result
Trace Impurities - Lead (Pb)	<= 1.0 ppb	<0.5 ppb
Trace Impurities - Lithium (Li)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	2.1 ppb
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	<5.0 ppb
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	<0.3 ppb
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Potassium (K)	<= 9.0 ppb	<2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		<1.0 ppb
Trace Impurities - Silicon (Si)	<= 100.0 ppb	<10 ppb
Trace Impurities - Silver (Ag)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Sodium (Na)	<= 100.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	<0.9 ppb
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	<5.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	<0.8 ppb
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Vanadium (V)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Reagent

MT_HNO3_FI_00018

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

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Catalog Number	A200	Quality Test / Release Date	12/19/2024
Lot Number	245385		
Description	NITRIC ACID, CERTIFIED ACS		
Country of Origin	Canada		
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless free of suspended matter
ALUMINUM	ppm	<= 0.2	<0.2
ARSENIC (As)	ppm	<= 0.004	<0.004
ASSAY	w/w %	Inclusive Between 68.0 - 70.0	69.7
BORON (B)	ppm	<= 0.1	<0.1
CALCIUM (Ca)	ppm	<= 0.2	<0.2
CHLORIDE	ppm	<= 0.08	<0.08
CHROMIUM (Cr)	ppm	<= 0.1	<0.1
COLOR	APHA	<= 10	<10
COPPER (Cu)	ppm	<= 0.05	<0.05
GOLD (Au)	ppm	<= 0.3	<0.3
HEAVY METALS (as Pb)	ppm	<= 0.2	<0.2
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.2
LEAD (Pb)	ppm	<= 0.1	<0.1
MAGNESIUM (Mg)	ppm	<= 0.3	<0.3
NICKEL (Ni)	ppm	<= 0.05	<0.05
PHOSPHATE (PO4)	ppm	<= 0.2	<0.2
POTASSIUM (K)	ppm	<= 0.3	<0.3
RESIDUE AFTER IGNITION	ppm	<= 2	<2
SODIUM (Na)	ppm	<= 0.3	<0.3
SULFATE (SO4)	ppm	<= 0.5	<0.5
TIN (Sn)	ppm	<= 0.3	<0.3
TITANIUM (Ti)	ppm	<= 0.3	<0.3

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

ZINC (Zn)	ppm	<= 0.3	<0.3

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

MT_I_CCVSPK-A_00007

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	35-TSPEURF-CCV-A
Lot Number:	V2-MEB742653
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea:

Aluminum,	Calcium,
Iron,	Potassium,
Magnesium,	Sodium,
Sulfur,	

100 µg/mL ea:

Selenium,	Strontium,
Thorium,	Thallium,
Vanadium,	Zinc,
Silver,	Nickel,
Phosphorus,	Lead,
Manganese,	Lithium,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Boron,
Barium,	Beryllium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	5 000 ± 18 µg/mL	Arsenic, As	100.0 ± 0.8 µg/mL
Barium, Ba	100.0 ± 0.4 µg/mL	Beryllium, Be	100.0 ± 0.6 µg/mL
Boron, B	100.0 ± 0.7 µg/mL	Cadmium, Cd	100.0 ± 0.4 µg/mL
Calcium, Ca	5 000 ± 16 µg/mL	Chromium, Cr	100.0 ± 0.6 µg/mL
Cobalt, Co	100.0 ± 0.6 µg/mL	Copper, Cu	100.0 ± 0.5 µg/mL
Iron, Fe	5 000 ± 22 µg/mL	Lead, Pb	100.0 ± 0.5 µg/mL
Lithium, Li	100.0 ± 0.4 µg/mL	Magnesium, Mg	5 000 ± 22 µg/mL
Manganese, Mn	100.0 ± 0.5 µg/mL	Nickel, Ni	100.0 ± 0.6 µg/mL
Phosphorus, P	100.0 ± 0.5 µg/mL	Potassium, K	5 000 ± 22 µg/mL
Selenium, Se	100.0 ± 0.6 µg/mL	Silver, Ag	100.0 ± 0.4 µg/mL
Sodium, Na	5 000 ± 22 µg/mL	Strontium, Sr	100.0 ± 0.5 µg/mL
Sulfur, S	5 000 ± 23 µg/mL	Thallium, Tl	100.0 ± 0.5 µg/mL
Thorium, Th	100.0 ± 0.5 µg/mL	Vanadium, V	100.0 ± 0.5 µg/mL
Zinc, Zn	100.0 ± 0.5 µg/mL		

Density: 1.124 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
B	ICP Assay	3107	190605
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Li	ICP Assay	3129a	100714
Li	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
S	Acidimetric	84L	84L
S	ICP Assay	Traceable to 3154	T2-S727797
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Th	EDTA	928	928
Tl	ICP Assay	3158	151215
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 01, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 01, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_K2S2O8_JT_00053

Potassium Persulfate
BAKER ANALYZED® Reagent
(potassium peroxydisulfate)

Material No.: 3238-05
Batch No.: 22D2261044
Manufactured Date: 2021-07-28
Retest Date: 2028-07-26
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay ($K_2S_2O_8$) (by gravimetry)	≥ 99.0 %	99.5 %
Trace Impurities - Iron (Fe)	≤ 0.001 %	< 0.001 %
Trace Impurities - ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Trace Impurities - Manganese (Mn)	≤ 2.000 ppm	< 2.000 ppm

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Reagent

MT_KMnO4_LC_00002

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Potassium Permanganate ACS

Product Code: **LC198501**

Manufacture Date: October 28, 2024

Lot Number: **44100407**

Test	Specification	Result
Appearance (color)	dark purple	dark purple
Appearance (state)	crystals	crystals
Assay - % w/w	>= 99.0 % w/w	99.5% w/w
Chloride and bromide (as Cl)	<= 0.005 %	<0.005%
Insoluble Matter and NH4OH ppt	<= 0.2 %	<0.2%
Sulfate (SO4)	<= 0.02 %	<0.02%

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for informa regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balance thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST standards.*

Michael Monteleone

Quality Control
Michael Monteleone
Chemistry Supervisor

ISO 9001:2015 Registration #0306-01

Reagent

MT_NaCl_Fis_00001

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	S271	Quality Test / Release Date	07/29/2024
Lot Number	243064		
Description	SODIUM CHLORIDE, CERTIFIED A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jul/2029
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Comment	This material does not contain any BPA (Bisphenol A), phthalates/phthalate esters or animal derived substances.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White solid.
ASSAY	%	>= 99.0	99.6
BARIUM (Ba)	PASS/FAIL	= PASS TEST	PASS TEST
BROMIDE	%	<= 0.01	<0.01
CALCIUM	%	<= 0.002	0.0003
CHLORATE & NITRATE	%	<= 0.003	<0.003
HEAVY METALS BY ICP-OES	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IODIDE	%	<= 0.002	<0.002
IRON (Fe)	ppm	<= 2	<1
MAGNESIUM	%	<= 0.001	0.0005
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 5.0 - 9.0	6.4
PHOSPHATE (PO4)	ppm	<= 5	<5
POTASSIUM (K)	%	<= 0.005	0.002
SULFATE (SO4)	%	<= 0.004	<0.004

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

MT_S_10Hg_CPI_00002

7/30/2025
1:47:08 PM

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

Product #: 4400-10PPM331-100

Mercury (Hg) – 10 µg/mL

Lot #: 1452342

Matrix: 2% HNO_3

*Expiration Date: 10 February 2026

Element	Certified Concentration & Uncertainty
Hg	10.00 ± 0.05 µg/mL (w/v)
	10.00 ± 0.05 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034, ISO/IEC 17025 and ISO 9001**. This CRM was prepared to a nominal concentration of 10 µg/mL by gravimetric methods using single-element concentrate. The solution was diluted with filtered (0.22um), 18 M-ohm water and stabilized with the appropriate high-purity acid as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3133**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	MAJOR	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	1	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

20 February 2024
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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5580 Skylane Boulevard P: 707.525.5788
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F: 707.545.7901

Europe
Nieuwe Hemweg 7P P: +31 20 638 05 97
1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

www.cpiinternational.com

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Reagent

MT_S_10Hg_CPI_00003

CPI INTERNATIONAL

CERTIFICATE OF ANALYSIS

Single-Element Aqueous CRM

Product #: 4400-10PPM331-100

Mercury (Hg) – 10 µg/mL

Lot #: 1503810

Matrix: 2% HNO_3

*Expiration Date: 10 February 2026

Element	Certified Concentration & Uncertainty
Hg	10.00 ± 0.05 µg/mL (w/v)
	10.00 ± 0.05 µg/g (w/w)

Intended Use: This solution is intended for use as a certified reference material (CRM) or calibration standard for inductively coupled plasma optical emission spectroscopy (ICP-OES), inductively coupled plasma mass spectrometry (ICP-MS), flame or furnace atomic absorption spectroscopy (AA or GFAA), and other techniques for elemental analysis.

Certification & Traceability: This CRM was manufactured, processed, and/or certified under a quality management system that is registered/accredited to **ISO 17034, ISO/IEC 17025 and ISO 9001**. This CRM was prepared to a nominal concentration of 10 µg/mL by gravimetric methods using single-element concentrate. The solution was diluted with filtered (0.22um), 18 M-ohm water and stabilized with the appropriate high-purity acid as indicated in the listed matrix. The balances used in the preparation of this CRM are calibrated regularly with traceability to NIST, using a calibration provider that is accredited to ISO/IEC 17025 by a mutually recognized accreditation body. All volumetric dilutions are performed in Class A calibrated glassware. The certified concentration and uncertainty were determined using the "High Performance ICP-OES" protocol developed by NIST, and both the certified concentration and uncertainty values are traceable to **NIST SRM 3133**. The uncertainty associated with the certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of k=2.

Indicative Values: ICP-MS was used to determine trace metal concentrations for this product (nd = not determined).

Trace Concentrations (µg/L)

Ag	<0.5	Co	<1	Ge	<0.5	Lu	<0.2	P	<100	Sb	<0.5	Te	<1
Al	<2	Cs	<0.5	Hf	<0.2	Mg	<5	Pb	<1	Sc	<5	Ti	<2
As	<2	Cr	<0.5	Hg	MAJOR	Mn	<1	Pd	<0.5	Se	<2	Tl	<0.5
Au	<0.5	Cu	<1	Ho	<0.2	Mo	<0.5	Pr	<0.2	Si	<100	Tm	<0.2
B	<5	Dy	<0.2	In	nd	Na	<25	Pt	<0.5	Sm	<0.2	V	<1
Ba	<1	Er	<0.2	Ir	<0.2	Nb	<0.5	Rb	<0.5	Sn	<0.5	W	<0.5
Bi	<0.2	Eu	<0.2	K	<25	Nd	<0.2	Re	<0.2	Sr	<1	Y	<0.5
Ca	<25	Fe	<10	La	<0.5	Ni	<2	Rh	<0.5	Ta	<0.5	Yb	<0.2
Cd	<0.5	Ga	<0.5	Li	<2	Os	<0.5	Ru	1	Tb	<0.5	Zn	<2
Ce	<0.2	Gd	<0.2										

Instructions for Use: We recommend that the solution be thoroughly mixed by repeated shaking or swirling of the bottle immediately prior to use. To achieve the highest accuracy, the analyst should: (1) use only pre-cleaned containers and transferware, (2) not pipette directly from the CRM's original container, (3) never pour used product back into the original container, (4) make dilutions using calibrated balances or certified class A volumetric flasks and pipettes, (5) use a minimum sub-sample size of 500 µL, and (6) dilute with the same matrix as the original CRM or other chemically suitable matrix. The solution should be kept tightly capped and stored under normal laboratory conditions. Do not freeze, heat, or immerse the bottle or its contents, and avoid exposure to direct sunlight or moisture.

Period of Validity: CPI International ensures the accuracy of this solution until the date shown above or ***12 Months** from the date opened, provided the instructions for use are followed. During the period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution.

Chuck Goudreau

Chuck Goudreau, Certifying Officer

20 February 2024
Certification Date

Date Opened

CPI International waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

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1013BG Amsterdam F: +31 20 420 28 36
The Netherlands

Health and Safety Information: Refer to the Safety Data Sheet (SDS).

Homogeneity: This solution was determined to be homogeneous by procedures consistent with the requirements of ISO 17034 and ISO Guide 35. Replicate samples of the finished solution were analyzed to confirm its homogeneity, in accordance with internal procedures for the assessment of homogeneity and stability. To ensure homogeneity, users should not take a smaller sub-sample than specified in the Instructions for Use, as doing so will invalidate the certified values and uncertainties.

Further Information: Please contact CPI International for further information about this material.

Quality Certifications: This material was prepared under a quality management system that is registered/accredited to the following:

- ISO 17034 Accredited: Reference Materials Producer, A2LA Certificate No. 2848.02 – General Requirements for the Competence of Reference Material Producers
    - ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35
- ISO/IEC 17025 Accredited: Chemical Testing, A2LA Certificate No. 2848.01 – General Requirements for the Competence of Testing and Calibration Laboratories
- ISO 9001 Certified: Quality Management Systems, Certificate Registration No. 56 100 19560101 – Requirements *(Registrar: TUV NORD)*

Reagent

MT_S_ICS2A_IV_00019

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ICS-9A
Lot Number:	U2-MEB731104
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	21 215 µg/mL ea: Chloride, 3 000 µg/mL ea: Calcium, 2 500 µg/mL ea: Iron, Sodium, 2 000 µg/mL ea: Carbon, 1 000 µg/mL ea: Aluminum, Phosphorus, Sulfur, Potassium, Magnesium, 20 µg/mL ea: Molybdenum, Titanium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**1 000 ± 3 µg/mL**	**Calcium, Ca**	**3 001 ± 13 µg/mL**
Carbon, C	**2 001 ± 4 µg/mL**	**Chloride, Cl**	**21 230.0 ± 100.0 µg/mL**
Iron, Fe	**2 501 ± 11 µg/mL**	**Magnesium, Mg**	**1 000 ± 4 µg/mL**
Molybdenum, Mo	**20.01 ± 0.11 µg/mL**	**Phosphorus, P**	**1 000 ± 4 µg/mL**
Potassium, K	**1 000 ± 4 µg/mL**	**Sodium, Na**	**2 501 ± 11 µg/mL**
Sulfur, S	**1 001 ± 4 µg/mL**	**Titanium, Ti**	**20.01 ± 0.15 µg/mL**

Density: 1.052 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Er	<	0.000100	M	Mn		0.005000	s	S	<		O	V	<	0.004600
s	Al	<		M	Eu	<	0.000100	s	Mo	<		M	Sb		0.001400	M	W		0.002300
O	As	<	0.085000	s	Fe	<		s	Na	<		M	Sc	<	0.000700	M	Y	<	0.000400
M	Au	<	0.002200	M	Ga		0.015000	M	Nb	<	0.000100	M	Se	<	0.005800	M	Yb	<	0.000100
M	B	<	0.003300	M	Gd	<	0.000100	M	Nd	<	0.000200	O	Si		0.044000	M	Zn		0.004500
M	Ba		0.003900	M	Ge	<	0.002400	M	Ni		0.012000	M	Sm	<	0.000100	M	Zr		0.001600
M	Be	<	0.000200	M	Hf	<	0.000100	M	Os	<	0.003900	M	Sn	<	0.000600				
M	Bi	<	0.001800	M	Hg	<	0.000200	s	P	<		M	Sr		0.017000				
s	Ca	<		M	Ho	<	0.000100	M	Pb	<	0.001200	M	Ta	<	0.000400				
O	Cd		0.004800	M	In	<	0.000100	M	Pd	<	0.000200	M	Tb	<	0.000100				
M	Ce	<	0.000600	M	Ir	<	0.000100	M	Pr	<	0.000100	M	Te	<	0.000600				
M	Co		0.002200	s	K	<		M	Pt	<	0.000100	M	Th	<	0.000100				
M	Cr		0.032000	M	La	<	0.000800	M	Rb		0.026000	s	Ti	<					
M	Cs		0.001900	O	Li		0.001400	M	Re	<	0.001000	M	Tl	<	0.000100				
M	Cu	<	0.008600	M	Lu	<	0.000100	M	Rh	<	0.000100	M	Tm	<	0.000100				
M	Dy	<	0.000100	s	Mg	<		M	Ru	<	0.000100	M	U	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 20, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 20, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

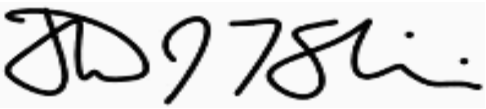
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_S_ICS2B_IV_00007

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	6020ICS-9B
Lot Number:	S2-MEB711470
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	20 µg/mL ea: Cobalt, Chromium, Copper, Manganese, Nickel, Vanadium, 10 µg/mL ea: Zinc, Arsenic, Cadmium, Selenium, 5 µg/mL ea: Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Arsenic, As	**10.00 ± 0.06 µg/mL**	**Cadmium, Cd**	**10.00 ± 0.04 µg/mL**
Chromium, Cr	**20.01 ± 0.10 µg/mL**	**Cobalt, Co**	**20.01 ± 0.09 µg/mL**
Copper, Cu	**20.01 ± 0.09 µg/mL**	**Manganese, Mn**	**20.01 ± 0.09 µg/mL**
Nickel, Ni	**20.01 ± 0.09 µg/mL**	**Selenium, Se**	**10.00 ± 0.07 µg/mL**
Silver, Ag	**5.002 ± 0.034 µg/mL**	**Vanadium, V**	**20.01 ± 0.09 µg/mL**
Zinc, Zn	**10.00 ± 0.04 µg/mL**		

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
As	ICP Assay	3103a	100818
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Low Silver Note: This solution contains “LOW” levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 02, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 02, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_S_ICVSPK-A_00007

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-69496
Lot Number:	U2-MEB728821
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	2 500 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

250 µg/mL ea:

Nickel, Manganese,
Cobalt, Chromium,
Copper, Arsenic,
Barium, Vanadium,
Zinc,

25 µg/mL ea:

Silver, Beryllium,
Cadmium, Lead,
Selenium, Strontium,
Thallium, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	2 500 ± 9 µg/mL	Arsenic, As	250.0 ± 2.1 µg/mL
Barium, Ba	250.0 ± 1.2 µg/mL	Beryllium, Be	25.00 ± 0.16 µg/mL
Cadmium, Cd	25.00 ± 0.10 µg/mL	Calcium, Ca	2 500 ± 11 µg/mL
Chromium, Cr	250.0 ± 1.8 µg/mL	Cobalt, Co	250.0 ± 1.2 µg/mL
Copper, Cu	250.0 ± 1.0 µg/mL	Iron, Fe	2 500 ± 10 µg/mL
Lead, Pb	25.00 ± 0.11 µg/mL	Magnesium, Mg	2 500 ± 11 µg/mL
Manganese, Mn	250.0 ± 1.0 µg/mL	Nickel, Ni	250.0 ± 1.1 µg/mL
Potassium, K	2 500 ± 11 µg/mL	Selenium, Se	24.99 ± 0.20 µg/mL
Silver, Ag	25.00 ± 0.13 µg/mL	Sodium, Na	2 500 ± 11 µg/mL
Strontium, Sr	25.01 ± 0.10 µg/mL	Thallium, Tl	25.00 ± 0.13 µg/mL
Uranium, U	25.01 ± 0.15 µg/mL	Vanadium, V	250.0 ± 1.1 µg/mL
Zinc, Zn	250.0 ± 1.1 µg/mL		

Density: 1.074 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212
Ag	Volhard	999b	999b
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	060531
Cd	EDTA	928	928
Co	EDTA	928	928
Co	ICP Assay	traceable to 3113	M2-CO661665
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	3153a	990906
Tl	ICP Assay	3158	151215
U	ICP Assay	3164	891509
U	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.6 ± 0.1
Uranium 235U	0.42 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 25, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 25, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

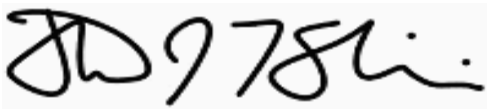
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_S_MSSPK-A_00006

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-66048-A
Lot Number:	U2-MEB728823
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	5 000 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

500 µg/mL ea:

Nickel, Manganese,
Cobalt, Chromium,
Copper, Arsenic,
Barium, Vanadium,
Zinc,

50 µg/mL ea:

Silver, Beryllium,
Cadmium, Lead,
Selenium, Strontium,
Thallium, Uranium

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	5 008 ± 18 µg/mL	Arsenic, As	500.8 ± 3.7 µg/mL
Barium, Ba	500.8 ± 2.3 µg/mL	Beryllium, Be	50.07 ± 0.33 µg/mL
Cadmium, Cd	50.07 ± 0.23 µg/mL	Calcium, Ca	5 008 ± 22 µg/mL
Chromium, Cr	500.8 ± 2.9 µg/mL	Cobalt, Co	500.8 ± 2.4 µg/mL
Copper, Cu	500.8 ± 2.0 µg/mL	Iron, Fe	5 008 ± 21 µg/mL
Lead, Pb	50.08 ± 0.22 µg/mL	Magnesium, Mg	5 008 ± 22 µg/mL
Manganese, Mn	500.8 ± 2.0 µg/mL	Nickel, Ni	500.8 ± 2.2 µg/mL
Potassium, K	5 008 ± 22 µg/mL	Selenium, Se	50.09 ± 0.32 µg/mL
Silver, Ag	50.07 ± 0.22 µg/mL	Sodium, Na	5 008 ± 22 µg/mL
Strontium, Sr	50.07 ± 0.19 µg/mL	Thallium, Tl	50.07 ± 0.36 µg/mL
Uranium, U	50.08 ± 0.27 µg/mL	Vanadium, V	500.8 ± 2.2 µg/mL
Zinc, Zn	500.8 ± 2.2 µg/mL		

Density: 1.130 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Cr	ICP Assay	3112a	170630
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Na	ICP Assay	Traceable to 3152A	S2-NA700842
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Se	ICP Assay	3149	100901
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Tl	ICP Assay	3158	151215
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2
U	X_U_CRM		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 26, 2023

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 26, 2028**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

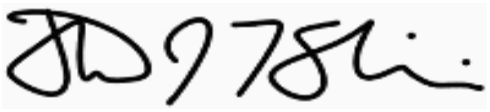
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_S_MWLLC_SC_00009

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	IV-76463
Lot Number:	V2-MEB748176
Matrix:	2% (v/v) HNO3 tr. HF
Value / Analyte(s):	200 µg/mL ea: Potassium, Sodium, 100 µg/mL ea: Calcium, 50 µg/mL ea: Iron, Magnesium, 25 µg/mL ea: Aluminum, 10 µg/mL ea: Titanium, Zinc, 2 µg/mL ea: Tin, Arsenic, Barium, Chromium, Manganese, 1 µg/mL ea: Nickel, Copper, Strontium, Antimony, Selenium, Uranium, 0.5 µg/mL ea: Vanadium, Thallium, Cadmium, Cobalt, Beryllium, Lead, Silver, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	24.98 ± 0.09 µg/mL	Antimony, Sb	1.001 ± 0.006 µg/mL
Arsenic, As	1.999 ± 0.012 µg/mL	Barium, Ba	2.001 ± 0.012 µg/mL
Beryllium, Be	0.5001 ± 0.0026 µg/mL	Cadmium, Cd	0.5001 ± 0.0030 µg/mL
Calcium, Ca	100.0 ± 0.3 µg/mL	Chromium, Cr	1.999 ± 0.012 µg/mL
Cobalt, Co	0.4997 ± 0.0022 µg/mL	Copper, Cu	1.001 ± 0.006 µg/mL
Iron, Fe	50.02 ± 0.22 µg/mL	Lead, Pb	0.4996 ± 0.0022 µg/mL
Magnesium, Mg	50.02 ± 0.22 µg/mL	Manganese, Mn	2.000 ± 0.010 µg/mL
Molybdenum, Mo	0.5004 ± 0.0034 µg/mL	Nickel, Ni	1.000 ± 0.006 µg/mL
Potassium, K	200.1 ± 0.9 µg/mL	Selenium, Se	1.000 ± 0.005 µg/mL
Silver, Ag	0.4998 ± 0.0034 µg/mL	Sodium, Na	200.1 ± 0.9 µg/mL
Strontium, Sr	1.000 ± 0.004 µg/mL	Thallium, Tl	0.4993 ± 0.0026 µg/mL
Tin, Sn	2.000 ± 0.014 µg/mL	Titanium, Ti	9.98 ± 0.06 µg/mL
Uranium, U	1.000 ± 0.005 µg/mL	Vanadium, V	0.5001 ± 0.0026 µg/mL
Zinc, Zn	10.01 ± 0.05 µg/mL		

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
As	Calculated		See Sec. 4.2
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	120618
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	200413
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Sn	ICP Assay	3161a	140917

Sn	Calculated		See Sec. 4.2
Sr	EDTA	928	928
Sr	ICP Assay	Traceable to 3153a	K2-SR650985
Sr	Calculated		See Sec. 4.2
Ti	ICP Assay	traceable to 3162a	T2-TI725816
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	traceable to 3164	R2-U689597
U	Calculated		See Sec. 4.2
V	ICP Assay	3165	160906
V	EDTA	928	928
V	Calculated		See Sec. 4.2
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{1/2}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{1/2}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

6.1 This standard is intended for the calibration of analytical instruments and validation of analytical methods as appropriate. This CRM may be used in connection with EPA Methods 6010, 6020 (all versions), Standard Methods 3120 B and USP <232> / ICH Q3D.

6.2 For products attaining traceability through Inorganic Ventures' Primary Certified Reference Materials (PCRM™) see the Limited License to Use PCRM™ in the Inorganic Ventures Terms and Conditions of Sale, https://www.inorganicventures.com/terms-and-conditions-sale. The Terms and Conditions contain information on the use of materials traceable to PCRM™ certified reference materials. This Limited License agreement is especially pertinent for laboratories accredited under ISO:17034.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information (https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver)

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 31, 2024

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 31, 2029**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Joseph Burns
Custom VS Manager

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Reagent

MT_SULF_FI_00022

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	A300	Quality Test / Release Date	09/11/2023
Lot Number	233289		
Description	SULFURIC ACID, ACS grade		
Country of Origin	United States	Suggested Retest Date	Sep/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Colorless and free from suspended or insoluble matter
AMMONIUM (NH4)	ppm	<= 2	<1
ARSENIC (As)	ppm	<= 0.01	<0.001
ASSAY	w/w %	Inclusive Between 95.0 - 98.0	96.5
CHLORIDE	ppm	<= 0.2	<0.1
COLOR	APHA	<= 10	<10
HEAVY METALS (as Pb)	ppm	<= 1	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	ppm	<= 0.2	<0.2
MERCURY (Hg)	ppb	<= 5	<5
NITRATE (NO3)	ppm	<= 0.5	<0.1
RESIDUE AFTER IGNITION	ppm	<= 5	<3
SUBSTANCES REDUCING KMNO4	ppm	<= 2	<2.0

Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Reagent

OP_BNA_STK_00085

OP-BNA-STK-00085
OP-BNA-SS-00088

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name:	Custom Org Standard - 9 at var conc (250mL)	**Lot Number:**	0006829769
Product Number:	CUS-00007526	**Lot Issue Date:**	30-Jan-2025
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	28-Feb-2027

Component Name	Concentration		Uncertainty	CAS#	Analyte Lot
2-fluorobiphenyl	100.3	±	0.5 µg/mL	000321-60-8	RM22258
nitrobenzene-d5	100.3	±	0.5 µg/mL	004165-60-0	RM19321
p-terphenyl-d14	100.1	±	0.5 µg/mL	001718-51-0	RM21498
2,4,6-tribromophenol	100.5	±	0.5 µg/mL	000118-79-6	RM10846
2-fluorophenol	100.4	±	0.5 µg/mL	000367-12-4	RM18822
phenol-d6	100.3	±	0.5 µg/mL	013127-88-3	RM19353
benzo[a]pyrene-d12	1.00	±	0.01 µg/mL	063466-71-7	RM20807
fluoranthene-d10	1.00	±	0.01 µg/mL	093951-69-0	RM21694
1-methylnaphthalene-d10	1.00	±	0.01 µg/mL	038072-94-5	RM03607

Matrix: methanol (methyl alcohol)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Reagent

OP_LCSmix2stk_00010

OP-LCSmix2stk-00010

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569732 **Lot No.:** A0217501

Description : 8270 List 1 / Std #11

8270 List 1 / Std #11 2,000µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (Grav. Conc. Units)
1	Benzaldehyde	100-52-7	RD231129RSRA	99%	2,010.8 µg/mL	+/- 59.0568
2	epsilon-Caprolactam	105-60-2	Y16H012	99%	2,016.3 µg/mL	+/- 59.2183
3	Atrazine	1912-24-9	5FYWL	99%	2,015.3 µg/mL	+/- 59.1901

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

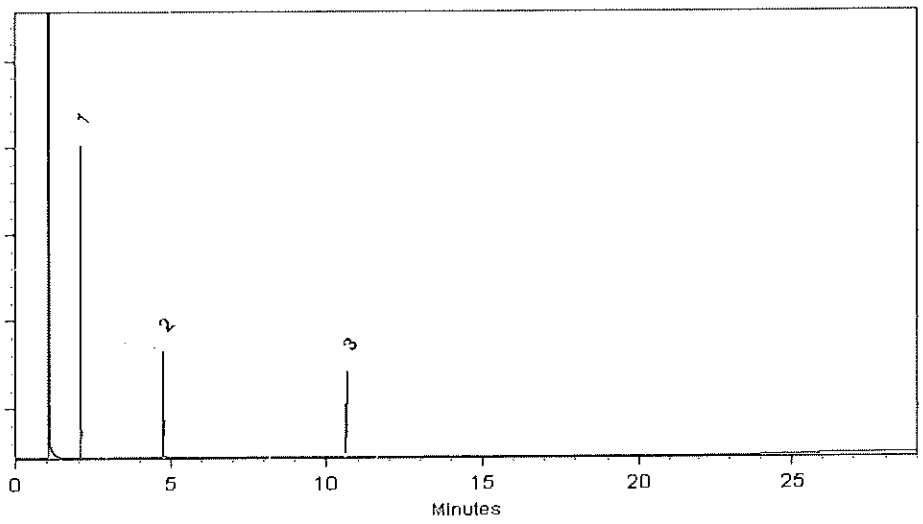
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I Date Mixed: 07-Oct-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 08-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_APPX1_00018

OR RES-APPL-00018

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 570667 **Lot No.:** A0220647

Description : 8270 Supplemental Standard #1

8270 Supplemental Standard #1 1,000µg/mL, Methylene chloride, 1mL/ampul
Also described as 8270 List 2 / Std #1

Container Size : 2 mL **Pkg Amt:** > 1 mL

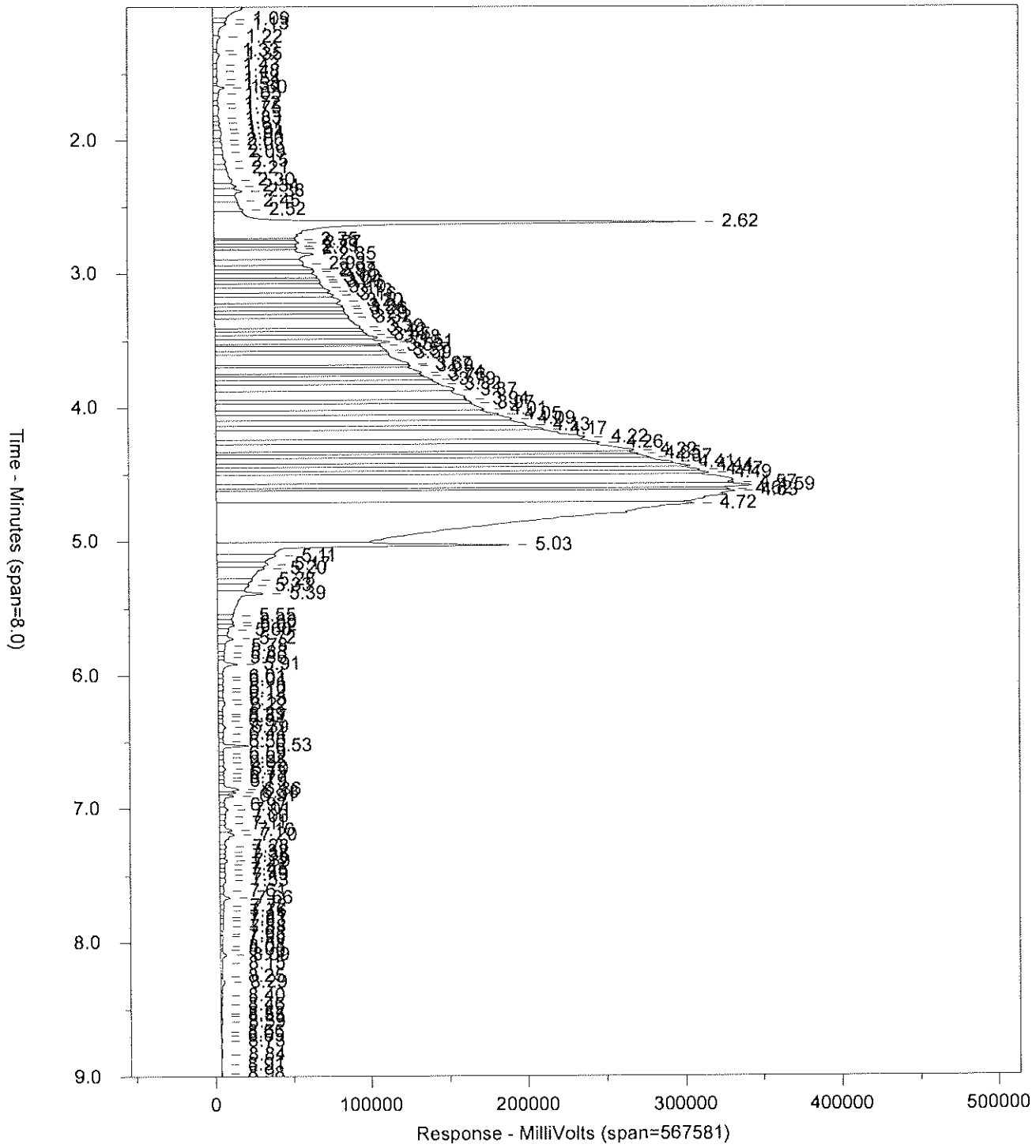
Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Picoline	109-06-8	STBJ3945	99%	1,002.0 µg/mL	+/- 18.5527
2	N-Nitrosomethylethylamine	10595-95-6	SL240628	99%	1,006.0 µg/mL	+/- 18.6267
3	Acrylamide	79-06-1	01402JA	99%	1,001.0 µg/mL	+/- 18.5342
4	N-Nitrosodiethylamine	55-18-5	UT2EJ	99%	1,004.0 µg/mL	+/- 18.5897
5	N-Nitrosopyrrolidine	930-55-2	4-EOD-34-1	99%	1,008.0 µg/mL	+/- 18.6638
6	o-Toluidine	95-53-4	03417PZ	99%	1,000.0 µg/mL	+/- 18.5156
7	N-Nitrosomorpholine	59-89-2	GOJNI	99%	1,008.0 µg/mL	+/- 18.6638
8	N-Nitrosopiperidine	100-75-4	14759900	99%	1,004.0 µg/mL	+/- 18.5897
9	Phentermine (a,a-Dimethylphenethylamine)	122-09-8	S241107RSR	99%	1,004.0 µg/mL	+/- 18.5897
10	Quinoline	91-22-5	IFJEH	99%	1,006.0 µg/mL	+/- 18.6267
11	N-Nitrosodi-n-butylamine	924-16-3	7BSAG	99%	1,008.0 µg/mL	+/- 18.6638
12	1,4-Phenylenediamine	106-50-3	15834600	99%	1,005.0 µg/mL	+/- 18.6082
13	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,008.0 µg/mL	+/- 18.6638
14	1-Naphthylamine (1-aminonaphthalene)	134-32-7	WRJNI	99%	1,010.0 µg/mL	+/- 18.7008
15	2-Naphthylamine (2-aminonaphthalene)	91-59-8	825404	99%	1,007.0 µg/mL	+/- 18.6452

C:\CPData\CP38\Data\38scrn25014001.013.RAW 410-203120-J-8-A 20



16	5-Nitro-o-toluidine	99-55-8	H67GL	99%	1,005.0	µg/mL	+/- 18.6082
17	1,3,5-Trinitrobenzene	99-35-4	DRA6TDK	99%	1,008.0	µg/mL	+/- 18.6638
18	Phenacetin	62-44-2	317935/11192	99%	1,009.0	µg/mL	+/- 18.6823
19	4-Aminobiphenyl	92-67-1	SLCD6545	99%	1,003.0	µg/mL	+/- 18.5712
20	Propyzamide	23950-58-5	14890900	99%	1,000.0	µg/mL	+/- 18.5156
21	Pentachloronitrobenzene (quintozene)	82-68-8	15465100	98%	1,002.5	µg/mL	+/- 18.5627
22	4-Nitroquinoline-N-oxide	56-57-5	WXBF2413V	97%	1,005.9	µg/mL	+/- 18.6247
23	p-Dimethylaminoazobenzene	60-11-7	BCBP8840V	98%	1,001.6	µg/mL	+/- 18.5445
24	3,3'-Dimethylbenzidine (o-tolidine)	119-93-7	ELVJM	99%	1,008.0	µg/mL	+/- 18.6638
25	2-Acetylaminofluorene	53-96-3	WZDQE	99%	1,003.0	µg/mL	+/- 18.5712
26	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	RP230106	97%	1,004.0	µg/mL	+/- 18.5888
27	Dibenz(a,h)acridine	226-36-8	052013	99%	1,006.0	µg/mL	+/- 18.6267

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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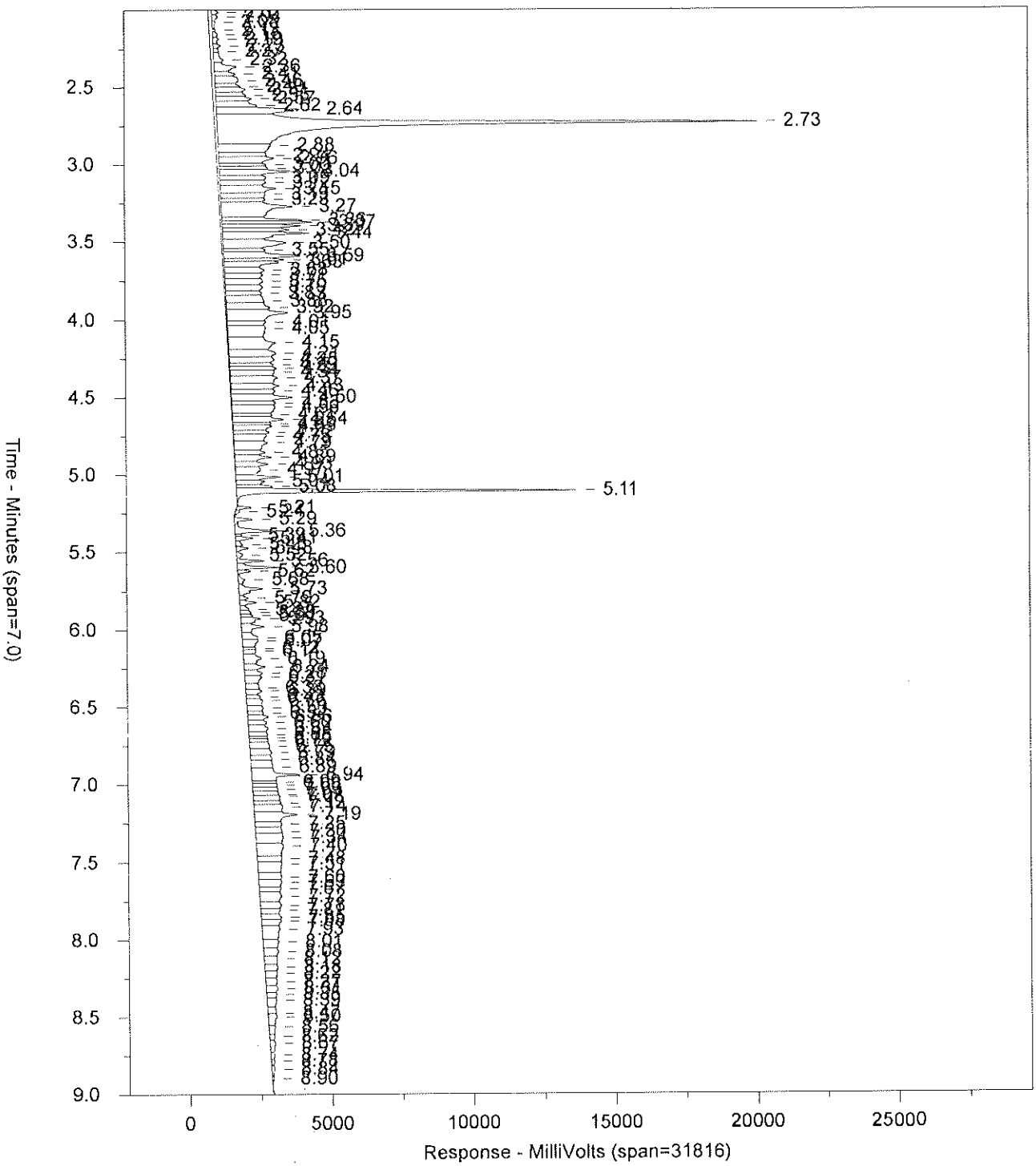


Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

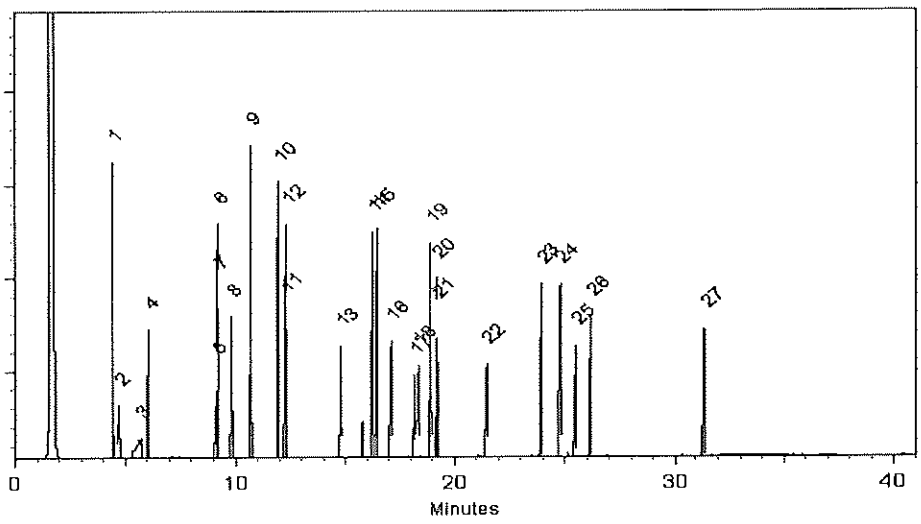
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 01-Jan-2025 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 28-Jan-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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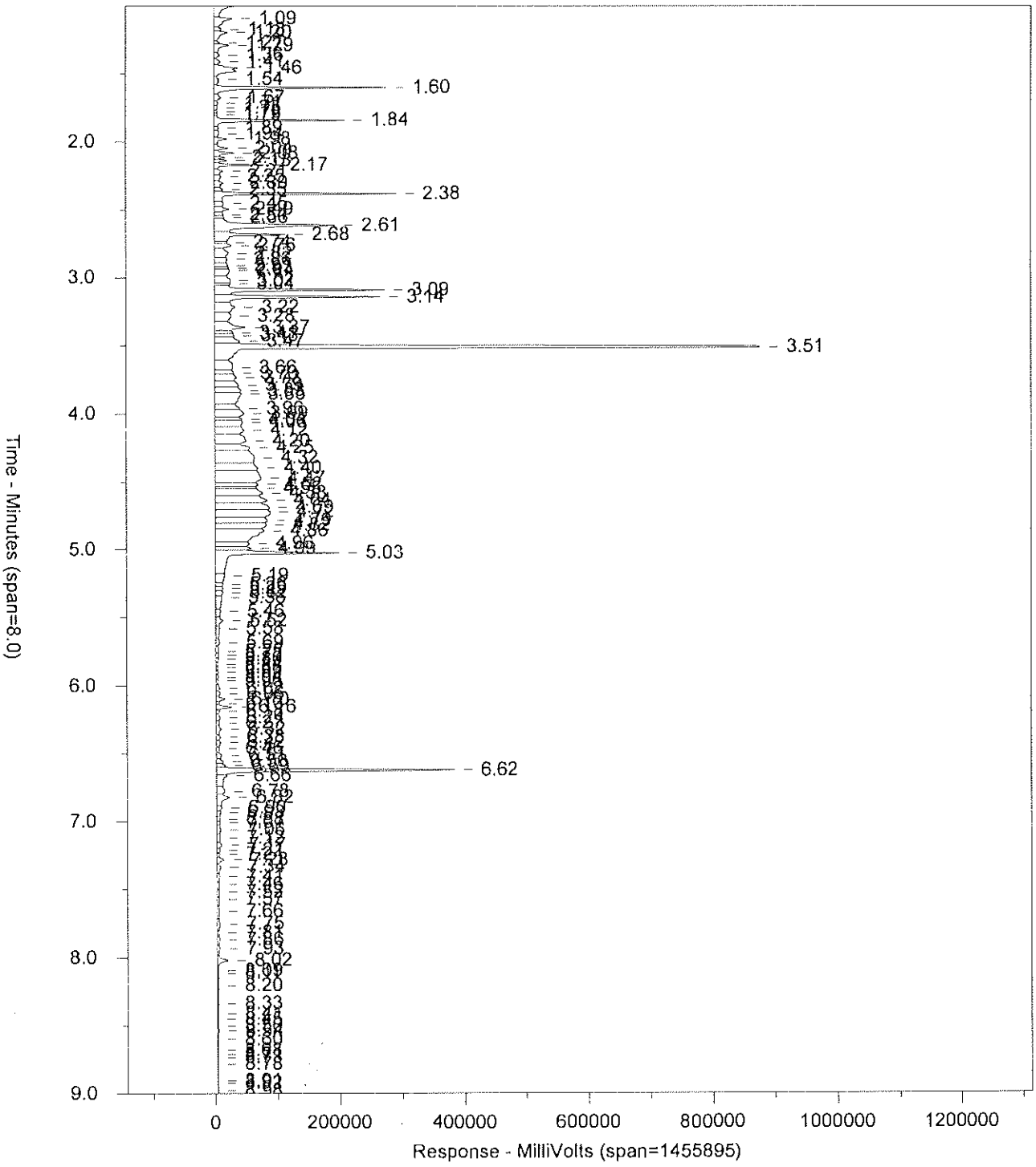

Reagent

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OPRES-APPX2_00018

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569733 **Lot No.:** A0219845

Description : 8270 List 2 / Std #2 (2015)

8270 List 2 / Std #2 (2015) 1,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2025 **Storage:** -20°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Concentration (weight/volume)	Expanded Uncertainty* (95% C.L., k=2)
1	Methyl methanesulfonate	66-27-3	MKCT0680	99%	1,006.8 µg/mL	+/- 23.1130
2	Ethyl methanesulfonate	62-50-0	H6VUB	99%	1,005.0 µg/mL	+/- 23.0717
3	Pentachloroethane	76-01-7	15627600	97%	1,000.7 µg/mL	+/- 22.9719
4	Hexachloropropene	1888-71-7	44391/3	99%	1,003.7 µg/mL	+/- 23.0419
5	Isosafrole (cis & trans) 16% cis; 84% trans	120-58-1	MKBZ0058V	97%	1,008.2 µg/mL	+/- 23.1456
6	1-Chloronaphthalene	90-13-1	TXRHO	98%	1,008.3 µg/mL	+/- 23.1480
7	1,4-Naphthoquinone	130-15-4	KKMWB	99%	1,007.2 µg/mL	+/- 23.1222
8	Pentachlorobenzene	608-93-5	MKCS7191	99%	1,003.9 µg/mL	+/- 23.0464
9	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,007.0 µg/mL	+/- 23.1176
10	Dinoseb	88-85-7	50001	99%	1,004.6 µg/mL	+/- 23.0625
11	Isodrin	465-73-6	15745200	98%	1,001.2 µg/mL	+/- 22.9837
12	Chlorobenzilate	510-15-6	15519800	98%	1,007.3 µg/mL	+/- 23.1255
13	7,12-Dimethylbenz(a)anthracene	57-97-6	2JTRH	99%	1,007.2 µg/mL	+/- 23.1222

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

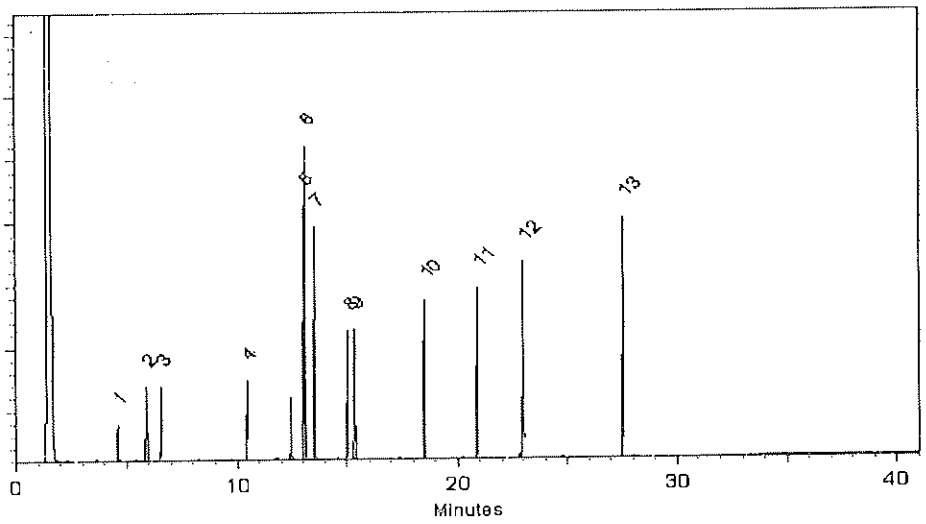
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I **Date Mixed:** 08-Dec-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 10-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_APPX3_00013

OP-RES-APPX3-00013

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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567680 **Lot No.:** A0220331

Description : 8270 List 2 / Std #3

8270 List 2 / Std #3 2,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2025 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; k=2)
1	6-Methylchrysene	1705-85-7	P60507-1024	99%	2,002.0 µg/mL	+/- 90.1854
2	3-Methylcholanthrene	56-49-5	P68278-0327	95%	2,002.6 µg/mL	+/- 90.2125

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

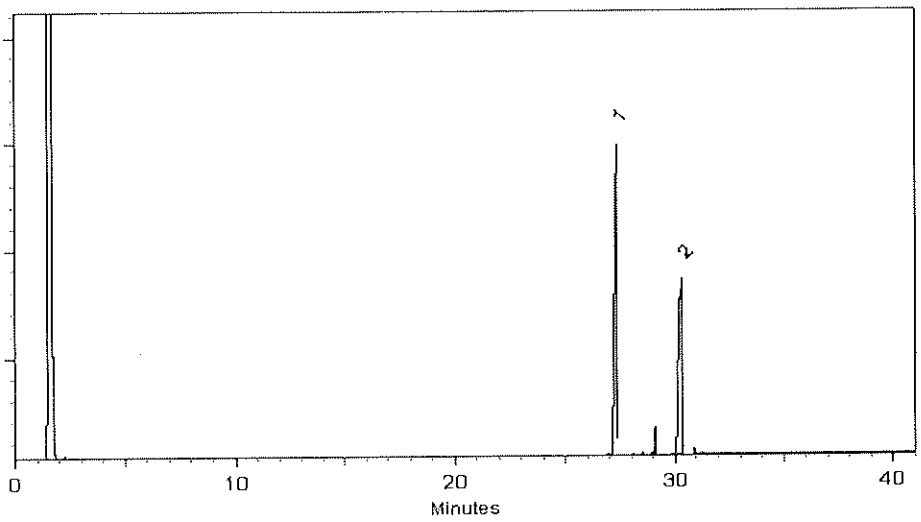
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 19-Dec-2024 **Balance Serial #** 1128360905

Brittany Federinko - Operations Tech I

Date Passed: 07-Jan-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_APPX4_00015

OP_RES_APPX4_00015

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567681 **Lot No.:** A0222255

Description : 8270 List 2 / Std #4

8270 List 2 / Std #4 1,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2027 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Gravimetric Conc. (weight/volume)	Expanded Uncertainty** (95% C.L., k=2)
1	o,o,o-Triethyl phosphorothioate	126-68-1	2-KRR-57-1	98%	1,009.1 µg/mL	+/- 46.0572
2	Safrole	94-59-7	322225/11292	99%	1,007.3 µg/mL	+/- 45.9778
3	Zinophos (thionazine)	297-97-2	15755700	99%	1,003.0 µg/mL	+/- 45.7800
4	Sulfotepp	3689-24-5	15843500	97%	1,005.6 µg/mL	+/- 45.8971
5	Diallate (cis and trans) 74% cis-Diallate; 26% trans-Diallate	2303-16-4	14687600	99%	1,001.7 µg/mL	+/- 45.7191
6	Phorate	298-02-2	15904100	99%	1,008.7 µg/mL	+/- 46.0386
7	Dimethoate	60-51-5	15924900	99%	1,004.0 µg/mL	+/- 45.8256
8	Disulfoton	298-04-4	15536400	99%	1,007.7 µg/mL	+/- 45.9930
9	Methyl parathion	298-00-0	15930400	99%	1,007.3 µg/mL	+/- 45.9778
10	Parathion (Ethyl parathion)	56-38-2	15860000	99%	1,003.3 µg/mL	+/- 45.7952
11	Aramite 2% Isomer 1; 2% Isomer 2; 36% Isomer 3; 60% Isomer 4	140-57-8	15464900	99%	1,008.3 µg/mL	+/- 46.0234
12	Famphur	52-85-7	15822900	98%	1,002.2 µg/mL	+/- 45.7441

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

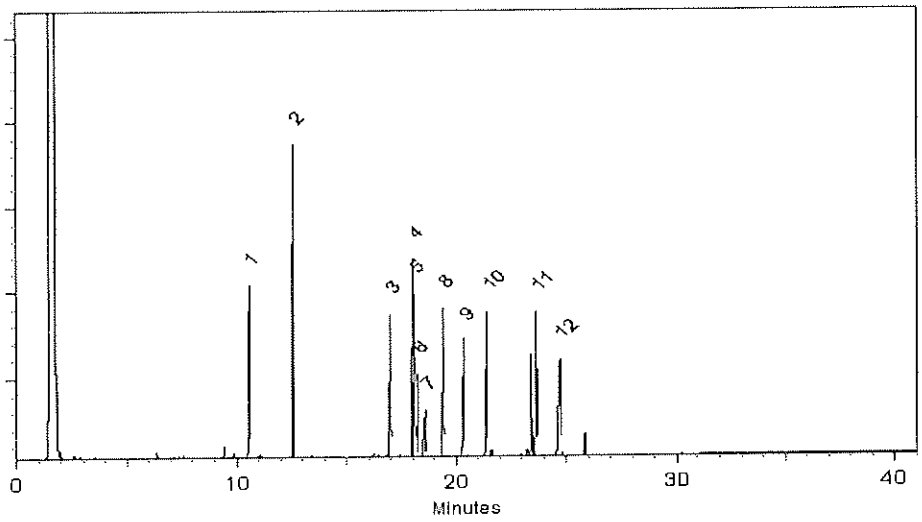
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ven Kelley - Operations Tech I Date Mixed: 13-Feb-2025 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 19-Feb-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_APPX6_00010

OP-RES-APX6-00010

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is Intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568727 **Lot No.:** A0216024

Description : 8270 List 2/ Std #8 Dibenz(a,j)acridine

8270 List 2/ Std #8 Dibenz(a,j)acridine 2,000µg/mL, Methylene chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2027 **Storage:** -10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dibenz(a,j)acridine	224-42-0	0012011	97%	2,006.2 µg/mL	+/- 90.3934

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

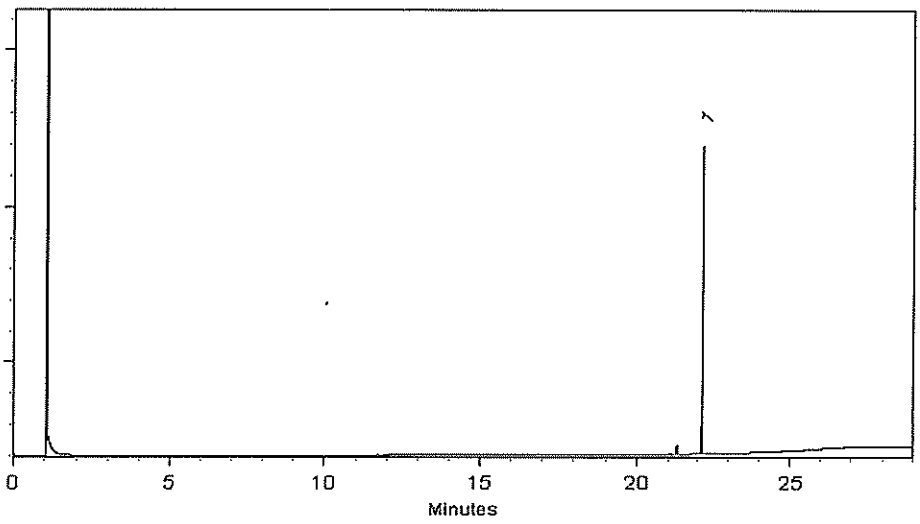
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 03-Sep-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Sep-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Reagent

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995 **Lot No.:** A0219584

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBR4317	99%	1,007.2 µg/mL	+/- 18.6087
2	N-Nitrosodimethylamine	62-75-9	S231113RSR	99%	1,002.8 µg/mL	+/- 18.5275
3	Pyridine	110-86-1	SHBR4811	99%	2,017.3 µg/mL	+/- 37.2711
4	Phenol	108-95-2	MKCK1120	99%	1,007.3 µg/mL	+/- 18.6106
5	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 18.5755
6	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.7 µg/mL	+/- 18.5441
7	n-Decane (C10)	124-18-5	SHBQ1342	99%	1,004.5 µg/mL	+/- 18.5589
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,002.2 µg/mL	+/- 18.5164
9	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,005.5 µg/mL	+/- 18.5773
10	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.7 µg/mL	+/- 18.5995
11	Benzyl alcohol	100-51-6	SHBK5469	99%	1,006.3 µg/mL	+/- 18.5921
12	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,008.4 µg/mL	+/- 18.6309
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,007.1 µg/mL	+/- 18.6069
14	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,003.0 µg/mL	+/- 18.5312
15	Acetophenone	98-86-2	STBH8205	99%	1,003.1 µg/mL	+/- 18.5330
16	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	501.5 µg/mL	+/- 9.2677

17	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	504.0	µg/mL	+/- 9.3139
18	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,001.0	µg/mL	+/- 18.4942
19	Hexachloroethane	67-72-1	DAXRI	99%	1,002.5	µg/mL	+/- 18.5219
20	Nitrobenzene	98-95-3	10224044	99%	1,001.2	µg/mL	+/- 18.4979
21	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 18.5607
22	2-Nitrophenol	88-75-5	RP230710	99%	1,001.7	µg/mL	+/- 18.5071
23	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,004.8	µg/mL	+/- 18.5644
24	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,007.1	µg/mL	+/- 18.6069
25	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 18.5626
26	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,003.4	µg/mL	+/- 18.5385
27	Naphthalene	91-20-3	STBL1057	99%	1,008.6	µg/mL	+/- 18.6346
28	2,6-Dichlorophenol	87-65-0	MKCS9444	99%	1,002.7	µg/mL	+/- 18.5256
29	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,002.6	µg/mL	+/- 18.5238
30	Hexachlorobutadiene	87-68-3	X05J	98%	1,001.8	µg/mL	+/- 18.5082
31	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,007.2	µg/mL	+/- 18.6087
32	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 18.4757
33	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 18.4756
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,002.5	µg/mL	+/- 18.5219
35	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.5	µg/mL	+/- 18.5027
36	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,007.8	µg/mL	+/- 18.6198
37	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,009.3	µg/mL	+/- 18.6473
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.0	µg/mL	+/- 18.5496
39	Biphenyl	92-52-4	MKCS5928	99%	1,007.2	µg/mL	+/- 18.6087
40	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,002.1	µg/mL	+/- 18.5145
41	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 18.4756
42	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,007.3	µg/mL	+/- 18.6106
43	Dimethylphthalate	131-11-3	358221L17K	99%	1,001.1	µg/mL	+/- 18.4960
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.3	µg/mL	+/- 18.5367
45	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,002.8	µg/mL	+/- 18.5275
46	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 18.4757
47	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	2,000.8	µg/mL	+/- 36.9662
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 18.5755
49	4-Nitrophenol	100-02-7	20241120-1-AN	99%	2,009.5	µg/mL	+/- 37.1270
50	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,001.9	µg/mL	+/- 18.5108
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.7	µg/mL	+/- 18.5810
52	Fluorene	86-73-7	10246250	98%	1,006.9	µg/mL	+/- 18.6023

53	n-Hexadecane (C16)	544-76-3	SHBR0669	99%	1,003.0	µg/mL	+/- 18.5312
54	Diethylphthalate	84-66-2	BCCJ6241	99%	1,007.4	µg/mL	+/- 18.6124
55	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,007.2	µg/mL	+/- 18.6087
56	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,006.2	µg/mL	+/- 18.5903
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	2,017.3	µg/mL	+/- 37.2711
58	Diphenylamine	122-39-4	MKCT1512	99%	853.6	µg/mL	+/- 15.7745
59	Azobenzene	103-33-3	BCCK0887	99%	1,002.3	µg/mL	+/- 18.5182
60	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,001.3	µg/mL	+/- 18.4997
61	Hexachlorobenzene	118-74-1	15458400	99%	1,002.2	µg/mL	+/- 18.5164
62	Pentachlorophenol	87-86-5	RP240517RSR	99%	2,005.4	µg/mL	+/- 37.0512
63	n-Octadecane (C18)	593-45-3	UE5NG	99%	1,002.5	µg/mL	+/- 18.5219
64	Phenanthrene	85-01-8	MKCT3391	99%	1,002.7	µg/mL	+/- 18.5256
65	Anthracene	120-12-7	101492T18R	99%	1,008.5	µg/mL	+/- 18.6328
66	Carbazole	86-74-8	14872900	99%	1,006.3	µg/mL	+/- 18.5921
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,003.5	µg/mL	+/- 18.5404
68	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.6	µg/mL	+/- 18.5422
69	Pyrene	129-00-0	BCCK2592	99%	1,003.7	µg/mL	+/- 18.5441
70	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,005.6	µg/mL	+/- 18.5792
71	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.8	µg/mL	+/- 18.5829
72	Chrysene	218-01-9	RP241007RSR	99%	1,002.8	µg/mL	+/- 18.5275
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,001.8	µg/mL	+/- 18.5090
74	Di-n-octyl phthalate	117-84-0	15566400	99%	1,004.8	µg/mL	+/- 18.5644
75	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,001.3	µg/mL	+/- 18.4997
76	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,001.0	µg/mL	+/- 18.4937
77	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,008.4	µg/mL	+/- 18.6313
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,005.8	µg/mL	+/- 18.5828
79	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,004.0	µg/mL	+/- 18.5496
80	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.9	µg/mL	+/- 18.5842

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:

N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.
This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

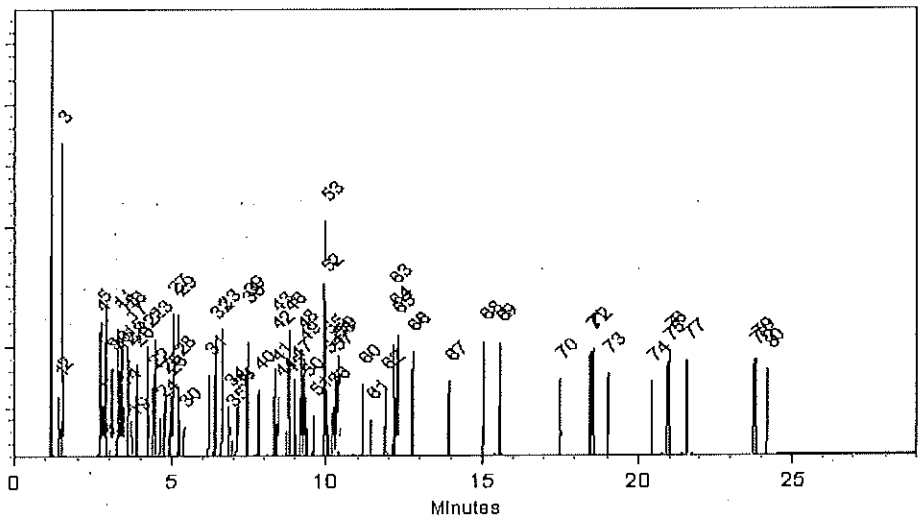
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 26-Nov-2024 Balance Serial # 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 17-Dec-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_LCS1_00024

OPRES LCS1-00024

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 571995 **Lot No.:** A0224609

Description : 8270 List 1 / Std #1 MegaMix (2017)

8270 List 1 / Std #1 MegaMix (2017) 500-2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : February 28, 2026 **Storage:** 0°C or colder

Handling: Carcinogen/reproductive toxin. Photosensitive. Sonicate. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Gravimetric Conc. (weight/weight solution)	Expanded Uncertainty* (k=2, 95% C.L., Rep)
1	1,4-Dioxane	123-91-1	SHBS1217	99%	1,008.1 µg/mL	+/- 18.6301
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.0 µg/mL	+/- 18.5724
3	Pyridine	110-86-1	SHBR4811	99%	2,007.3 µg/mL	+/- 37.0854
4	Phenol	108-95-2	MKCT5446	99%	1,001.0 µg/mL	+/- 18.4984
5	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 18.5331
6	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,008.4 µg/mL	+/- 18.6347
7	n-Decane (C10)	124-18-5	SHBQ1342	99%	1,006.1 µg/mL	+/- 18.5931
8	2-Chlorophenol	95-57-8	STBJ3909	99%	1,007.6 µg/mL	+/- 18.6209
9	1,3-Dichlorobenzene	541-73-1	STBL1702	99%	1,005.4 µg/mL	+/- 18.5793
10	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,004.6 µg/mL	+/- 18.5654
11	Benzyl alcohol	100-51-6	094986P13M	99%	1,003.4 µg/mL	+/- 18.5423
12	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,003.6 µg/mL	+/- 18.5469
13	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,001.3 µg/mL	+/- 18.5031
14	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.0 µg/mL	+/- 18.6093
15	Acetophenone	98-86-2	STBH8205	99%	1,006.4 µg/mL	+/- 18.5978
16	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	501.9 µg/mL	+/- 9.2746

17	4-Methylphenol (p-cresol)	106-44-5	SHBQ7653	99%	501.4	µg/mL	+/- 9.2654
18	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,009.4	µg/mL	+/- 18.6532
19	Hexachloroethane	67-72-1	DAXRI	99%	1,006.3	µg/mL	+/- 18.5955
20	Nitrobenzene	98-95-3	10224044	99%	1,005.0	µg/mL	+/- 18.5724
21	Isophorone	78-59-1	MKCR3249	99%	1,009.0	µg/mL	+/- 18.6463
22	2-Nitrophenol	88-75-5	RP230710	99%	1,004.3	µg/mL	+/- 18.5585
23	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,008.3	µg/mL	+/- 18.6324
24	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,002.9	µg/mL	+/- 18.5331
25	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,008.0	µg/mL	+/- 18.6278
26	1,2,4-Trichlorobenzene	120-82-1	SHBR1701	99%	1,009.3	µg/mL	+/- 18.6509
27	Naphthalene	91-20-3	STBL1057	99%	1,002.4	µg/mL	+/- 18.5238
28	2,6-Dichlorophenol	87-65-0	MKCS9444	99%	1,002.1	µg/mL	+/- 18.5192
29	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,008.9	µg/mL	+/- 18.6440
30	Hexachlorobutadiene	87-68-3	X05J	98%	1,006.1	µg/mL	+/- 18.5925
31	4-Chloro-3-methylphenol	59-50-7	BCCK5906	99%	1,003.6	µg/mL	+/- 18.5469
32	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.1	µg/mL	+/- 18.4823
33	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.4	µg/mL	+/- 18.3028
34	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,006.9	µg/mL	+/- 18.6070
35	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,002.3	µg/mL	+/- 18.5215
36	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,001.6	µg/mL	+/- 18.5100
37	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,008.2	µg/mL	+/- 18.6314
38	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,008.9	µg/mL	+/- 18.6440
39	Biphenyl	92-52-4	MKCS5928	99%	1,008.8	µg/mL	+/- 18.6417
40	2-Nitroaniline	88-74-4	RP241202RSR	99%	1,002.1	µg/mL	+/- 18.5192
41	Acenaphthylene	208-96-8	214935V18H	95%	1,000.0	µg/mL	+/- 18.4798
42	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,007.0	µg/mL	+/- 18.6093
43	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.6	µg/mL	+/- 18.6393
44	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,004.8	µg/mL	+/- 18.5677
45	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,007.8	µg/mL	+/- 18.6232
46	Acenaphthene	83-32-9	MKCV8166	99%	1,000.0	µg/mL	+/- 18.4800
47	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	2,011.5	µg/mL	+/- 37.1639
48	Dibenzofuran	132-64-9	MKCN1772	99%	1,001.8	µg/mL	+/- 18.5123
49	4-Nitrophenol	100-02-7	20241120-1-AN	99%	2,007.8	µg/mL	+/- 37.0946
50	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.8	µg/mL	+/- 18.6417
51	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.9	µg/mL	+/- 18.5885
52	Fluorene	86-73-7	10246250	98%	1,003.0	µg/mL	+/- 18.5360

53	n-Hexadecane (C16)	544-76-3	SHBR0670	99%	1,004.1	µg/mL	+/- 18.5562
54	Diethylphthalate	84-66-2	STBL3611	99%	1,004.0	µg/mL	+/- 18.5539
55	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,007.1	µg/mL	+/- 18.6116
56	4-Nitroaniline	100-01-6	RP240510RSR	99%	1,002.5	µg/mL	+/- 18.5262
57	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240410RSR	99%	2,011.1	µg/mL	+/- 37.1570
58	Diphenylamine	122-39-4	MKCT1512	99%	852.6	µg/mL	+/- 15.7565
59	Azobenzene	103-33-3	BCCL3292	99%	1,003.0	µg/mL	+/- 18.5354
60	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.4	µg/mL	+/- 18.5793
61	Hexachlorobenzene	118-74-1	15828800	99%	1,002.9	µg/mL	+/- 18.5331
62	Pentachlorophenol	87-86-5	RP240517RSR	99%	2,006.6	µg/mL	+/- 37.0739
63	n-Octadecane (C18)	593-45-3	UE5NG	99%	1,001.4	µg/mL	+/- 18.5054
64	Phenanthrene	85-01-8	MKCT3391	99%	1,004.1	µg/mL	+/- 18.5562
65	Anthracene	120-12-7	101492T18R	99%	1,005.0	µg/mL	+/- 18.5724
66	Carbazole	86-74-8	15821400	99%	1,008.6	µg/mL	+/- 18.6393
67	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,001.4	µg/mL	+/- 18.5054
68	Fluorantbene	206-44-0	A0458721	99%	1,005.3	µg/mL	+/- 18.5770
69	Pyrene	129-00-0	BCCK2592	99%	1,004.3	µg/mL	+/- 18.5585
70	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,005.5	µg/mL	+/- 18.5816
71	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,003.8	µg/mL	+/- 18.5493
72	Chrysene	218-01-9	RP250121RSR	99%	1,001.4	µg/mL	+/- 18.5054
73	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,005.4	µg/mL	+/- 18.5793
74	Di-n-octyl phthalate	117-84-0	15817300	99%	1,002.8	µg/mL	+/- 18.5308
75	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,003.3	µg/mL	+/- 18.5400
76	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,007.4	µg/mL	+/- 18.6162
77	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,001.8	µg/mL	+/- 18.5133
78	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.0	µg/mL	+/- 18.4992
79	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,001.3	µg/mL	+/- 18.5031
80	Benzo(g,h,i)perylene	191-24-2	RP250219RSR	99%	1,001.9	µg/mL	+/- 18.5146

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Specific Reference Material Notes:
N-nitrosodiphenylamine 1000 ug/mL equivalent when used for GC analysis. Actual formulation is diphenylamine 855 ug/mL.
N-Nitrosodiphenylamine is prone to breakdown in the injection port and will be converted to diphenylamine.
N-Nitrosodiphenylamine is also a reactive species that can initiate premature decomposition of other compounds in the mix. For these reasons diphenylamine is used in the preparation of this mixture. When comparing the response of this compound to mixtures manufactured using N-nitrosodiphenylamine, a difference in response will be observed.
This lot was approved even though the %D for 4,6-DN-2-MP was greater than 10%.

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

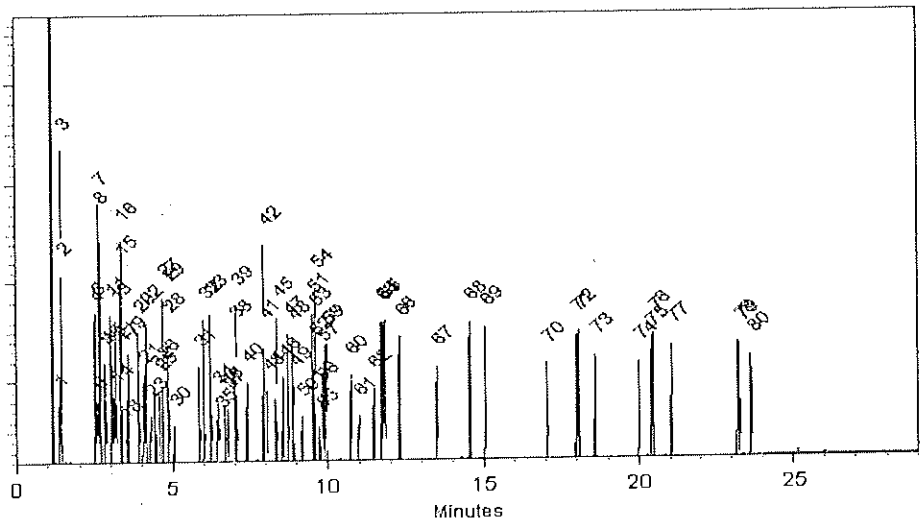
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician — Date Mixed: 14-Apr-2025 — Balance Serial # C322230531

Jennifer Pollino - Operations Tech III - ARM QC — Date Passed: 25-Apr-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_LCS2_00013

OP-RES-LCS2-00013

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730 **Lot No.:** A0211034

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : November 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S240206RSR	99%	2,003.9 µg/mL	+/- 37.0230
2	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	2,019.9 µg/mL	+/- 37.3187

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

C:\CPData\CP38\Data\38scrn2430102.001.RAW
410-19291 2-A-2-A
Response - Millivolts (span=397026)
0
50000
100000
150000
200000
250000
300000
350000
Time - Minutes (span=8.0)
2.0
3.0
4.0
5.0
6.0
7.0
8.0
9.0
2.64
2.80
2.97
3.88
5.05
5.47
7.37

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

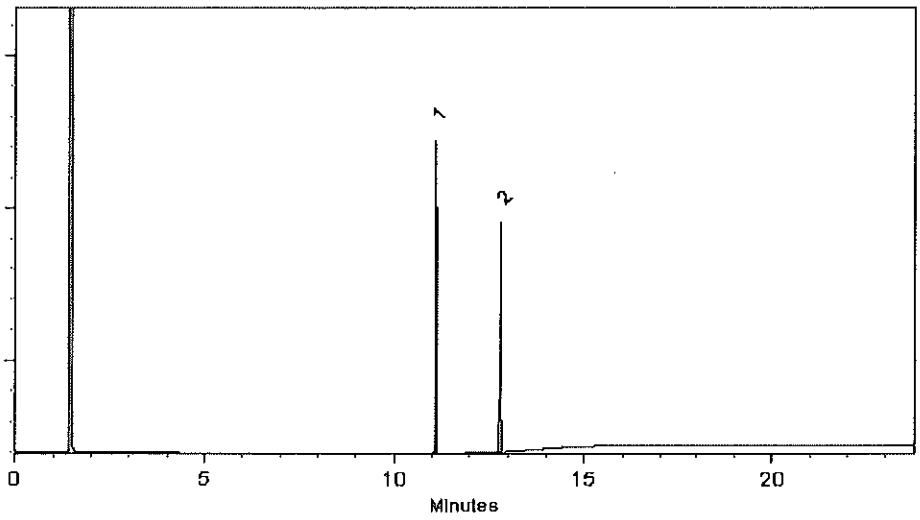
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-May-2024 **Balance Serial #** 1122030677

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 07-May-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

C:\CPData\CP38\Data\38scrn24301002B.001.RAW
410-192912-A-3-A
Response - MIllIVolts (span=74034)
0
10000
20000
30000
40000
50000
60000
Time - Minutes (span=7.0)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.67
2.76
5.14
4.70
7.02

Reagent

OP_RES_LCS2_00014

ORRES-LCS2-00014

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569730 **Lot No.:** A0224695

Description : 8270 List 1 / Std #9

8270 List 1 / Std #9 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 10 mL **Pkg Amt:** > 5 mL

Expiration Date : October 31, 2026 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Component	CAS #	Lot #	Purity	Grav. Conc. (gravimetrical)	Expanded Uncertainty* (gravimetrical)
1	Benzidine	92-87-5	S250227ECS	99%	2,009.0 µg/mL	+/- 37.1177
2	3,3'-Dichlorobenzidine	91-94-1	S250226RSR	99%	2,002.4 µg/mL	+/- 36.9961

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

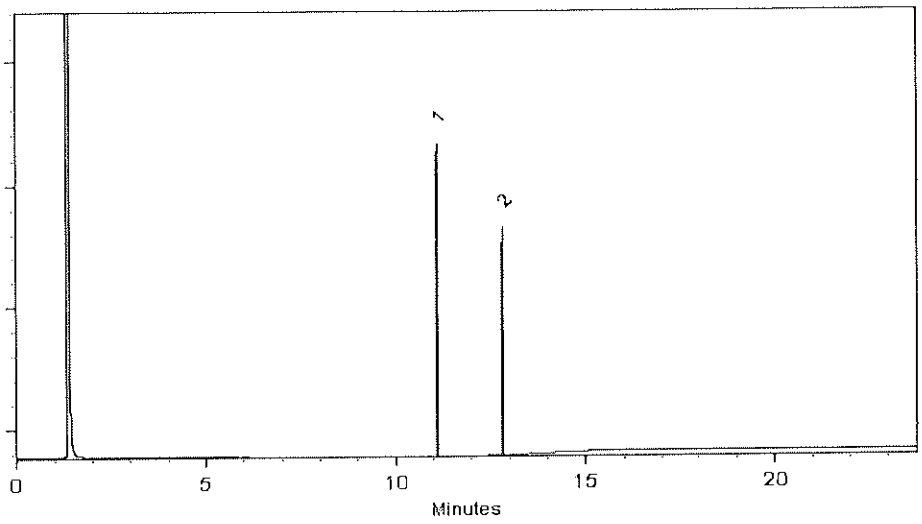
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
0.2µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician Date Mixed: 16-Apr-2025 Balance Serial # C322230531

Jennifer Pollino - Operations Tech III - ARM QC Date Passed: 18-Apr-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

Reagent

OP_RES_LCS3_00011

OR-RES-LCS3-00010

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 569731 **Lot No.:** A0203783

Description : 8270 List 1 / Std #10

8270 List 1 / Std #10 2,000 µg/mL, Methylene chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Indene	95-13-6	RD221018	98%	2,005.7 µg/mL	+/- 112.6725
2	Benzoic acid	65-85-0	MKCR2694	99%	2,003.1 µg/mL	+/- 112.5297

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Reagent

OP_RES_LCSadd_00004

OP_RES_LCSadd-00004

Agilent

Trusted Answers

ISO 17034

Reference Material Certificate

Product Information Sheet

Product Name:	Custom Org Std - 10 at 2000 ug/mL (5mL)	**Lot Number:**	0006819172
Product Number:	CUS-00007657	**Lot Issue Date:**	15-Oct-2024
Storage Conditions:	Store Refrigerated (2° to 8°C).	**Expiration Date:**	30-Nov-2025

Component Name	Concentration		Uncertainty	CAS#	Analyte No.
diphenyl ether	2009	±	10 µg/mL	000101-84-8	NT01385
n-eicosane	2004	±	10 µg/mL	000112-95-8	RM04169
octachlorostyrene	2000	±	10 µg/mL	029082-74-4	RM02807
2,3-dichloroaniline	2002	±	10 µg/mL	000608-27-5	NT02176
n-tetradecane	2010	±	10 µg/mL	000629-59-4	RM12275
n-docosane	2001	±	10 µg/mL	000629-97-0	RM22455
1-methylphenanthrene	2002	±	10 µg/mL	000832-69-9	RM22766
alpha-terpineol	2003	±	10 µg/mL	000098-55-5	RM22657
alpha-methylstyrene	2004	±	10 µg/mL	000098-83-9	RM17948
N,N-dimethylformamide	2003	±	10 µg/mL	000068-12-2	RM06866

Matrix: methylene chloride (Burdick and Jackson)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Sample Container Check Report

Client: TRC, Engineers, Inc.
Job ID: 410-229895-1
Project/Site: RFAAP, Radford HWMU16

Sample Container Checks and Verifications

Lab Sample ID: 410-229895-1 — Client Sample ID: 16C1

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
G	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:16	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-10 — Client Sample ID: 16WC2B

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:26	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-11 — Client Sample ID: 16SPRING

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:11	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-2 — Client Sample ID: 16MW8

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:27	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-3 — Client Sample ID: 16MW9

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
P	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:18	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-4 — Client Sample ID: 16WC1A

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
G	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:20	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-4 MS — Client Sample ID: 16WC1A

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
G	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:19	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-4 MSD — Client Sample ID: 16WC1A

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
G	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:29	<2	<2	N/A	N/A	N/A	N/A	N/A

Sample Container Checks and Verifications (Continued)

Lab Sample ID: 410-229895-5 Client Sample ID: 16WDUP

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:22	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-6 Client Sample ID: 16WC1B

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:23	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-7 Client Sample ID: 16-2

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:14	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-8 Client Sample ID: 16-3

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:24	<2	<2	N/A	N/A	N/A	N/A	N/A

Lab Sample ID: 410-229895-9 Client Sample ID: 16-5

Bottle Code	Check Performed	By Employee	Date	Check Result	Expected Result	Adjusted Date	Reagent Lot #	Reagent Expires	Re-check Result	Re-check Date
D	pH Check, 24hr Adjustment Confirmation Required	U6QM	06/30/2025 20:15	<2	<2	N/A	N/A	N/A	N/A	N/A

Method 8260D Low Level

Volatile Organic Compounds (GC/MS) by Method 8260D Low Level

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): R-624SilMS ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
16C1	410-229895-1	106	106	96	92
16C1 DL	410-229895-1 DL	107	104	96	92
16MW8	410-229895-2	106	104	95	92
16MW9	410-229895-3	106	106	97	93
16MW9 DL	410-229895-3 DL	106	103	96	91
16WC1A	410-229895-4	108	107	96	93
16WDUP	410-229895-5	106	106	96	93
16WC1B	410-229895-6	104 cn	102 cn	97 cn	95 cn
16WC1B RA	410-229895-6 RA	104	103	98	92
16-2	410-229895-7	104 cn	103 cn	96 cn	93 cn
16-2 RA	410-229895-7 RA	105	101	98	92
16-3	410-229895-8	106	107	96	92
16-5	410-229895-9	107	106	95	93
16WC2B	410-229895-10	109	105	96	92
16SPRING	410-229895-11	107	108	96	91
Trip Blank 1	410-229895-12	106	104	97	93
Trip Blank 2	410-229895-13	106	102	97	94
	MB 410-668089/8	107	107	97	94
	MB 410-668678/10	106	105	96	94
	LCS 410-668089/5	103	106	98	100
	LCS 410-668089/6	105	103	97	93
	LCS 410-668678/5	103	101	100	100
	LCS 410-668678/7	103	103	96	93
	LCSD 410-668678/6	102	106	99	99
	LCSD 410-668678/8	104	106	96	93
16WC1A MS	410-229895-4 MS	103	105	99	99
16WC1A MS	410-229895-4 MS	105	106	97	93
	410-229825-B-1 MS	102	100	101	99
16WC1A MSD	410-229895-4 MSD	103	105	100	99
16WC1A MSD	410-229895-4 MSD	105	103	96	92
	410-229825-A-1 MSD	103	100	101	100

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	80-120
DCA = 1,2-Dichloroethane-d4 (Surr)	80-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL08X04.D

Lab ID: LCS 410-668089/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	5.00	4.93	99	74-120	
1,1-Dichloroethene	5.00	5.06	101	80-131	
1,1,1-Trichloroethane	5.00	4.90	98	78-126	
2-Butanone	62.5	68.2	109	59-141	
Benzene	5.00	4.76	95	80-120	
Carbon tetrachloride	5.00	5.02	100	64-141	
Chloroethane	5.00	4.99	100	63-120	
Chloromethane	5.00	4.79	96	56-124	
Dichlorodifluoromethane	5.00	5.11	102	43-123	
Ethyl ether	4.96	4.62 J	93	54-127	
Ethylbenzene	5.00	4.64	93	80-120	
Methylene Chloride	5.00	5.11	102	80-120	
Tetrachloroethene	5.00	4.65	93	80-120	
Tetrahydrofuran	25.0	26.0	104	67-137	
Toluene	5.00	4.70	94	80-120	
Trichloroethene	5.00	4.70	94	80-120	
Trichlorofluoromethane	5.00	5.00	100	53-136	
Vinyl chloride	5.00	4.97	99	60-125	
Xylenes, Total	15.0	14.2	95	80-120	
Freon 113	5.00	4.46	89	67-124	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL08X05.D

Lab ID: LCS 410-668089/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetonitrile	18.8	19.6	105	51-160	
Vinyl acetate	12.5	11.7	93	64-145	
Dimethyl ether	5.00	4.38 J	88	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL09X04.D

Lab ID: LCS 410-668678/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	5.00	5.02	100	74-120	
1,1-Dichloroethene	5.00	5.09	102	80-131	
1,1,1-Trichloroethane	5.00	4.93	99	78-126	
2-Butanone	62.5	72.1	115	59-141	
Benzene	5.00	4.84	97	80-120	
Carbon tetrachloride	5.00	5.05	101	64-141	
Chloroethane	5.00	4.52	90	63-120	
Chloromethane	5.00	4.57	91	56-124	
Dichlorodifluoromethane	5.00	4.52	90	43-123	
Ethyl ether	4.96	4.66 J	94	54-127	
Ethylbenzene	5.00	4.76	95	80-120	
Methylene Chloride	5.00	5.14	103	80-120	
Tetrachloroethene	5.00	4.74	95	80-120	
Tetrahydrofuran	25.0	27.5	110	67-137	
Toluene	5.00	4.84	97	80-120	
Trichloroethene	5.00	4.75	95	80-120	
Trichlorofluoromethane	5.00	4.55	91	53-136	
Vinyl chloride	5.00	4.53	91	60-125	
Xylenes, Total	15.0	14.4	96	80-120	
Freon 113	5.00	4.70	94	67-124	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL09X06.D

Lab ID: LCS 410-668678/7 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dimethyl ether	5.00	3.54 J	71	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL09X05.D

Lab ID: LCSD 410-668678/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	5.00	5.19	104	3	30	74-120	
1,1-Dichloroethene	5.00	5.25	105	3	30	80-131	
1,1,1-Trichloroethane	5.00	5.11	102	4	30	78-126	
2-Butanone	62.5	72.1	115	0	30	59-141	
Benzene	5.00	5.05	101	4	30	80-120	
Carbon tetrachloride	5.00	5.25	105	4	30	64-141	
Chloroethane	5.00	4.82	96	6	30	63-120	
Chloromethane	5.00	4.77	95	4	30	56-124	
Dichlorodifluoromethane	5.00	4.79	96	6	30	43-123	
Ethyl ether	4.96	4.88 J	98	5	30	54-127	
Ethylbenzene	5.00	4.92	98	3	30	80-120	
Methylene Chloride	5.00	5.37	107	4	30	80-120	
Tetrachloroethene	5.00	4.89	98	3	30	80-120	
Tetrahydrofuran	25.0	27.7	111	1	30	67-137	
Toluene	5.00	5.00	100	3	30	80-120	
Trichloroethene	5.00	4.92	98	3	30	80-120	
Trichlorofluoromethane	5.00	4.74	95	4	30	53-136	
Vinyl chloride	5.00	4.85	97	7	30	60-125	
Xylenes, Total	15.0	14.9	100	4	30	80-120	
Freon 113	5.00	4.79	96	2	30	67-124	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL09X07.D

Lab ID: LCSD 410-668678/8 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dimethyl ether	5.00	3.57 J	71	1	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL08X18.D

Lab ID: 410-229895-4 MS Client ID: 16WC1A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Benzene	5.00	ND	5.30	102	80-120	
2-Butanone	62.6	ND	73.4	117	59-141	
Carbon tetrachloride	5.00	ND	5.53	111	64-141	
Chloroethane	5.00	1.2	6.43	104	63-120	
Chloromethane	5.00	ND	5.40	108	80-120	
Dichlorodifluoromethane	5.00	ND	6.31	126	43-123	F1
1,1-Dichloroethane	5.00	2.0	7.15	102	74-120	
1,1-Dichloroethene	5.00	ND	5.71	112	80-131	
Ethylbenzene	5.00	ND	4.94	99	80-120	
Ethyl ether	4.97	16	19.9	70	54-127	
Methylene Chloride	5.00	ND	5.39	108	80-120	
Tetrachloroethene	5.00	ND	5.16	103	80-120	
Tetrahydrofuran	25.0	ND	30.7	119	67-137	
Toluene	5.00	ND	5.09	102	80-120	
1,1,1-Trichloroethane	5.00	ND	5.33	106	78-126	
Trichloroethene	5.00	ND	5.16	103	80-120	
Trichlorofluoromethane	5.00	ND	5.81	116	53-136	
Vinyl chloride	5.00	ND	5.71	112	60-125	
Xylenes, Total	15.0	ND	15.1	100	80-120	
Freon 113	5.00	ND	5.55	111	67-124	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL08X20.D

Lab ID: 410-229895-4 MS Client ID: 16WC1A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dimethyl ether	4.65	ND	ND	120	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL09X22.D

Lab ID: 410-229825-B-1 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethane	500	ND	585	117	74-120	
1,1-Dichloroethene	500	ND	625	125	80-131	
1,1,1-Trichloroethane	500	ND	593	119	78-126	
2-Butanone	6260	ND	7740	124	59-141	
Benzene	500	ND	569	114	80-120	
Carbon tetrachloride	500	ND	619	124	64-141	
Chloroethane	500	ND	511	102	63-120	
Chloromethane	500	ND	530	106	80-120	
Dichlorodifluoromethane	500	ND	592	118	43-123	
Ethyl ether	497	ND	ND	96	54-127	
Ethylbenzene	500	ND	560	112	80-120	
Methylene Chloride	500	ND	589	118	80-120	
Tetrachloroethene	500	ND	571	114	80-120	
Tetrahydrofuran	2500	ND	3010	120	67-137	
Toluene	500	ND	576	113	80-120	
Trichloroethene	500	32000	32700	56	80-120	E 4
Trichlorofluoromethane	500	ND	550	110	53-136	
Vinyl chloride	500	ND	538	107	60-125	
Xylenes, Total	1500	ND	1690	113	80-120	
Freon 113	500	ND	625	125	67-124	F1

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL08X19.D

Lab ID: 410-229895-4 MSD Client ID: 16WC1A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	5.00	5.32	103	0	30	80-120	
2-Butanone	62.6	67.3	108	9	30	59-141	
Carbon tetrachloride	5.00	5.66	113	2	30	64-141	
Chloroethane	5.00	6.33	102	2	30	63-120	
Chloromethane	5.00	5.33	106	1	30	80-120	
Dichlorodifluoromethane	5.00	6.29	126	0	30	43-123	F1
1,1-Dichloroethane	5.00	7.20	103	1	30	74-120	
1,1-Dichloroethene	5.00	5.89	116	3	30	80-131	
Ethylbenzene	5.00	5.02	100	2	30	80-120	
Ethyl ether	4.97	19.2	56	4	30	54-127	
Methylene Chloride	5.00	5.40	108	0	30	80-120	
Tetrachloroethene	5.00	5.24	105	2	30	80-120	
Tetrahydrofuran	25.0	27.1	104	12	30	67-137	
Toluene	5.00	5.12	102	1	30	80-120	
1,1,1-Trichloroethane	5.00	5.39	108	1	30	78-126	
Trichloroethene	5.00	5.21	104	1	30	80-120	
Trichlorofluoromethane	5.00	5.79	116	0	30	53-136	
Vinyl chloride	5.00	5.70	112	0	30	60-125	
Xylenes, Total	15.0	15.1	101	0	30	80-120	
Freon 113	5.00	5.80	116	4	30	67-124	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL08X21.D

Lab ID: 410-229895-4 MSD Client ID: 16WC1A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dimethyl ether	4.65	ND	118	2	30	70-130	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: CL09X23.D

Lab ID: 410-229825-A-1 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1-Dichloroethane	500	553	111	6	30	74-120	
1,1-Dichloroethene	500	585	117	7	30	80-131	
1,1,1-Trichloroethane	500	563	113	5	30	78-126	
2-Butanone	6260	7340	117	5	30	59-141	
Benzene	500	542	108	5	30	80-120	
Carbon tetrachloride	500	588	118	5	30	64-141	
Chloroethane	500	483	97	6	30	63-120	
Chloromethane	500	459	92	14	30	80-120	
Dichlorodifluoromethane	500	549	110	7	30	43-123	
Ethyl ether	497	ND	95	2	30	54-127	
Ethylbenzene	500	532	106	5	30	80-120	
Methylene Chloride	500	559	112	5	30	80-120	
Tetrachloroethene	500	535	107	6	30	80-120	
Tetrahydrofuran	2500	2960	118	2	30	67-137	
Toluene	500	548	107	5	30	80-120	
Trichloroethene	500	31200	-228	4	30	80-120	E 4
Trichlorofluoromethane	500	514	103	7	30	53-136	
Vinyl chloride	500	497	99	8	30	60-125	
Xylenes, Total	1500	1600	107	5	30	80-120	
Freon 113	500	586	117	6	30	67-124	

Column to be used to flag recovery and RPD values

FORM III 8260D

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: CL08X07.D Lab Sample ID: MB 410-668089/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 10193 Date Analyzed: 07/08/2025 12:00

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-668089/5	CL08X04.D	07/08/2025 10:53
	LCS 410-668089/6	CL08X05.D	07/08/2025 11:16
Trip Blank 1	410-229895-12	CL08X08.D	07/08/2025 12:23
Trip Blank 2	410-229895-13	CL08X09.D	07/08/2025 12:45
16C1	410-229895-1	CL08X14.D	07/08/2025 14:36
16MW8	410-229895-2	CL08X15.D	07/08/2025 14:59
16MW9	410-229895-3	CL08X16.D	07/08/2025 15:21
16WC1A	410-229895-4	CL08X17.D	07/08/2025 15:43
16WC1A MS	410-229895-4 MS	CL08X18.D	07/08/2025 16:05
16WC1A MSD	410-229895-4 MSD	CL08X19.D	07/08/2025 16:28
16WC1A MS	410-229895-4 MS	CL08X20.D	07/08/2025 16:50
16WC1A MSD	410-229895-4 MSD	CL08X21.D	07/08/2025 17:12
16WDUP	410-229895-5	CL08X22.D	07/08/2025 17:35
16WC1B	410-229895-6	CL08X23.D	07/08/2025 17:57
16-2	410-229895-7	CL08X24.D	07/08/2025 18:19
16-5	410-229895-9	CL08X26.D	07/08/2025 19:04
16WC2B	410-229895-10	CL08X27.D	07/08/2025 19:26
16SPRING	410-229895-11	CL08X28.D	07/08/2025 19:48

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: CL09X09.D Lab Sample ID: MB 410-668678/10

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: 10193 Date Analyzed: 07/09/2025 12:38

GC Column: R-624SilMS 30m ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-668678/5	CL09X04.D	07/09/2025 10:46
	LCSD 410-668678/6	CL09X05.D	07/09/2025 11:09
	LCS 410-668678/7	CL09X06.D	07/09/2025 11:31
	LCSD 410-668678/8	CL09X07.D	07/09/2025 11:53
16WC1B RA	410-229895-6 RA	CL09X16.D	07/09/2025 15:14
16-2 RA	410-229895-7 RA	CL09X17.D	07/09/2025 15:36
16-3	410-229895-8	CL09X18.D	07/09/2025 15:59
16C1 DL	410-229895-1 DL	CL09X19.D	07/09/2025 16:21
16MW9 DL	410-229895-3 DL	CL09X20.D	07/09/2025 16:43
	410-229825-B-1 MS	CL09X22.D	07/09/2025 17:28
	410-229825-A-1 MSD	CL09X23.D	07/09/2025 17:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: CM11T01.D BFB Injection Date: 03/11/2021

Instrument ID: 10193 BFB Injection Time: 15:00

Analysis Batch No.: 102081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	50.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.9	(1.1) 1
174	Greater than 50% of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	5.6	(7.1) 1
176	95.0 - 101.0 % of mass 174	77.3	(96.9) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-102081/12	CM11X12.D	03/11/2021	19:26
	ICIS 410-102081/13	CM11X13.D	03/11/2021	19:49
	IC 410-102081/14	CM11X14.D	03/11/2021	20:11
	IC 410-102081/15	CM11X15.D	03/11/2021	20:33
	IC 410-102081/16	CM11X16.D	03/11/2021	20:55
	IC 410-102081/17	CM11X17.D	03/11/2021	21:18
	IC 410-102081/18	CM11X18.D	03/11/2021	21:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: CU04T01.D BFB Injection Date: 06/04/2025

Instrument ID: 10193 BFB Injection Time: 16:26

Analysis Batch No.: 652703

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.1	
75	30.0 - 60.0 % of mass 95	48.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	Greater than 50% of mass 95	83.1	
175	5.0 - 9.0 % of mass 174	6.1	(7.3) 1
176	95.0 - 101.0 % of mass 174	80.3	(96.6) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 410-652703/3	CU04X02.D	06/04/2025	17:23
	IC 410-652703/4	CU04X03.D	06/04/2025	17:46
	IC 410-652703/5	CU04X04.D	06/04/2025	18:08
	IC 410-652703/6	CU04X05.D	06/04/2025	18:30
	IC 410-652703/7	CU04X06.D	06/04/2025	18:53
	IC 410-652703/8	CU04X07.D	06/04/2025	19:15
	IC 410-652703/9	CU04X08.D	06/04/2025	19:37
	ICV 410-652703/11	CU04X10.D	06/04/2025	20:22
	IC 410-652703/13	CU04X12.D	06/04/2025	21:06
	IC 410-652703/14	CU04X13.D	06/04/2025	21:28
	IC 410-652703/15	CU04X14.D	06/04/2025	21:51
	IC 410-652703/16	CU04X15.D	06/04/2025	22:13
	IC 410-652703/17	CU04X16.D	06/04/2025	22:35
	ICIS 410-652703/18	CU04X17.D	06/04/2025	22:57
	IC 410-652703/19	CU04X18.D	06/04/2025	23:20
	ICV 410-652703/21	CU04X20.D	06/05/2025	0:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: CL08T01.D BFB Injection Date: 07/08/2025

Instrument ID: 10193 BFB Injection Time: 09:31

Analysis Batch No.: 668089

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.9	(1.0) 1
174	Greater than 50% of mass 95	86.7	
175	5.0 - 9.0 % of mass 174	6.2	(7.2) 1
176	95.0 - 101.0 % of mass 174	83.3	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-668089/3	CL08X02.D	07/08/2025	10:09
	CCV 410-668089/4	CL08X03.D	07/08/2025	10:31
	LCS 410-668089/5	CL08X04.D	07/08/2025	10:53
	LCS 410-668089/6	CL08X05.D	07/08/2025	11:16
	MB 410-668089/8	CL08X07.D	07/08/2025	12:00
Trip Blank 1	410-229895-12	CL08X08.D	07/08/2025	12:23
Trip Blank 2	410-229895-13	CL08X09.D	07/08/2025	12:45
16C1	410-229895-1	CL08X14.D	07/08/2025	14:36
16MW8	410-229895-2	CL08X15.D	07/08/2025	14:59
16MW9	410-229895-3	CL08X16.D	07/08/2025	15:21
16WC1A	410-229895-4	CL08X17.D	07/08/2025	15:43
16WC1A MS	410-229895-4 MS	CL08X18.D	07/08/2025	16:05
16WC1A MSD	410-229895-4 MSD	CL08X19.D	07/08/2025	16:28
16WC1A MS	410-229895-4 MS	CL08X20.D	07/08/2025	16:50
16WC1A MSD	410-229895-4 MSD	CL08X21.D	07/08/2025	17:12
16WDUP	410-229895-5	CL08X22.D	07/08/2025	17:35
16WC1B	410-229895-6	CL08X23.D	07/08/2025	17:57
16-2	410-229895-7	CL08X24.D	07/08/2025	18:19
16-5	410-229895-9	CL08X26.D	07/08/2025	19:04
16WC2B	410-229895-10	CL08X27.D	07/08/2025	19:26
16SPRING	410-229895-11	CL08X28.D	07/08/2025	19:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: CL09T01.D BFB Injection Date: 07/09/2025

Instrument ID: 10193 BFB Injection Time: 09:23

Analysis Batch No.: 668678

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.9	(1.1) 1
174	Greater than 50% of mass 95	86.3	
175	5.0 - 9.0 % of mass 174	6.4	(7.4) 1
176	95.0 - 101.0 % of mass 174	83.2	(96.4) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-668678/3	CL09X02.D	07/09/2025	10:02
	CCV 410-668678/4	CL09X03.D	07/09/2025	10:24
	LCS 410-668678/5	CL09X04.D	07/09/2025	10:46
	LCSD 410-668678/6	CL09X05.D	07/09/2025	11:09
	LCS 410-668678/7	CL09X06.D	07/09/2025	11:31
	LCSD 410-668678/8	CL09X07.D	07/09/2025	11:53
	MB 410-668678/10	CL09X09.D	07/09/2025	12:38
16WC1B RA	410-229895-6 RA	CL09X16.D	07/09/2025	15:14
16-2 RA	410-229895-7 RA	CL09X17.D	07/09/2025	15:36
16-3	410-229895-8	CL09X18.D	07/09/2025	15:59
16C1 DL	410-229895-1 DL	CL09X19.D	07/09/2025	16:21
16MW9 DL	410-229895-3 DL	CL09X20.D	07/09/2025	16:43
	410-229825-B-1 MS	CL09X22.D	07/09/2025	17:28
	410-229825-A-1 MSD	CL09X23.D	07/09/2025	17:50

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: ICIS 410-652703/18 Date Analyzed: 06/04/2025 22:57

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CU04X17.D Heated Purge: (Y/N) N

Calibration ID: 73332

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		195687	3.67	2356745	7.15	1784969	10.82
UPPER LIMIT		391374	4.17	4713490	7.65	3569938	11.32
LOWER LIMIT		97844	3.17	1178373	6.65	892485	10.32
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-652703/11		182175	3.68	2276581	7.15	1732682	10.82
ICV 410-652703/21		193355	3.67	2350088	7.15	1777198	10.82
CCVIS 410-668089/3		154100	3.66	2077564	7.13	1586870	10.81
CCVIS 410-668678/3		158618	3.67	2127247	7.14	1620227	10.81

TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)
CBZd5 = Chlorobenzene-d5 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: ICIS 410-652703/18 Date Analyzed: 06/04/2025 22:57

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CU04X17.D Heated Purge: (Y/N) N

Calibration ID: 73332

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		997762	12.77				
UPPER LIMIT		1995524	13.27				
LOWER LIMIT		498881	12.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-652703/11		926446	12.77				
ICV 410-652703/21		975535	12.77				
CCVIS 410-668089/3		940787	12.77				
CCVIS 410-668678/3		965115	12.77				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668089/3 Date Analyzed: 07/08/2025 10:09

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CL08X02.D Heated Purge: (Y/N) N

Calibration ID: 73332

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		154100	3.66	2077564	7.13	1586870	10.81
UPPER LIMIT		308200	4.16	4155128	7.63	3173740	11.31
LOWER LIMIT		77050	3.16	1038782	6.63	793435	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-668089/5		149552	3.66	2088770	7.13	1602020	10.81
MB 410-668089/8		155251	3.67	1923250	7.14	1502260	10.81
410-229895-12	Trip Blank 1	156772	3.68	1978703	7.13	1542904	10.81
410-229895-13	Trip Blank 2	143403	3.66	1962397	7.13	1526627	10.81
410-229895-1	16C1	133256	3.67	1961535	7.14	1521420	10.81
410-229895-2	16MW8	127505	3.68	1862233	7.14	1460472	10.81
410-229895-3	16MW9	138662	3.67	1937157	7.14	1500606	10.81
410-229895-4	16WC1A	134217	3.67	1840684	7.13	1426769	10.81
410-229895-4 MS	16WC1A MS	141325	3.66	2033957	7.13	1557121	10.81
410-229895-4 MSD	16WC1A MSD	146976	3.66	2046323	7.13	1569140	10.81
410-229895-4 MS	16WC1A MS	151170	3.68	1977574	7.14	1530080	10.81
410-229895-4 MSD	16WC1A MSD	139037	3.67	1838668	7.13	1425121	10.81
410-229895-5	16WDUP	147721	3.68	1941889	7.13	1504821	10.81
410-229895-6	16WC1B	76274*3	3.93	1916511	7.13	1474703	10.81
410-229895-7	16-2	73498*3	3.72	1903783	7.13	1486227	10.81
410-229895-9	16-5	109424	3.70	1813969	7.13	1418593	10.81
410-229895-10	16WC2B	117903	3.66	1786638	7.13	1390409	10.81
410-229895-11	16SPRING	109770	3.67	1807763	7.13	1409361	10.81

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits
*3=ISTD response or retention time outside acceptable limits.

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668089/3 Date Analyzed: 07/08/2025 10:09

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CL08X02.D Heated Purge: (Y/N) N

Calibration ID: 73332

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		940787	12.77				
UPPER LIMIT		1881574	13.27				
LOWER LIMIT		470394	12.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-668089/5		916163	12.77				
MB 410-668089/8		824157	12.77				
410-229895-12	Trip Blank 1	844599	12.77				
410-229895-13	Trip Blank 2	836103	12.77				
410-229895-1	16C1	824591	12.77				
410-229895-2	16MW8	795466	12.77				
410-229895-3	16MW9	817592	12.77				
410-229895-4	16WC1A	773838	12.77				
410-229895-4 MS	16WC1A MS	895276	12.77				
410-229895-4 MSD	16WC1A MSD	901641	12.77				
410-229895-4 MS	16WC1A MS	821650	12.77				
410-229895-4 MSD	16WC1A MSD	770316	12.77				
410-229895-5	16WDUP	819163	12.77				
410-229895-6	16WC1B	812875	12.77				
410-229895-7	16-2	811533	12.77				
410-229895-9	16-5	772461	12.77				
410-229895-10	16WC2B	751001	12.77				
410-229895-11	16SPRING	771091	12.77				

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668678/3 Date Analyzed: 07/09/2025 10:02

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CL09X02.D Heated Purge: (Y/N) N

Calibration ID: 73332

		TBAd10		FB		CBZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		158618	3.67	2127247	7.14	1620227	10.81
UPPER LIMIT		317236	4.17	4254494	7.64	3240454	11.31
LOWER LIMIT		79309	3.17	1063624	6.64	810114	10.31
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-668678/5		143504	3.66	2095297	7.13	1586222	10.81
LCSD 410-668678/6		145437	3.67	2036030	7.14	1557617	10.81
MB 410-668678/10		136877	3.66	1912119	7.13	1482262	10.81
410-229895-6 RA	16WC1B RA	67247*3	3.73	1777004	7.14	1361480	10.81
410-229895-7 RA	16-2 RA	76340*3	3.73	1858997	7.14	1428535	10.81
410-229895-8	16-3	89782	3.76	1746259	7.14	1348079	10.81
410-229895-1 DL	16C1 DL	101414	3.70	1880907	7.13	1466350	10.81
410-229895-3 DL	16MW9 DL	107800	3.68	1856730	7.13	1460224	10.81
410-229825-B-1 MS		120396	3.67	1864455	7.14	1421952	10.81
410-229825-A-1 MSD		141223	3.68	1992447	7.14	1521598	10.81

TBAd10 = t-Butyl alcohol-d10 (IS)
TBAd10 = t-Butyl alcohol-d10 (IS)
FB = Fluorobenzene (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits
*3=ISTD response or retention time outside acceptable limits.

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668678/3 Date Analyzed: 07/09/2025 10:02

Instrument ID: 10193 GC Column: R-624SilMS 30m ID: 0.25(mm)

Lab File ID (Standard): CL09X02.D Heated Purge: (Y/N) N

Calibration ID: 73332

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		965115	12.77				
UPPER LIMIT		1930230	13.27				
LOWER LIMIT		482558	12.27				
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 410-668678/5		917706	12.77				
LCSD 410-668678/6		885897	12.77				
MB 410-668678/10		805474	12.77				
410-229895-6 RA	16WC1B RA	731044	12.77				
410-229895-7 RA	16-2 RA	783780	12.77				
410-229895-8	16-3	724422	12.77				
410-229895-1 DL	16C1 DL	796426	12.77				
410-229895-3 DL	16MW9 DL	796771	12.77				
410-229825-B-1 MS		814323	12.77				
410-229825-A-1 MSD		871346	12.77				

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16C1
Lab Sample ID: 410-229895-1

Matrix: Water
Lab File ID: CL08X14.D

Analysis Method: 8260D
Date Collected: 06/26/2025 12:15

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 14:36

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	2.5		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	5.0		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	26		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D
Lims ID: 410-229895-A-1
Client ID: 16C1
Sample Type: Client
Inject. Date: 08-Jul-2025 14:36:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-015
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:01:06 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:01:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	U
4 Dimethyl ether	45	1.805	1.805	0.000	96	560835	6.35	
5 Chloromethane	50		1.933				ND	7
6 Vinyl chloride	62	2.049	2.031	0.018	42	4818	0.0720	
10 Chloroethane	64	2.372	2.360	0.012	98	95481	2.52	
12 Trichlorofluoromethane	101		2.658				ND	7
14 Ethyl ether	59	2.823	2.817	0.006	93	1274146	31.6	E
18 1,1-Dichloroethene	96	3.085	3.079	0.006	97	6336	0.1518	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84	3.652	3.646	0.006	94	18035	0.3579	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.664	0.007	95	133256	50.0	
37 1,1-Dichloroethane	63	4.646	4.646	0.000	96	472924	5.04	
42 2-Butanone (MEK)	43		5.475				ND	U
49 Tetrahydrofuran	71	5.853	5.841	0.012	88	88889	25.8	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	94	492059	10.6	
53 1,1,1-Trichloroethane	97	6.225	6.225	0.000	36	12667	0.1519	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.682	0.012	99	100869	10.6	
60 Benzene	78	6.713	6.713	0.000	65	69632	0.3121	
* 65 Fluorobenzene (IS)	96	7.139	7.133	0.006	99	1961535	10.0	
68 Trichloroethene	95	7.627	7.627	0.000	97	7120	0.1206	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1924912	9.63	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166	9.932	9.919	0.013	96	8892	0.1297	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1521420	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	695265	9.21	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	824591	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

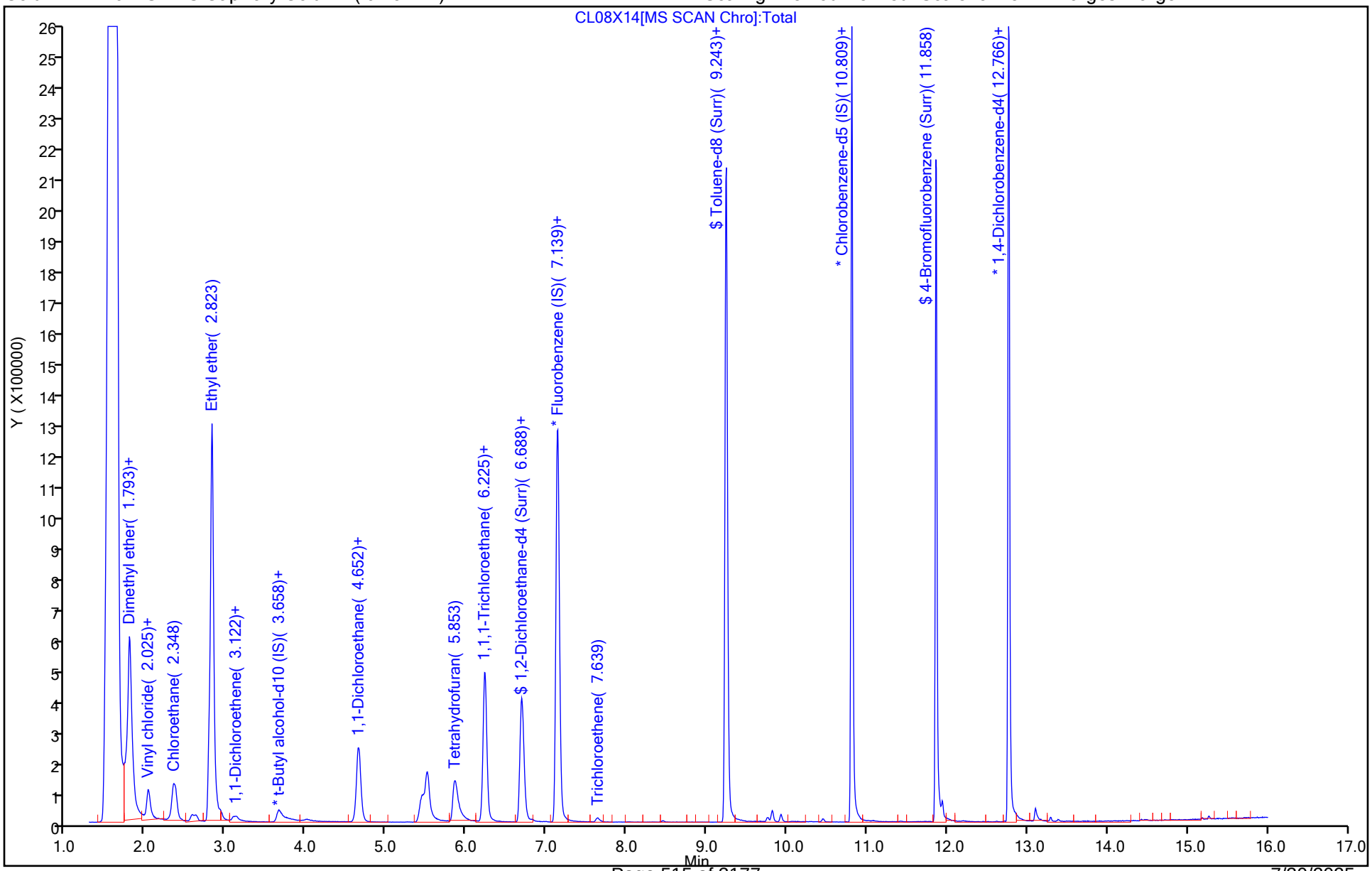
MSV_HP25_ISSS_00114 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 09-Jul-2025 09:01:06 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Injection Date:	08-Jul-2025 14:36:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-1	Lab Sample ID:	410-229895-1	Worklist Smp#:	15
Client ID:	16C1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Lims ID:	410-229895-A-1				
Client ID:	16C1				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 14:36:30	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-015				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:01:06	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

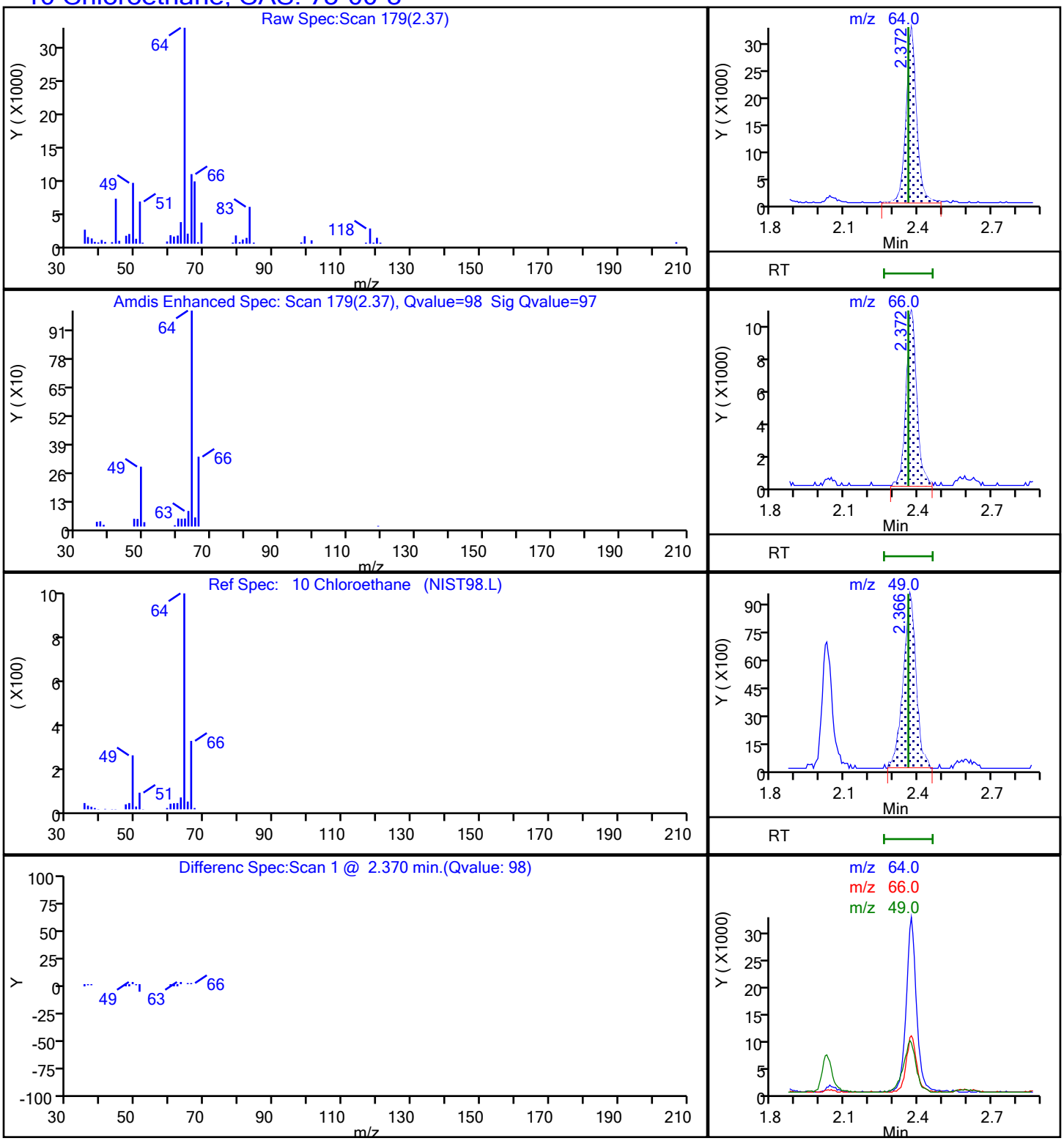
First Level Reviewer: N9NA Date: 09-Jul-2025 09:01:06

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	106.30
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.60
$ 83 Toluene-d8 (Surr)	10.0	9.63	96.33
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.21	92.14

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Injection Date:	08-Jul-2025 14:36:30	Instrument ID:	10193		
Lims ID:	410-229895-A-1	Lab Sample ID:	410-229895-1		
Client ID:	16C1				
Operator ID:	ecr105096	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

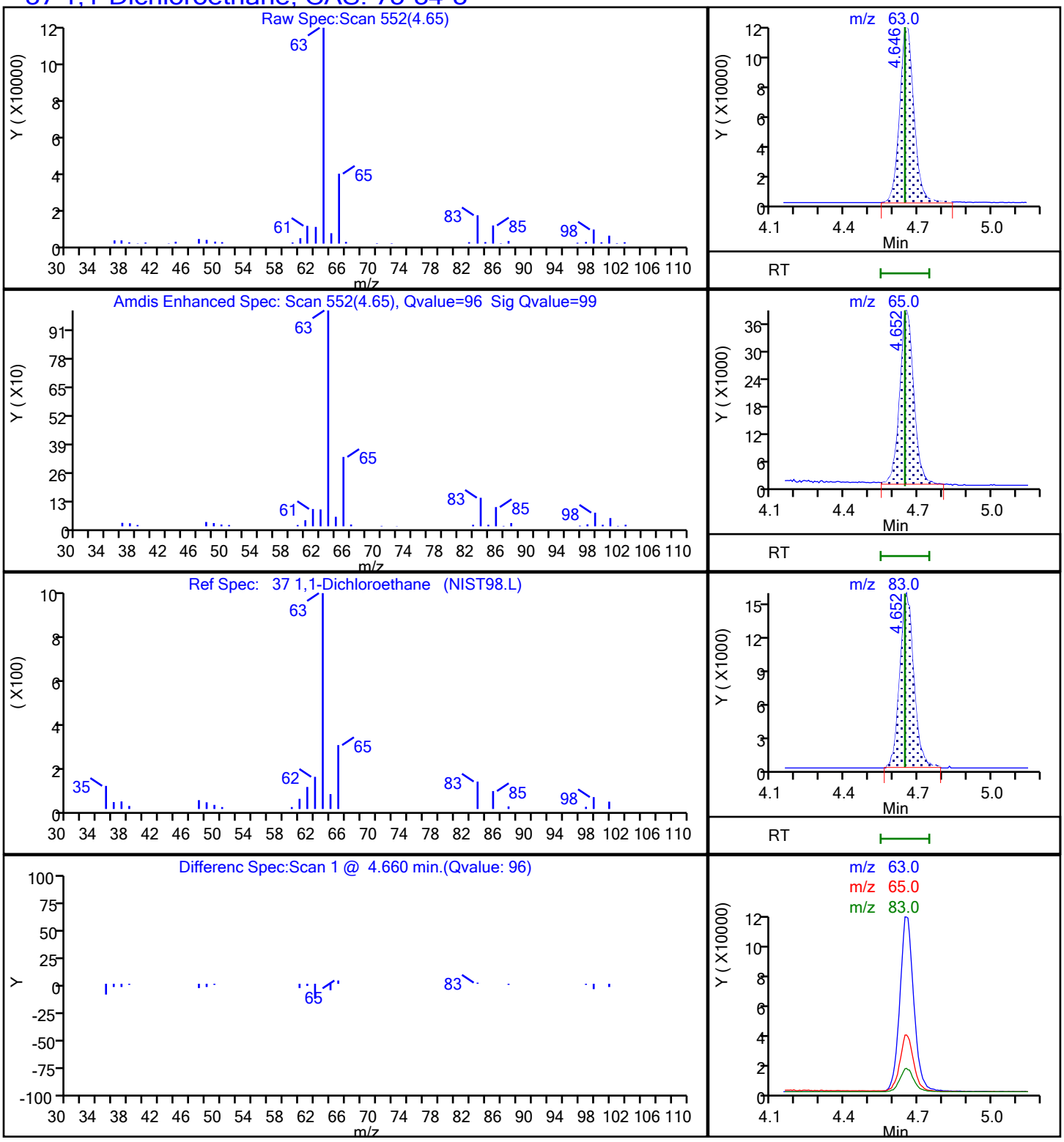
10 Chloroethane, CAS: 75-00-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Injection Date:	08-Jul-2025 14:36:30	Instrument ID:	10193		
Lims ID:	410-229895-A-1	Lab Sample ID:	410-229895-1		
Client ID:	16C1				
Operator ID:	ecr105096	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

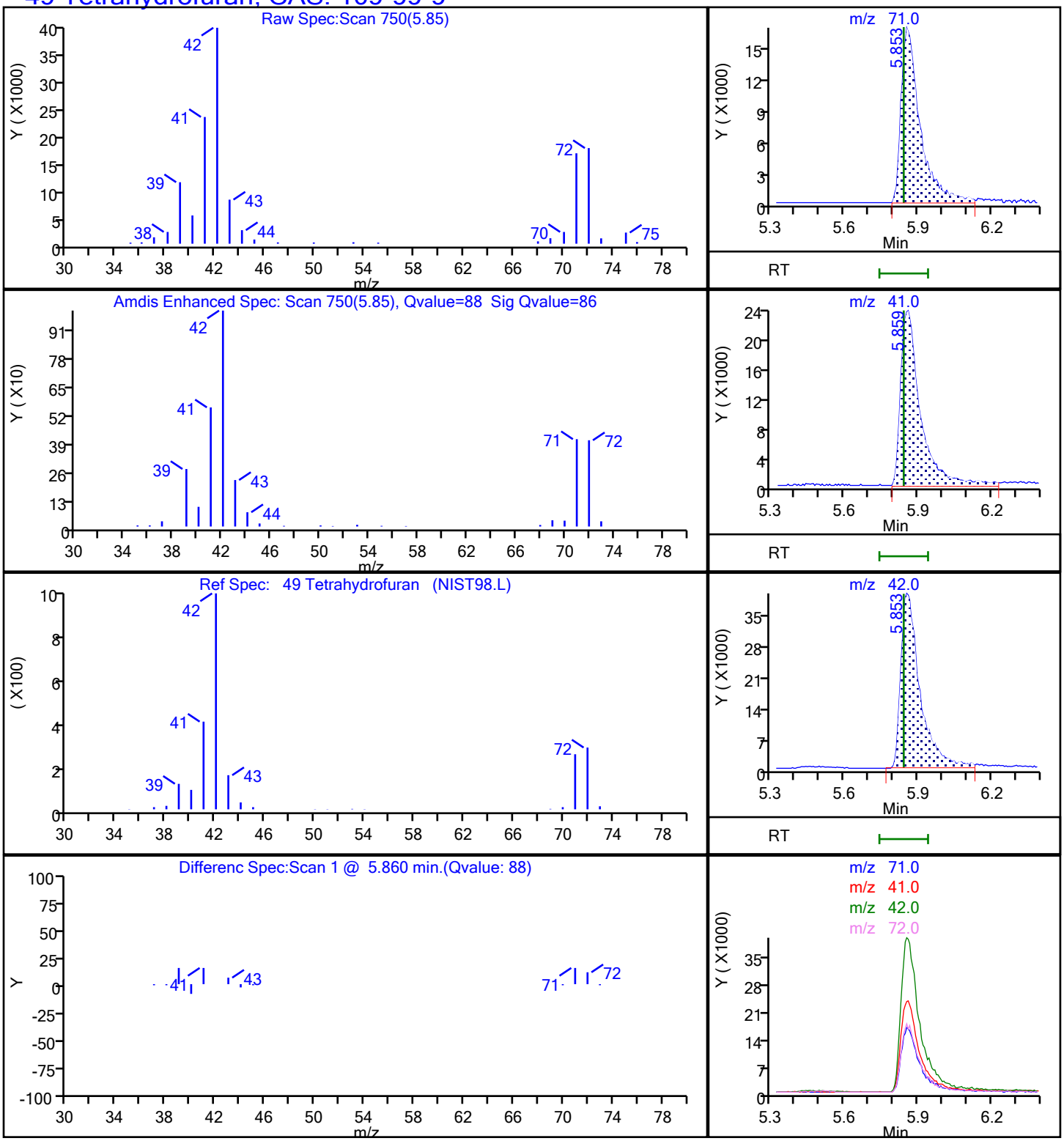
37 1,1-Dichloroethane, CAS: 75-34-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Injection Date:	08-Jul-2025 14:36:30	Instrument ID:	10193		
Lims ID:	410-229895-A-1	Lab Sample ID:	410-229895-1		
Client ID:	16C1				
Operator ID:	ecr105096	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

49 Tetrahydrofuran, CAS: 109-99-9



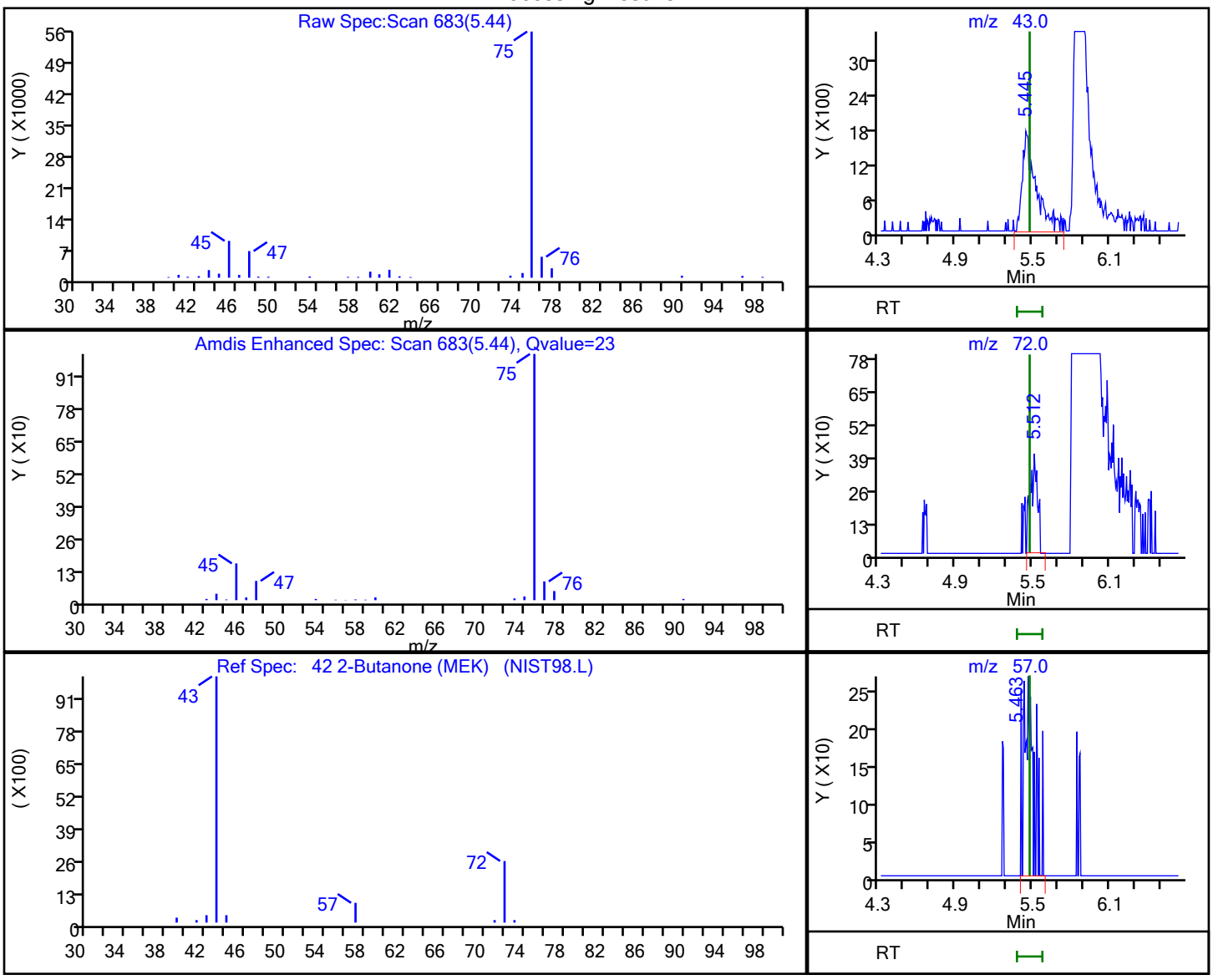
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Injection Date:	08-Jul-2025 14:36:30	Instrument ID:	10193		
Lims ID:	410-229895-A-1	Lab Sample ID:	410-229895-1		
Client ID:	16C1				
Operator ID:	ecr105096	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

42 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.44	43.00	12956	1.070781
5.51	72.00	1545	
5.46	57.00	1359	

Reviewer: N9NA, 09-Jul-2025 09:00:49 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

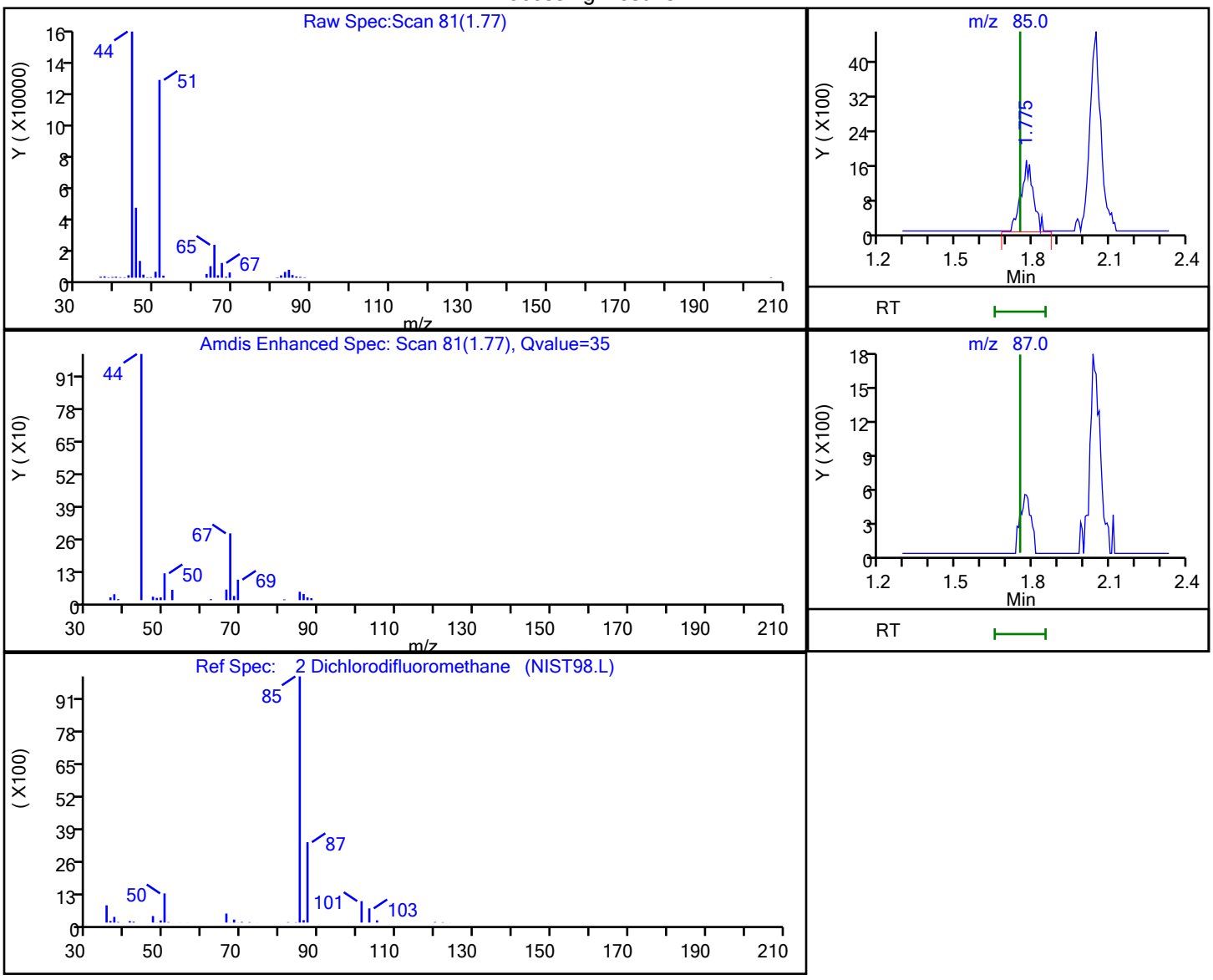
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X14.D				
Injection Date:	08-Jul-2025 14:36:30	Instrument ID:	10193		
Lims ID:	410-229895-A-1	Lab Sample ID:	410-229895-1		
Client ID:	16C1				
Operator ID:	ecr105096	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.77	85.00	5427	0.084979
1.75	87.00	0	

Reviewer: N9NA, 09-Jul-2025 08:59:33 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16C1 DL
Lab Sample ID: 410-229895-1 DL

Matrix: Water
Lab File ID: CL09X19.D

Analysis Method: 8260D
Date Collected: 06/26/2025 12:15

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 16:21

Soil Aliquot Vol:
Dilution Factor: 10

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
60-29-7	Ethyl ether	ND		100	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X19.D
Lims ID: 410-229895-B-1 DL
Client ID: 16C1
Sample Type: Client
Inject. Date: 09-Jul-2025 16:21:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0152846-020
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jul-2025 10:00:39 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1625

First Level Reviewer: QD9U Date: 11-Jul-2025 10:00:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.762				ND	
4 Dimethyl ether	45	1.799	1.805	-0.006	61	54697	0.6462	
5 Chloromethane	50		1.945				ND	
6 Vinyl chloride	62		2.043				ND	
10 Chloroethane	64	2.366	2.372	-0.006	99	8328	0.2288	
12 Trichlorofluoromethane	101		2.671				ND	
14 Ethyl ether	59	2.829	2.823	0.006	93	115588	2.99	
18 1,1-Dichloroethene	96		3.091				ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.140				ND	
30 Methylene Chloride	84		3.658				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.695	3.671	0.024	93	101414	50.0	
37 1,1-Dichloroethane	63	4.652	4.652	0.000	97	40980	0.4558	
42 2-Butanone (MEK)	43		5.481				ND	7
49 Tetrahydrofuran	71	5.871	5.853	0.018	80	5902	2.25	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	474920	10.7	
53 1,1,1-Trichloroethane	97		6.231				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	99	95607	10.4	
60 Benzene	78	6.713	6.719	-0.006	74	6619	0.0309	
* 65 Fluorobenzene (IS)	96	7.133	7.139	-0.006	99	1880907	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	-0.001	94	1855863	9.64	
84 Toluene	92		9.328				ND	7
88 Tetrachloroethene	166		9.919				ND	7
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1466350	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.059				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	666646	9.17	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	796426	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

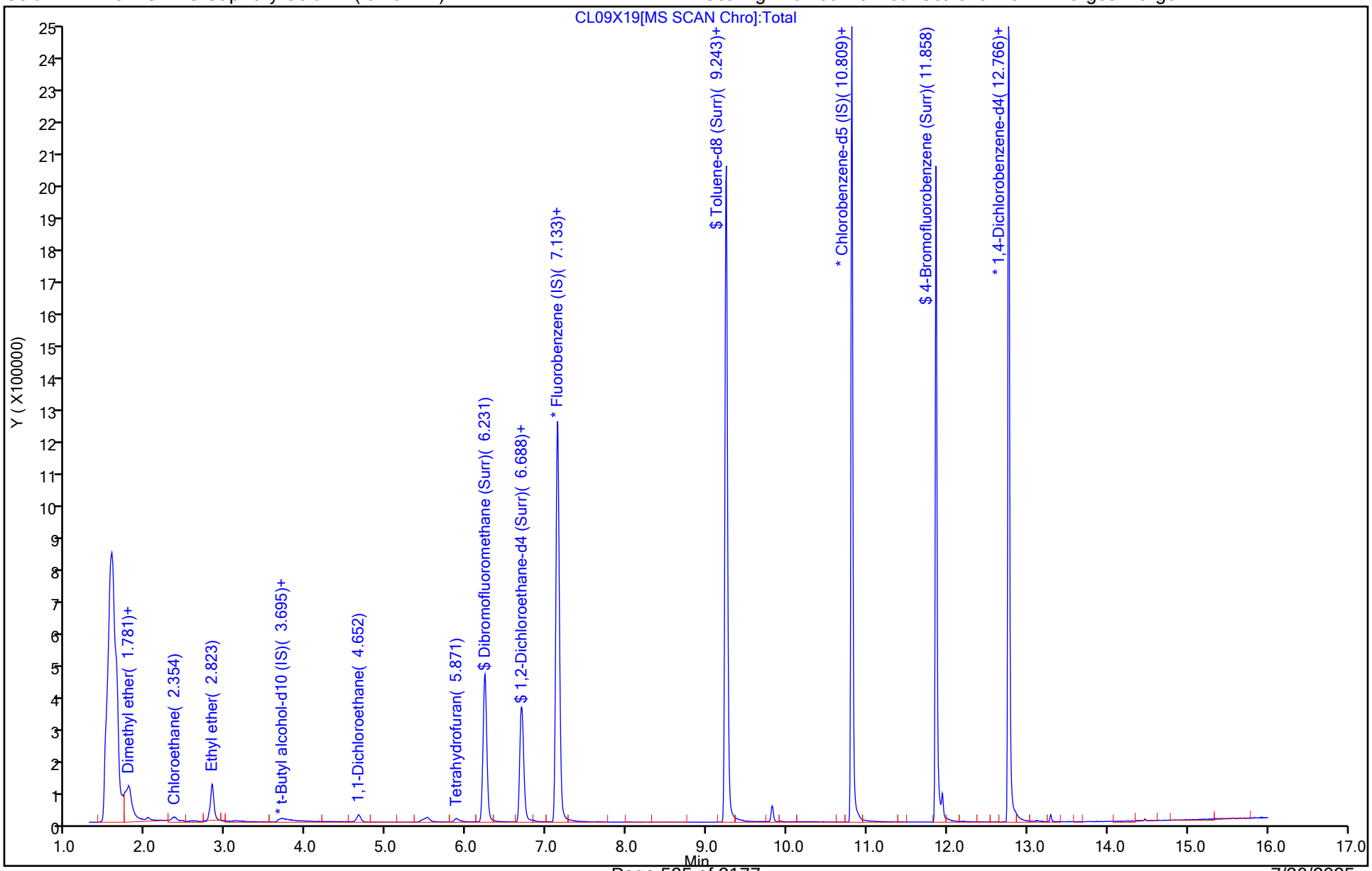
Report Date: 11-Jul-2025 10:00:40 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X19.D

Injection Date:	09-Jul-2025 16:21:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-B-1 DL	Lab Sample ID:	410-229895-1	Worklist Smp#:	20
Client ID:	16C1				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	19
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X19.D
Lims ID: 410-229895-B-1 DL
Client ID: 16C1
Sample Type: Client
Inject. Date: 09-Jul-2025 16:21:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0152846-020
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 11-Jul-2025 10:00:39 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1625

First Level Reviewer: QD9U Date: 11-Jul-2025 10:00:39

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.7	107.00
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.38
$ 83 Toluene-d8 (Surr)	10.0	9.64	96.36
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.17	91.67

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW8
Lab Sample ID: 410-229895-2

Matrix: Water
Lab File ID: CL08X15.D

Analysis Method: 8260D
Date Collected: 06/25/2025 12:05

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 14:59

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	ND		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X15.D
Lims ID: 410-229895-A-2
Client ID: 16MW8
Sample Type: Client
Inject. Date: 08-Jul-2025 14:59:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-016
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:04:40 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:04:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.933				ND	7
6 Vinyl chloride	62		2.031				ND	
10 Chloroethane	64	2.366	2.360	0.006	80	2568	0.0713	
12 Trichlorofluoromethane	101		2.658				ND	
14 Ethyl ether	59	2.829	2.817	0.012	94	306791	8.01	
18 1,1-Dichloroethene	96		3.079				ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84		3.646				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.677	3.664	0.013	95	127505	50.0	
37 1,1-Dichloroethane	63	4.658	4.646	0.012	96	15404	0.1730	
42 2-Butanone (MEK)	43		5.475				ND	7
49 Tetrahydrofuran	71	5.865	5.841	0.024	82	7879	2.39	a
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	94	466985	10.6	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	94684	10.4	
60 Benzene	78	6.713	6.713	0.000	42	9699	0.0458	
* 65 Fluorobenzene (IS)	96	7.139	7.133	0.006	99	1862233	10.0	
68 Trichloroethene	95		7.627				ND	7
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	93	1822134	9.50	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166	9.932	9.919	0.013	94	2877	0.0437	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1460472	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	665222	9.18	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	795466	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

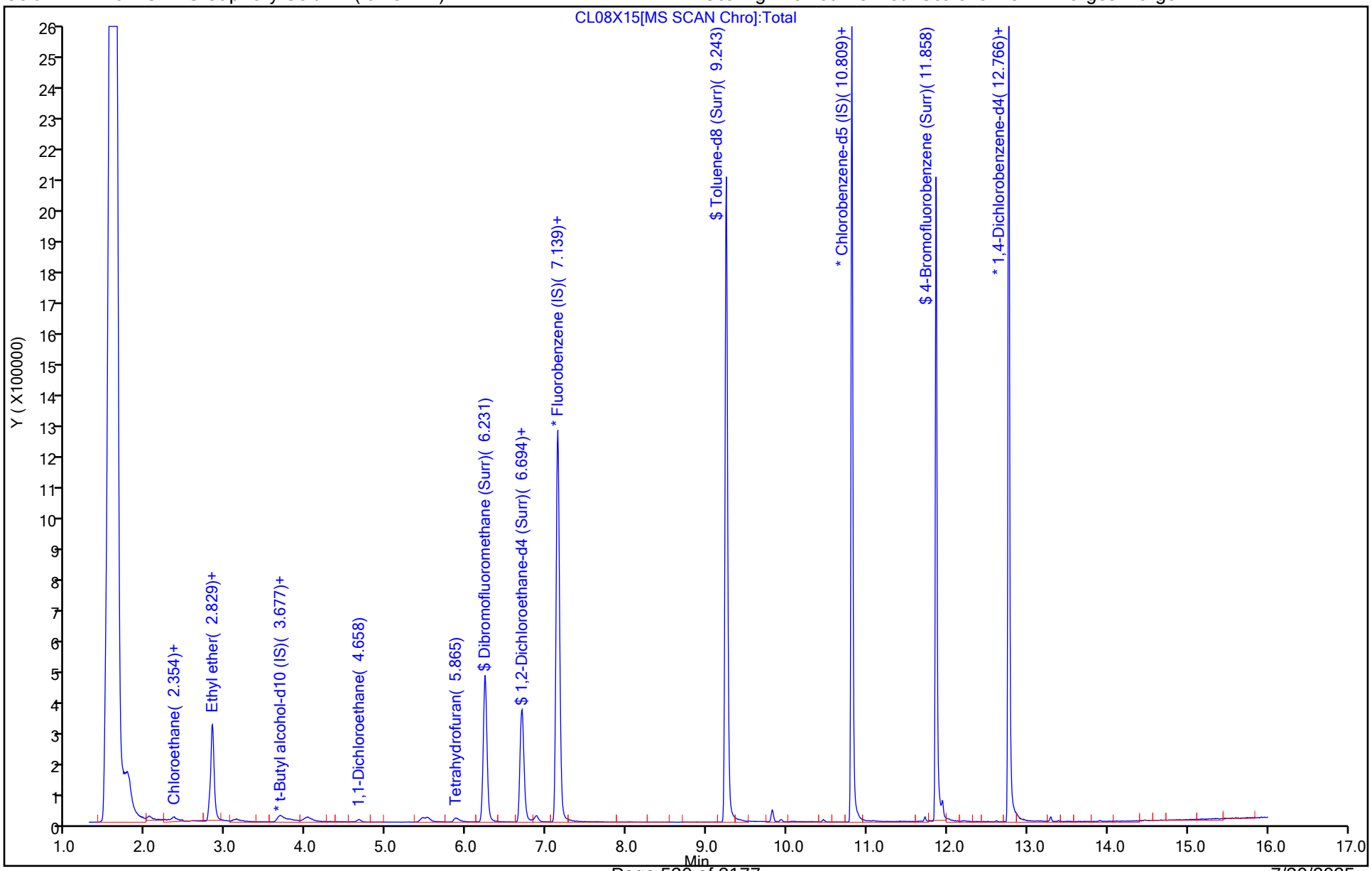
Report Date: 09-Jul-2025 09:04:40 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X15.D

Injection Date:	08-Jul-2025 14:59:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-2	Lab Sample ID:	410-229895-2	Worklist Smp#:	16
Client ID:	16MW8				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X15.D				
Lims ID:	410-229895-A-2				
Client ID:	16MW8				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 14:59:30	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-016				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:04:40	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:04:40

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	106.27
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.41
$ 83 Toluene-d8 (Surr)	10.0	9.50	94.99
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.18	91.84

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

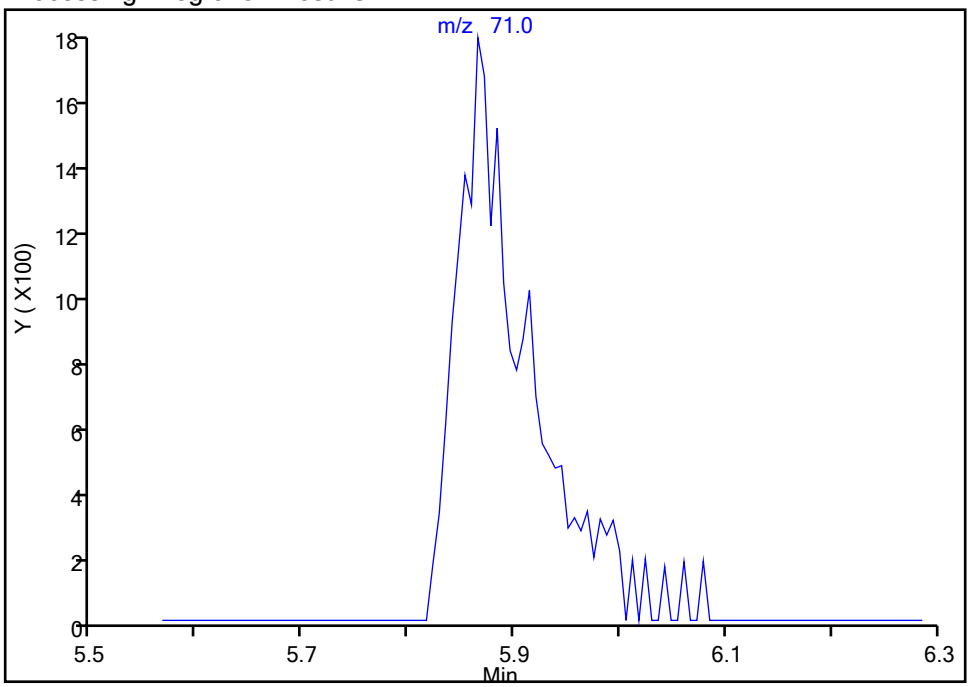
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X15.D				
Injection Date:	08-Jul-2025 14:59:30	Instrument ID:	10193		
Lims ID:	410-229895-A-2	Lab Sample ID:	410-229895-2		
Client ID:	16MW8				
Operator ID:	ecr105096	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

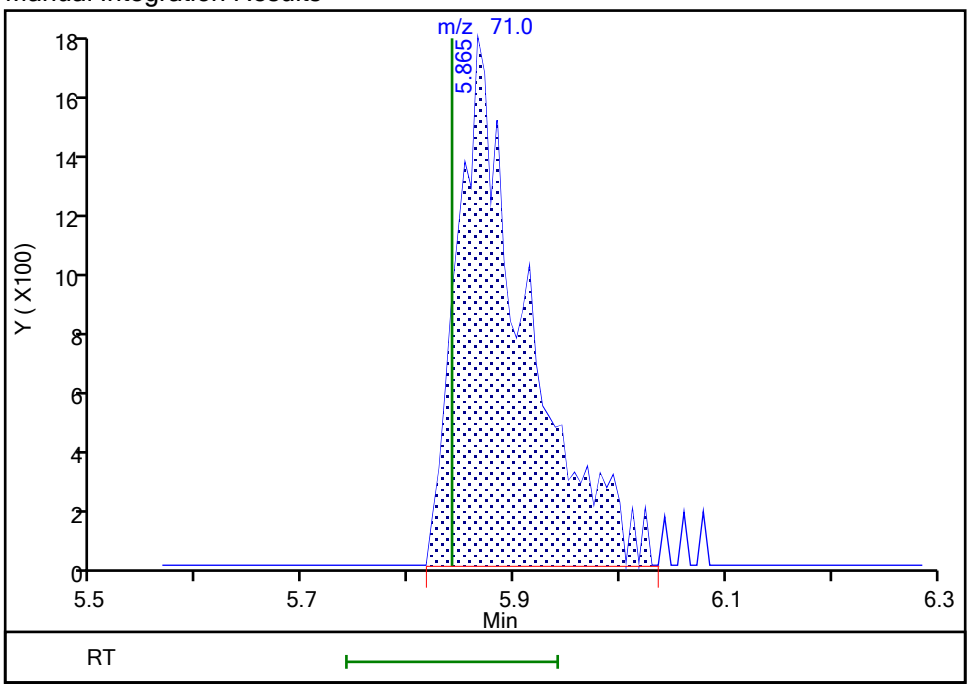
Not Detected
Expected RT: 5.84

Processing Integration Results



Manual Integration Results

RT: 5.87
Area: 7879
Amount: 2.393184
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:04:27 07:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW9
Lab Sample ID: 410-229895-3

Matrix: Water
Lab File ID: CL08X16.D

Analysis Method: 8260D
Date Collected: 06/26/2025 11:00

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 15:21

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	1.7		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	4.7		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D
Lims ID: 410-229895-A-3
Client ID: 16MW9
Sample Type: Client
Inject. Date: 08-Jul-2025 15:21:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-017
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:06:55 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:06:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	U
4 Dimethyl ether	45		1.805				ND	U
5 Chloromethane	50		1.933				ND	7
6 Vinyl chloride	62	2.043	2.031	0.012	48	5069	0.0767	
10 Chloroethane	64	2.378	2.360	0.018	93	64525	1.72	
12 Trichlorofluoromethane	101		2.658				ND	
14 Ethyl ether	59	2.823	2.817	0.006	93	2579551	64.7	E
18 1,1-Dichloroethene	96	3.098	3.079	0.019	73	6270	0.1521	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84	3.665	3.646	0.018	38	3268	0.0657	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.665	3.664	0.000	95	138662	50.0	
37 1,1-Dichloroethane	63	4.652	4.646	0.006	97	436576	4.71	
42 2-Butanone (MEK)	43		5.475				ND	U
49 Tetrahydrofuran	71		5.841				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	93	484490	10.6	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	100045	10.6	
60 Benzene	78	6.713	6.713	0.000	95	72517	0.3292	
* 65 Fluorobenzene (IS)	96	7.139	7.133	0.006	99	1937157	10.0	
68 Trichloroethene	95	7.627	7.627	0.000	93	2023	0.0347	Ma
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1912056	9.70	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166	9.919	9.919	0.000	94	3819	0.0565	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1500606	10.0	
115 Ethylbenzene	91		10.931				ND	7
116 m-Xylene & p-Xylene	106		11.053				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	690499	9.28	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	817592	10.0	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

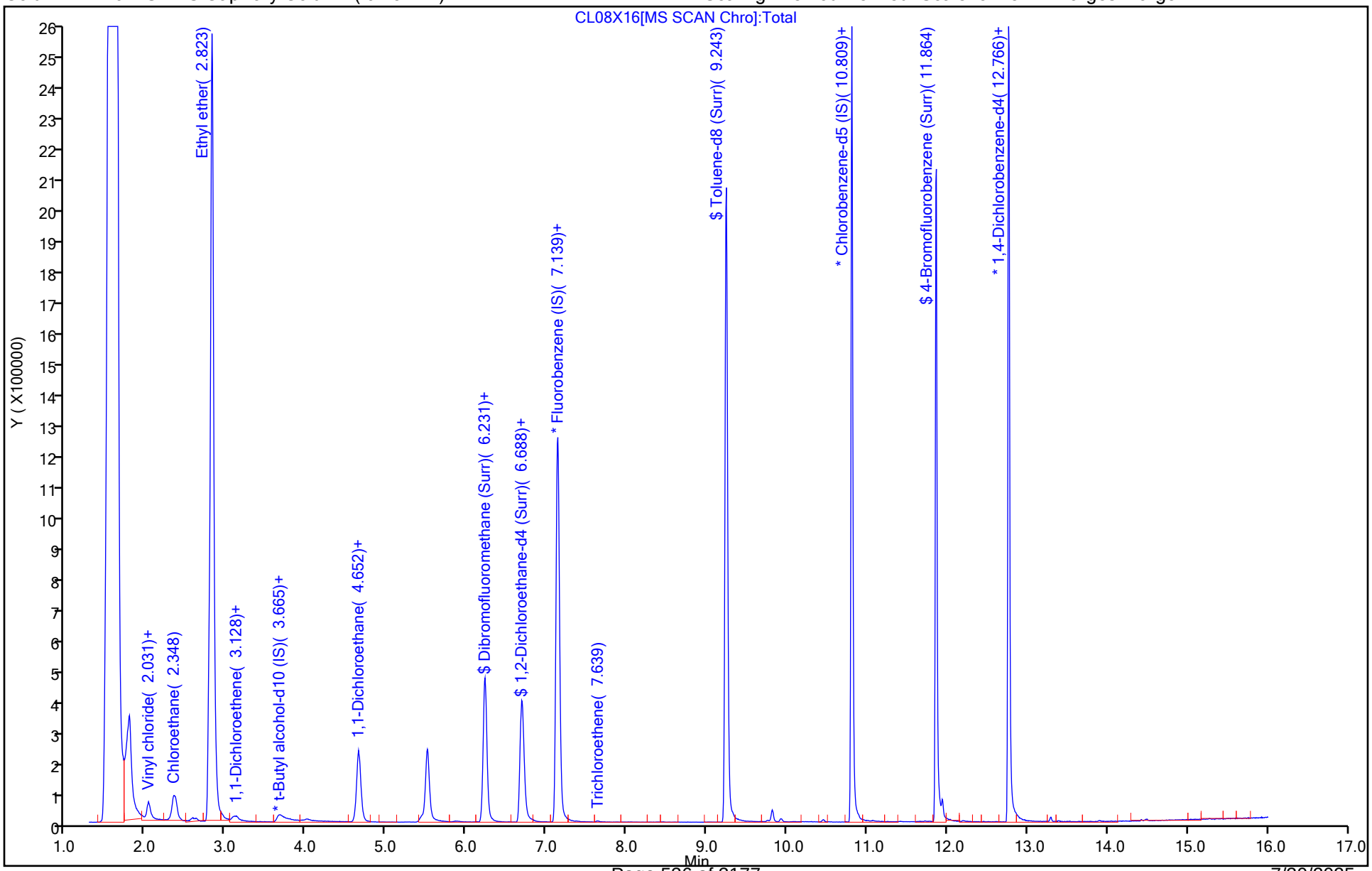
Report Date: 09-Jul-2025 09:06:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D

Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3	Worklist Smp#:	17
Client ID:	16MW9				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Lims ID:	410-229895-A-3				
Client ID:	16MW9				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 15:21:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-017				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:06:55	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:06:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.99
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.05
$ 83 Toluene-d8 (Surr)	10.0	9.70	97.01
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.28	92.78

Report Date: 09-Jul-2025 09:06:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D

Injection Date: 08-Jul-2025 15:21:30 Instrument ID: 10193

Lims ID: 410-229895-A-3 Lab Sample ID: 410-229895-3

Client ID: 16MW9

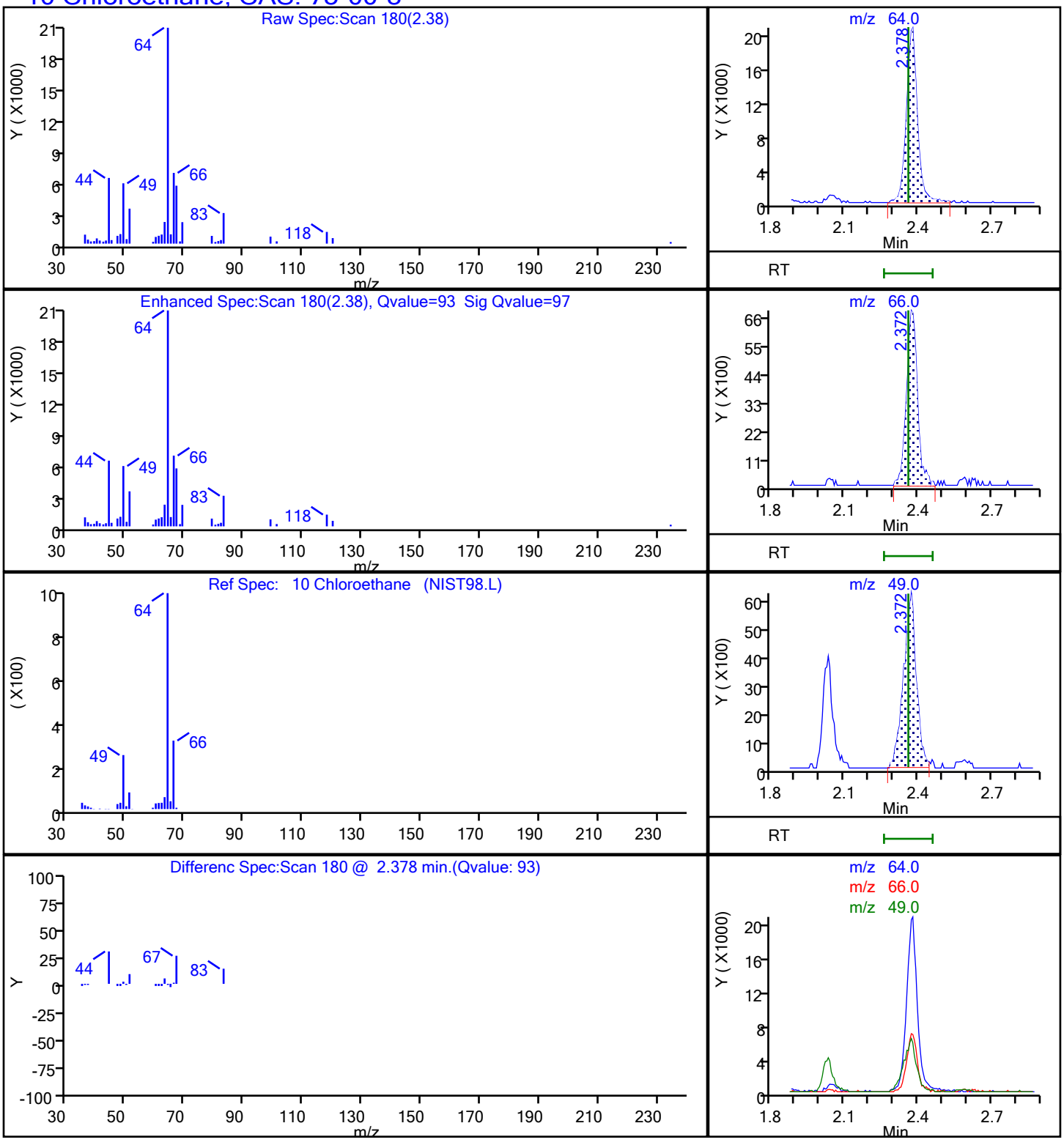
Operator ID: ecr105096 ALS Bottle#: 16 Worklist Smp#: 17

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

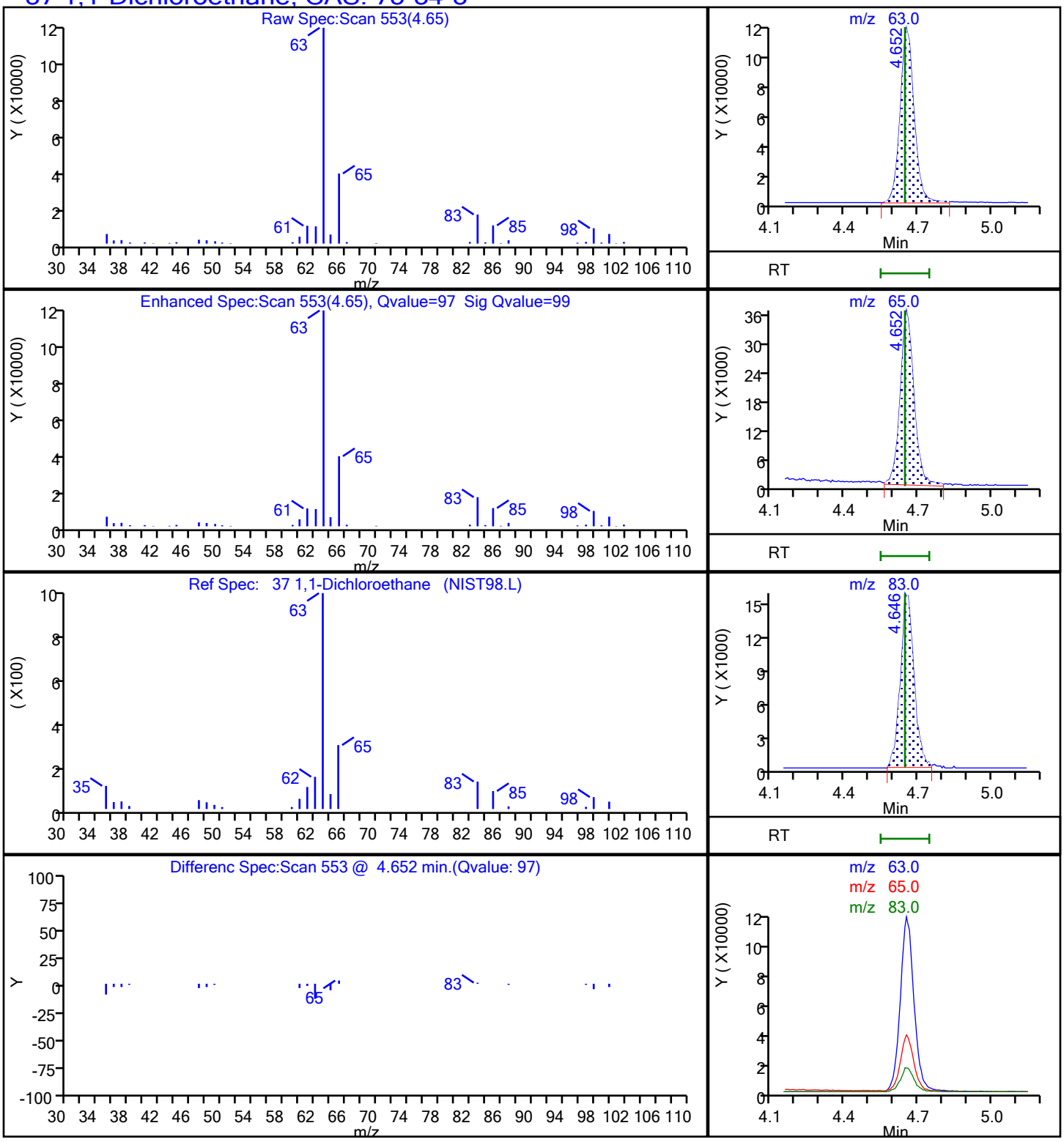
10 Chloroethane, CAS: 75-00-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193		
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3



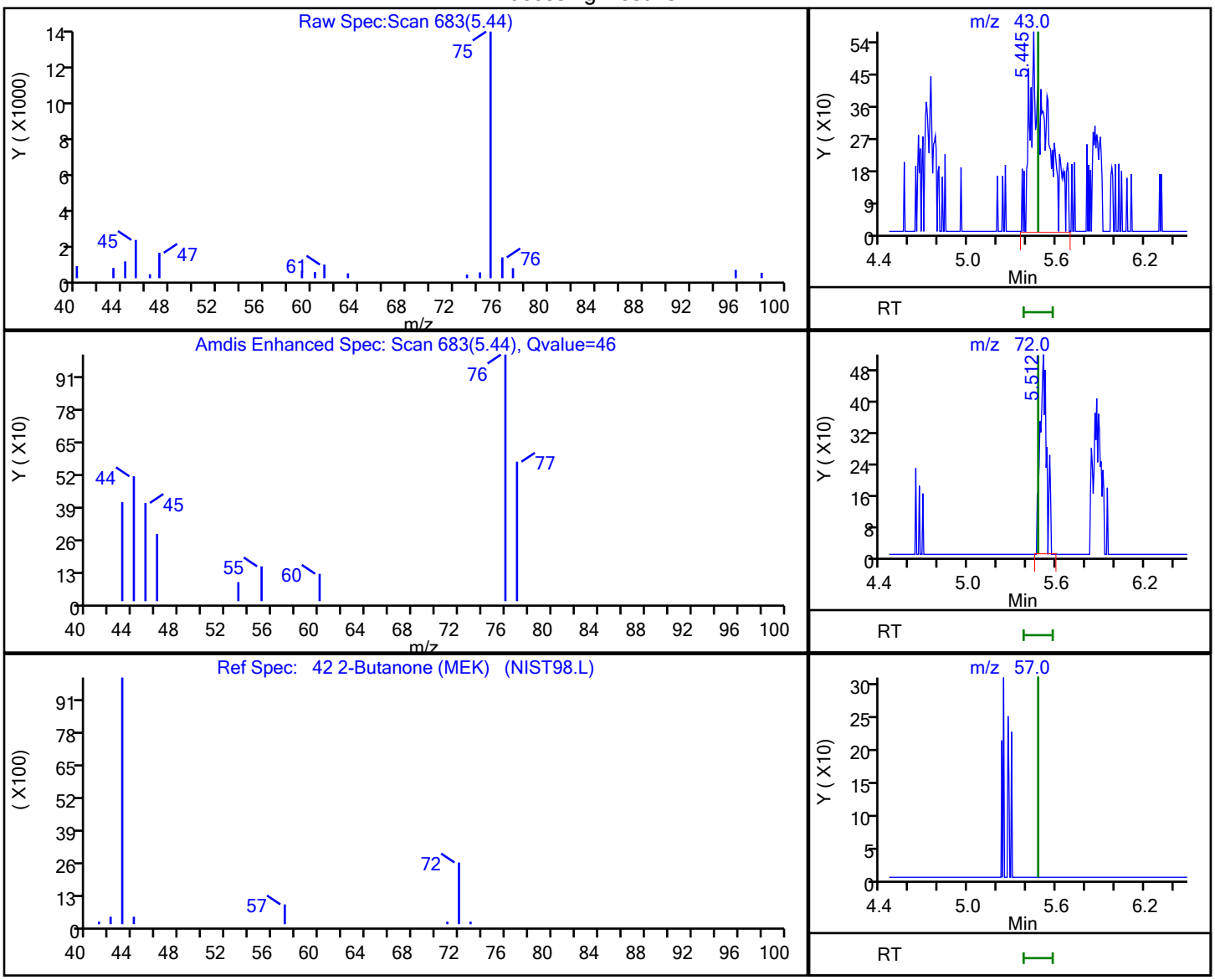
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193		
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

42 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
5.44	43.00	4651	0.369407
5.51	72.00	1639	
5.47	57.00	0	

Reviewer: N9NA, 09-Jul-2025 09:06:30 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

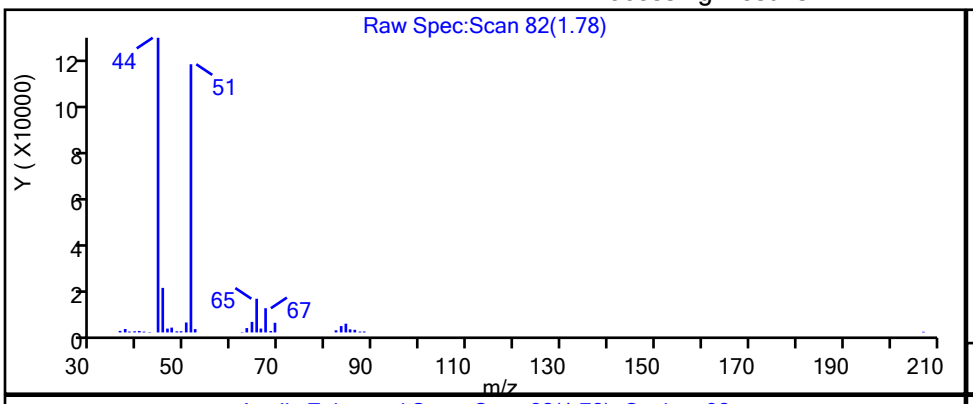
User Disabled Compound Report

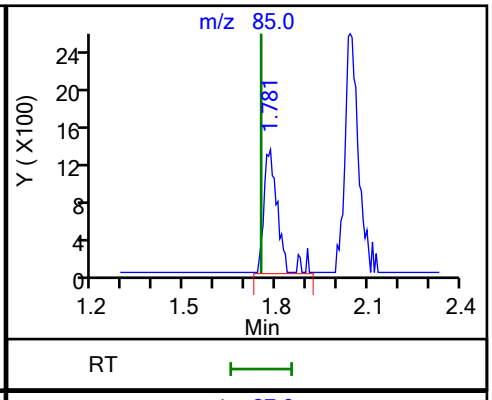
Eurofins Lancaster Laboratories Environment Testing, LLC

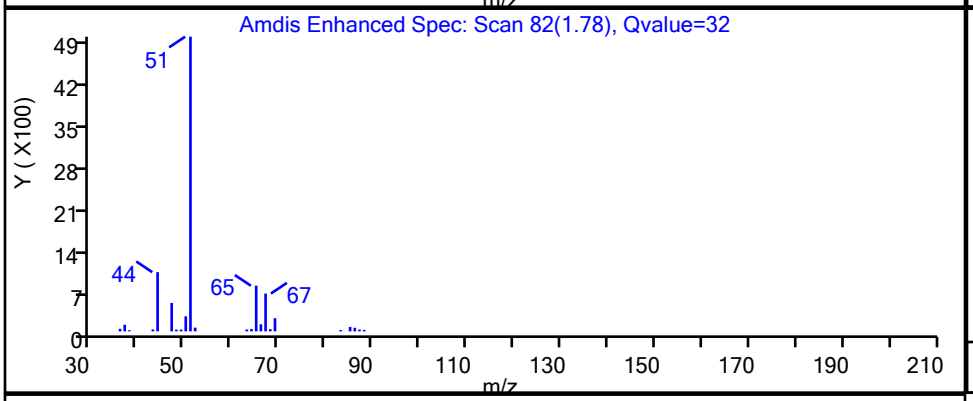
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193		
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

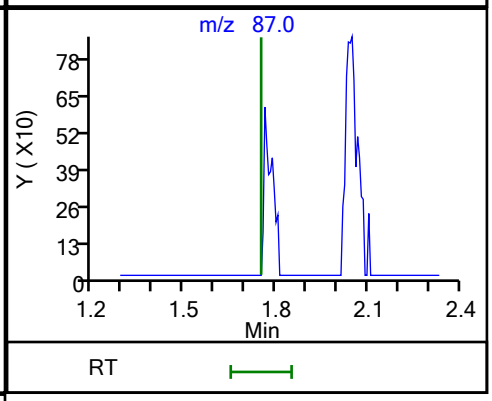
2 Dichlorodifluoromethane, CAS: 75-71-8

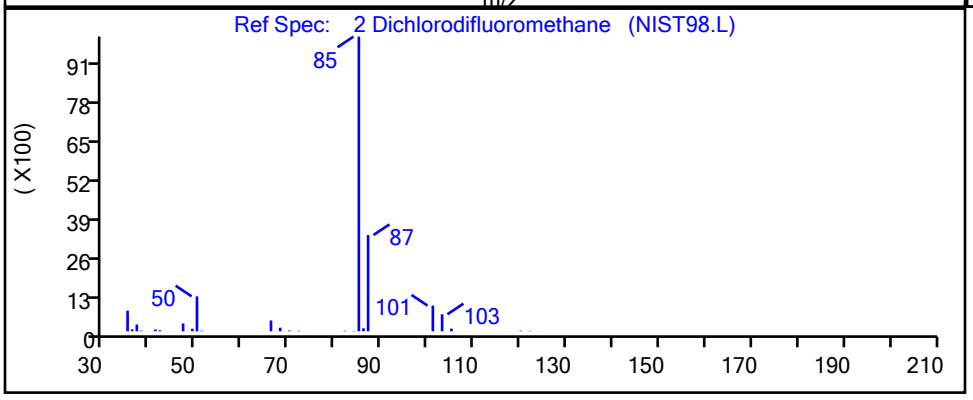
Processing Results











RT	Mass	Response	Amount
1.78	85.00	4073	0.064580
1.75	87.00	0	

Reviewer: N9NA, 09-Jul-2025 09:05:30 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

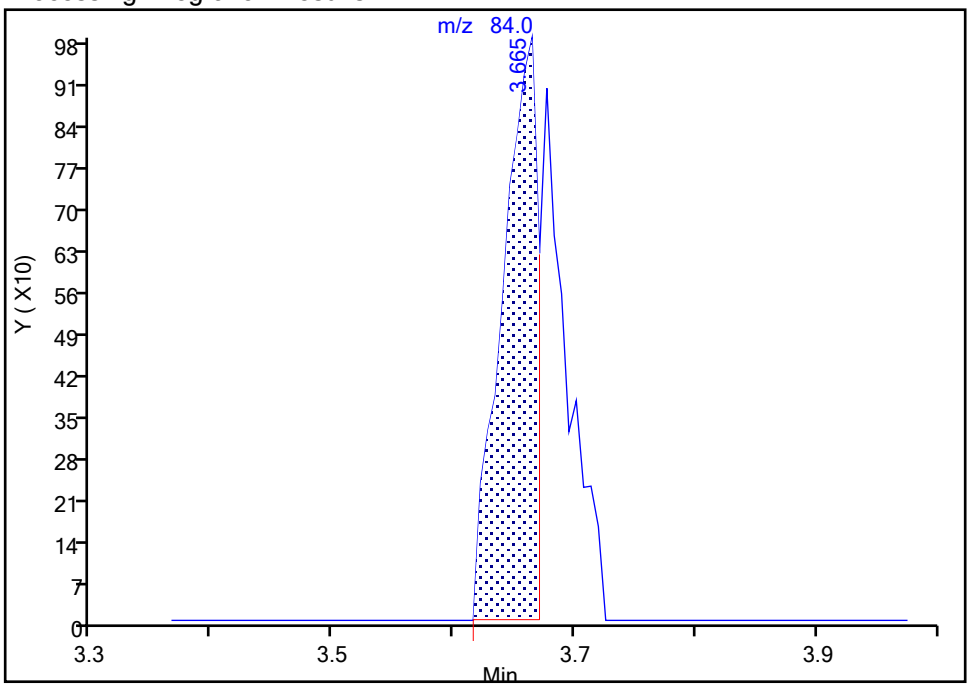
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193		
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

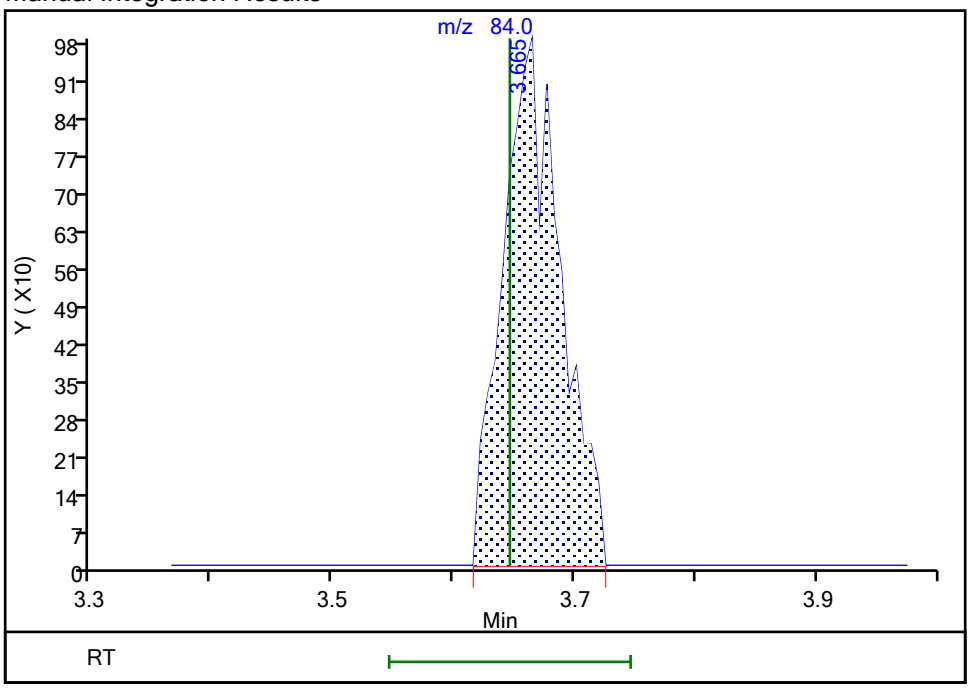
Processing Integration Results

RT: 3.66
Area: 2028
Amount: 0.040756
Amount Units: ug/l



Manual Integration Results

RT: 3.66
Area: 3268
Amount: 0.065677
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:06:20 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

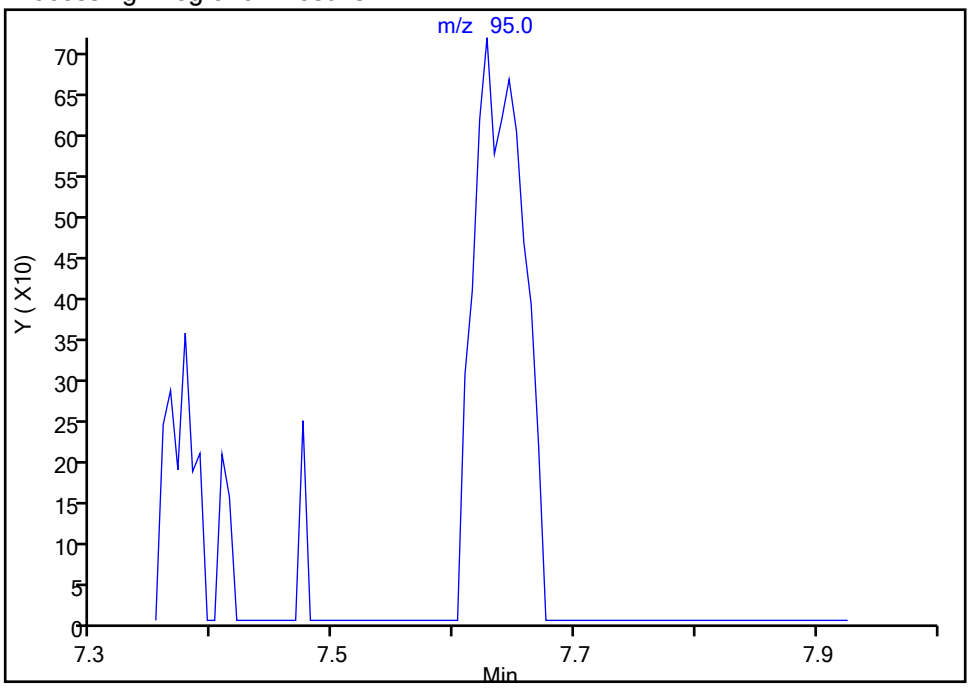
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193		
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

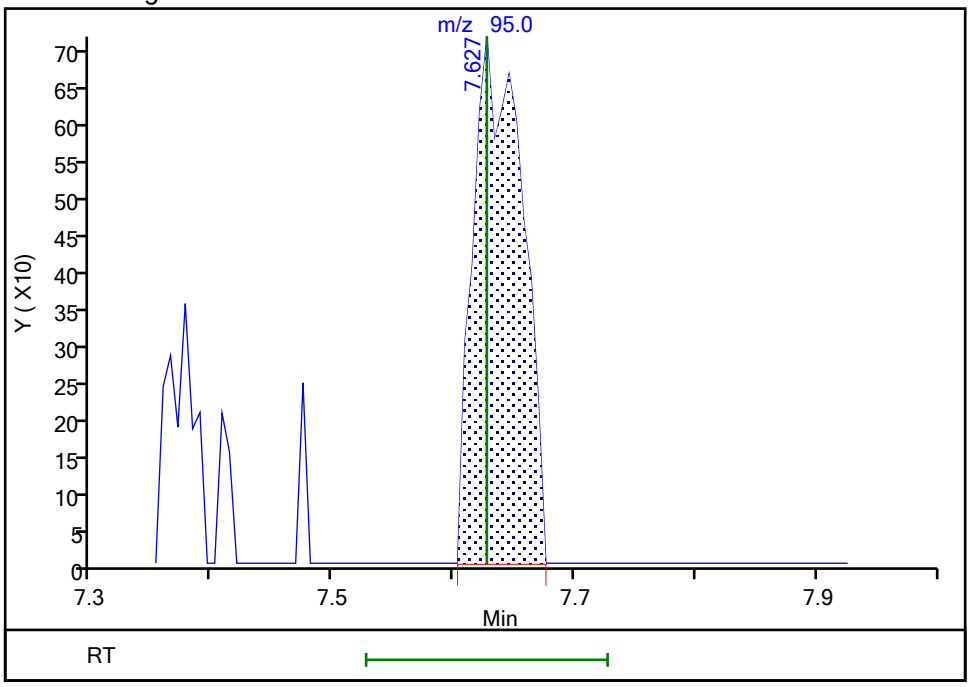
Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results

RT: 7.63
Area: 2023
Amount: 0.034697
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:06:47 07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

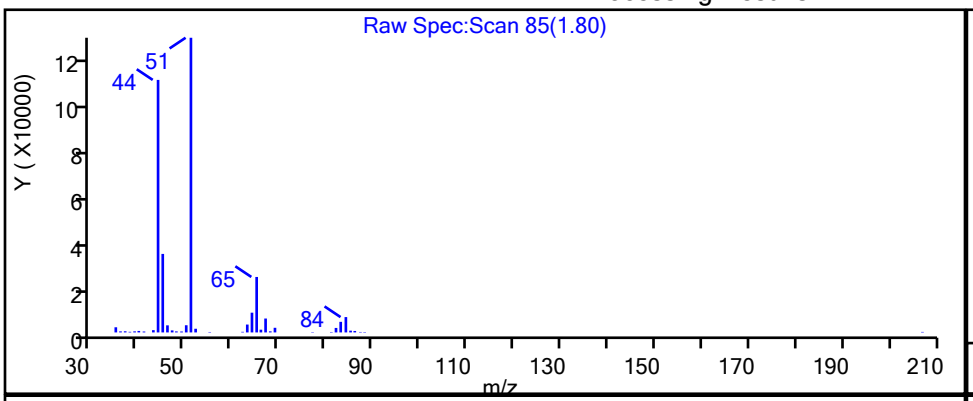
User Disabled Compound Report

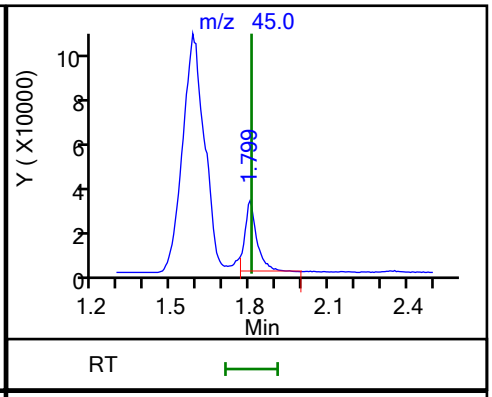
Eurofins Lancaster Laboratories Environment Testing, LLC

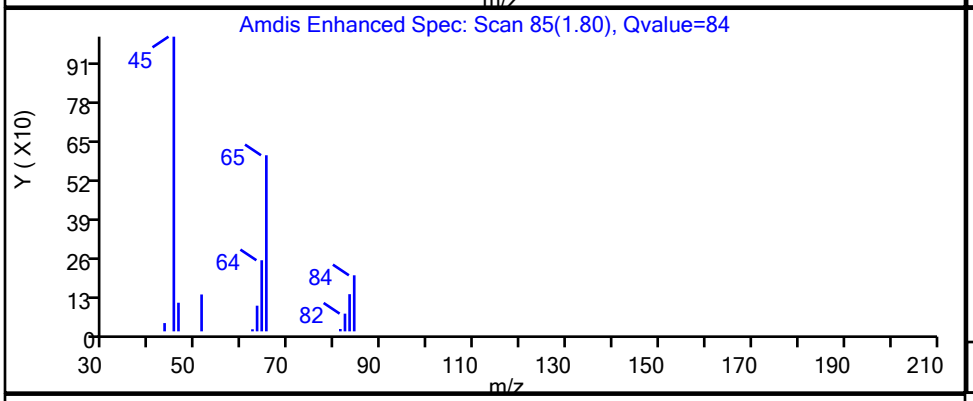
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X16.D				
Injection Date:	08-Jul-2025 15:21:30	Instrument ID:	10193		
Lims ID:	410-229895-A-3	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

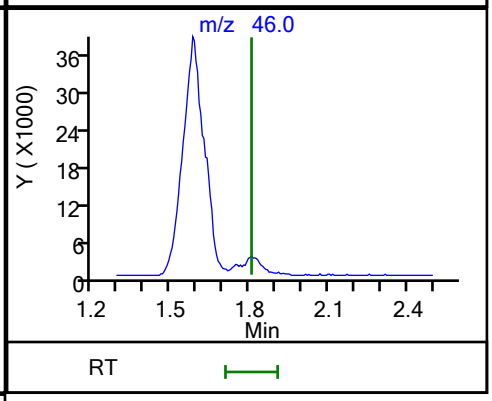
4 Dimethyl ether, CAS: 115-10-6

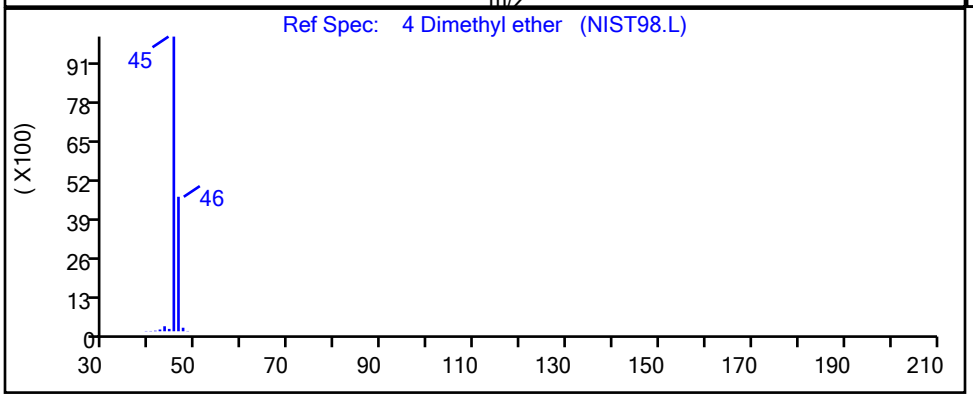
Processing Results











RT	Mass	Response	Amount
1.80	45.00	103611	1.188502
1.80	46.00	0	

Reviewer: N9NA, 09-Jul-2025 09:05:55 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW9 DL
Lab Sample ID: 410-229895-3 DL

Matrix: Water
Lab File ID: CL09X20.D

Analysis Method: 8260D
Date Collected: 06/26/2025 11:00

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 16:43

Soil Aliquot Vol:
Dilution Factor: 10

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
60-29-7	Ethyl ether	ND		100	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X20.D
Lims ID: 410-229895-B-3 DL
Client ID: 16MW9
Sample Type: Client
Inject. Date: 09-Jul-2025 16:43:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0152846-021
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:25:05 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:25:05

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.762				ND	
4 Dimethyl ether	45		1.805				ND	U
5 Chloromethane	50		1.945				ND	
6 Vinyl chloride	62		2.043				ND	7
10 Chloroethane	64	2.360	2.372	-0.012	98	5530	0.1539	
12 Trichlorofluoromethane	101		2.671				ND	
14 Ethyl ether	59	2.817	2.823	-0.006	93	230612	6.04	
18 1,1-Dichloroethene	96		3.091				ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.140				ND	
30 Methylene Chloride	84		3.658				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.677	3.671	0.006	94	107800	50.0	
37 1,1-Dichloroethane	63	4.646	4.652	-0.006	97	38053	0.4287	
42 2-Butanone (MEK)	43		5.481				ND	7
49 Tetrahydrofuran	71		5.853				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.231	-0.006	94	463383	10.6	
53 1,1,1-Trichloroethane	97		6.231				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.694	-0.012	99	93260	10.3	
60 Benzene	78	6.719	6.719	0.000	47	6449	0.0305	
* 65 Fluorobenzene (IS)	96	7.133	7.139	-0.006	99	1856730	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.236	9.243	-0.007	93	1840691	9.60	
84 Toluene	92		9.328				ND	7
88 Tetrachloroethene	166		9.919				ND	7
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	86	1460224	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.059				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	662120	9.14	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	796771	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

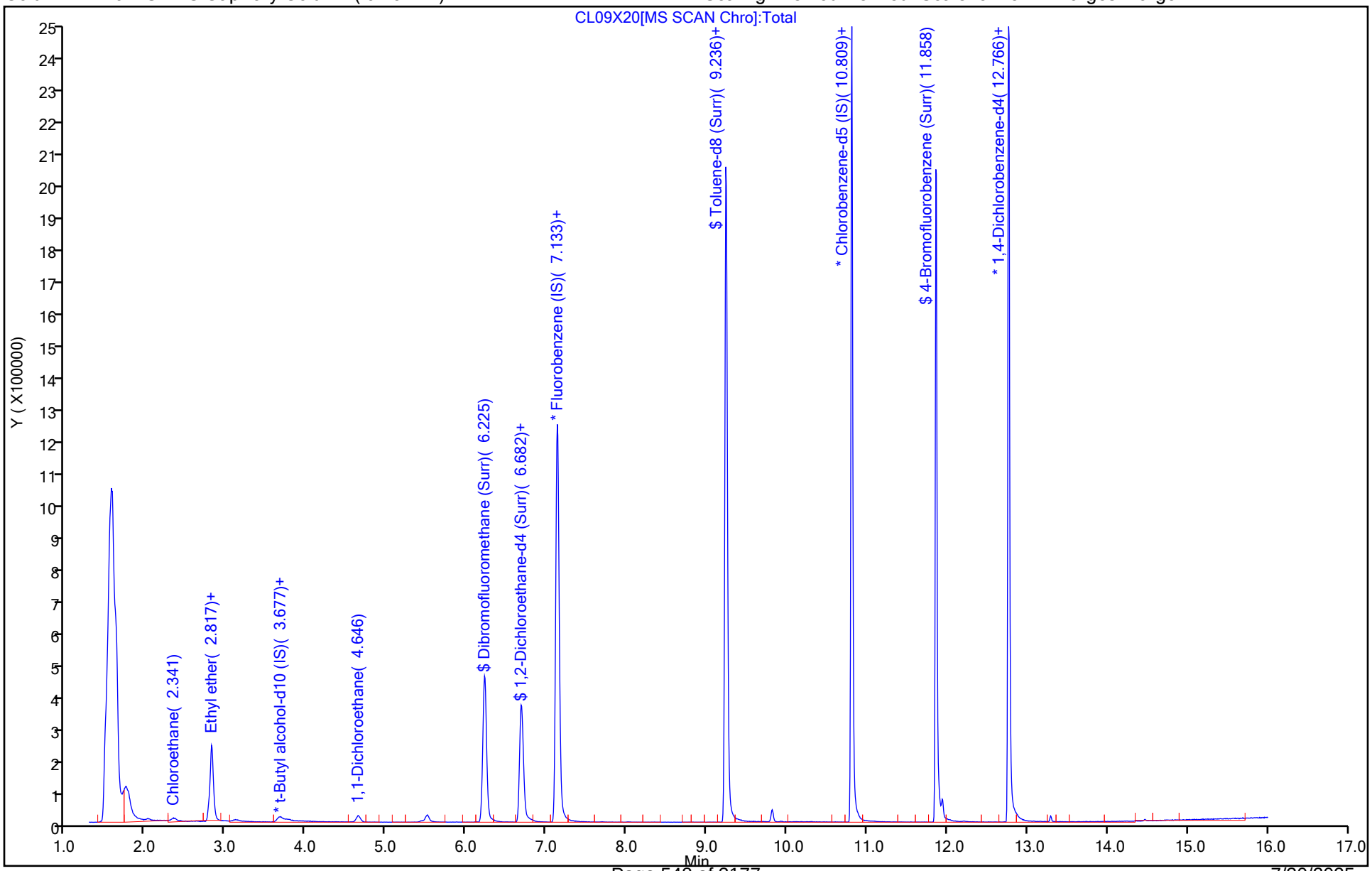
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Jul-2025 12:25:05 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X20.D				
Injection Date:	09-Jul-2025 16:43:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-B-3 DL	Lab Sample ID:	410-229895-3	Worklist Smp#:	21
Client ID:	16MW9				
Purge Vol:	25.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X20.D
Lims ID: 410-229895-B-3 DL
Client ID: 16MW9
Sample Type: Client
Inject. Date: 09-Jul-2025 16:43:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 10.0000
Sample Info: 410-0152846-021
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:25:05 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:25:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.76
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.14
$ 83 Toluene-d8 (Surr)	10.0	9.60	95.98
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.14	91.42

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A Lab Sample ID: 410-229895-4

Matrix: Water Lab File ID: CL08X17.D

Analysis Method: 8260D Date Collected: 06/26/2025 09:45

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 15:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	1.2		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND	F1	1.0	
75-34-3	1,1-Dichloroethane	2.0		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	16		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D
Lims ID: 410-229895-A-4
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 08-Jul-2025 15:43:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-018
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:09:03 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:09:03

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116		1.720				ND	
	2 Dichlorodifluoromethane	85		1.750				ND	U
	3 Chlorodifluoromethane	51	1.769	1.768	0.001	98	340494	4.67	
	4 Dimethyl ether	45		1.805				ND	U
	5 Chloromethane	50		1.933				ND	7
	7 Butadiene	39		2.012				ND	7
	6 Vinyl chloride	62	2.031	2.031	0.000	90	6483	0.1032	
	8 2-Chloro-1,1,1-Trifluoroethane	118		2.079				ND	
	9 Bromomethane	94		2.329				ND	
	10 Chloroethane	64	2.366	2.360	0.006	99	43076	1.21	
	11 Dichlorofluoromethane	67	2.573	2.573	0.000	97	24819	0.2414	
	13 Pentane	43		2.634				ND	U
	12 Trichlorofluoromethane	101		2.658				ND	
	14 Ethyl ether	59	2.817	2.817	0.000	93	622650	16.4	
T	15 Vinyl bromide TIC	106	2.549	2.830	-0.281	1	347	0.001885	
	16 1,2-Dichloro-1,1,2-trifluoroetha	67		2.915				ND	U
	17 Acrolein	56		2.963				ND	7
	18 1,1-Dichloroethene	96	3.091	3.079	0.012	91	4162	0.1062	
T	19 Ethanol TIC	45	3.122	3.099	0.023	43	9054	0.0492	
	20 Acetone	43		3.110				ND	7
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
	22 Iodomethane	142		3.244				ND	
	24 Isopropyl alcohol	45		3.262				ND	
	23 Ethyl bromide	108		3.268				ND	
T	167 Isopropyl alcohol TIC	45	3.287	3.276	0.011	9	414	0.002249	
	25 Carbon disulfide	76		3.335				ND	
	27 Acetonitrile	41		3.451				ND	
	26 Methyl acetate	43		3.469				ND	7
T	28 Acetonitrile TIC	41	3.476	3.477	-0.001	31	168	0.000913	
	29 3-Chloro-1-propene	41		3.481				ND	
	30 Methylene Chloride	84	3.646	3.646	0.000	50	2543	0.0538	M
*	31 t-Butyl alcohol-d10 (IS)	65	3.665	3.664	0.001	96	134217	50.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
32 2-Methyl-2-propanol	59	3.762	3.768	-0.006	3	5669	2.84	
33 Acrylonitrile	53		3.945				ND	
34 Methyl tert-butyl ether	73	4.000	4.000	0.000	88	3881	0.0290	
35 trans-1,2-Dichloroethene	96		4.000				ND	7
36 Hexane	57		4.402				ND	
38 Vinyl acetate	43		4.640				ND	7
37 1,1-Dichloroethane	63	4.646	4.646	0.000	96	179246	2.04	
39 Isopropyl ether	45		4.713				ND	7
40 2-Chloro-1,3-butadiene	53		4.756				ND	
41 Tert-butyl ethyl ether	59		5.262				ND	7
42 2-Butanone (MEK)	43		5.475				ND	7
43 cis-1,2-Dichloroethene	96	5.506	5.505	0.001	80	91255	1.64	
44 2,2-Dichloropropane	77		5.512				ND	7
46 Ethyl acetate	43		5.554				ND	7
45 Propionitrile	54		5.573				ND	
47 Methacrylonitrile	67		5.786				ND	
48 Chlorobromomethane	128		5.835				ND	
49 Tetrahydrofuran	71	5.859	5.841	0.018	84	3489	1.01	
50 Chloroform	83		5.999				ND	
51 Methyl acrylate	55		6.013				ND	
S 52 1,2-Dichloroethene, Total	100				0		1.64	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	469069	10.8	
53 1,1,1-Trichloroethane	97		6.225				ND	
55 Cyclohexane	56		6.322				ND	
56 Carbon tetrachloride	117		6.438				ND	
57 1,1-Dichloropropene	75		6.444				ND	
58 Isobutyl alcohol	41		6.645				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.682	0.000	99	96147	10.7	
60 Benzene	78	6.707	6.713	-0.006	92	39309	0.1878	
62 1-Chlorobutane	56		6.781				ND	
61 1,2-Dichloroethane	62		6.792				ND	
63 Isopropyl acetate	43		6.828				ND	
64 Tert-amyl methyl ether	73		6.920				ND	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1840684	10.0	
66 n-Heptane	43		7.151				ND	7
67 n-Butanol	56		7.566				ND	
68 Trichloroethene	95	7.627	7.627	0.000	90	3916	0.0707	Ma
69 Methylcyclohexane	83		7.932				ND	
70 1,2-Dichloropropane	63		7.968				ND	
71 2-ethoxy-2-methyl butane	87		7.993				ND	
74 1,4-Dioxane	88		8.072				ND	
72 Dibromomethane	93		8.078				ND	
73 Methyl methacrylate	69		8.078				ND	
75 n-Propyl acetate	61		8.170				ND	
76 Dichlorobromomethane	83		8.328				ND	
77 2-Nitropropane	41		8.615				ND	
78 1-Bromo-2-chloroethane	63		8.718				ND	
79 2-Chloroethyl vinyl ether	63		8.724				ND	7
80 cis-1,3-Dichloropropene	75		8.901				ND	
81 Chloroacetonitrile	75		9.067				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.108				ND	
$ 83 Toluene-d8 (Surr)	98	9.237	9.243	-0.006	94	1800735	9.61	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
84 Toluene	92		9.322				ND	7
85 trans-1,3-Dichloropropene	75		9.621				ND	
86 Ethyl methacrylate	69		9.700				ND	
87 1,1,2-Trichloroethane	97		9.840				ND	
88 Tetrachloroethene	166	9.932	9.919	0.013	92	4006	0.0623	
T 105 Chloroacetaldehyde TIC	50		10.000				ND	
T 102 Methyl acrylate TIC	55	10.450	10.000	0.450	8	4619	0.0251	
T 104 Epibromohydrin TIC	57		10.000				ND	
T 103 2-Chloroethanol TIC	44	10.047	10.000	0.047	1	341	0.001853	
T 101 Ethylene oxide TIC	43		10.000				ND	
T 99 2,3-Dibromopropene TIC	119	9.822	10.000	-0.178	1	407	0.002211	
T 96 Nitrobenzene TIC	77		10.000				ND	
T 97 Decamethylcyclopentasiloxane TIC	73	9.816	10.000	-0.184	1	395	0.002146	
T 94 2,3-Dibromo-1-propanol TIC	57		10.000				ND	
T 95 Vinyl acetate (TIC)	43	9.938	10.000	-0.062	1	191	0.001038	
T 92 3-Chloro-1,2-propanediol TIC	43		10.000				ND	
T 100 2-Bromo-3-chloropropene TIC	75	9.822	10.000	-0.178	1	260	0.001413	
T 98 Epichlorohydrin TIC	57	9.932	10.000	-0.068	1	139	0.000755	
T 90 2-Bromoethanol TIC	45	9.328	10.000	-0.672	1	138	0.000750	
T 93 Monochloroacetic acid TIC	50	10.444	10.000	0.444	1	194	0.001054	
T 91 Octamethylcyclotetrasiloxane TIC	281	11.943	10.000	1.943	90	22639	0.1230	
89 1,3-Dichloropropane	76		10.011				ND	
S 107 1,3-Dichloropropene, Total	100		10.060				ND	7
106 2-Hexanone	43		10.084				ND	7
109 n-Butyl acetate	43		10.224				ND	
108 Chlorodibromomethane	129		10.236				ND	
110 Ethylene Dibromide	107		10.346				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1426769	10.0	
112 1-Chlorohexane	91		10.834				ND	7
113 Chlorobenzene	112	10.840	10.834	0.006	83	3234	0.0204	a
114 1,1,1,2-Tetrachloroethane	131		10.925				ND	
115 Ethylbenzene	91		10.931				ND	7
116 m-Xylene & p-Xylene	106		11.053				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
119 Styrene	104		11.413				ND	7
120 Bromoform	173		11.571				ND	
121 Isopropylbenzene	105		11.712				ND	
122 cis-1,4-Dichloro-2-butene	88		11.772				ND	
123 Cyclohexanone	55		11.797				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	657902	9.30	
125 Bromobenzene	156		11.974				ND	
126 1,1,2,2-Tetrachloroethane	83		11.974				ND	
127 trans-1,4-Dichloro-2-butene	53		11.998				ND	
128 1,2,3-Trichloropropane	110		12.016				ND	
129 N-Propylbenzene	91		12.053				ND	
130 2-Chlorotoluene	126		12.126				ND	
131 1,3,5-Trimethylbenzene	105		12.199				ND	7
132 4-Chlorotoluene	126		12.224				ND	
133 tert-Butylbenzene	134		12.443				ND	
134 Pentachloroethane	167		12.474				ND	
135 1,2,4-Trimethylbenzene	105		12.492				ND	7

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
136 sec-Butylbenzene	105		12.614				ND	
137 1,3-Dichlorobenzene	146		12.711				ND	7
138 4-Isopropyltoluene	119		12.724				ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	773838	10.0	
140 1,4-Dichlorobenzene	146		12.785				ND	7
141 1,2,3-Trimethylbenzene	120		12.797				ND	7
142 Benzyl chloride	126		12.870				ND	
145 p-Diethylbenzene	119		13.004				ND	
143 n-Butylbenzene	92		13.022				ND	
144 1,2-Dichlorobenzene	146		13.053				ND	
T 146 Hexachloroethane TIC	117	13.394	13.444	-0.050	1	71	0.000386	
147 Hexachloroethane	117		13.444				ND	
148 1,2-Dibromo-3-Chloropropane	155		13.608				ND	
149 1,3,5-Trichlorobenzene	180		13.736				ND	
150 1,2,4-Trichlorobenzene	180		14.162				ND	
151 Hexachlorobutadiene	225		14.248				ND	
152 Naphthalene	128		14.345				ND	7
153 1,2,3-Trichlorobenzene	180		14.492				ND	
154 2-Methylnaphthalene	142		15.101				ND	
155 Dodecane	57		0.000				ND	
253 Dimethylformamide TIC	1		0.000				ND	
252 1,1,1,2-Tetrafluoroethane TIC	1		0.000				ND	
251 sec-Butyl Alcohol TIC	1		0.000				ND	
250 C4-C12	1		0.000				ND	
249 C5-C12	1		0.000				ND	
248 C7-C12	1		0.000				ND	
247 C6-C10	1		0.000				ND	
246 C6-C12	1		0.000				ND	
245 C4-C10	1		0.000				ND	
254 3-Pentanone TIC	1		0.000				ND	
244 1,1-Dichloro-1-fluoroethane TIC	1		0.000				ND	
165 n-Decane	57		0.000				ND	
164 Ethanol	45		0.000				ND	
163 t-Amyl alcohol	1		0.000				ND	
162 Propene oxide	1		0.000				ND	
161 Methylal	1		0.000				ND	
160 1,1-Dichloroacetone	1		0.000				ND	
159 1-Chloropropane	1		0.000				ND	
158 2-Bromo-1-chloropropane	1		0.000				ND	
157 tert-Butyl Formate	1		0.000				ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000				ND	
166 1-Bromo-3-Chloropropane	1		0.000				ND	
255 Isooctane TIC	1		0.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags
M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 09-Jul-2025 09:09:03 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D

Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4	Worklist Smp#:	18
Client ID:	16WC1A				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Lims ID:	410-229895-A-4				
Client ID:	16WC1A				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 15:43:30	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-018				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:09:03	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:09:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.8	107.99
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.26
$ 83 Toluene-d8 (Surr)	10.0	9.61	96.09
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.30	92.97

Report Date: 09-Jul-2025 09:09:03 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D

Injection Date: 08-Jul-2025 15:43:30 Instrument ID: 10193

Lims ID: 410-229895-A-4 Lab Sample ID: 410-229895-4

Client ID: 16WC1A

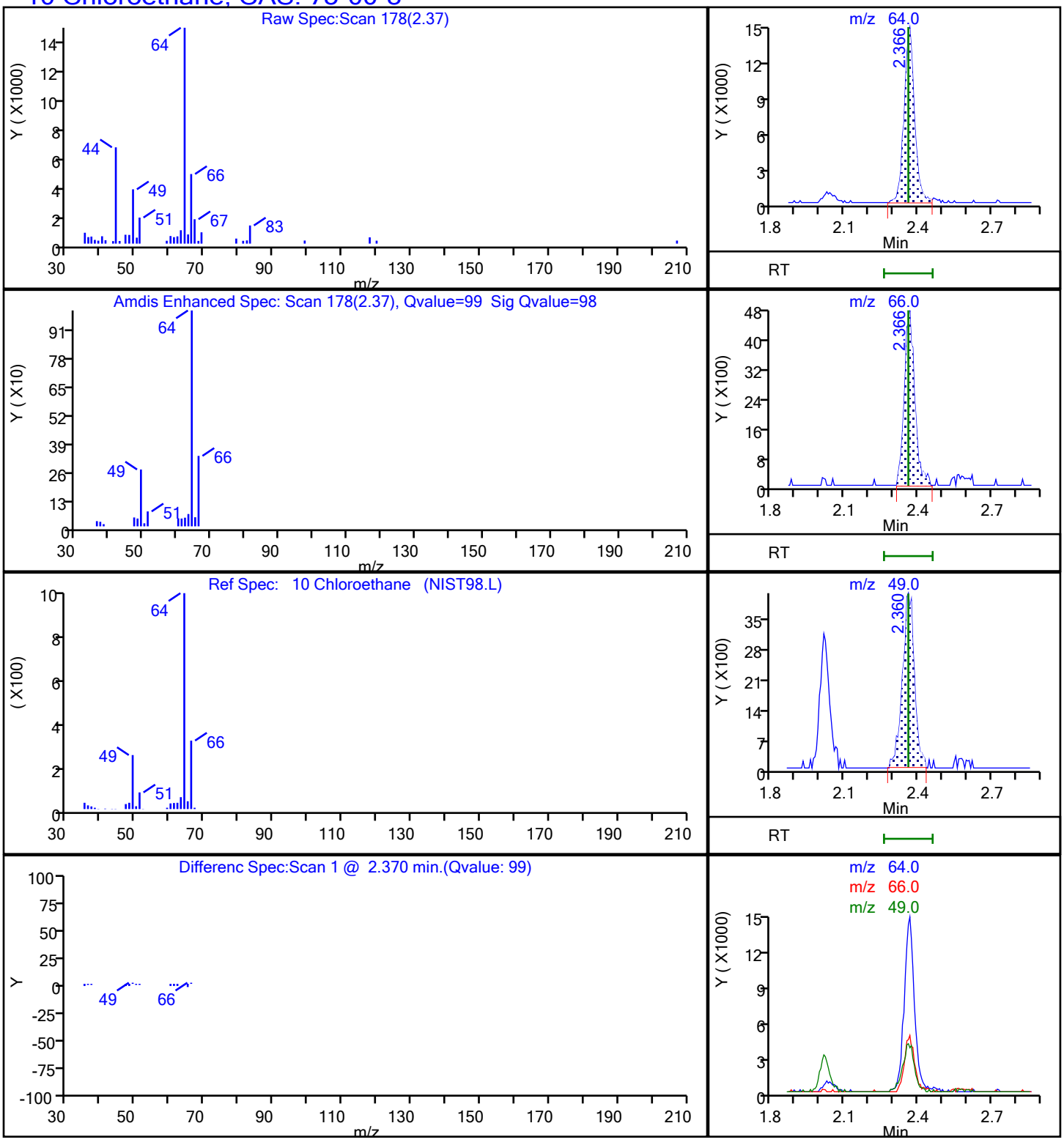
Operator ID: ecr105096 ALS Bottle#: 17 Worklist Smp#: 18

Purge Vol: 25.000 mL Dil. Factor: 1.0000

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

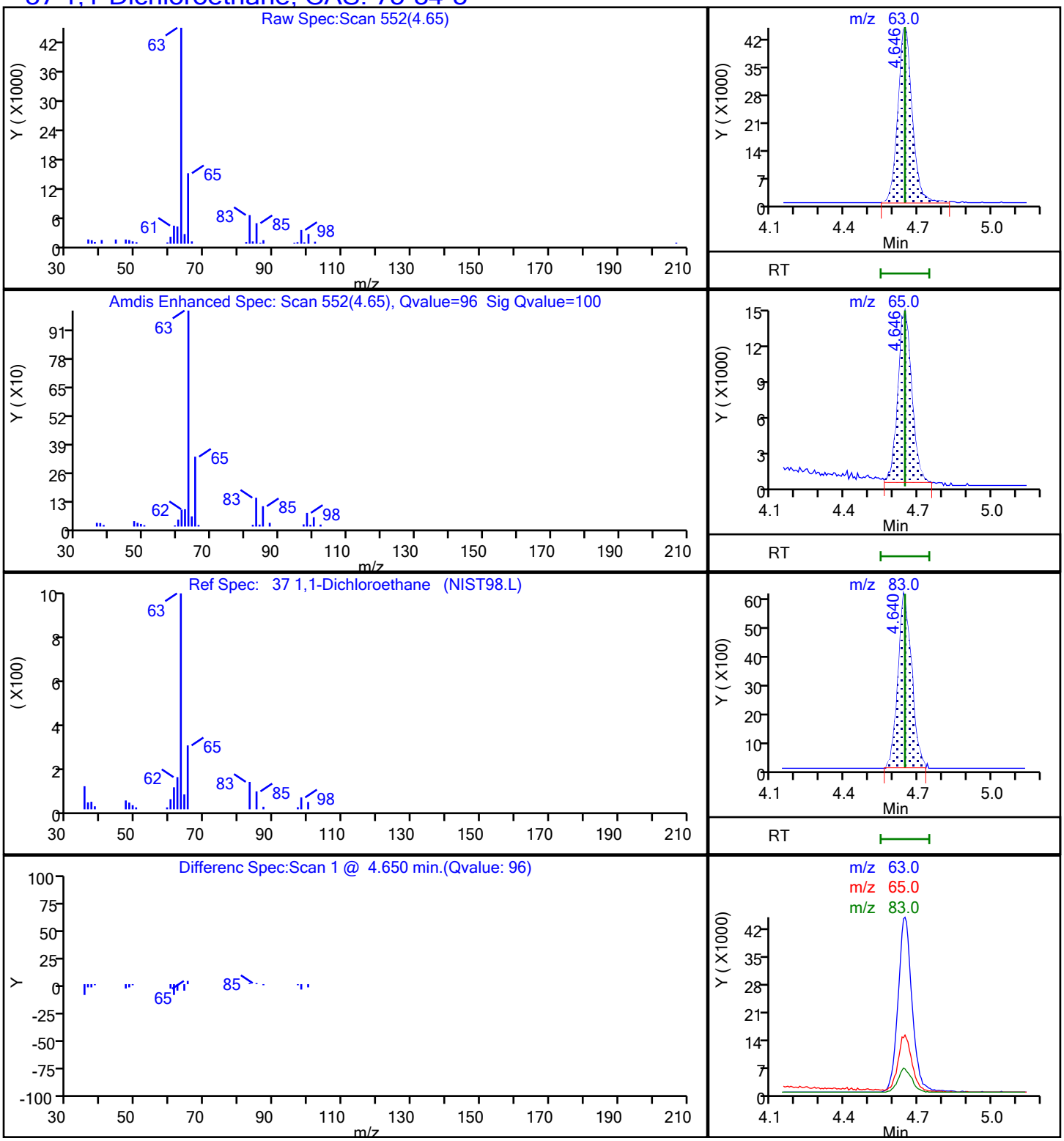
10 Chloroethane, CAS: 75-00-3



Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193		
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4		
Client ID:	16WC1A				
Operator ID:	ecr105096	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3

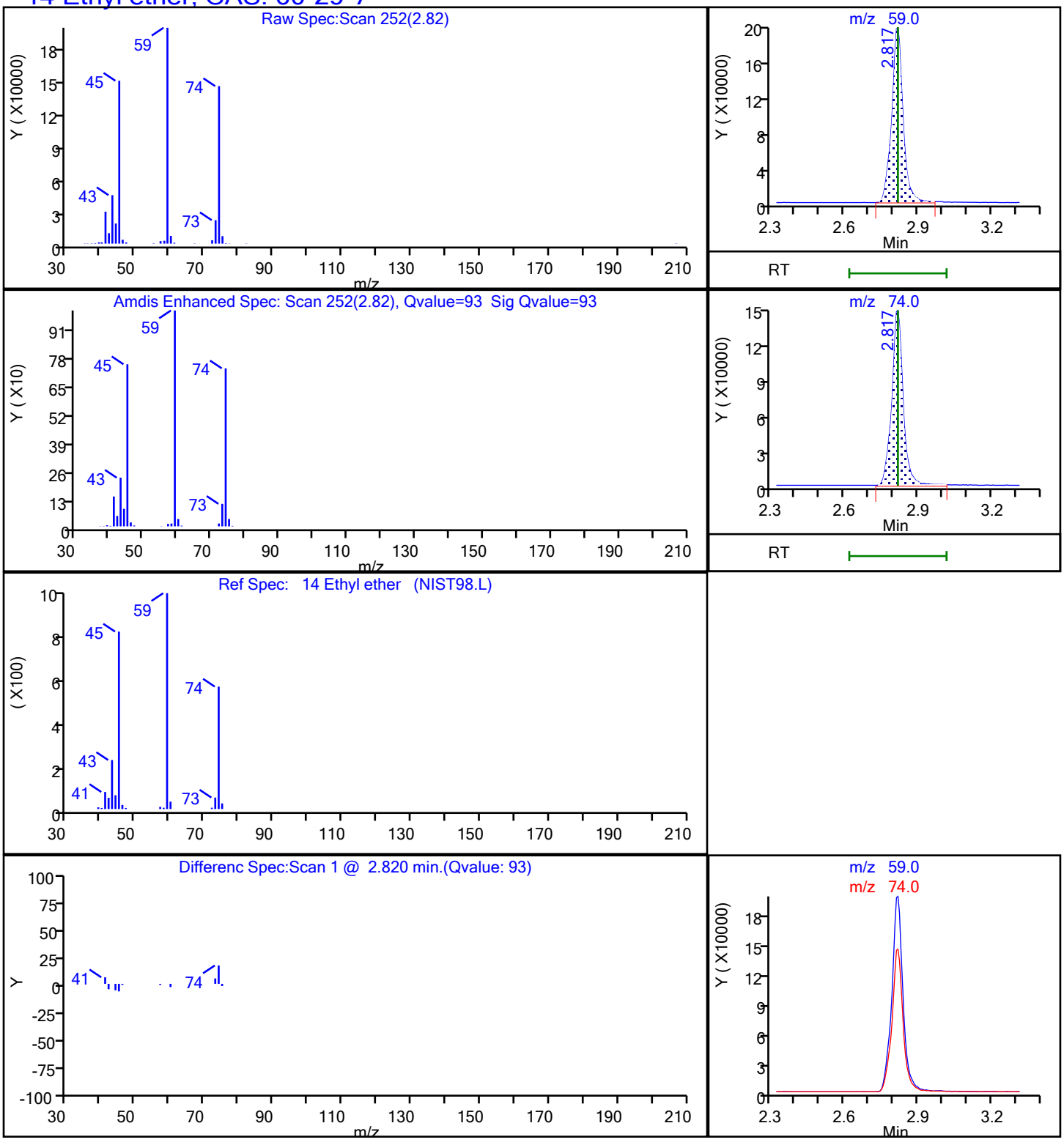


Report Date: 09-Jul-2025 09:09:03 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193		
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4		
Client ID:	16WC1A				
Operator ID:	ecr105096	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

14 Ethyl ether, CAS: 60-29-7



7/30/2025
1:47:08 PM

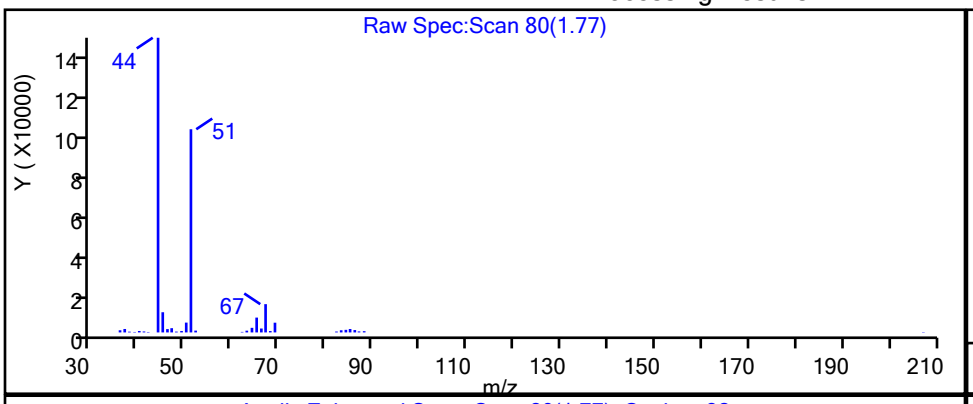
User Disabled Compound Report

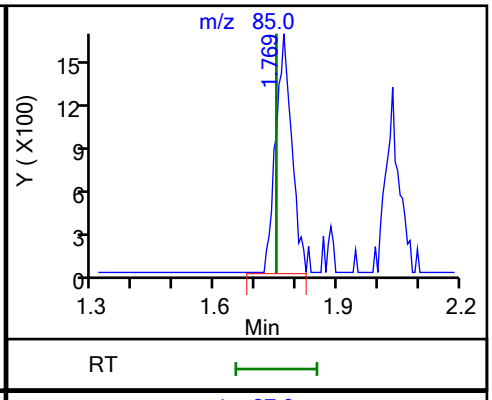
Eurofins Lancaster Laboratories Environment Testing, LLC

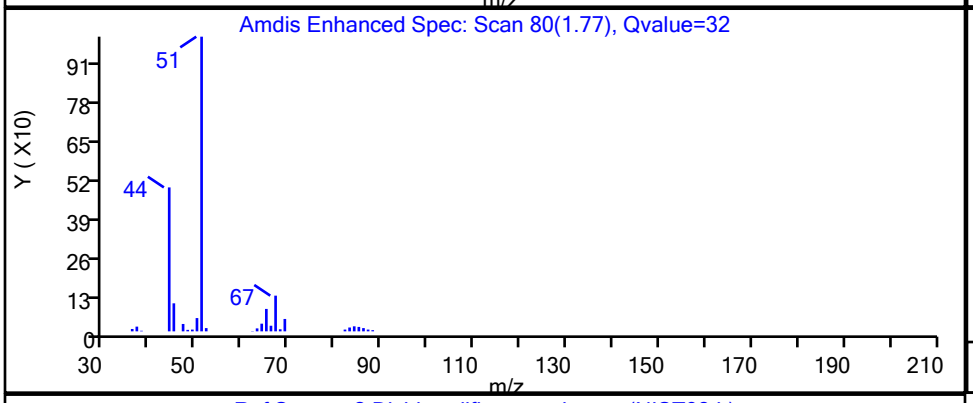
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193		
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4		
Client ID:	16WC1A				
Operator ID:	ecr105096	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

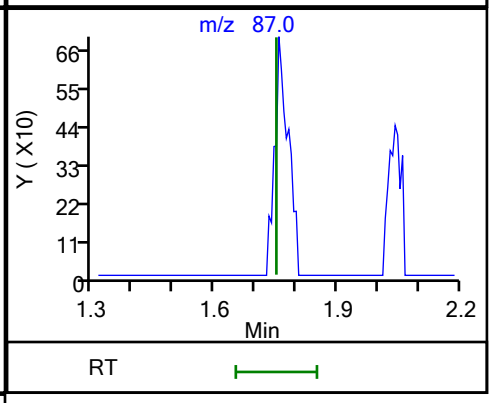
2 Dichlorodifluoromethane, CAS: 75-71-8

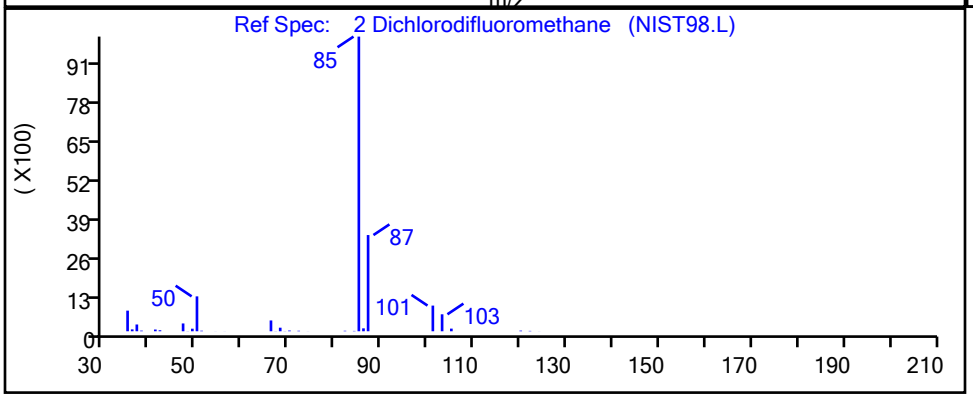
Processing Results











RT	Mass	Response	Amount
1.77	85.00	4453	0.074306
1.75	87.00	0	

Reviewer: N9NA, 09-Jul-2025 09:07:10 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

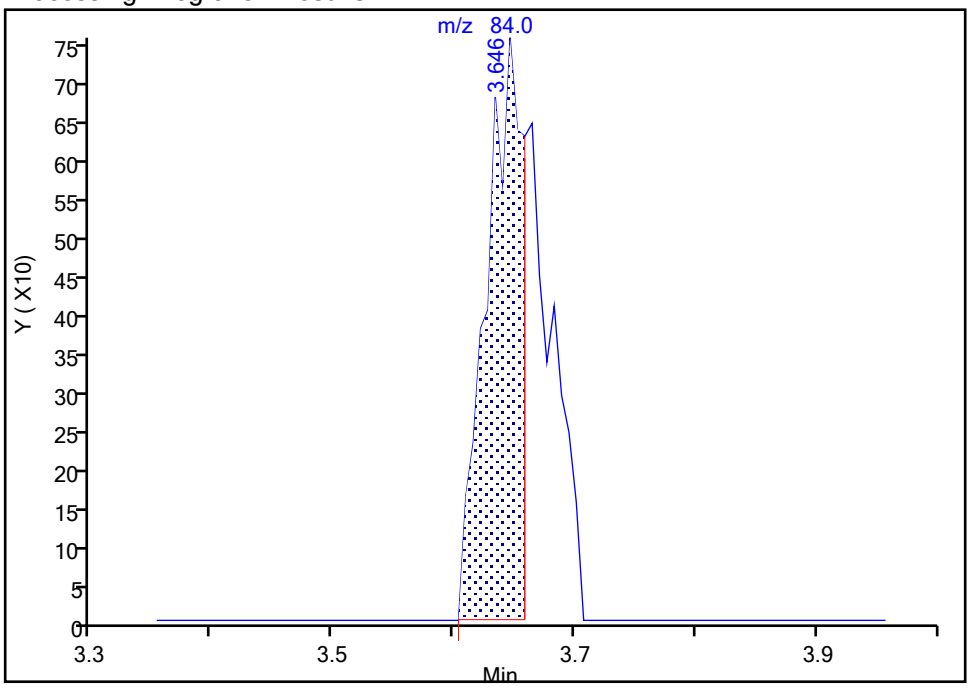
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193		
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4		
Client ID:	16WC1A				
Operator ID:	ecr105096	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

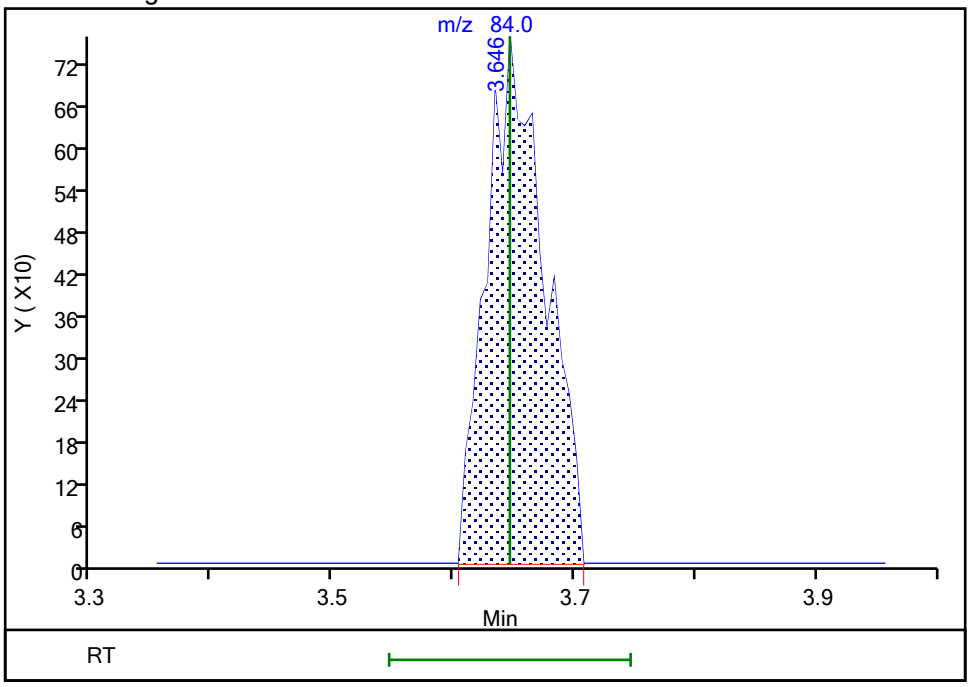
Processing Integration Results

RT: 3.65
Area: 1620
Amount: 0.034263
Amount Units: ug/l



Manual Integration Results

RT: 3.65
Area: 2543
Amount: 0.053785
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:07:50 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

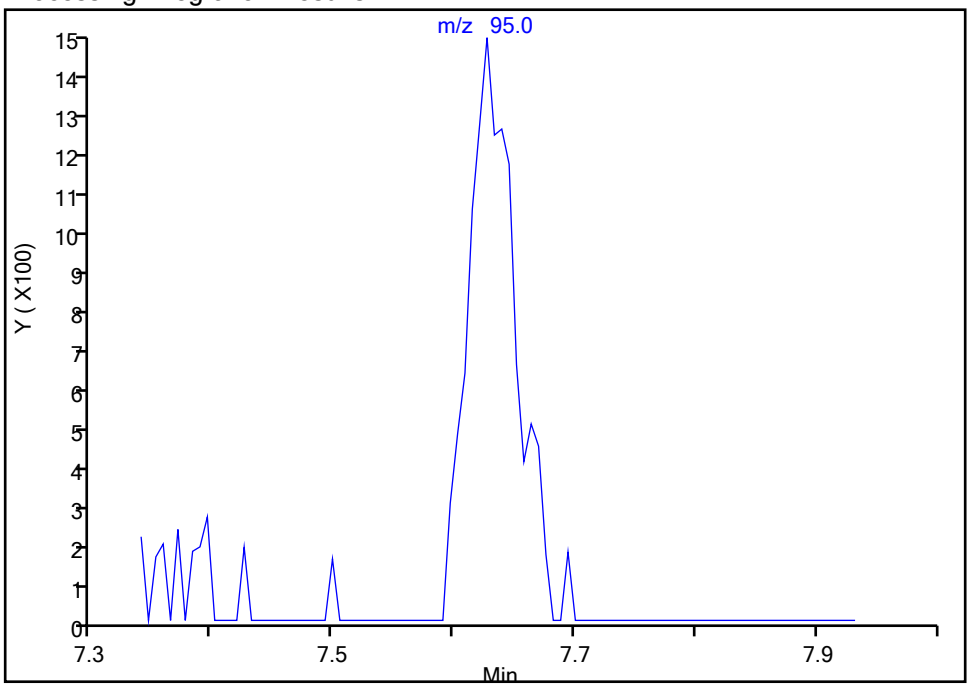
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193		
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4		
Client ID:	16WC1A				
Operator ID:	ecr105096	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

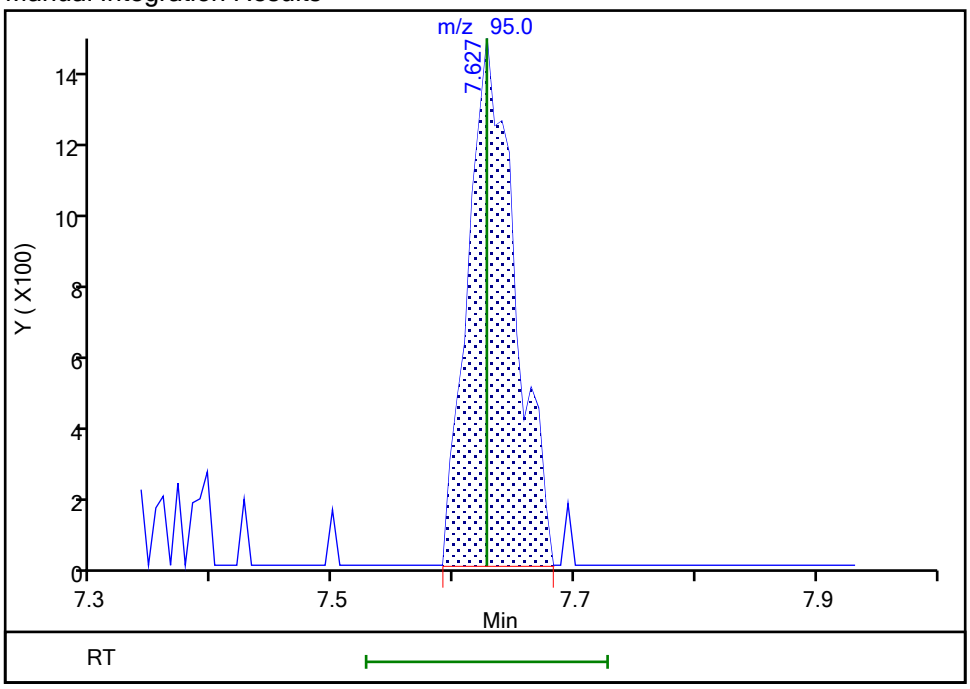
Not Detected
Expected RT: 7.63

Processing Integration Results



Manual Integration Results

RT: 7.63
Area: 3916
Amount: 0.070684
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:08:25 07:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

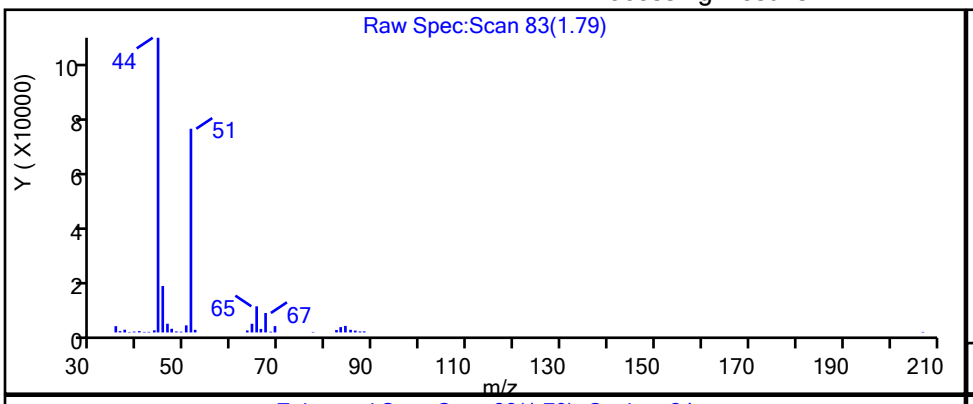
User Disabled Compound Report

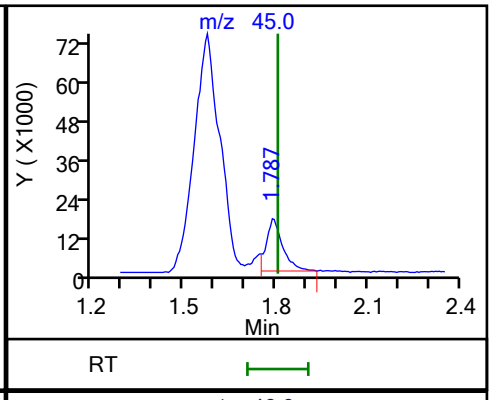
Eurofins Lancaster Laboratories Environment Testing, LLC

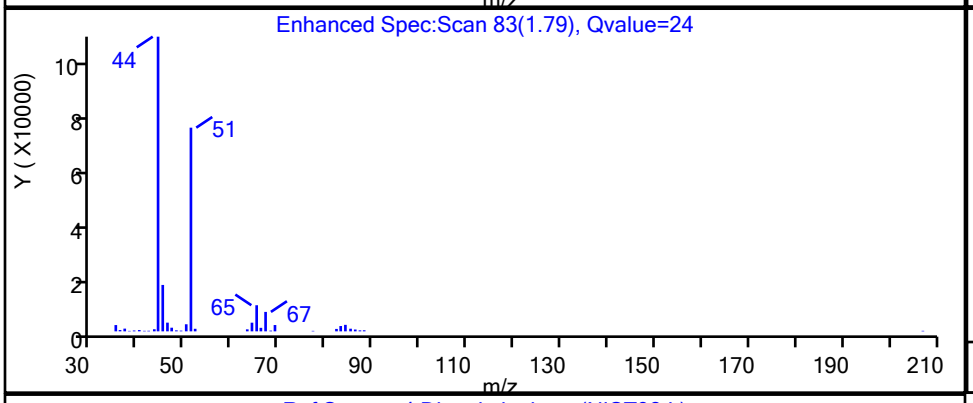
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X17.D				
Injection Date:	08-Jul-2025 15:43:30	Instrument ID:	10193		
Lims ID:	410-229895-A-4	Lab Sample ID:	410-229895-4		
Client ID:	16WC1A				
Operator ID:	ecr105096	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

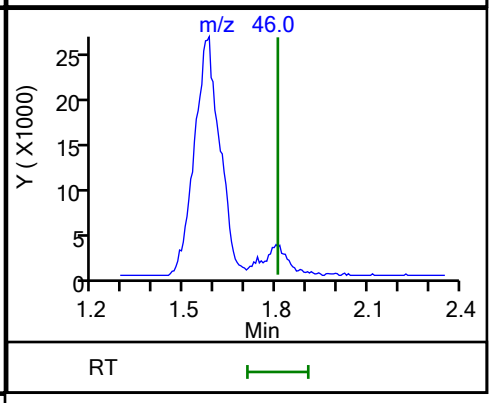
4 Dimethyl ether, CAS: 115-10-6

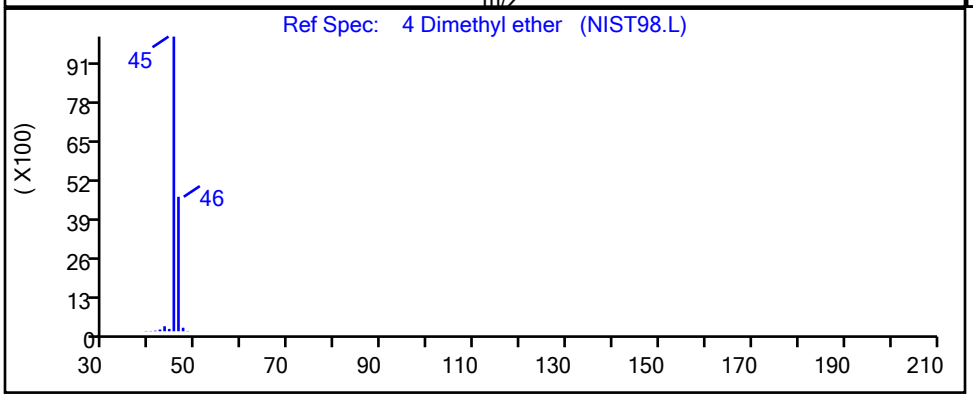
Processing Results











RT	Mass	Response	Amount
1.79	45.00	61033	0.736791
1.80	46.00	0	

Reviewer: N9NA, 09-Jul-2025 09:07:14 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5

Matrix: Water
Lab File ID: CL08X22.D

Analysis Method: 8260D
Date Collected: 06/26/2025 09:00

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 17:35

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	1.1		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	1.9		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	15		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D
Lims ID: 410-229895-A-5
Client ID: 16WDUP
Sample Type: Client
Inject. Date: 08-Jul-2025 17:35:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-023
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:14:09 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:14:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	U
4 Dimethyl ether	45		1.805				ND	U
5 Chloromethane	50		1.933				ND	U
6 Vinyl chloride	62	2.049	2.031	0.018	40	6167	0.0930	
10 Chloroethane	64	2.372	2.360	0.012	100	40874	1.09	
12 Trichlorofluoromethane	101		2.658				ND	
14 Ethyl ether	59	2.823	2.817	0.006	93	608092	15.2	
18 1,1-Dichloroethene	96	3.097	3.079	0.018	94	3855	0.0933	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84	3.658	3.646	0.012	37	2042	0.0409	
* 31 t-Butyl alcohol-d10 (IS)	65	3.683	3.664	0.019	95	147721	50.0	
37 1,1-Dichloroethane	63	4.652	4.646	0.006	97	173987	1.87	
42 2-Butanone (MEK)	43		5.475				ND	7
49 Tetrahydrofuran	71	5.865	5.841	0.024	86	3456	0.9061	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	93	487012	10.6	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.682	0.012	100	100613	10.6	
60 Benzene	78	6.713	6.713	0.000	93	37207	0.1685	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1941889	10.0	
68 Trichloroethene	95	7.633	7.627	0.006	96	4255	0.0728	M
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1904429	9.64	
84 Toluene	92	9.316	9.322	-0.006	98	4450	0.0305	
88 Tetrachloroethene	166	9.925	9.919	0.006	96	4174	0.0615	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1504821	10.0	
115 Ethylbenzene	91		10.931				ND	7
116 m-Xylene & p-Xylene	106		11.053				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	694144	9.30	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	819163	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00114 Amount Added: 1.00 Units: uL Run Reagent

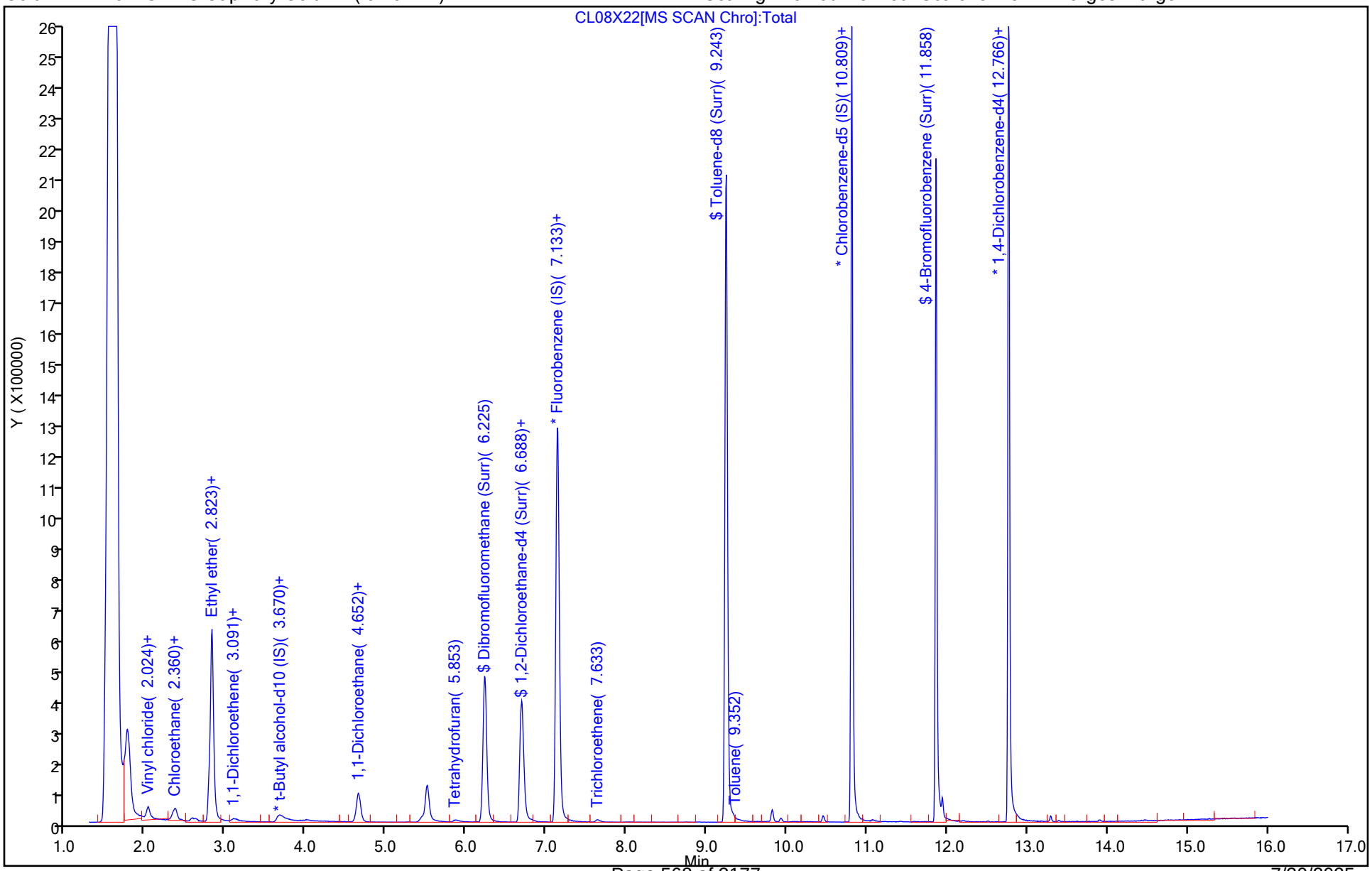
Report Date: 09-Jul-2025 09:14:10 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D

Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5	Worklist Smp#:	23
Client ID:	16WDUP				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Lims ID:	410-229895-A-5				
Client ID:	16WDUP				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 17:35:30	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-023				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:14:09	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

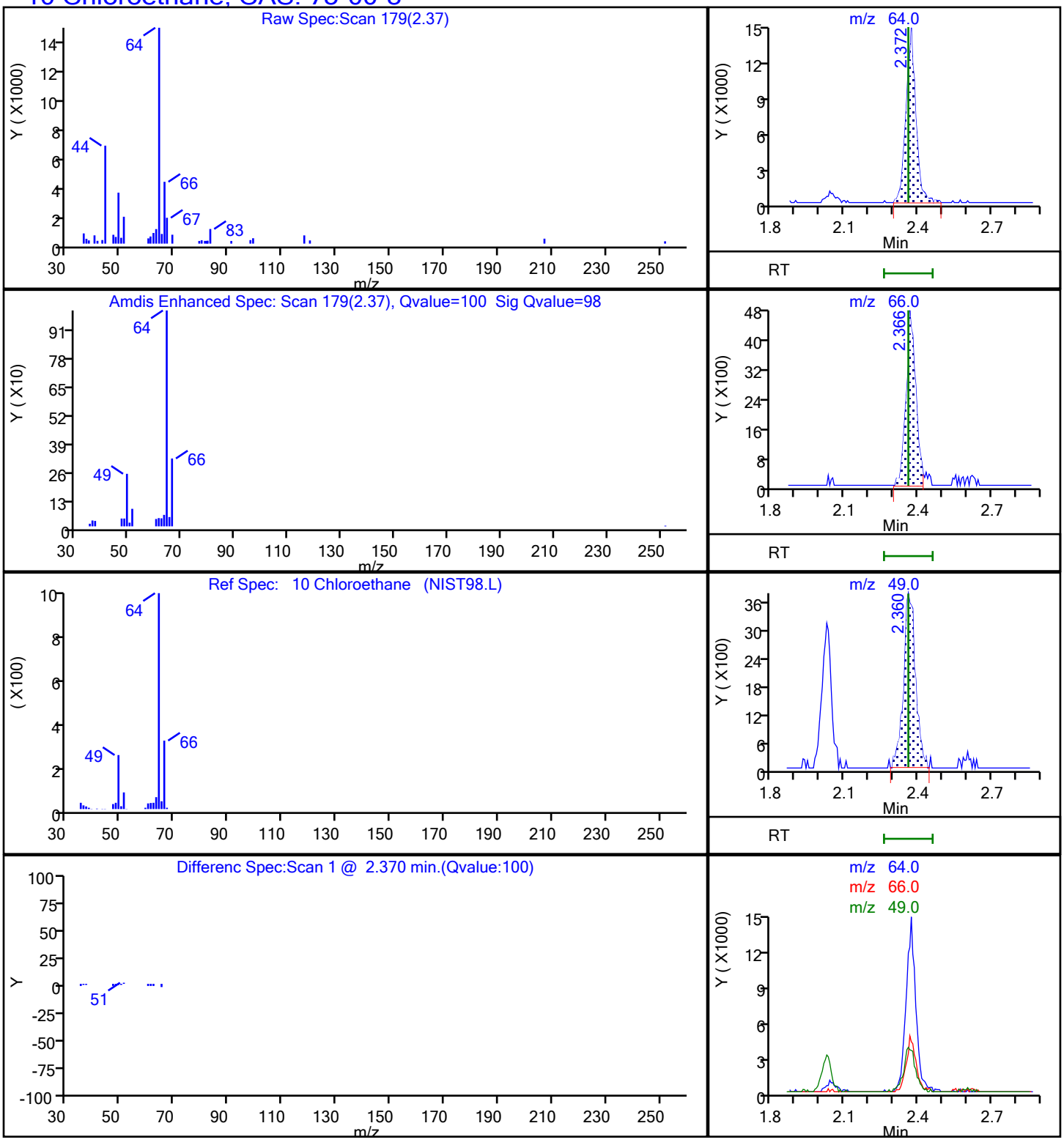
First Level Reviewer: N9NA Date: 09-Jul-2025 09:14:09

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	106.28
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	106.40
$ 83 Toluene-d8 (Surr)	10.0	9.64	96.36
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.30	93.01

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

10 Chloroethane, CAS: 75-00-3

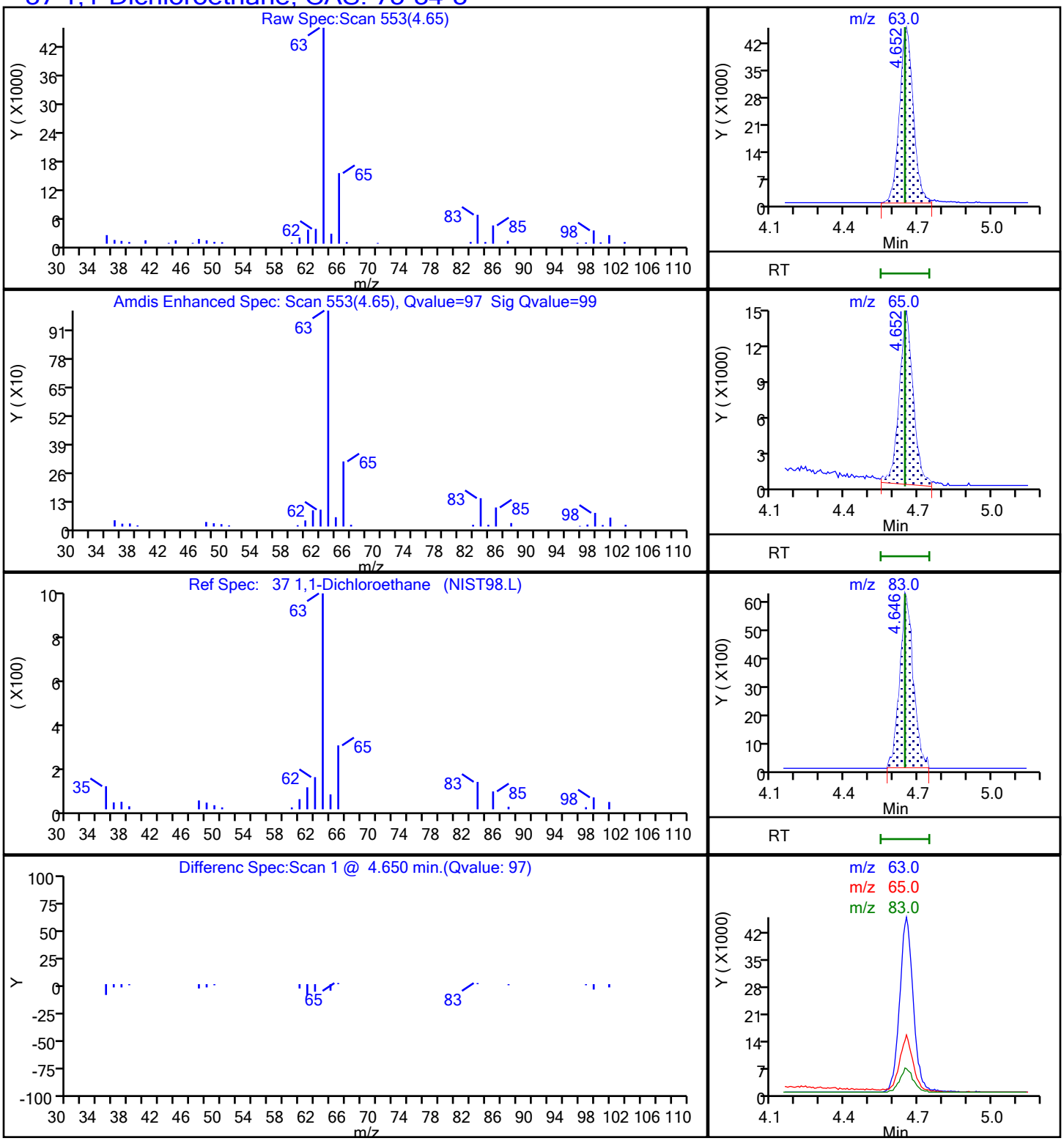


Report Date: 09-Jul-2025 09:14:10 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

37 1,1-Dichloroethane, CAS: 75-34-3



7/30/2025
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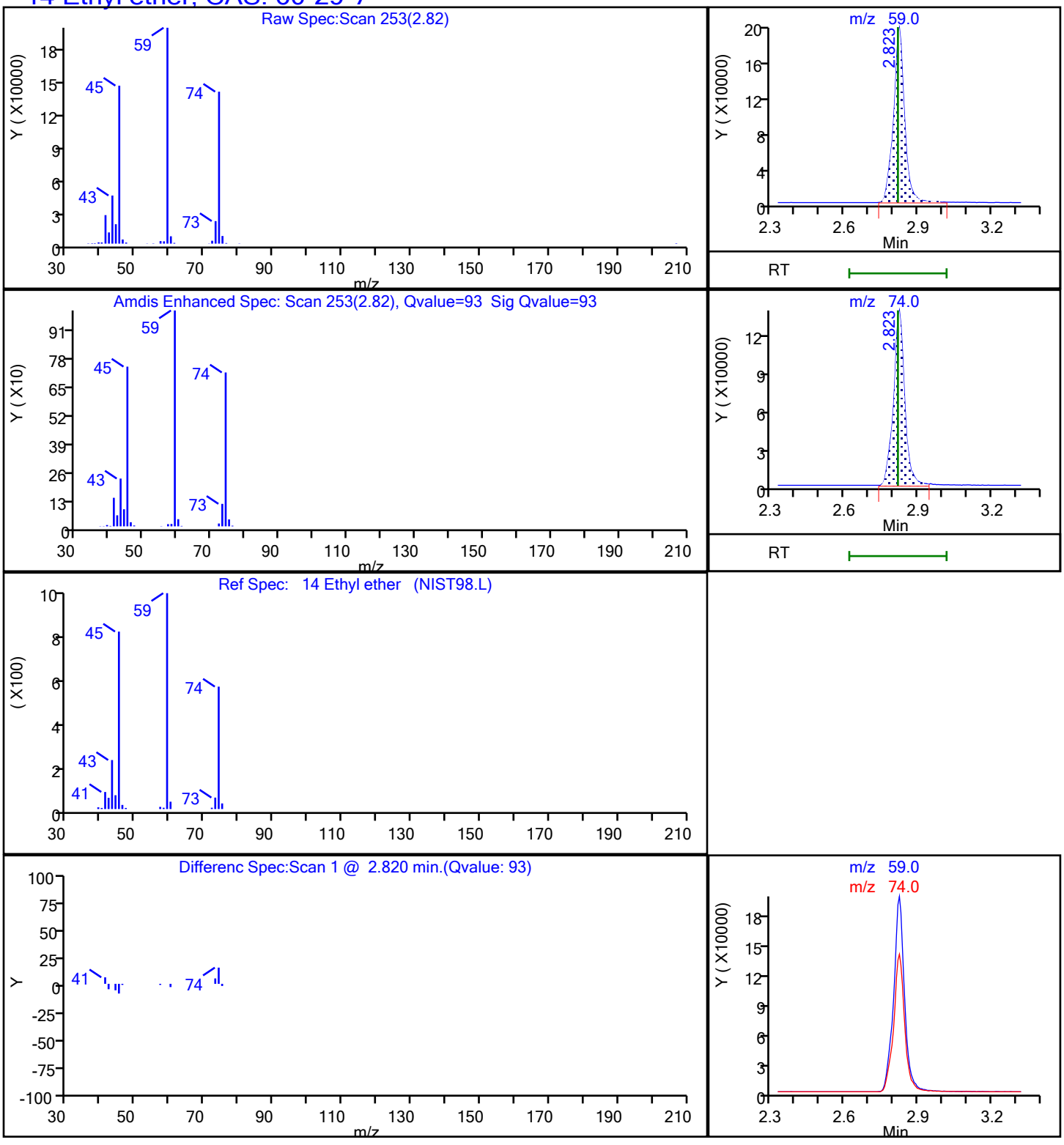
Report Date: 09-Jul-2025 09:14:10 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

14 Ethyl ether, CAS: 60-29-7



7/30/2025
1:47:08 PM

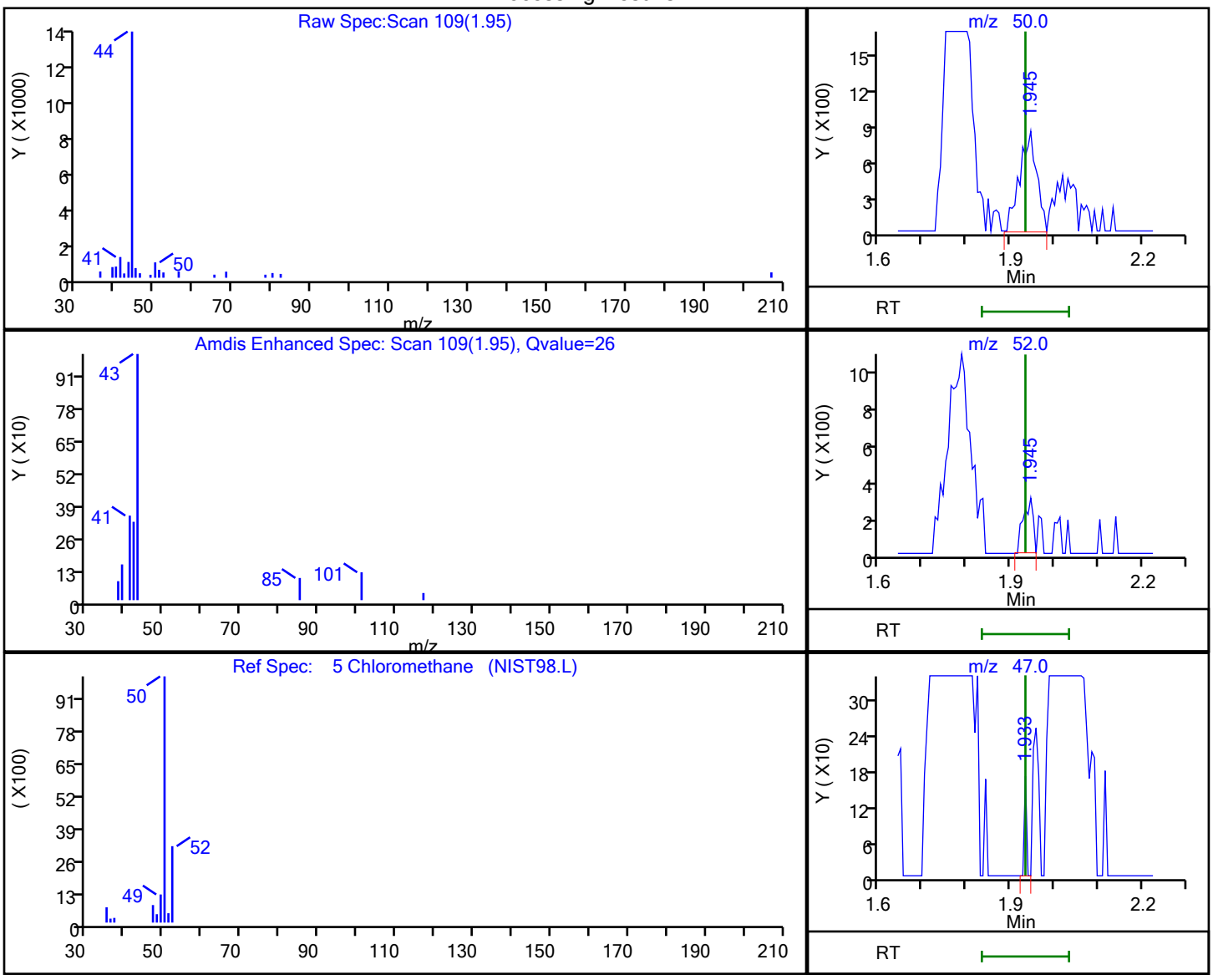
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.95	50.00	2250	0.030002
1.95	52.00	441	
1.93	47.00	61	

Reviewer: N9NA, 09-Jul-2025 09:13:24 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

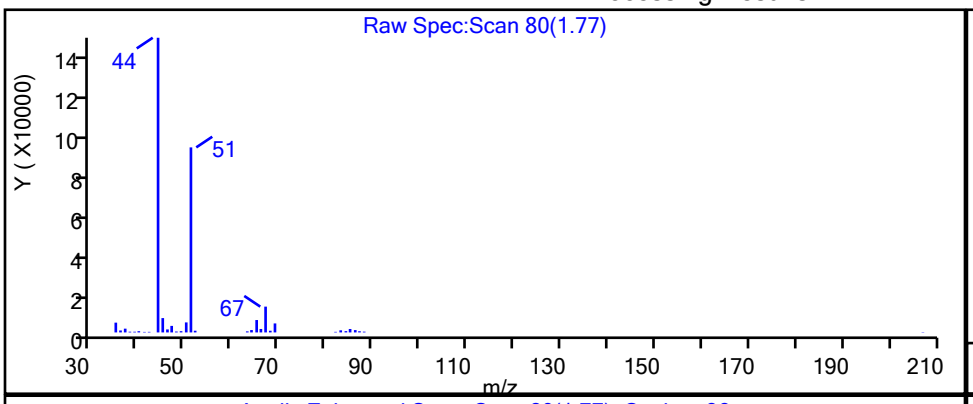
User Disabled Compound Report

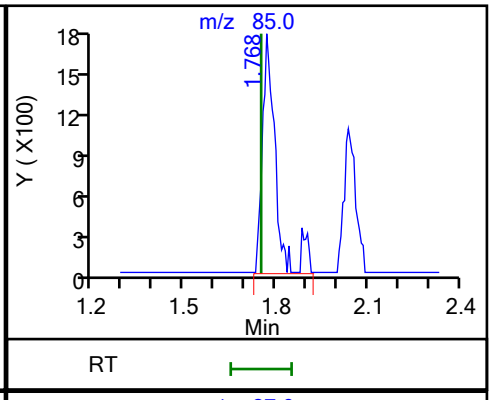
Eurofins Lancaster Laboratories Environment Testing, LLC

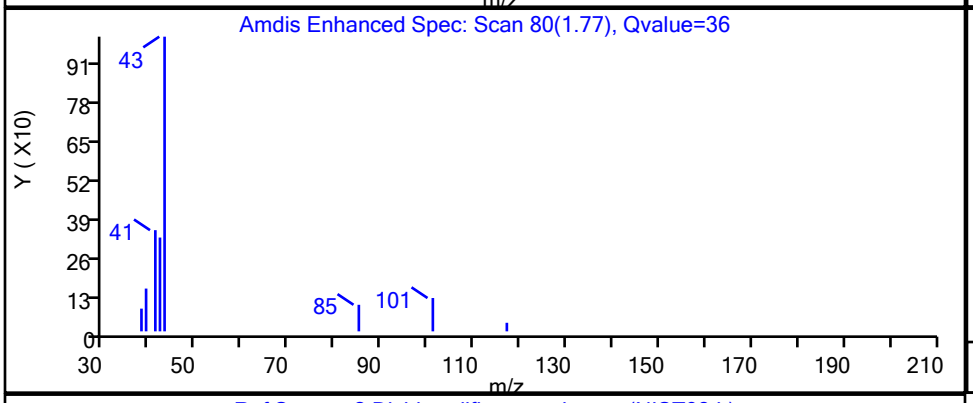
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

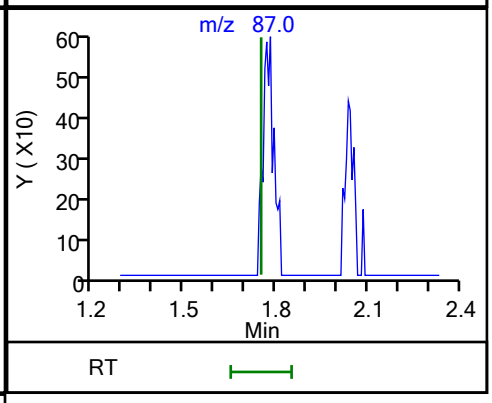
2 Dichlorodifluoromethane, CAS: 75-71-8

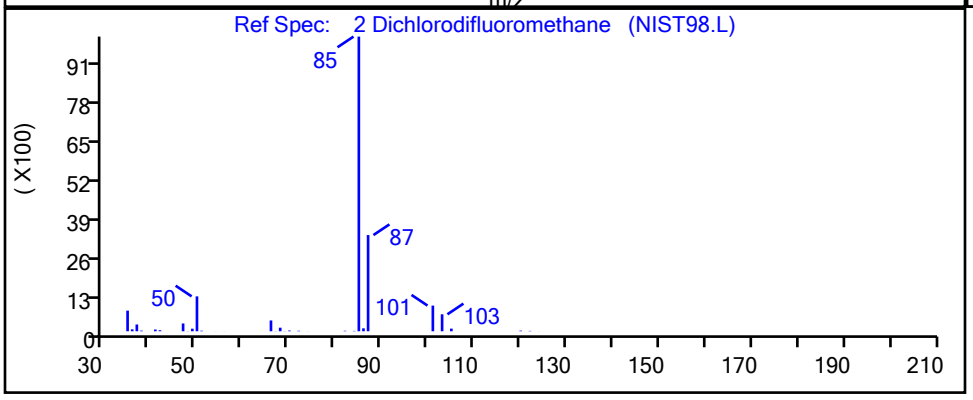
Processing Results











RT	Mass	Response	Amount
1.77	85.00	5072	0.080224
1.75	87.00	0	

Reviewer: N9NA, 09-Jul-2025 09:13:19 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

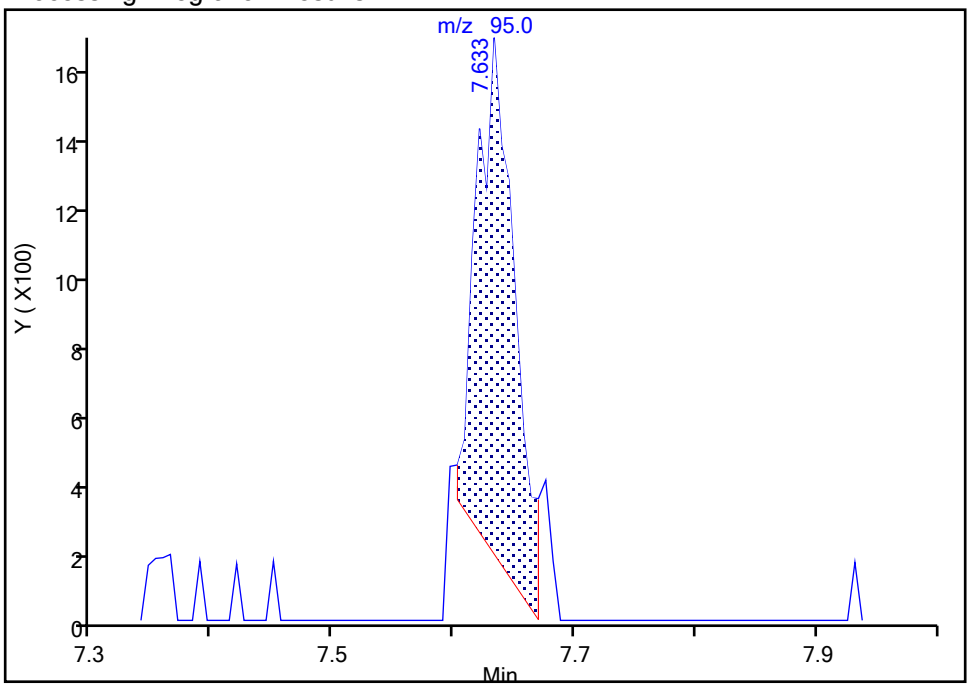
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

68 Trichloroethene, CAS: 79-01-6

Signal: 1

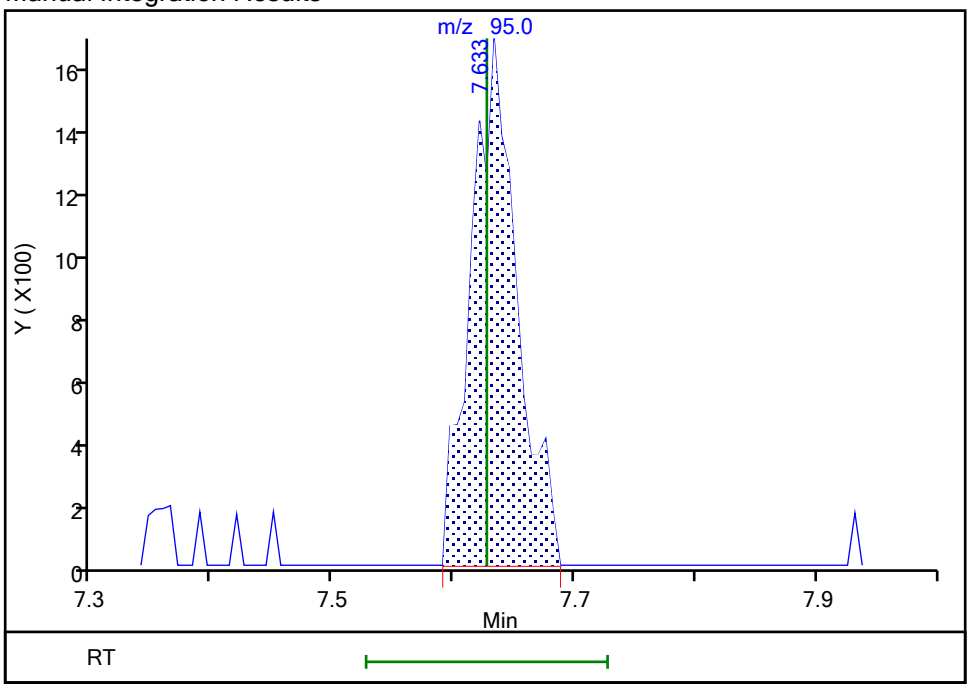
Processing Integration Results

RT: 7.63
Area: 3161
Amount: 0.054083
Amount Units: ug/l



Manual Integration Results

RT: 7.63
Area: 4255
Amount: 0.072801
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:14:00 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

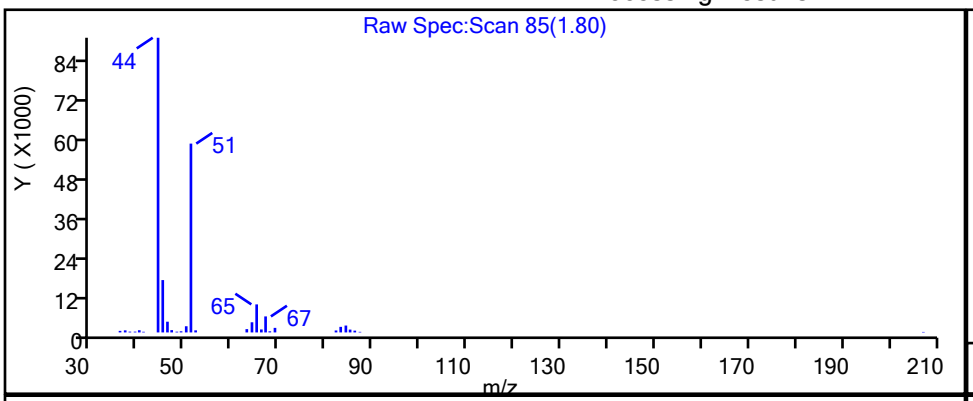
User Disabled Compound Report

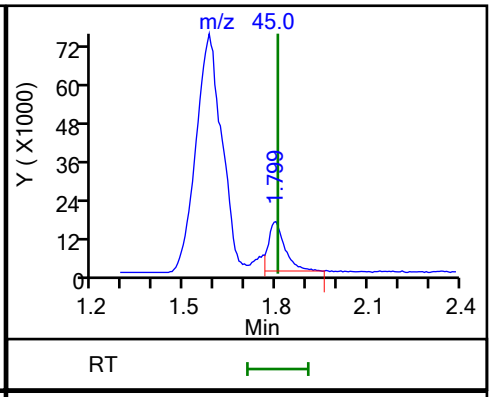
Eurofins Lancaster Laboratories Environment Testing, LLC

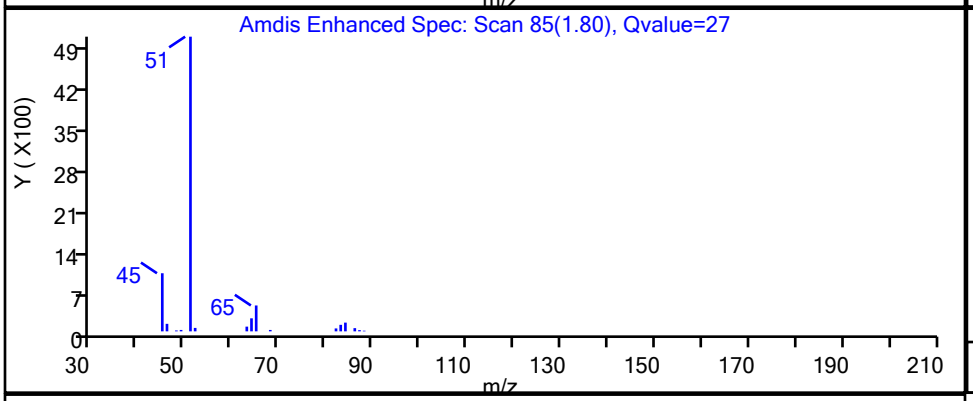
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X22.D				
Injection Date:	08-Jul-2025 17:35:30	Instrument ID:	10193		
Lims ID:	410-229895-A-5	Lab Sample ID:	410-229895-5		
Client ID:	16WDUP				
Operator ID:	ecr105096	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

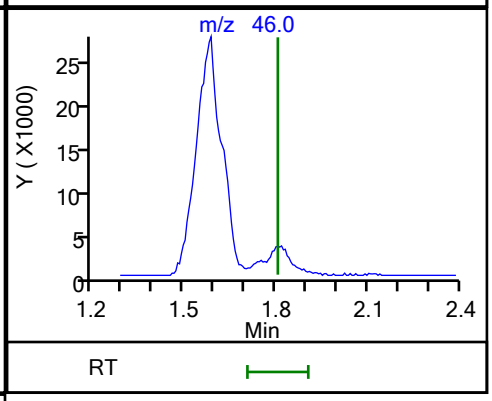
4 Dimethyl ether, CAS: 115-10-6

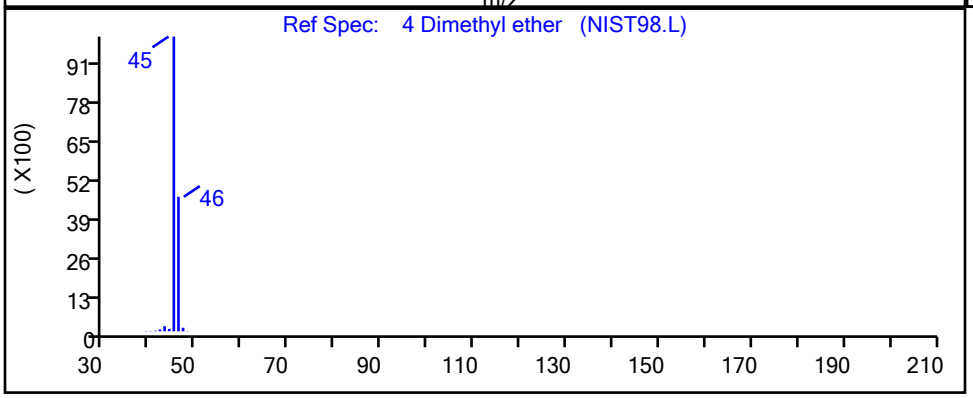
Processing Results











RT	Mass	Response	Amount
1.80	45.00	58545	0.669922
1.80	46.00	0	

Reviewer: N9NA, 09-Jul-2025 09:13:21 07:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1B Lab Sample ID: 410-229895-6

Matrix: Water Lab File ID: CL08X23.D

Analysis Method: 8260D Date Collected: 06/26/2025 11:20

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 17:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND	cn	1.0	
78-93-3	2-Butanone	ND	*3 cn	10	
56-23-5	Carbon tetrachloride	ND	cn	1.0	
75-00-3	Chloroethane	ND	cn	1.0	
74-87-3	Chloromethane	ND	cn	1.0	
75-71-8	Dichlorodifluoromethane	ND	cn	1.0	
75-34-3	1,1-Dichloroethane	ND	cn	1.0	
75-35-4	1,1-Dichloroethene	ND	cn	1.0	
100-41-4	Ethylbenzene	ND	cn	1.0	
60-29-7	Ethyl ether	ND	cn	10	
75-09-2	Methylene Chloride	ND	cn	1.0	
127-18-4	Tetrachloroethene	ND	cn	1.0	
109-99-9	Tetrahydrofuran	ND	*3 cn	25	
108-88-3	Toluene	ND	cn	1.0	
71-55-6	1,1,1-Trichloroethane	ND	cn	1.0	
79-01-6	Trichloroethene	ND	cn	1.0	
75-69-4	Trichlorofluoromethane	ND	cn	1.0	
75-01-4	Vinyl chloride	ND	cn	1.0	
1330-20-7	Xylenes, Total	ND	cn	3.0	
115-10-6	Dimethyl ether	ND	cn	10	
76-13-1	Freon 113	ND	cn	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	104	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	95	cn	80-120
2037-26-5	Toluene-d8 (Surr)	97	cn	80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X23.D
Lims ID: 410-229895-A-6
Client ID: 16WC1B
Sample Type: Client
Inject. Date: 08-Jul-2025 17:57:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-024
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:14:47 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:14:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.933				ND	
6 Vinyl chloride	62		2.031				ND	7
10 Chloroethane	64		2.360				ND	7
12 Trichlorofluoromethane	101		2.658				ND	
14 Ethyl ether	59	2.829	2.817	0.012	92	16595	0.4209	
18 1,1-Dichloroethene	96		3.079				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84		3.646				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.933	3.664	0.269	65	76274	50.0	sa
37 1,1-Dichloroethane	63	4.652	4.646	0.006	2	3487	0.0381	
42 2-Butanone (MEK)	43		5.475				ND	7
49 Tetrahydrofuran	71		5.841				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	94	469667	10.4	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	98	95554	10.2	
60 Benzene	78		6.713				ND	7
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1916511	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1880006	9.71	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166		9.919				ND	7
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1474703	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	694747	9.50	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	812875	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00114 Amount Added: 1.00 Units: uL Run Reagent

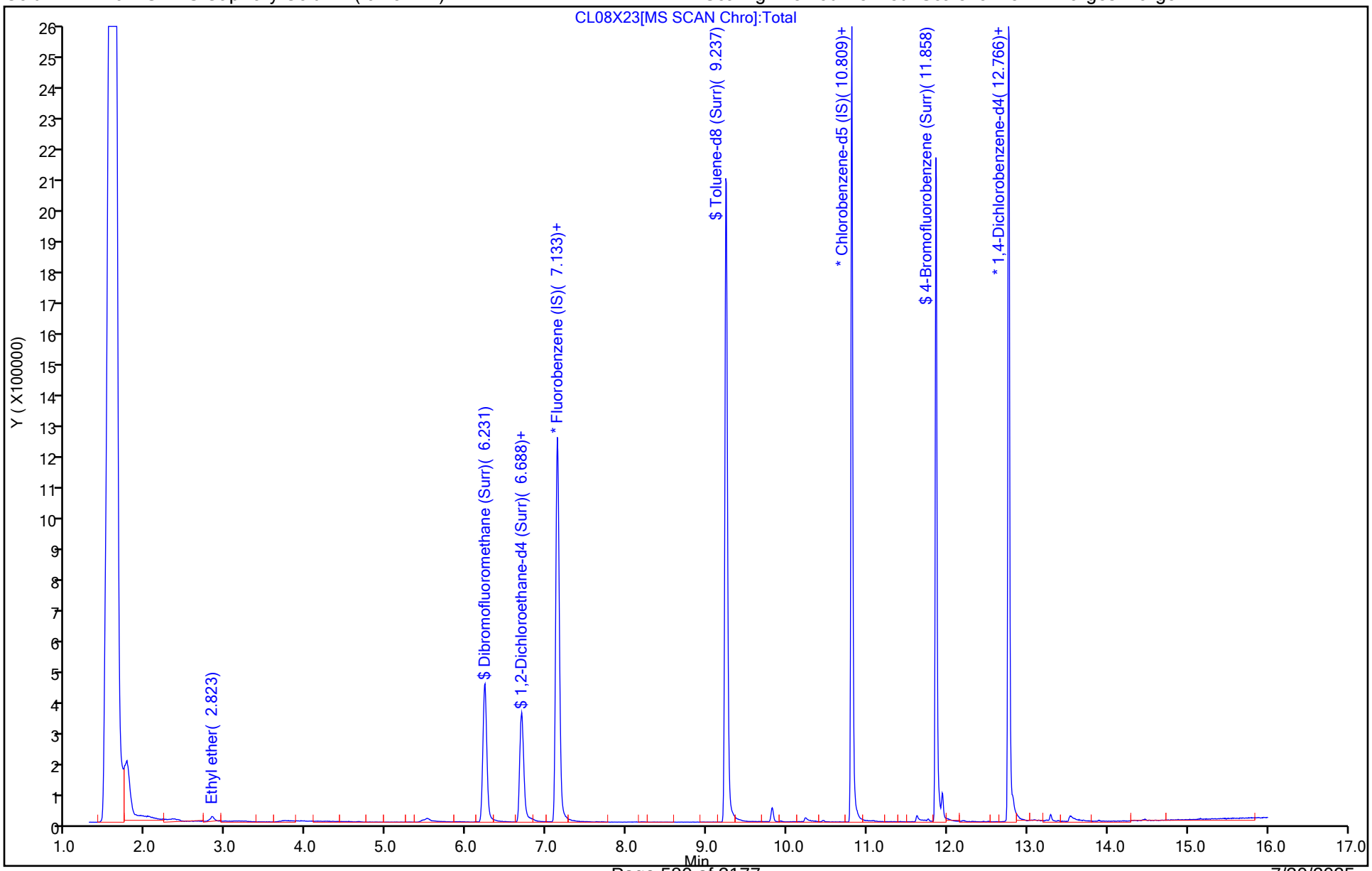
Report Date: 09-Jul-2025 09:14:48 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X23.D

Injection Date:	08-Jul-2025 17:57:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-6	Lab Sample ID:	410-229895-6	Worklist Smp#:	24
Client ID:	16WC1B				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X23.D				
Lims ID:	410-229895-A-6				
Client ID:	16WC1B				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 17:57:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-024				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:14:47	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:14:47

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.4	103.85
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.38
$ 83 Toluene-d8 (Surr)	10.0	9.71	97.06
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.50	94.99

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

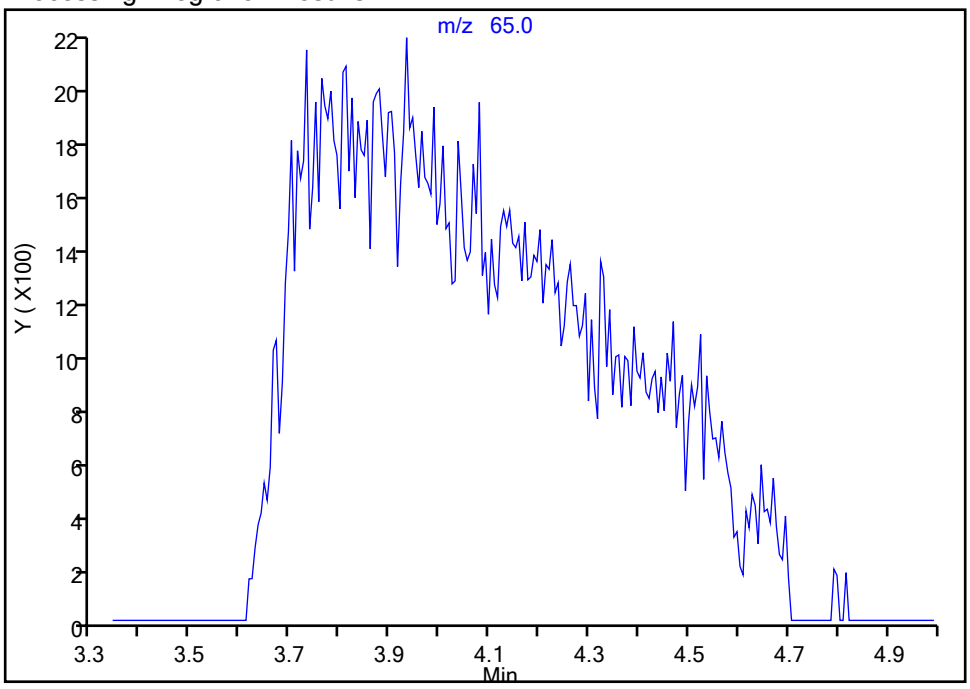
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X23.D				
Injection Date:	08-Jul-2025 17:57:30	Instrument ID:	10193		
Lims ID:	410-229895-A-6	Lab Sample ID:	410-229895-6		
Client ID:	16WC1B				
Operator ID:	ecr105096	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

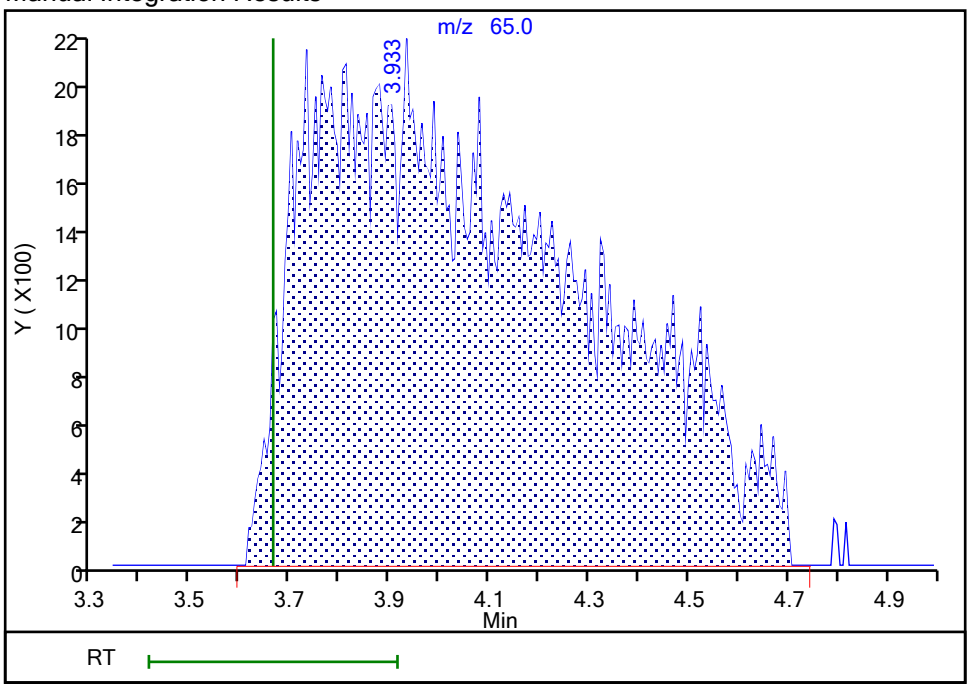
Not Detected
Expected RT: 3.66

Processing Integration Results



Manual Integration Results

RT: 3.93
Area: 76274
Amount: 50.000000
Amount Units: ug/l



Reviewer: N9NA, 09-Jul-2025 09:14:23 07:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1B RA
Lab Sample ID: 410-229895-6 RA

Matrix: Water
Lab File ID: CL09X16.D

Analysis Method: 8260D
Date Collected: 06/26/2025 11:20

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 15:14

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	*Benzene*	*ND*		*1.0*	
78-93-3	*2-Butanone*	*ND*	**3*	*10*	
56-23-5	*Carbon tetrachloride*	*ND*		*1.0*	
75-00-3	*Chloroethane*	*ND*		*1.0*	
74-87-3	*Chloromethane*	*ND*		*1.0*	
75-71-8	*Dichlorodifluoromethane*	*ND*	*cn*	*1.0*	
75-34-3	*1,1-Dichloroethane*	*ND*		*1.0*	
75-35-4	*1,1-Dichloroethene*	*ND*		*1.0*	
100-41-4	*Ethylbenzene*	*ND*		*1.0*	
60-29-7	*Ethyl ether*	*ND*		*10*	
75-09-2	*Methylene Chloride*	*ND*		*1.0*	
127-18-4	*Tetrachloroethene*	*ND*		*1.0*	
109-99-9	*Tetrahydrofuran*	*ND*	**3*	*25*	
108-88-3	*Toluene*	*ND*		*1.0*	
71-55-6	*1,1,1-Trichloroethane*	*ND*		*1.0*	
79-01-6	*Trichloroethene*	*ND*		*1.0*	
75-69-4	*Trichlorofluoromethane*	*ND*		*1.0*	
75-01-4	*Vinyl chloride*	*ND*		*1.0*	
1330-20-7	*Xylenes, Total*	*ND*		*3.0*	
115-10-6	*Dimethyl ether*	*ND*		*10*	
76-13-1	*Freon 113*	*ND*		*1.0*	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X16.D
Lims ID: 410-229895-C-6 RA
Client ID: 16WC1B
Sample Type: Client
Inject. Date: 09-Jul-2025 15:14:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-017
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:14:02 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:14:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.762				ND	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.945				ND	
6 Vinyl chloride	62		2.043				ND	
10 Chloroethane	64		2.372				ND	7
12 Trichlorofluoromethane	101		2.671				ND	
14 Ethyl ether	59	2.829	2.823	0.006	92	14994	0.4102	
18 1,1-Dichloroethene	96		3.091				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.140				ND	
30 Methylene Chloride	84		3.658				ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.732	3.671	0.061	73	67247	50.0	s
37 1,1-Dichloroethane	63	4.658	4.652	0.006	84	3294	0.0388	
42 2-Butanone (MEK)	43		5.481				ND	
49 Tetrahydrofuran	71		5.853				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	435340	10.4	
53 1,1,1-Trichloroethane	97		6.231				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.694	-0.012	98	89323	10.3	
60 Benzene	78	6.725	6.719	0.006	46	3503	0.0173	7a
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	1777004	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1748486	9.78	
84 Toluene	92		9.328				ND	7
88 Tetrachloroethene	166		9.919				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1361480	10.0	
115 Ethylbenzene	91		10.931				ND	7
116 m-Xylene & p-Xylene	106		11.059				ND	7
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	624500	9.25	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	731044	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Review Flags

a - User Assigned ID

Reagents:

MSV_HP25_ISSS_00116 Amount Added: 1.00 Units: uL Run Reagent

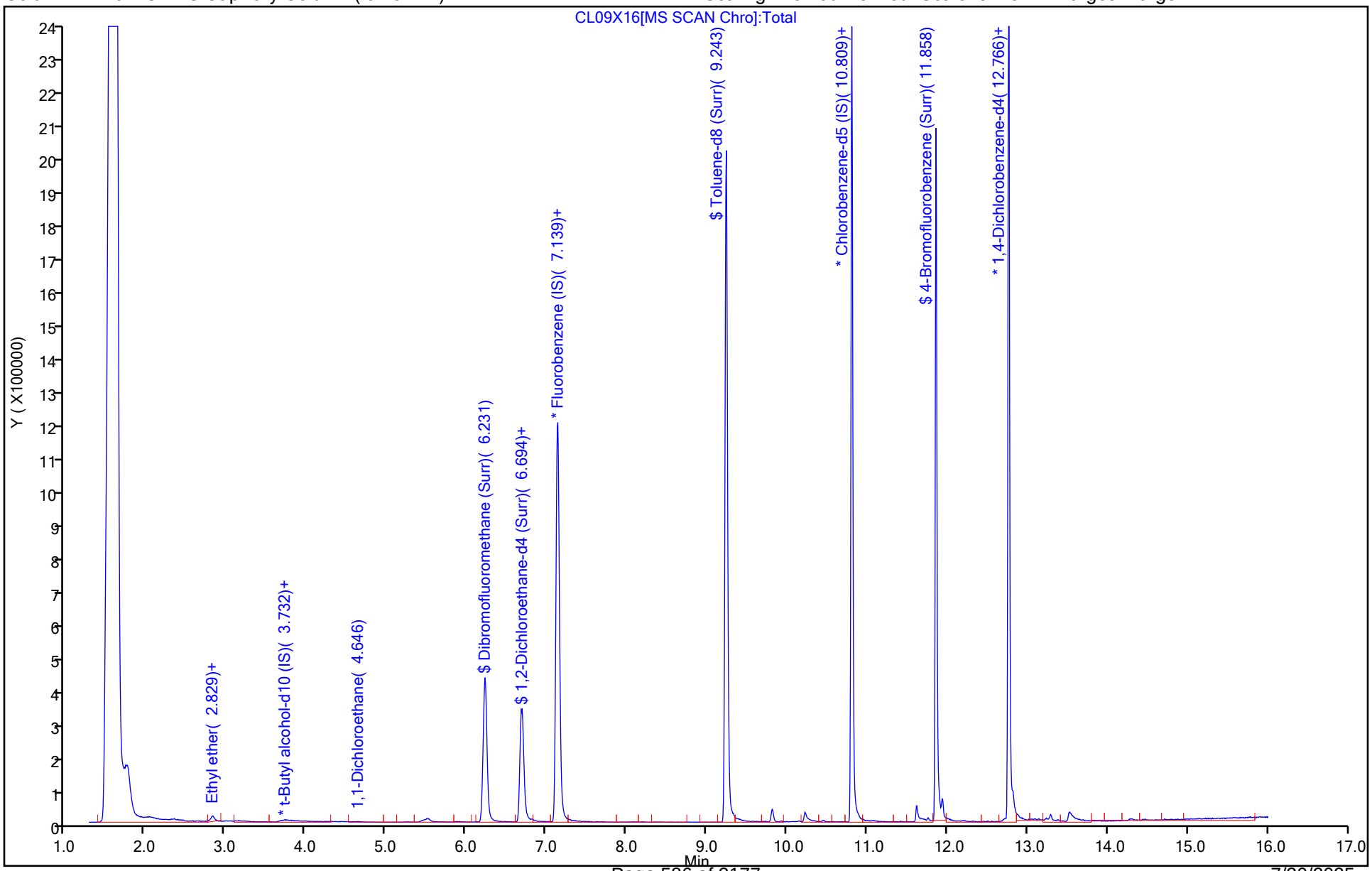
Report Date: 10-Jul-2025 12:14:03 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X16.D

Injection Date:	09-Jul-2025 15:14:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-C-6 RA	Lab Sample ID:	410-229895-6	Worklist Smp#:	17
Client ID:	16WC1B				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X16.D				
Lims ID:	410-229895-C-6 RA				
Client ID:	16WC1B				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 15:14:30	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152846-017				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	10-Jul-2025 12:14:02	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1609				

First Level Reviewer: N9NA Date: 10-Jul-2025 12:14:02

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.4	103.82
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.22
$ 83 Toluene-d8 (Surr)	10.0	9.78	97.78
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.25	92.48

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

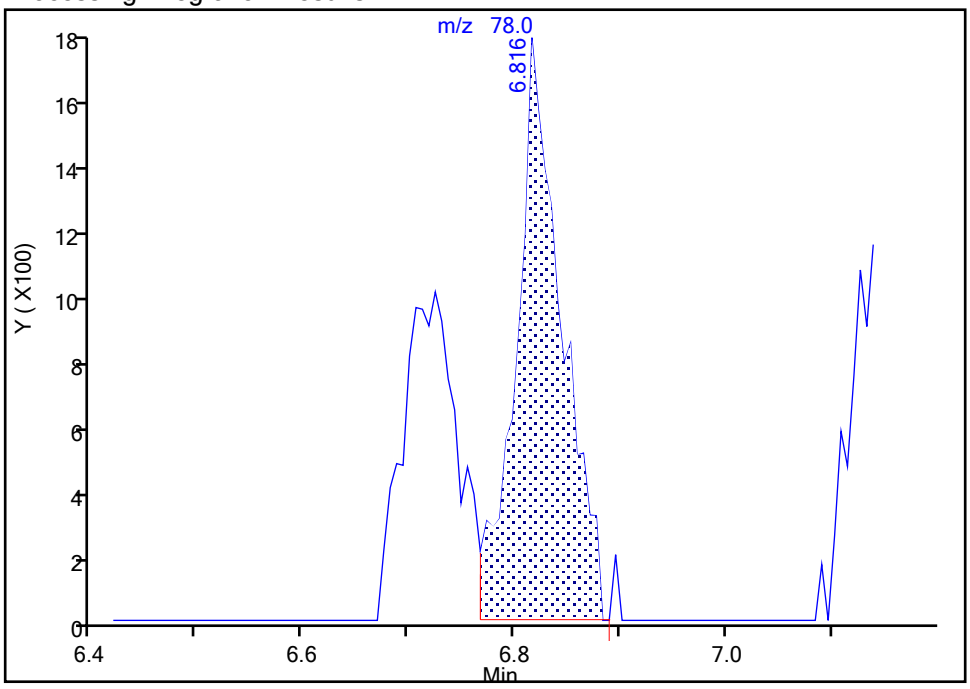
Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X16.D				
Injection Date:	09-Jul-2025 15:14:30	Instrument ID:	10193		
Lims ID:	410-229895-C-6 RA	Lab Sample ID:	410-229895-6		
Client ID:	16WC1B				
Operator ID:	ecr105096	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

60 Benzene, CAS: 71-43-2

Signal: 1

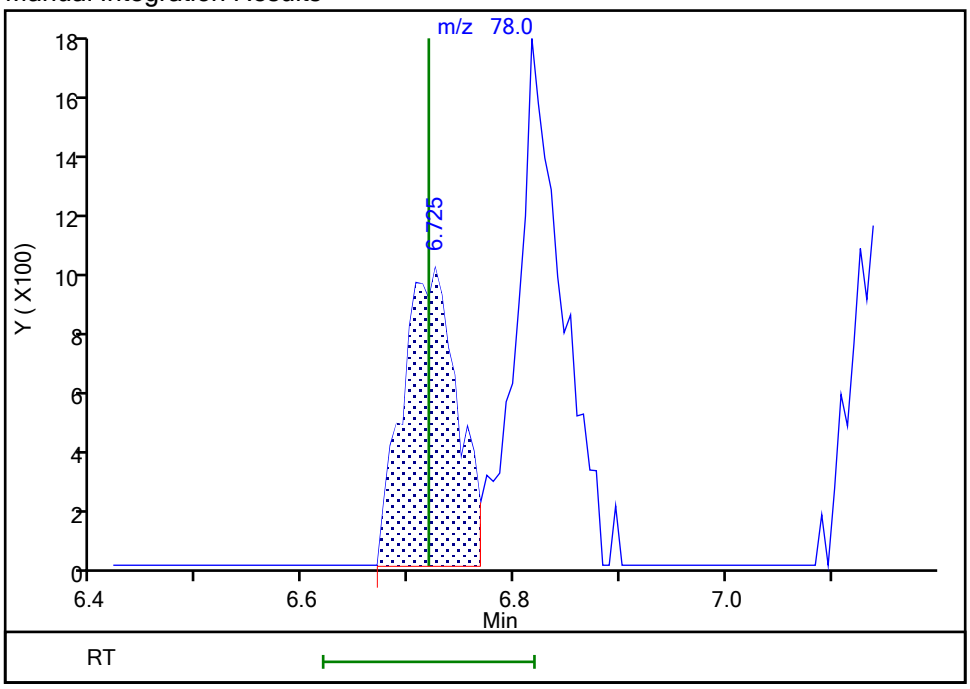
Processing Integration Results

RT: 6.82
Area: 5160
Amount: 0.025533
Amount Units: ug/l



Manual Integration Results

RT: 6.72
Area: 3503
Amount: 0.017334
Amount Units: ug/l



Reviewer: N9NA, 10-Jul-2025 12:13:57 07:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-2 Lab Sample ID: 410-229895-7

Matrix: Water Lab File ID: CL08X24.D

Analysis Method: 8260D Date Collected: 06/25/2025 11:15

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 18:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND	cn	1.0	
78-93-3	2-Butanone	ND	*3 cn	10	
56-23-5	Carbon tetrachloride	ND	cn	1.0	
75-00-3	Chloroethane	ND	cn	1.0	
74-87-3	Chloromethane	ND	cn	1.0	
75-71-8	Dichlorodifluoromethane	ND	cn	1.0	
75-34-3	1,1-Dichloroethane	ND	cn	1.0	
75-35-4	1,1-Dichloroethene	ND	cn	1.0	
100-41-4	Ethylbenzene	ND	cn	1.0	
60-29-7	Ethyl ether	ND	cn	10	
75-09-2	Methylene Chloride	ND	cn	1.0	
127-18-4	Tetrachloroethene	ND	cn	1.0	
109-99-9	Tetrahydrofuran	ND	*3 cn	25	
108-88-3	Toluene	ND	cn	1.0	
71-55-6	1,1,1-Trichloroethane	ND	cn	1.0	
79-01-6	Trichloroethene	ND	cn	1.0	
75-69-4	Trichlorofluoromethane	ND	cn	1.0	
75-01-4	Vinyl chloride	ND	cn	1.0	
1330-20-7	Xylenes, Total	ND	cn	3.0	
115-10-6	Dimethyl ether	ND	cn	10	
76-13-1	Freon 113	ND	cn	1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103	cn	80-120
1868-53-7	Dibromofluoromethane (Surr)	104	cn	80-120
460-00-4	4-Bromofluorobenzene (Surr)	93	cn	80-120
2037-26-5	Toluene-d8 (Surr)	96	cn	80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X24.D
Lims ID: 410-229895-A-7
Client ID: 16-2
Sample Type: Client
Inject. Date: 08-Jul-2025 18:19:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-025
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:14:47 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:15:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85		1.750				ND	
	4 Dimethyl ether	45		1.805				ND	
	5 Chloromethane	50		1.933				ND	7
	6 Vinyl chloride	62		2.031				ND	
	10 Chloroethane	64		2.360				ND	
	12 Trichlorofluoromethane	101		2.658				ND	
	14 Ethyl ether	59		2.817				ND	
	18 1,1-Dichloroethene	96		3.079				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
	30 Methylene Chloride	84		3.646				ND	
*	31 t-Butyl alcohol-d10 (IS)	65	3.719	3.664	0.055	67	73498	50.0	s
	37 1,1-Dichloroethane	63	4.658	4.646	0.012	41	7938	0.0872	
	42 2-Butanone (MEK)	43		5.475				ND	7
	49 Tetrahydrofuran	71		5.841				ND	
$	54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	468347	10.4	
	53 1,1,1-Trichloroethane	97		6.225				ND	
	56 Carbon tetrachloride	117		6.438				ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.682	0.000	99	95613	10.3	
	60 Benzene	78		6.713				ND	
*	65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1903783	10.0	
	68 Trichloroethene	95		7.627				ND	
$	83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1883331	9.65	
	84 Toluene	92		9.322				ND	
	88 Tetrachloroethene	166		9.919				ND	
*	111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1486227	10.0	
	115 Ethylbenzene	91		10.931				ND	
	116 m-Xylene & p-Xylene	106		11.053				ND	
S	117 Xylenes, Total	106		11.245				ND	7
	118 o-Xylene	106		11.401				ND	
$	124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	687534	9.33	
*	139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	811533	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

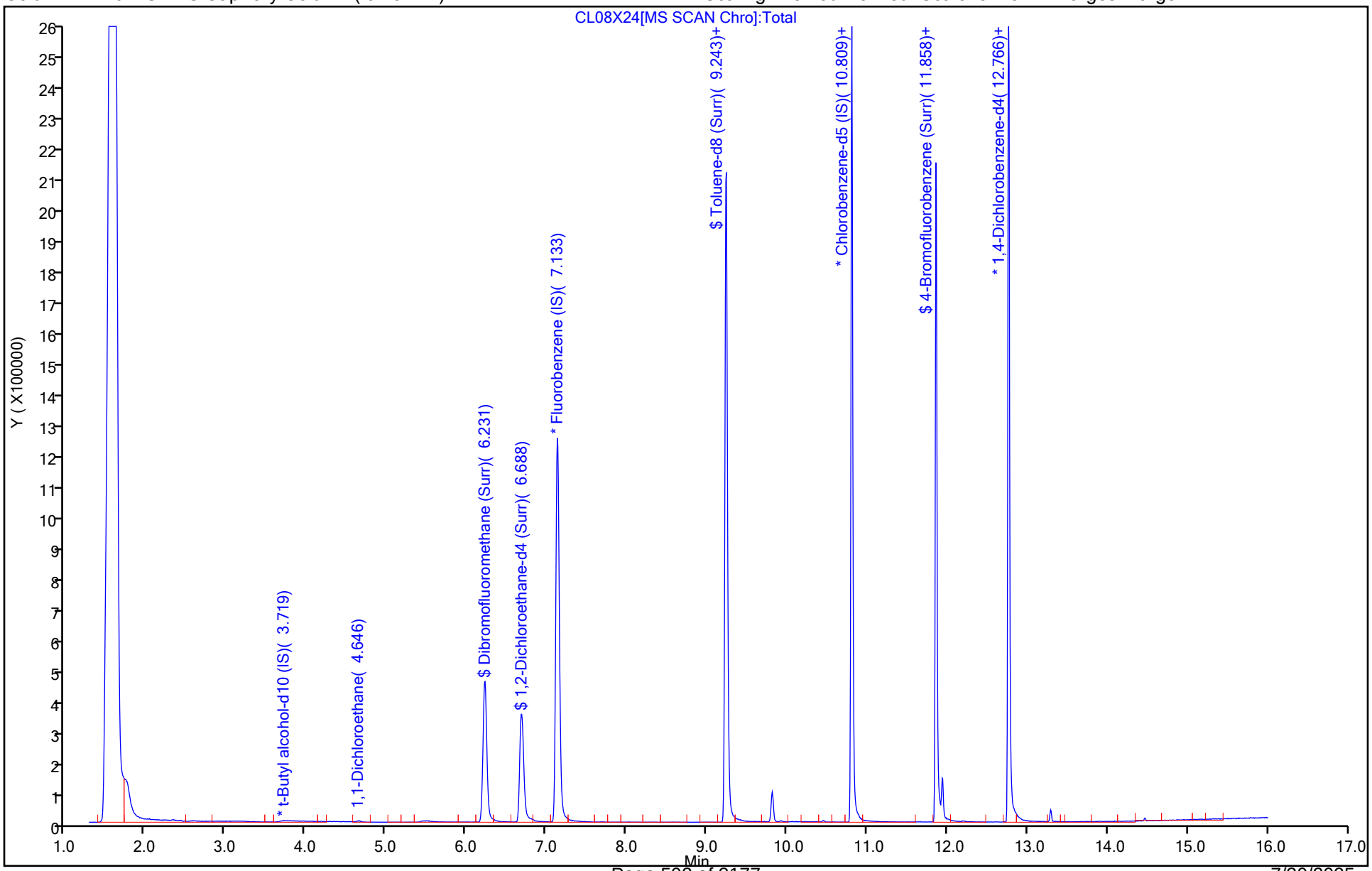
Report Date: 09-Jul-2025 09:15:09 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X24.D

Injection Date:	08-Jul-2025 18:19:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-7	Lab Sample ID:	410-229895-7	Worklist Smp#:	25
Client ID:	16-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X24.D				
Lims ID:	410-229895-A-7				
Client ID:	16-2				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 18:19:30	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-025				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:14:47	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:15:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.4	104.25
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.13
$ 83 Toluene-d8 (Surr)	10.0	9.65	96.48
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.33	93.27

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-2 RA
Lab Sample ID: 410-229895-7 RA

Matrix: Water
Lab File ID: CL09X17.D

Analysis Method: 8260D
Date Collected: 06/25/2025 11:15

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 15:36

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	*Benzene*	*ND*		*1.0*	
78-93-3	*2-Butanone*	*ND*	**3*	*10*	
56-23-5	*Carbon tetrachloride*	*ND*		*1.0*	
75-00-3	*Chloroethane*	*ND*		*1.0*	
74-87-3	*Chloromethane*	*ND*		*1.0*	
75-71-8	*Dichlorodifluoromethane*	*ND*	*cn*	*1.0*	
75-34-3	*1,1-Dichloroethane*	*ND*		*1.0*	
75-35-4	*1,1-Dichloroethene*	*ND*		*1.0*	
100-41-4	*Ethylbenzene*	*ND*		*1.0*	
60-29-7	*Ethyl ether*	*ND*		*10*	
75-09-2	*Methylene Chloride*	*ND*		*1.0*	
127-18-4	*Tetrachloroethene*	*ND*		*1.0*	
109-99-9	*Tetrahydrofuran*	*ND*	**3*	*25*	
108-88-3	*Toluene*	*ND*		*1.0*	
71-55-6	*1,1,1-Trichloroethane*	*ND*		*1.0*	
79-01-6	*Trichloroethene*	*ND*		*1.0*	
75-69-4	*Trichlorofluoromethane*	*ND*		*1.0*	
75-01-4	*Vinyl chloride*	*ND*		*1.0*	
1330-20-7	*Xylenes, Total*	*ND*		*3.0*	
115-10-6	*Dimethyl ether*	*ND*		*10*	
76-13-1	*Freon 113*	*ND*		*1.0*	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X17.D
Lims ID: 410-229895-C-7 RA
Client ID: 16-2
Sample Type: Client
Inject. Date: 09-Jul-2025 15:36:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-018
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:14:02 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:23:12

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85		1.762				ND	
	4 Dimethyl ether	45		1.805				ND	
	5 Chloromethane	50		1.945				ND	7
	6 Vinyl chloride	62		2.043				ND	
	10 Chloroethane	64		2.372				ND	
	12 Trichlorofluoromethane	101		2.671				ND	
	14 Ethyl ether	59		2.823				ND	7
	18 1,1-Dichloroethene	96		3.091				ND	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.140				ND	
	30 Methylene Chloride	84		3.658				ND	
*	31 t-Butyl alcohol-d10 (IS)	65	3.731	3.671	0.060	60	76340	50.0	s
	37 1,1-Dichloroethane	63	4.652	4.652	0.000	95	7501	0.0844	
	42 2-Butanone (MEK)	43		5.481				ND	
	49 Tetrahydrofuran	71		5.853				ND	
$	54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	459566	10.5	
	53 1,1,1-Trichloroethane	97		6.231				ND	
	56 Carbon tetrachloride	117		6.438				ND	
$	59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	98	91777	10.1	
	60 Benzene	78		6.719				ND	
*	65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	1858997	10.0	
	68 Trichloroethene	95		7.627				ND	
$	83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	93	1829559	9.75	
	84 Toluene	92		9.328				ND	7
	88 Tetrachloroethene	166		9.919				ND	7
*	111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1428535	10.0	
	115 Ethylbenzene	91		10.931				ND	
	116 m-Xylene & p-Xylene	106		11.059				ND	
S	117 Xylenes, Total	106		11.245				ND	7
	118 o-Xylene	106		11.401				ND	
$	124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	652810	9.21	
*	139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	783780	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

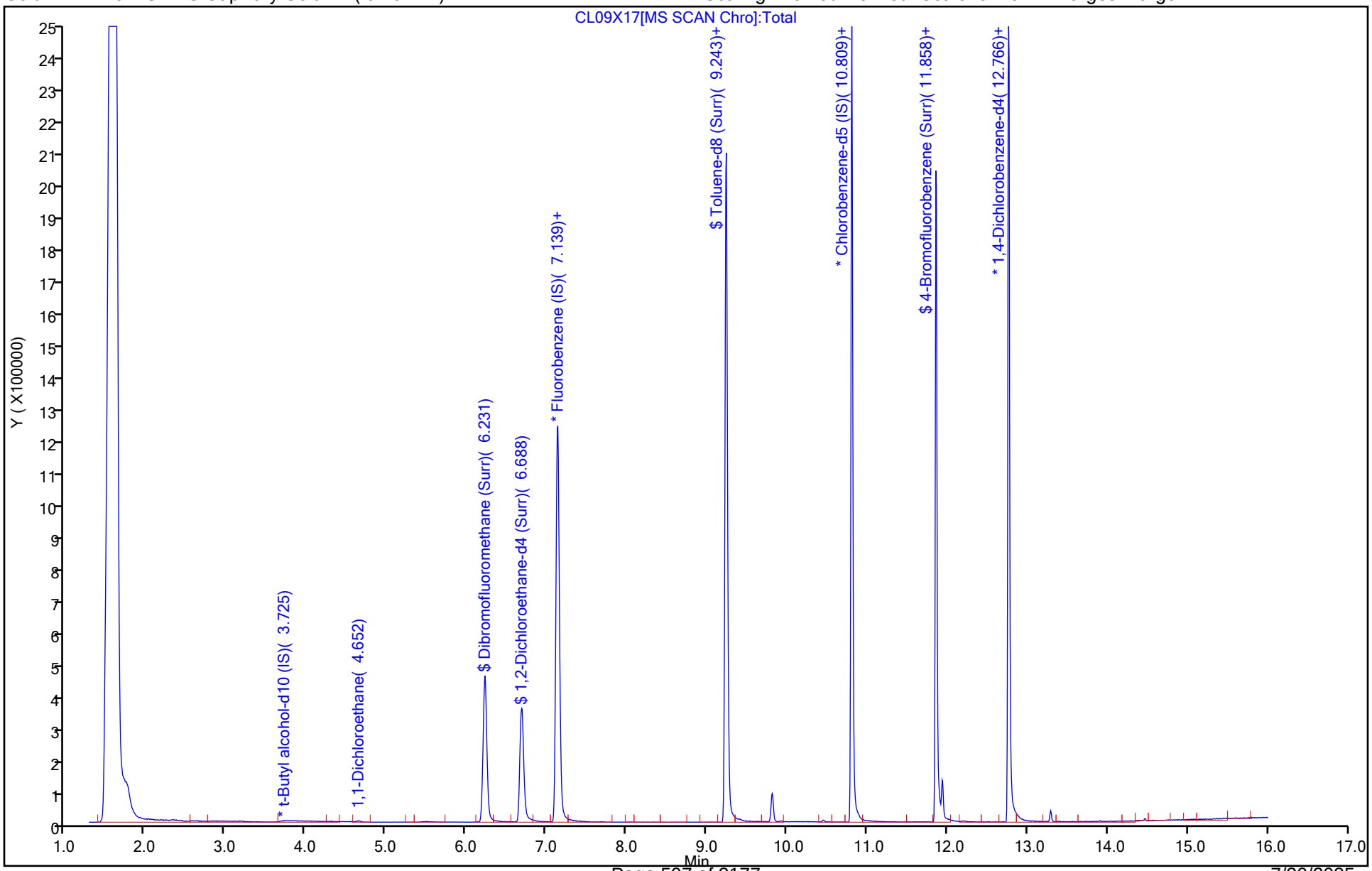
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Jul-2025 12:23:13 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X17.D				
Injection Date:	09-Jul-2025 15:36:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-C-7 RA	Lab Sample ID:	410-229895-7	Worklist Smp#:	18
Client ID:	16-2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X17.D
Lims ID: 410-229895-C-7 RA
Client ID: 16-2
Sample Type: Client
Inject. Date: 09-Jul-2025 15:36:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-018
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:14:02 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:23:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.5	104.76
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	101.38
$ 83 Toluene-d8 (Surr)	10.0	9.75	97.51
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.21	92.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-3
Lab Sample ID: 410-229895-8

Matrix: Water
Lab File ID: CL09X18.D

Analysis Method: 8260D
Date Collected: 06/25/2025 13:00

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 15:59

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND	cn	1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	ND		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X18.D
Lims ID: 410-229895-C-8 RA
Client ID: 16-3
Sample Type: Client
Inject. Date: 09-Jul-2025 15:59:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-019
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:23:49 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:23:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	37	11166	0.1964	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.945				ND	7
6 Vinyl chloride	62		2.043				ND	
10 Chloroethane	64		2.372				ND	
12 Trichlorofluoromethane	101	2.665	2.671	-0.006	1	3630	0.0482	M
14 Ethyl ether	59		2.823				ND	
18 1,1-Dichloroethene	96		3.091				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.140				ND	
30 Methylene Chloride	84		3.658				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.756	3.671	0.085	93	89782	50.0	
37 1,1-Dichloroethane	63		4.652				ND	
42 2-Butanone (MEK)	43		5.481				ND	7
49 Tetrahydrofuran	71		5.853				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	434901	10.6	
53 1,1,1-Trichloroethane	97		6.231				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	90694	10.7	
60 Benzene	78		6.719				ND	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	1746259	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1704738	9.63	
84 Toluene	92		9.328				ND	7
88 Tetrachloroethene	166		9.919				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1348079	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.059				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	616629	9.22	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	724422	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

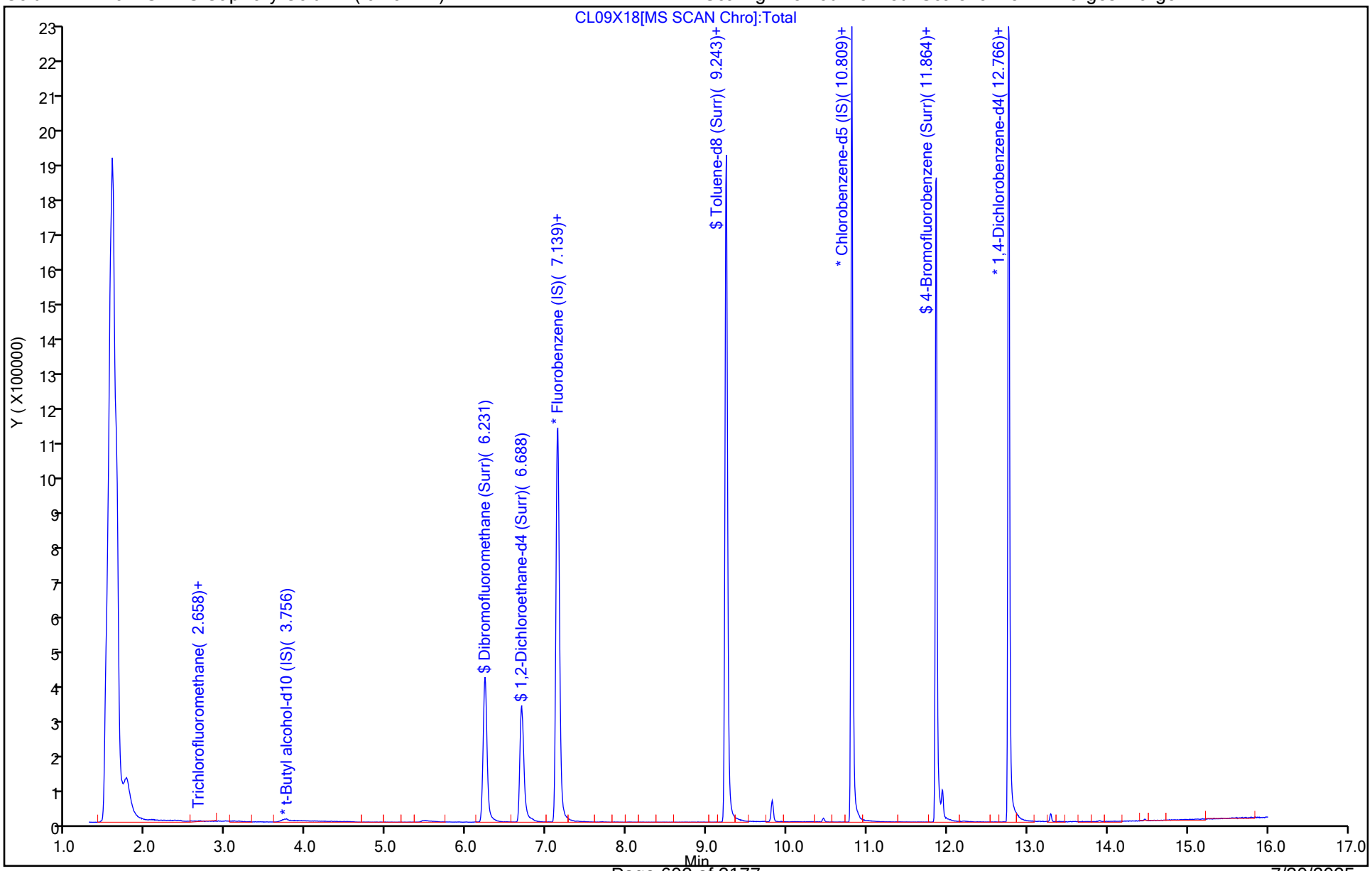
MSV_HP25_ISSS_00116 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 12:23:49 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X18.D				
Injection Date:	09-Jul-2025 15:59:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-C-8 RA	Lab Sample ID:	410-229895-8	Worklist Smp#:	19
Client ID:	16-3				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X18.D				
Lims ID:	410-229895-C-8 RA				
Client ID:	16-3				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 15:59:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152846-019				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	10-Jul-2025 12:23:49	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1609				

First Level Reviewer: N9NA Date: 10-Jul-2025 12:23:49

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.54
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	106.65
$ 83 Toluene-d8 (Surr)	10.0	9.63	96.28
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.22	92.23

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

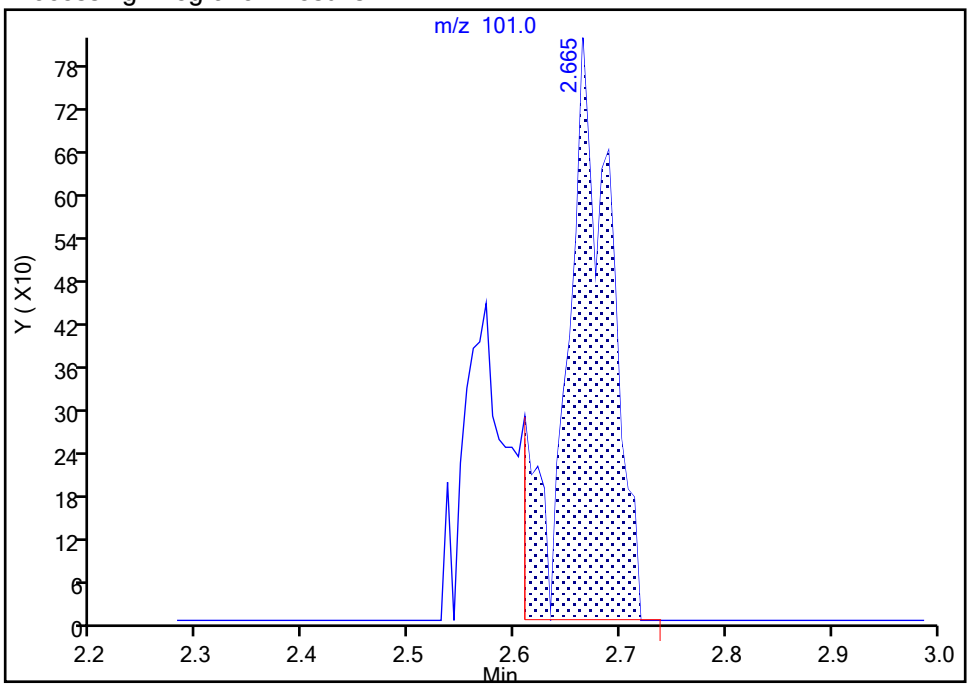
Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X18.D				
Injection Date:	09-Jul-2025 15:59:30	Instrument ID:	10193		
Lims ID:	410-229895-C-8 RA	Lab Sample ID:	410-229895-8		
Client ID:	16-3				
Operator ID:	ecr105096	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

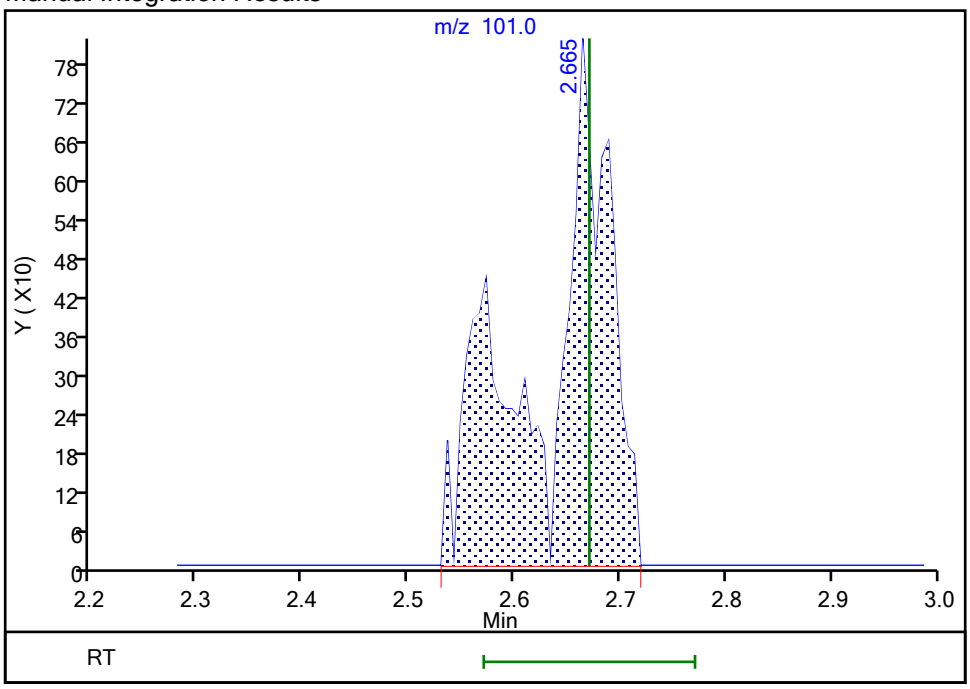
Processing Integration Results

RT: 2.66
Area: 2453
Amount: 0.032540
Amount Units: ug/l



Manual Integration Results

RT: 2.66
Area: 3630
Amount: 0.048154
Amount Units: ug/l



Reviewer: N9NA, 10-Jul-2025 12:23:41 07:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-5
Lab Sample ID: 410-229895-9

Matrix: Water
Lab File ID: CL08X26.D

Analysis Method: 8260D
Date Collected: 06/25/2025 09:15

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 19:04

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	ND		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X26.D
Lims ID: 410-229895-A-9
Client ID: 16-5
Sample Type: Client
Inject. Date: 08-Jul-2025 19:04:30 ALS Bottle#: 26 Worklist Smp#: 27
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-027
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:15:49 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:16:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	
4 Dimethyl ether	45		1.805				ND	7
5 Chloromethane	50		1.933				ND	
6 Vinyl chloride	62		2.031				ND	
10 Chloroethane	64		2.360				ND	
12 Trichlorofluoromethane	101		2.658				ND	7
14 Ethyl ether	59		2.817				ND	
18 1,1-Dichloroethene	96		3.079				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84		3.646				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.701	3.664	0.037	94	109424	50.0	
37 1,1-Dichloroethane	63	4.664	4.646	0.018	90	2321	0.0268	
42 2-Butanone (MEK)	43	5.506	5.475	0.031	27	7300	0.7347	
49 Tetrahydrofuran	71		5.841				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	93	459346	10.7	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	93432	10.6	
60 Benzene	78		6.713				ND	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1813969	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1777411	9.54	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166		9.919				ND	7
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1418593	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	650983	9.25	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	772461	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

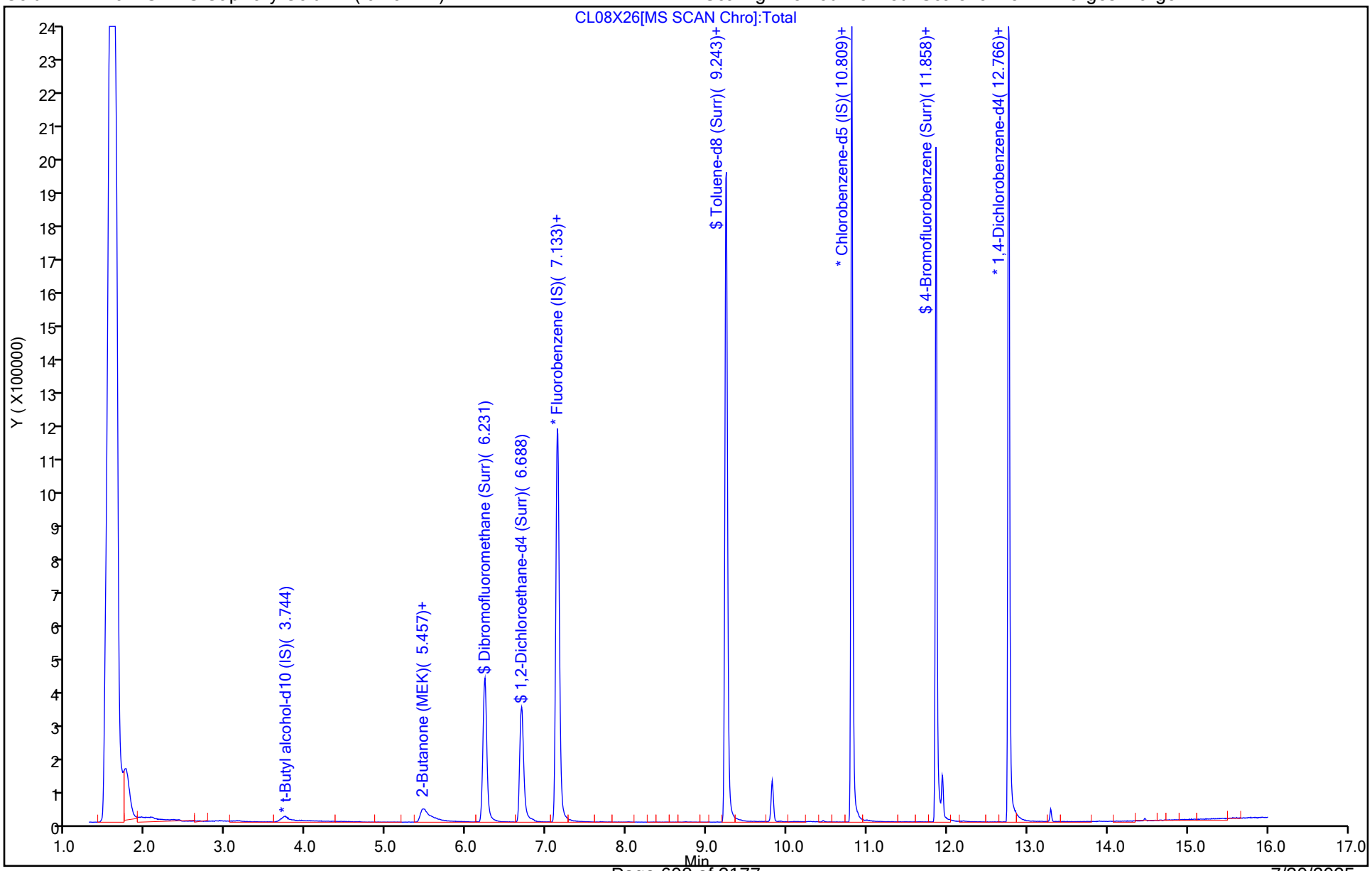
Report Date: 09-Jul-2025 09:16:24 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X26.D

Injection Date:	08-Jul-2025 19:04:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-9	Lab Sample ID:	410-229895-9	Worklist Smp#:	27
Client ID:	16-5				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X26.D				
Lims ID:	410-229895-A-9				
Client ID:	16-5				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 19:04:30	ALS Bottle#:	26	Worklist Smp#:	27
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-027				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:15:49	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:16:24

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.7	107.31
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.77
$ 83 Toluene-d8 (Surr)	10.0	9.54	95.40
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.25	92.52

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC2B Lab Sample ID: 410-229895-10

Matrix: Water Lab File ID: CL08X27.D

Analysis Method: 8260D Date Collected: 06/25/2025 10:20

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 19:26

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	ND		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X27.D
Lims ID: 410-229895-A-10
Client ID: 16WC2B
Sample Type: Client
Inject. Date: 08-Jul-2025 19:26:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-028
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:15:49 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:16:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.933				ND	
6 Vinyl chloride	62		2.031				ND	
10 Chloroethane	64		2.360				ND	
12 Trichlorofluoromethane	101		2.658				ND	
14 Ethyl ether	59		2.817				ND	7
18 1,1-Dichloroethene	96		3.079				ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84		3.646				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.664	0.000	95	117903	50.0	
37 1,1-Dichloroethane	63		4.646				ND	
42 2-Butanone (MEK)	43		5.475				ND	7
49 Tetrahydrofuran	71		5.841				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	457602	10.9	
53 1,1,1-Trichloroethane	97	6.225	6.225	0.000	59	14288	0.1881	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	91633	10.5	
60 Benzene	78		6.713				ND	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1786638	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.236	9.243	-0.007	93	1753425	9.60	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166		9.919				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1390409	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	636375	9.23	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	751001	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

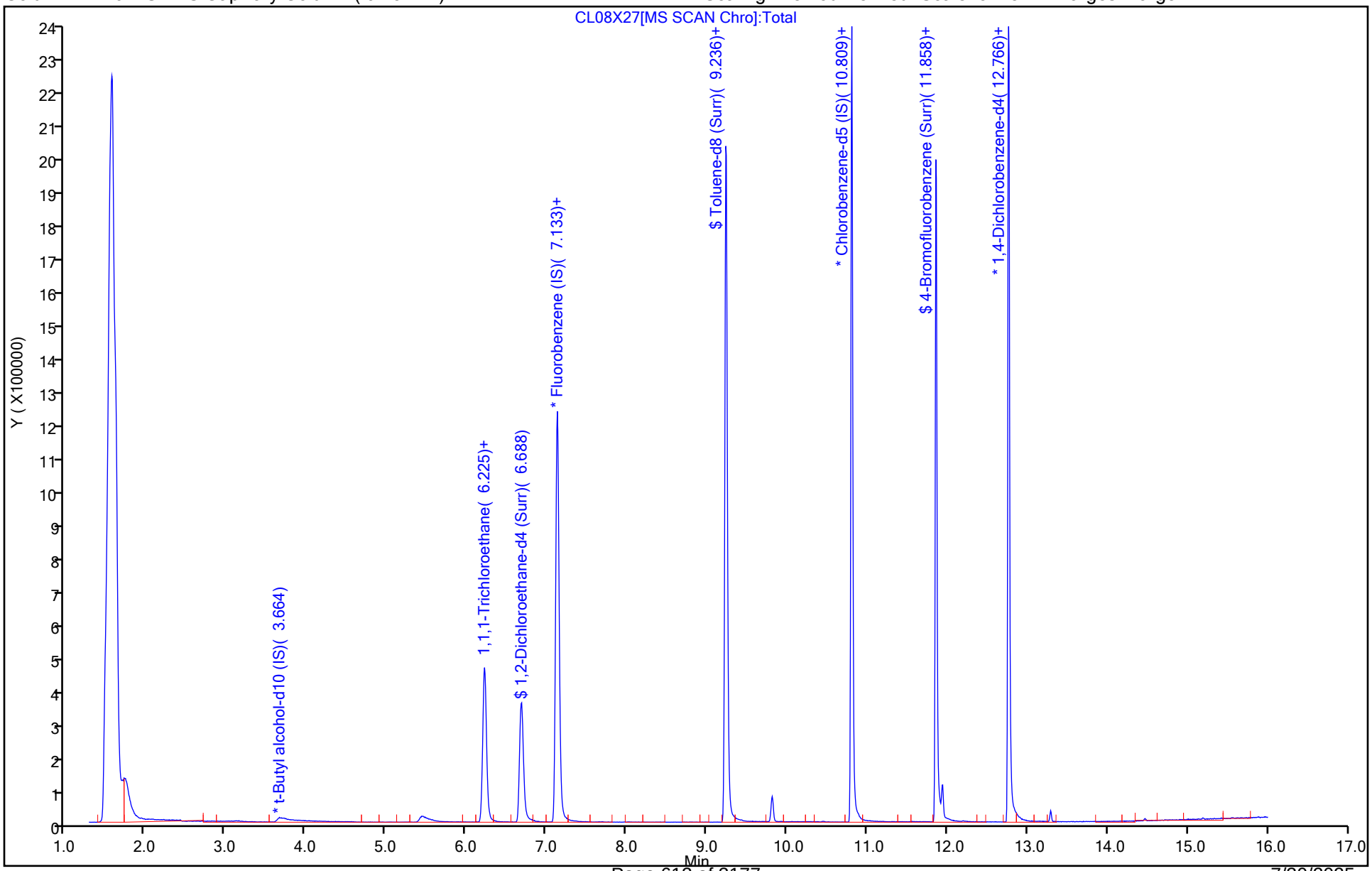
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 09-Jul-2025 09:16:51 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X27.D				
Injection Date:	08-Jul-2025 19:26:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-10	Lab Sample ID:	410-229895-10	Worklist Smp#:	28
Client ID:	16WC2B				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X27.D				
Lims ID:	410-229895-A-10				
Client ID:	16WC2B				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 19:26:30	ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-028				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:15:49	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:16:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.9	108.54
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.32
$ 83 Toluene-d8 (Surr)	10.0	9.60	96.02
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.23	92.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16SPRING Lab Sample ID: 410-229895-11

Matrix: Water Lab File ID: CL08X28.D

Analysis Method: 8260D Date Collected: 06/25/2025 09:25

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 19:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	ND		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X28.D
Lims ID: 410-229895-A-11
Client ID: 16SPRING
Sample Type: Client
Inject. Date: 08-Jul-2025 19:48:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-029
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:15:49 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:17:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.933				ND	
6 Vinyl chloride	62		2.031				ND	
10 Chloroethane	64		2.360				ND	
12 Trichlorofluoromethane	101		2.658				ND	7
14 Ethyl ether	59	2.823	2.817	0.006	29	2168	0.0583	
18 1,1-Dichloroethene	96		3.079				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84		3.646				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.664	0.007	95	109770	50.0	
37 1,1-Dichloroethane	63	4.646	4.646	0.000	96	18248	0.2112	
42 2-Butanone (MEK)	43		5.475				ND	7
49 Tetrahydrofuran	71		5.841				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	457863	10.7	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.682	0.000	99	95450	10.8	
60 Benzene	78		6.713				ND	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1807763	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1774146	9.58	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166		9.919				ND	7
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1409361	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	634691	9.08	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	771091	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSV_HP25_ISSS_00114 Amount Added: 1.00 Units: uL Run Reagent

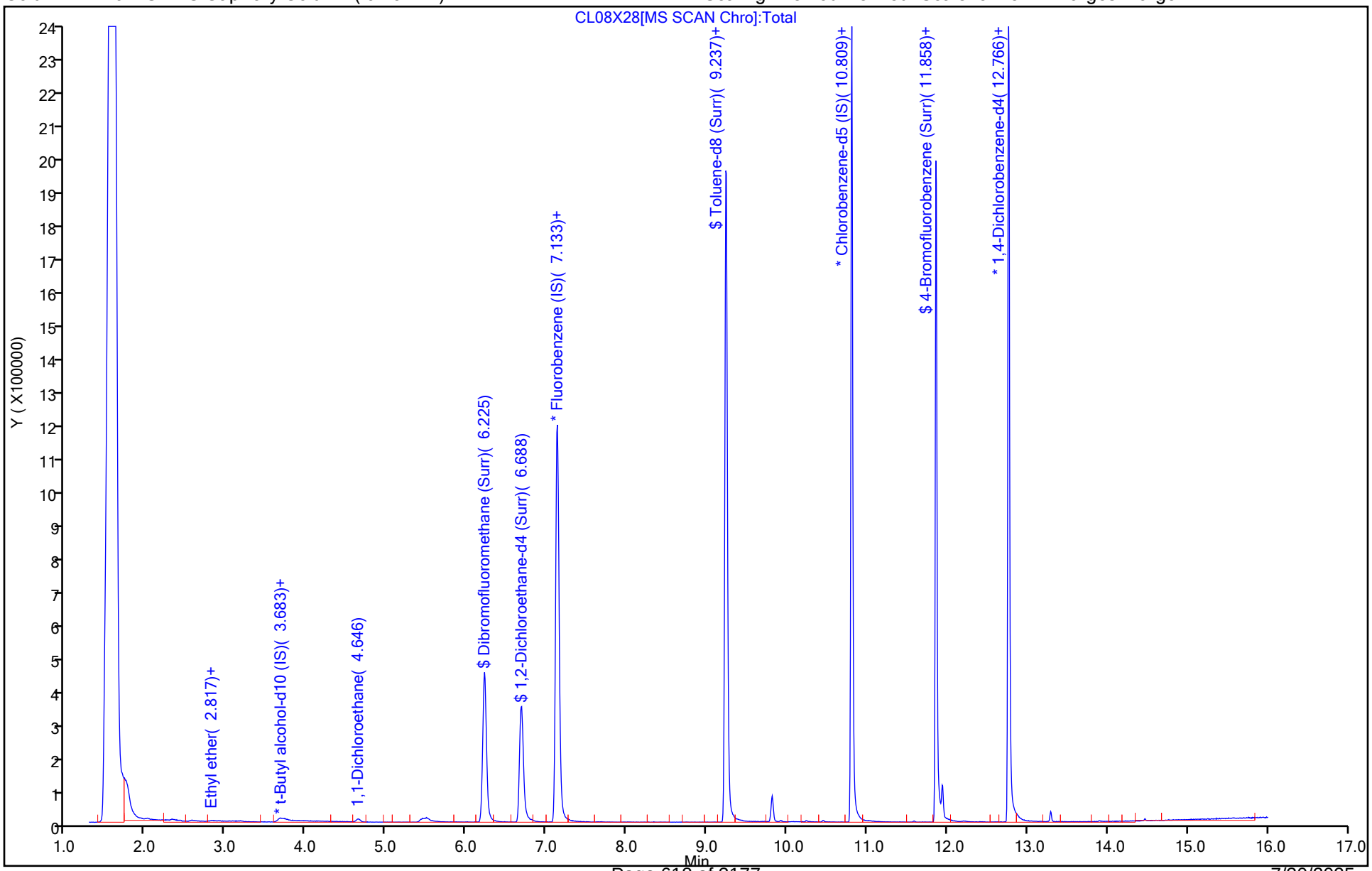
Report Date: 09-Jul-2025 09:17:14 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X28.D

Injection Date:	08-Jul-2025 19:48:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-11	Lab Sample ID:	410-229895-11	Worklist Smp#:	29
Client ID:	16SPRING				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X28.D				
Lims ID:	410-229895-A-11				
Client ID:	16SPRING				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 19:48:30	ALS Bottle#:	28	Worklist Smp#:	29
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-029				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:15:49	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:17:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.7	107.33
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.8	108.42
$ 83 Toluene-d8 (Surr)	10.0	9.58	95.84
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.08	90.80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: Trip Blank 1 Lab Sample ID: 410-229895-12

Matrix: Water Lab File ID: CL08X08.D

Analysis Method: 8260D Date Collected: 06/26/2025 00:00

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 12:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	ND		1.0	
78-93-3	2-Butanone	ND		10	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
100-41-4	Ethylbenzene	ND		1.0	
60-29-7	Ethyl ether	ND		10	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X08.D
Lims ID: 410-229895-A-12
Client ID: Trip Blank 1
Sample Type: Client
Inject. Date: 08-Jul-2025 12:23:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-009
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 18:30:07 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 08:53:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85		1.750				ND	
4 Dimethyl ether	45		1.805				ND	
5 Chloromethane	50		1.933				ND	
6 Vinyl chloride	62		2.031				ND	
10 Chloroethane	64		2.360				ND	
12 Trichlorofluoromethane	101		2.658				ND	
14 Ethyl ether	59		2.817				ND	
18 1,1-Dichloroethene	96		3.079				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
30 Methylene Chloride	84		3.646				ND	
* 31 t-Butyl alcohol-d10 (IS)	65	3.677	3.664	0.013	95	156772	50.0	
37 1,1-Dichloroethane	63		4.646				ND	
42 2-Butanone (MEK)	43		5.475				ND	
49 Tetrahydrofuran	71		5.841				ND	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	93	493004	10.6	
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	98	100223	10.4	
60 Benzene	78		6.713				ND	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1978703	10.0	
68 Trichloroethene	95		7.627				ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	93	1969603	9.72	
84 Toluene	92		9.322				ND	7
88 Tetrachloroethene	166		9.919				ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1542904	10.0	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	712730	9.31	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	844599	10.0	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

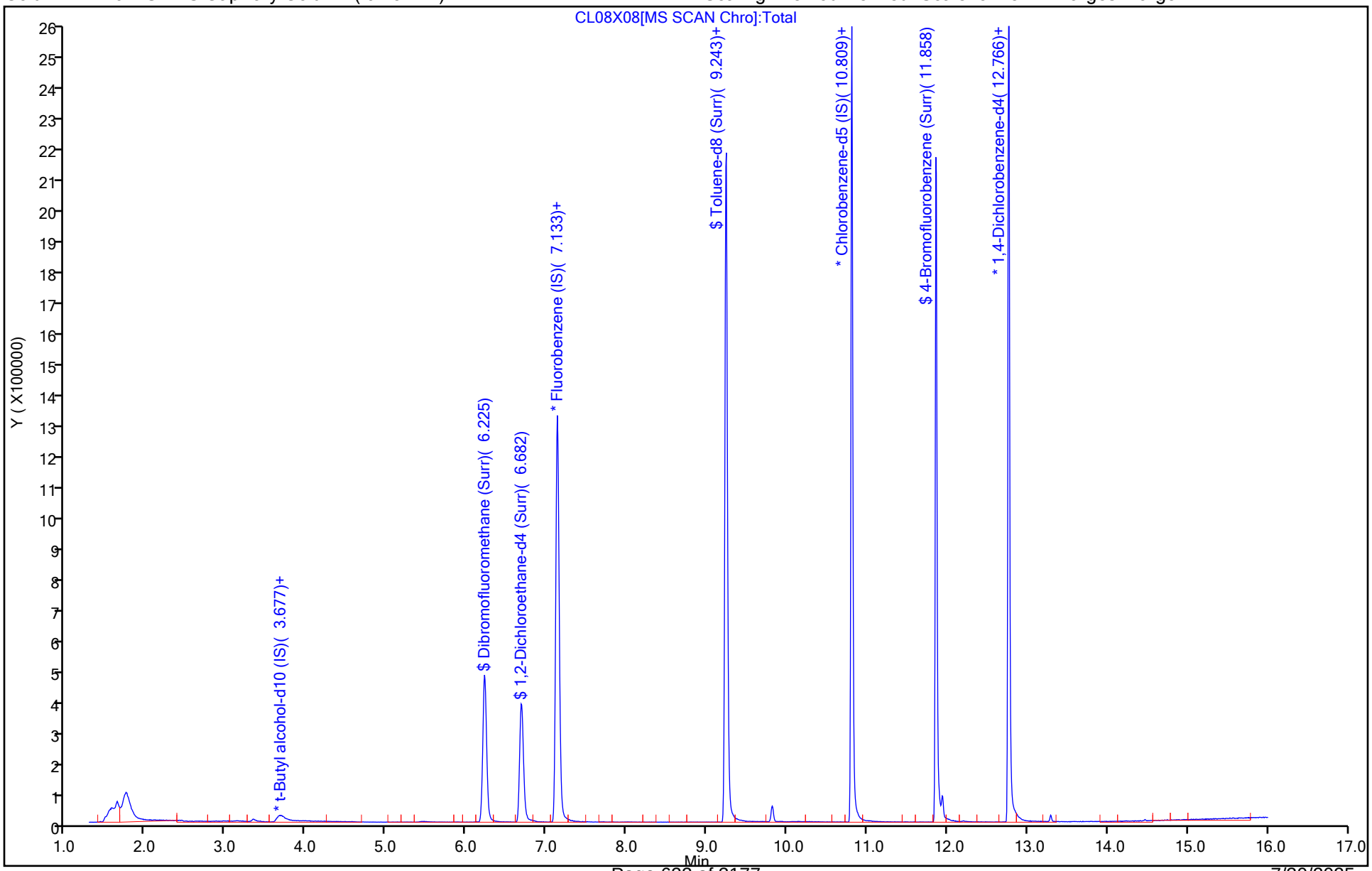
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 09-Jul-2025 08:53:58 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X08.D				
Injection Date:	08-Jul-2025 12:23:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-12	Lab Sample ID:	410-229895-12	Worklist Smp#:	9
Client ID:	Trip Blank 1				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X08.D				
Lims ID:	410-229895-A-12				
Client ID:	Trip Blank 1				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 12:23:30	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-009				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	08-Jul-2025 18:30:07	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 08:53:58

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.58
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.4	104.01
$ 83 Toluene-d8 (Surr)	10.0	9.72	97.19
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.31	93.14

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: Trip Blank 2 Lab Sample ID: 410-229895-13

Matrix: Water Lab File ID: CL08X09.D

Analysis Method: 8260D Date Collected: 06/25/2025 00:00

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 12:45

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-00-5	1,1,2-Trichloroethane	ND		0.50	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
78-93-3	2-Butanone	ND		10	
71-43-2	Benzene	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
60-29-7	Ethyl ether	ND		10	
100-41-4	Ethylbenzene	ND		1.0	
76-13-1	Freon 113	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X09.D
Lims ID: 410-229895-A-13
Client ID: Trip Blank 2
Sample Type: Client
Inject. Date: 08-Jul-2025 12:45:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-010
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 22-Jul-2025 15:55:24 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1725

First Level Reviewer: N9NA Date: 09-Jul-2025 08:54:30

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
	2 Dichlorodifluoromethane	85		1.750				ND	
	4 Dimethyl ether	45		1.805				ND	U
	5 Chloromethane	50		1.933				ND	
	6 Vinyl chloride	62		2.031				ND	
	9 Bromomethane	94		2.329				ND	
	10 Chloroethane	64		2.360				ND	
	12 Trichlorofluoromethane	101		2.658				ND	
	14 Ethyl ether	59		2.817				ND	
	17 Acrolein	56		2.963				ND	7
	18 1,1-Dichloroethene	96		3.079				ND	
	20 Acetone	43	3.103	3.110	-0.007	29	3560	0.5248	
	21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134				ND	
	22 Iodomethane	142		3.244				ND	
	25 Carbon disulfide	76	3.335	3.335	0.000	43	4961	0.0322	
	27 Acetonitrile	41		3.451				ND	7
	29 3-Chloro-1-propene	41		3.481				ND	
	30 Methylene Chloride	84		3.646				ND	
*	31 t-Butyl alcohol-d10 (IS)	65	3.664	3.664	0.000	96	143403	50.0	
	33 Acrylonitrile	53		3.945				ND	
	35 trans-1,2-Dichloroethene	96		4.000				ND	
	38 Vinyl acetate	43		4.640				ND	
	37 1,1-Dichloroethane	63		4.646				ND	
	40 2-Chloro-1,3-butadiene	53		4.756				ND	
	42 2-Butanone (MEK)	43		5.475				ND	7
	43 cis-1,2-Dichloroethene	96		5.505				ND	
	44 2,2-Dichloropropane	77		5.512				ND	
	45 Propionitrile	54		5.573				ND	
	47 Methacrylonitrile	67		5.786				ND	
	48 Chlorobromomethane	128		5.835				ND	
	49 Tetrahydrofuran	71		5.841				ND	
	50 Chloroform	83		5.999				ND	
$	54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	489760	10.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
53 1,1,1-Trichloroethane	97		6.225				ND	
56 Carbon tetrachloride	117		6.438				ND	
57 1,1-Dichloropropene	75		6.444				ND	
58 Isobutyl alcohol	41		6.645				ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.682	0.000	98	97848	10.2	
60 Benzene	78		6.713				ND	
61 1,2-Dichloroethane	62		6.792				ND	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1962397	10.0	
68 Trichloroethene	95		7.627				ND	
70 1,2-Dichloropropane	63		7.968				ND	
72 Dibromomethane	93		8.078				ND	
73 Methyl methacrylate	69		8.078				ND	
76 Dichlorobromomethane	83	8.328	8.328	0.000	95	5119	0.0735	
80 cis-1,3-Dichloropropene	75		8.901				ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.108				ND	
$ 83 Toluene-d8 (Surr)	98	9.236	9.243	-0.007	94	1938601	9.67	
84 Toluene	92		9.322				ND	7
85 trans-1,3-Dichloropropene	75		9.621				ND	
86 Ethyl methacrylate	69		9.700				ND	
87 1,1,2-Trichloroethane	97		9.840				ND	
88 Tetrachloroethene	166		9.919				ND	
89 1,3-Dichloropropane	76		10.011				ND	
106 2-Hexanone	43		10.084				ND	
108 Chlorodibromomethane	129	10.242	10.236	0.006	84	2170	0.0418	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1526627	10.0	
113 Chlorobenzene	112		10.834				ND	
114 1,1,1,2-Tetrachloroethane	131		10.925				ND	
115 Ethylbenzene	91		10.931				ND	
116 m-Xylene & p-Xylene	106		11.053				ND	
S 117 Xylenes, Total	106		11.245				ND	7
118 o-Xylene	106		11.401				ND	
119 Styrene	104		11.413				ND	7
120 Bromoform	173		11.571				ND	7
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.858	0.006	95	708884	9.36	
126 1,1,2,2-Tetrachloroethane	83		11.974				ND	
127 trans-1,4-Dichloro-2-butene	53		11.998				ND	
128 1,2,3-Trichloropropane	110		12.016				ND	
137 1,3-Dichlorobenzene	146		12.711				ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	836103	10.0	
140 1,4-Dichlorobenzene	146		12.785				ND	7
144 1,2-Dichlorobenzene	146		13.053				ND	
150 1,2,4-Trichlorobenzene	180		14.162				ND	
151 Hexachlorobutadiene	225		14.248				ND	
152 Naphthalene	128		14.345				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags
U - Marked Undetected

Reagents:

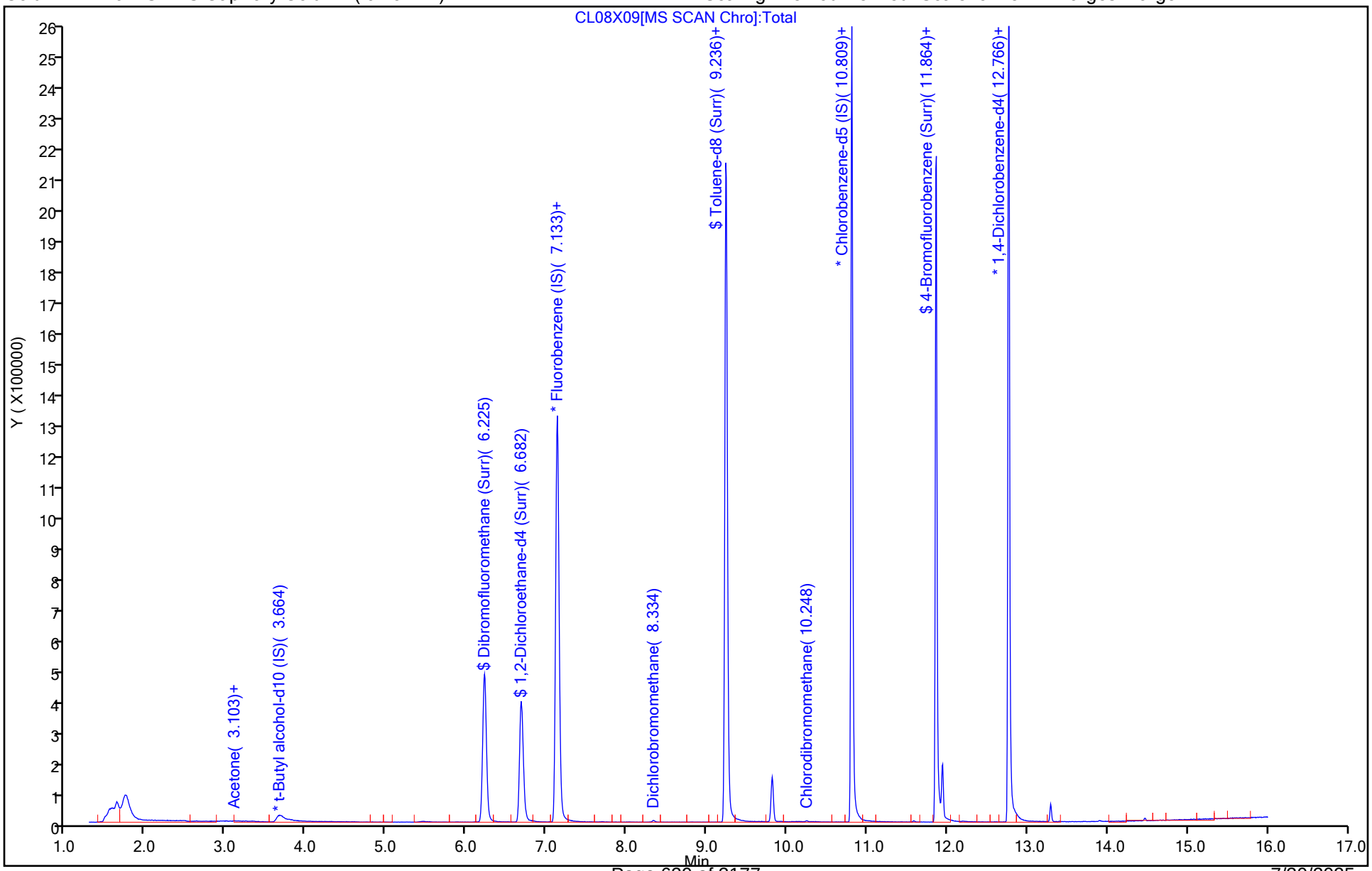
MSV_HP25_ISSS_00114 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 22-Jul-2025 15:55:32 Chrom Revision: 2.3 17-Jul-2025 12:11:26

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X09.D				
Injection Date:	08-Jul-2025 12:45:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-13	Lab Sample ID:	410-229895-13	Worklist Smp#:	10
Client ID:	Trip Blank 2				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X09.D				
Lims ID:	410-229895-A-13				
Client ID:	Trip Blank 2				
Sample Type:	Client				
Inject. Date:	08-Jul-2025 12:45:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-010				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	22-Jul-2025 15:55:24	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1725				

First Level Reviewer: N9NA Date: 09-Jul-2025 08:54:30

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.76
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.2	102.39
$ 83 Toluene-d8 (Surr)	10.0	9.67	96.68
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.36	93.62

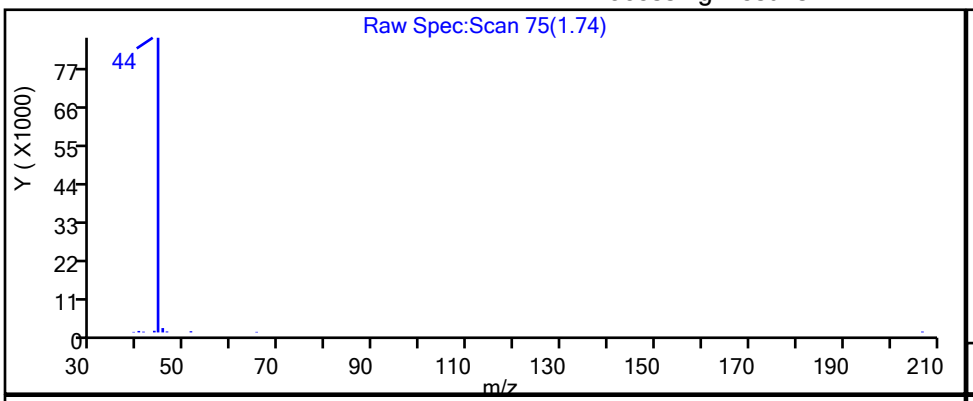
User Disabled Compound Report

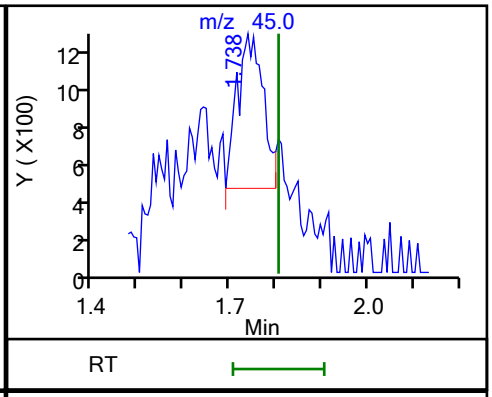
Eurofins Lancaster Laboratories Environment Testing, LLC

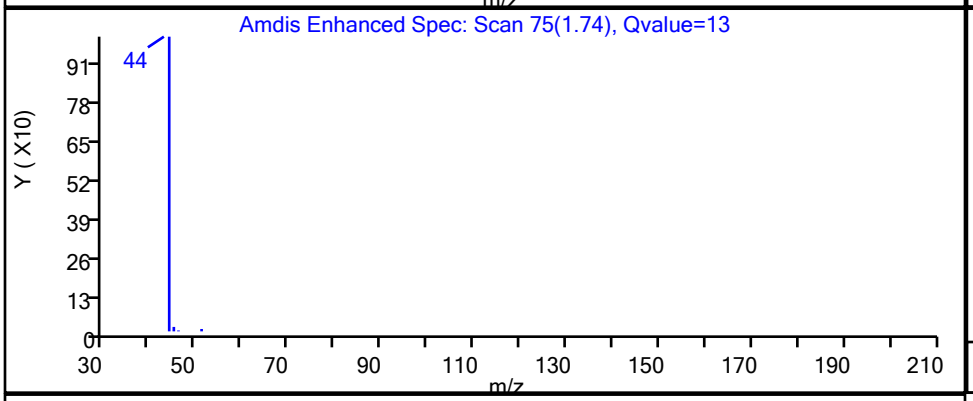
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X09.D				
Injection Date:	08-Jul-2025 12:45:30	Instrument ID:	10193		
Lims ID:	410-229895-A-13	Lab Sample ID:	410-229895-13		
Client ID:	Trip Blank 2				
Operator ID:	ecr105096	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

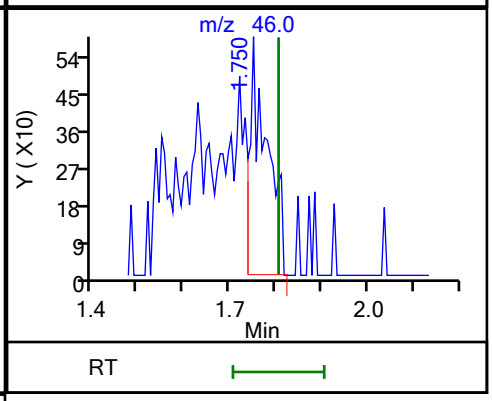
4 Dimethyl ether, CAS: 115-10-6

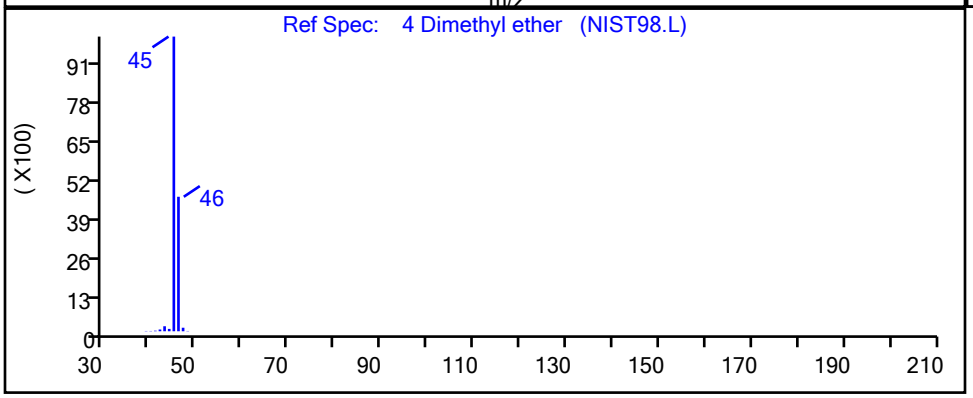
Processing Results











RT	Mass	Response	Amount
1.74	45.00	3217	0.036427
1.75	46.00	1509	

Reviewer: N7YK, 22-Jul-2025 15:52:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-102081/18	CM11X18.D
Level 2	IC 410-102081/17	CM11X17.D
Level 3	IC 410-102081/16	CM11X16.D
Level 4	IC 410-102081/15	CM11X15.D
Level 5	IC 410-102081/14	CM11X14.D
Level 6	ICIS 410-102081/13	CM11X13.D
Level 7	IC 410-102081/12	CM11X12.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	+++++ 0.2868	0.2407 0.2935	0.2474	0.2524	0.2643	Ave		0.2642			0.1000	8.2		20.0			
Chloromethane	0.3752 0.3347	0.3265 0.3251	0.3014	0.3014	0.3209	Ave		0.3264			0.1000	7.6		20.0			
1,3-Butadiene	0.3605 0.3474	0.3846 0.3474	0.3552	0.3624	0.3505	Ave		0.3583				3.6		20.0			
Vinyl chloride	0.2715 0.3238	0.2865 0.3208	0.2894	0.2921	0.3035	Ave		0.2982			0.1000	6.4		20.0			
Bromomethane	0.2388 0.2173	0.2165 0.2137	0.2040	0.1997	0.2113	Ave		0.2145			0.1000	5.8		20.0			
Chloroethane	0.2013 0.2015	0.1898 0.2010	0.1905	0.1844	0.1990	Ave		0.1954			0.1000	3.6		20.0			
Dichlorofluoromethane	0.4792 0.4671	0.4345 0.4641	0.4278	0.4222	0.4565	Ave		0.4502			0.1000	4.9		20.0			
Trichlorofluoromethane	+++++ 0.4374	0.3884 0.4323	0.3891	0.3858	0.4067	Ave		0.4066			0.1000	5.7		20.0			
Ethyl ether	0.2147 0.2317	0.2333 0.2273	0.2054	0.2087	0.2234	Ave		0.2206				5.1		20.0			
Freon 123a	0.2953 0.3157	0.3295 0.3240	0.3245	0.3237	0.3178	Ave		0.3186				3.5		20.0			
Acrolein	1.7897 1.5098	2.0571 2.1489	2.1340	2.0528	2.0064	Ave		1.9570				11.8		20.0			
1,1-Dichloroethene	0.2240 0.2279	0.2369 0.2306	0.2324	0.2287	0.2257	Ave		0.2295			0.1000	1.9		20.0			
Freon 113	0.1993 0.2587	0.2610 0.2626	0.2513	0.2582	0.2576	Ave		0.2498			0.1000	9.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acetone	2.1036 2.1276	2.3282 2.4595	2.3963	2.3914	2.3604	Ave		2.3096			0.1000	6.0		20.0			
Methyl iodide	0.4418 0.4498	0.4556 0.4514	0.4464	0.4498	0.4439	Ave		0.4484				1.0		20.0			
Ethyl bromide	0.1833 0.1997	0.2041 0.1984	0.1812	0.1823	0.1977	Ave		0.1924				5.0		20.0			
Carbon disulfide	0.7287 0.8139	0.7827 0.8189	0.7749	0.7767	0.7896	Ave		0.7836			0.1000	3.8		20.0			
Methyl acetate	4.3737 5.4862	4.7356 6.4960	4.5544	4.2722	5.5313	Ave		5.0642			0.1000	16.0		20.0			
Allyl chloride	0.4432 0.4378	0.4408 0.4361	0.3892	0.3896	0.4333	Ave		0.4243				5.7		20.0			
Methylene Chloride	0.2644 0.2571	0.2606 0.2556	0.2548	0.2568	0.2541	Ave		0.2576			0.1000	1.4		20.0			
t-Butyl alcohol	0.8752 0.8020	0.9651 0.9987	1.0057	0.8184	0.7927	Ave		0.8940				10.5		20.0			
Acrylonitrile	2.8111 3.1799	3.3883 3.5101	3.4613	3.1918	3.4262	Ave		3.2812				7.4		20.0			
Methyl tertiary butyl ether	0.7385 0.7676	0.7697 0.7540	0.7563	0.7660	0.7475	Ave		0.7571			0.1000	1.5		20.0			
trans-1,2-Dichloroethene	0.2705 0.2612	0.2680 0.2644	0.2582	0.2649	0.2557	Ave		0.2633			0.1000	2.0		20.0			
n-Hexane	0.3485 0.4357	0.4327 0.4427	0.4098	0.4187	0.4250	Ave		0.4162				7.6		20.0			
1,1-Dichloroethane	0.4880 0.5050	0.5021 0.4989	0.5037	0.4957	0.4966	Ave		0.4986			0.2000	1.2		20.0			
di-Isopropyl ether	0.9094 0.9471	0.9427 0.9490	0.9396	0.9502	0.9311	Ave		0.9384				1.5		20.0			
2-Chloro-1,3-butadiene	0.4221 0.4646	0.4495 0.4774	0.4486	0.4476	0.4557	Ave		0.4522				3.8		20.0			
Ethyl t-butyl ether	0.8953 0.9201	0.9166 0.9151	0.9184	0.9197	0.9069	Ave		0.9132				1.0		20.0			
2-Butanone	4.5493 4.4436	4.6060 4.9875	4.6974	4.8294	4.7430	Ave		4.6937			0.1000	3.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	0.2956 0.2951	0.3061 0.2972	0.2902	0.3007	0.2879	Ave		0.2961			0.1000	2.1		20.0			
2,2-Dichloropropane	0.3821 0.4121	0.4087 0.4199	0.4003	0.4097	0.4018	Ave		0.4049				3.0		20.0			
Propionitrile	1.1615 1.2455	1.1135 1.3697	1.1352	1.3221	1.3168	Ave		1.2377				8.3		20.0			
Methacrylonitrile	4.4673 4.3334	4.6032 5.0491	4.6880	4.6025	4.6775	Ave		4.6316				4.8		20.0			
Bromochloromethane	0.1280 0.1353	0.1411 0.1341	0.1249	0.1252	0.1323	Ave		0.1316				4.5		20.0			
Tetrahydrofuran	1.2020 1.2950	1.3535 1.4765	1.3624	1.3960	1.3764	Ave		1.3517				6.3		20.0			
Chloroform	0.4716 0.4771	0.4900 0.4812	0.4744	0.4766	0.4662	Ave		0.4767			0.2000	1.6		20.0			
1,1,1-Trichloroethane	0.3890 0.4249	0.4383 0.4347	0.4134	0.4192	0.4170	Ave		0.4195			0.1000	3.9		20.0			
Cyclohexane	0.4367 0.5206	0.5050 0.5344	0.4985	0.5078	0.5070	Ave		0.5014			0.1000	6.2		20.0			
Carbon tetrachloride	0.3005 0.3661	0.3515 0.3788	0.3488	0.3482	0.3563	Ave		0.3500			0.1000	7.0		20.0			
1,1-Dichloropropene	0.3728 0.3967	0.3943 0.4064	0.3833	0.3872	0.3876	Ave		0.3897				2.7		20.0			
Isobutyl alcohol	0.3363 0.3289	0.3164 0.3803	0.3370	0.3019	0.3229	Ave		0.3320				7.4		20.0			
Benzene	1.1006 1.1323	1.1629 1.1485	1.1182	1.1212	1.1222	Ave		1.1294			0.5000	1.8		20.0			
1,2-Dichloroethane	0.3575 0.3307	0.3531 0.3278	0.3264	0.3313	0.3293	Ave		0.3366			0.1000	3.8		20.0			
t-Amyl methyl ether	0.7739 0.8284	0.8269 0.8175	0.8057	0.8183	0.8196	Ave		0.8129				2.3		20.0			
n-Heptane	0.4399 0.4836	0.4562 0.4867	0.4407	0.4431	0.4518	Ave		0.4574				4.3		20.0			
n-Butanol	0.2349 0.3006	0.2657 0.3702	0.2716	0.2524	0.2752	Ave		0.2815				15.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.2727 0.2885	0.2926 0.2951	0.2852	0.2861	0.2835	Ave		0.2862			0.2000	2.5		20.0			
Methylcyclohexane	+++++ 0.5446	0.5161 0.5436	0.4791	0.4632	0.5276	Ave		0.5124			0.1000	6.6		20.0			
1,2-Dichloropropane	0.2808 0.2956	0.2970 0.3025	0.2850	0.2920	0.2900	Ave		0.2918			0.1000	2.5		20.0			
Methyl methacrylate	8.5666 8.6493	8.8253 11.051	9.3723	9.6958	9.4060	Ave		9.3667				9.1		20.0			
Dibromomethane	0.1287 0.1401	0.1345 0.1399	0.1366	0.1369	0.1373	Ave		0.1363				2.8		20.0			
1,4-Dioxane	+++++ 0.0490	0.0718 0.0735	0.0628	0.0526	0.0522	Ave		0.0603			0.0050	17.6		20.0			
Bromodichloromethane	0.3187 0.3494	0.3315 0.3562	0.3332	0.3373	0.3385	Ave		0.3378			0.2000	3.6		20.0			
2-Nitropropane	3.0227 2.9296	2.6333 3.5570	3.0168	3.1243	3.1422	Ave		3.0608				9.0		20.0			
1-Bromo-2-chloroethane	0.2537 0.2948	0.2908 0.2892	0.2611	0.2667	0.2869	Ave		0.2776				6.0		20.0			
cis-1,3-Dichloropropene	0.4138 0.4529	0.4239 0.4618	0.4188	0.4442	0.4400	Ave		0.4365			0.2000	4.2		20.0			
4-Methyl-2-pentanone	11.126 12.213	12.449 14.989	12.890	13.367	13.367	Ave		12.914			0.1000	9.3		20.0			
Toluene	0.9483 0.9804	0.9837 1.0093	0.9708	0.9802	0.9627	Ave		0.9765			0.4000	2.0		20.0			
trans-1,3-Dichloropropene	0.4777 0.5209	0.4712 0.5390	0.4785	0.4873	0.5083	Ave		0.4976			0.1000	5.1		20.0			
Ethyl methacrylate	0.3816 0.4530	0.3820 0.4573	0.4079	0.4387	0.4332	Ave		0.4219				7.5		20.0			
1,1,2-Trichloroethane	0.2788 0.2698	0.2771 0.2709	0.2636	0.2752	0.2650	Ave		0.2715			0.1000	2.2		20.0			
Tetrachloroethene	0.3769 0.4172	0.4279 0.4324	0.4073	0.4197	0.4160	Ave		0.4139			0.2000	4.4		20.0			
1,3-Dichloropropane	0.4704 0.4943	0.4847 0.4931	0.4764	0.4884	0.4860	Ave		0.4847				1.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	9.1578 8.8425	8.9604 10.902	9.1325	9.5103	9.6798	Ave		9.4551			0.1000	7.4		20.0			
Dibromochloromethane	0.2606 0.3332	0.2862 0.3438	0.2875	0.3071	0.3189	Ave		0.3053				9.6		20.0			
1,2-Dibromoethane	0.2411 0.2694	0.2601 0.2726	0.2565	0.2669	0.2666	Ave		0.2619			0.1000	4.1		20.0			
1-Chlorohexane	0.5755 0.5570	0.5814 0.5805	0.5423	0.5530	0.5471	Ave		0.5624				2.9		20.0			
Chlorobenzene	1.1039 1.0997	1.1268 1.1255	1.0908	1.0808	1.0810	Ave		1.1012			0.5000	1.7		20.0			
1,1,1,2-Tetrachloroethane	0.3450 0.3823	0.3542 0.3963	0.3503	0.3720	0.3716	Ave		0.3674				5.0		20.0			
Ethylbenzene	1.8210 1.9320	1.9020 1.9996	1.8818	1.9030	1.8903	Ave		1.9042			0.1000	2.8		20.0			
m&p-Xylene	0.6924 0.7519	0.7421 0.7747	0.7289	0.7421	0.7394	Ave		0.7388			0.1000	3.4		20.0			
o-Xylene	0.7020 0.7411	0.7364 0.7691	0.7181	0.7455	0.7345	Ave		0.7352			0.3000	2.9		20.0			
Styrene	1.1583 1.2656	1.2148 1.3049	1.1860	1.2297	1.2317	Ave		1.2273			0.3000	4.0		20.0			
Bromoform	0.1422 0.1940	0.1604 0.2036	0.1595	0.1737	0.1815	Ave		0.1736			0.1000	12.3		20.0			
Isopropylbenzene	1.7449 1.9465	1.9163 2.0111	1.8833	1.9162	1.9269	Ave		1.9065			0.1000	4.3		20.0			
1,1,2,2-Tetrachloroethane	0.5823 0.6508	0.6418 0.6497	0.6382	0.6216	0.6393	Ave		0.6320			0.3000	3.8		20.0			
Bromobenzene	0.8547 0.8409	0.8627 0.8544	0.8515	0.8484	0.8425	Ave		0.8507				0.9		20.0			
trans-1,4-Dichloro-2-butene	0.1526 0.1995	0.1751 0.2041	0.1842	0.1880	0.1911	Ave		0.1849				9.3		20.0			
1,2,3-Trichloropropane	0.1594 0.1746	0.1737 0.1703	0.1712	0.1748	0.1713	Ave		0.1708				3.1		20.0			
N-Propylbenzene	3.8559 4.1319	4.2223 4.2515	4.1212	4.0623	4.1745	Ave		4.1171				3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	0.8450 0.8478	0.8775 0.8613	0.8397	0.8512	0.8428	Ave		0.8522				1.5		20.0			
1,3,5-Trimethylbenzene	2.8382 3.0501	3.0135 3.1572	3.0190	2.9969	3.0422	Ave		3.0167				3.1		20.0			
4-Chlorotoluene	0.8670 0.8784	0.9375 0.8989	0.8924	0.8849	0.8843	Ave		0.8919				2.5		20.0			
tert-Butylbenzene	0.6441 0.6576	0.6478 0.6768	0.6387	0.6454	0.6542	Ave		0.6521				1.9		20.0			
Pentachloroethane	0.4071 0.5210	0.4617 0.5395	0.4154	0.4370	0.5055	Ave		0.4696				11.3		20.0			
1,2,4-Trimethylbenzene	2.8279 3.1882	3.1600 3.3059	3.0581	3.1365	3.1712	Ave		3.1211				4.8		20.0			
sec-Butylbenzene	3.4504 3.9674	3.8585 4.0784	3.9054	3.8693	3.9338	Ave		3.8662				5.1		20.0			
1,3-Dichlorobenzene	1.6201 1.6859	1.6718 1.7265	1.6948	1.6902	1.6743	Ave		1.6805			0.6000	1.9		20.0			
p-Isopropyltoluene	3.0024 3.4343	3.3569 3.5772	3.3416	3.3747	3.4252	Ave		3.3589				5.2		20.0			
1,4-Dichlorobenzene	1.7319 1.7202	1.7473 1.7495	1.7241	1.7128	1.6992	Ave		1.7264			0.5000	1.0		20.0			
1,2,3-Trimethylbenzene	1.4210 1.4153	1.4358 1.4246	1.3128	1.2867	1.4129	Ave		1.3870				4.4		20.0			
Benzyl chloride	0.1745 0.2722	0.1997 0.2848	0.2191	0.2392	0.2605	Ave		0.2357				17.0		20.0			
n-Butylbenzene	1.6456 1.7625	1.6566 1.8201	1.6724	1.6895	1.7487	Ave		1.7136				3.8		20.0			
1,2-Dichlorobenzene	1.5864 1.5782	1.5916 1.5941	1.5934	1.5706	1.5674	Ave		1.5831			0.4000	0.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0692 0.0985	0.0806 0.0983	0.0844	0.0907	0.0902	Ave		0.0874			0.0500	11.9		20.0			
1,3,5-Trichlorobenzene	1.3585 1.3736	1.4033 1.4118	1.3635	1.3662	1.3753	Ave		1.3789				1.5		20.0			
1,2,4-Trichlorobenzene	1.2097 1.2527	1.2399 1.2568	1.2231	1.2474	1.2426	Ave		1.2389			0.2000	1.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.5169 0.6110	0.6018 0.6204	0.5963	0.5770	0.5957	Ave		0.5884				5.8		20.0			
Naphthalene	2.1636 2.3099	2.1932 2.2323	2.1713	2.3029	2.2648	Ave		2.2340				2.7		20.0			
1,2,3-Trichlorobenzene	1.1382 1.0983	1.1033 1.0862	1.0888	1.1002	1.0930	Ave		1.1011				1.6		20.0			
Dibromofluoromethane (Surr)	0.2355 0.2387	0.2370 0.2377	0.2362	0.2372	0.2351	Ave		0.2368				0.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0486 0.0493	0.0490 0.0480	0.0493	0.0489	0.0483	Ave		0.0488				1.0		20.0			
Toluene-d8 (Surr)	1.3363 1.3424	1.3407 1.3415	1.3256	1.3406	1.3371	Ave		1.3378				0.4		20.0			
4-Bromofluorobenzene (Surr)	0.5107 0.5181	0.5115 0.5143	0.5067	0.5117	0.5137	Ave		0.5124				0.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-102081/18	CM11X18.D
Level 2	IC 410-102081/17	CM11X17.D
Level 3	IC 410-102081/16	CM11X16.D
Level 4	IC 410-102081/15	CM11X15.D
Level 5	IC 410-102081/14	CM11X14.D
Level 6	ICIS 410-102081/13	CM11X13.D
Level 7	IC 410-102081/12	CM11X12.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 638910	26325 1652589	54318	111163	294102	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	16127 745676	35701 1830118	66165	132701	357138	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	15497 773897	42056 1956045	77994	159570	390039	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	11671 721419	31326 1805860	63531	128627	337747	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	10263 484085	23670 1202958	44794	87944	235118	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	8651 448998	20758 1131496	41826	81222	221465	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	20597 1040739	47511 2612848	93918	185905	508015	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	+++++ 974568	42470 2433596	85429	169901	452638	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	9230 516266	25522 1279724	45094	91906	248665	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	12692 703428	36027 1823966	71240	142547	353727	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd10	Ave	62338 2949165	175965 8359764	353509	710384	1720138	10.00 500	25.0 1250	50.0	100.0	250
1,1-Dichloroethene	FB	Ave	9628 507852	25908 1298230	51031	100690	251228	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 113	FB	Ave	8566 576399	28545 1478508	55171	113688	286674	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd10	Ave	14655 831213	39833 1913703	79397	165522	404761	2.00 100	5.00 250	10.0	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl iodide	FB	Ave	18991 1002107	49816 2541566	98011	198061	494002	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	7881 445062	22324 1117620	39807	80324	220183	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon disulfide	FB	Ave	31322 1813268	85582 4610358	170125	342025	878787	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	3047 214332	8102 505443	15090	29570	94849	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	19050 975407	48201 2455479	85456	171541	482293	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	11365 572783	28496 1438992	55939	113062	282773	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	12195 626623	33022 1554132	66645	113296	271870	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	9792 621154	28985 1365561	57341	110460	293755	1.00 50.0	2.50 125	5.00	10.0	25.0
Methyl tertiary butyl ether	FB	Ave	31742 1710267	84164 4245068	166043	337303	831909	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,2-Dichloroethene	FB	Ave	11628 582033	29304 1488618	56687	116638	284572	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	14981 970731	47320 2492359	89978	184368	473040	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	20975 1125021	54906 2808790	110580	218292	552735	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	39087 2110173	103081 5342831	206284	418436	1036220	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	18141 1035042	49154 2687975	98492	197110	507130	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	38483 2049982	100234 5152143	201628	404995	1009285	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd10	Ave	31693 1736002	78803 3880715	155637	334264	813308	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	12707 657423	33468 1673100	63722	132404	320444	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	16422 918101	44691 2363941	87880	180432	447147	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBAd10	Ave	16183 973196	38100 2131411	75221	183011	451607	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	31122 1692968	78755 3928598	155324	318559	802091	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	5501 301517	15433 754935	27419	55137	147269	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	8374 505929	23156 1148846	45139	96621	236023	2.00 100	5.00 250	10.0	20.0	50.0
Chloroform	FB	Ave	20269 1062972	53577 2709148	104144	209889	518824	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	16721 946677	47924 2447521	90751	184579	464120	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	18772 1159833	55219 3008460	109442	223626	564209	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	12915 815634	38434 2132402	76572	153315	396536	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	16022 883868	43115 2287812	84150	170486	431370	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	11714 642545	27067 1479573	55836	104478	276854	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	47305 2522805	127165 6465992	245502	493717	1248937	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	15366 736795	38607 1845635	71667	145889	366485	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	33265 1845644	90424 4602714	176879	360361	912145	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	18909 1077491	49882 2739891	96761	195123	502833	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	16368 1174357	45459 2880806	89995	174724	471831	20.0 1000	50.0 2500	100	200	500
Trichloroethene	FB	Ave	11721 642792	31990 1661655	62611	125981	315510	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	+++++ 1213428	56435 3060627	105184	203974	587148	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12070 658625	32475 1702805	62574	128598	322727	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl methacrylate	TBAd10	Ave	5968 337909	15099 859899	31053	67109	161291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromomethane	FB	Ave	5533 312160	14702 787764	29994	60285	152781	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dioxane	TBAd10	Ave	+++++ 95813	6141 286043	10402	18216	44758	+++++ 500	25.0 1250	50.0	100	250
Bromodichloromethane	FB	Ave	13700 778515	36245 2005156	73153	148536	376731	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	21058 1144511	45053 2767627	99954	216244	538810	2.00 100	5.00 250	10.0	20.0	50.0
1-Bromo-2-chloroethane	FB	Ave	10904 656800	31800 1628300	57317	117451	319358	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	17787 1009092	46348 2599891	91944	195611	489649	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd10	Ave	77509 4771407	212989 11662350	427068	925221	2292161	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	30140 1605937	79287 4165555	157189	318476	789331	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	15184 853284	37981 2224350	77480	158328	416755	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	12129 742086	30786 1887282	66038	142527	355177	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	8862 441913	22332 1117976	42688	89420	217256	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	11980 683362	34486 1784436	65949	136374	341079	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	14952 809652	39064 2035100	77132	158670	398453	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd10	Ave	63799 3454536	153300 8482959	302584	658249	1659867	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	8282 545778	23068 1418943	46550	99777	261477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd5	Ave	7663 441336	20961 1125164	41539	86725	218598	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	18290 912423	46860 2395674	87814	179673	448580	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZd5	Ave	35087 1801305	90818 4644976	176620	351160	886357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	10966 626288	28551 1635507	56719	120869	304715	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	57877 3164725	153300 8252418	304702	618284	1549862	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	44013 2463343	119625 6394334	236059	482205	1212550	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	22311 1213911	59355 3174221	116267	242196	602252	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	36816 2073083	97913 5385417	192033	399519	1009923	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	4521 317762	12929 840188	25830	56445	148820	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	55459 3188415	154456 8299693	304935	622578	1579935	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	10091 592875	27999 1491735	55717	110832	286030	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	14812 766044	37632 1961825	74343	151266	376924	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd4	Ave	26446 1817706	76366 4687257	160817	335202	854847	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	2762 159063	7579 391011	14947	31166	76620	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	66820 3763997	184191 9762204	359813	724330	1867683	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	14644 772351	38280 1977820	73314	151778	377056	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	49185 2778516	131460 7249442	263579	534368	1361103	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	15024 800200	40898 2064098	77916	157773	395625	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	11161 599057	28261 1553945	55767	115071	292682	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	7055 474580	20143 1238770	36271	77921	226171	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	49005 2904330	137851 7590861	266991	559260	1418798	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	59794 3614098	168319 9364813	340967	689917	1759985	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3-Dichlorobenzene	DCBd4	Ave	28076 1535756	72929 3964367	147971	301375	749097	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	52030 3128497	146440 8213926	291744	601720	1532453	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	30013 1567051	76222 4017272	150524	305402	760244	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	24625 1289256	62634 3271199	114621	229432	632118	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	3024 247999	8712 654069	19132	42651	116529	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	28518 1605529	72265 4179344	146017	301250	782387	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	27492 1437655	69431 3660345	139116	280041	701278	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1199 89706	3514 225774	7365	16170	40377	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	23542 1251301	61216 3241837	119040	243600	615322	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	20963 1141116	54089 2885935	106787	222413	555942	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	8957 556571	26251 1424579	52061	102890	266521	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	37493 2104181	95674 5125836	189574	410615	1013305	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	19725 1000463	48128 2494082	95061	196165	488994	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	506093 531772	518402 535299	518482	522307	523395	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	104513 109786	107097 108178	108133	107636	107522	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2123666 2198871	2161262 2214550	2146383	2177829	2192656	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	811561 848690	824527 848962	820392	831177	842387	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-102081/18	CM11X18.D
Level 2	IC 410-102081/17	CM11X17.D
Level 3	IC 410-102081/16	CM11X16.D
Level 4	IC 410-102081/15	CM11X15.D
Level 5	IC 410-102081/14	CM11X14.D
Level 6	ICIS 410-102081/13	CM11X13.D
Level 7	IC 410-102081/12	CM11X12.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	+++++ 11.1	-8.9	-6.4	-4.4	0.0	8.5	30	50	30	30	30	30
Chloromethane	14.9 -0.4	0.0	-7.7	-7.7	-1.7	2.5	50 30	30	30	30	30	30
1,3-Butadiene	0.6 -3.0	7.3	-0.8	1.1	-2.2	-3.1	50 30	30	30	30	30	30
Vinyl chloride	-8.9 7.6	-3.9	-3.0	-2.1	1.8	8.6	50 30	30	30	30	30	30
Bromomethane	11.3 -0.4	0.9	-4.9	-6.9	-1.5	1.3	50 30	30	30	30	30	30
Chloroethane	3.0 2.9	-2.8	-2.5	-5.6	1.9	3.2	50 30	30	30	30	30	30
Dichlorofluoromethane	6.4 3.1	-3.5	-5.0	-6.2	1.4	3.8	50 30	30	30	30	30	30
Trichlorofluoromethane	+++++ 6.3	-4.5	-4.3	-5.1	0.0	7.6	30	50	30	30	30	30
Ethyl ether	-2.7 3.0	5.8	-6.9	-5.4	1.3	5.0	50 30	30	30	30	30	30
Freon 123a	-7.3 1.7	3.4	1.8	1.6	-0.3	-0.9	50 30	30	30	30	30	30
Acrolein	-8.5 9.8	5.1	9.0	4.9	2.5	-22.8	50 30	30	30	30	30	30
1,1-Dichloroethene	-2.4 0.5	3.3	1.3	-0.4	-1.6	-0.7	50 30	30	30	30	30	30
Freon 113	-20.2 5.1	4.5	0.6	3.3	3.1	3.6	50 30	30	30	30	30	30
Acetone	-8.9 6.5	0.8	3.8	3.5	2.2	-7.9	50 30	30	30	30	30	30
Methyl iodide	-1.5 0.7	1.6	-0.4	0.3	-1.0	0.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethyl bromide	-4.7 3.1	6.1	-5.8	-5.2	2.8	3.8	50 30	30	30	30	30	30
Carbon disulfide	-7.0 4.5	-0.1	-1.1	-0.9	0.8	3.9	50 30	30	30	30	30	30
Methyl acetate	-13.6 28.3	-6.5	-10.1	-15.6	9.2	8.3	50 30	30	30	30	30	30
Allyl chloride	4.5 2.8	3.9	-8.3	-8.2	2.1	3.2	50 30	30	30	30	30	30
Methylene Chloride	2.6 -0.8	1.2	-1.1	-0.3	-1.4	-0.2	50 30	30	30	30	30	30
t-Butyl alcohol	-2.1 11.7	8.0	12.5	-8.4	-11.3	-10.3	50 30	30	30	30	30	30
Acrylonitrile	-14.3 7.0	3.3	5.5	-2.7	4.4	-3.1	50 30	30	30	30	30	30
Methyl tertiary butyl ether	-2.5 -0.4	1.7	-0.1	1.2	-1.3	1.4	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	2.8 0.4	1.8	-1.9	0.6	-2.9	-0.8	50 30	30	30	30	30	30
n-Hexane	-16.3 6.4	4.0	-1.5	0.6	2.1	4.7	50 30	30	30	30	30	30
1,1-Dichloroethane	-2.1 0.1	0.7	1.0	-0.6	-0.4	1.3	50 30	30	30	30	30	30
di-Isopropyl ether	-3.1 1.1	0.5	0.1	1.3	-0.8	0.9	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-6.7 5.6	-0.6	-0.8	-1.0	0.8	2.7	50 30	30	30	30	30	30
Ethyl t-butyl ether	-2.0 0.2	0.4	0.6	0.7	-0.7	0.8	50 30	30	30	30	30	30
2-Butanone	-3.1 6.3	-1.9	0.1	2.9	1.0	-5.3	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-0.2 0.4	3.4	-2.0	1.5	-2.8	-0.4	50 30	30	30	30	30	30
2,2-Dichloropropane	-5.6 3.7	0.9	-1.1	1.2	-0.8	1.8	50 30	30	30	30	30	30
Propionitrile	-6.2 10.7	-10.0	-8.3	6.8	6.4	0.6	50 30	30	30	30	30	30
Methacrylonitrile	-3.5 9.0	-0.6	1.2	-0.6	1.0	-6.4	50 30	30	30	30	30	30
Bromochloromethane	-2.7 1.9	7.3	-5.1	-4.8	0.6	2.9	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrahydrofuran	-11.1 9.2	0.1	0.8	3.3	1.8	-4.2	50 30	30	30	30	30	30
Chloroform	-1.1 0.9	2.8	-0.5	0.0	-2.2	0.1	50 30	30	30	30	30	30
1,1,1-Trichloroethane	-7.3 3.6	4.5	-1.5	-0.1	-0.6	1.3	50 30	30	30	30	30	30
Cyclohexane	-12.9 6.6	0.7	-0.6	1.3	1.1	3.8	50 30	30	30	30	30	30
Carbon tetrachloride	-14.2 8.2	0.4	-0.4	-0.5	1.8	4.6	50 30	30	30	30	30	30
1,1-Dichloropropene	-4.4 4.3	1.2	-1.7	-0.7	-0.6	1.8	50 30	30	30	30	30	30
Isobutyl alcohol	1.3 14.6	-4.7	1.5	-9.1	-2.7	-0.9	50 30	30	30	30	30	30
Benzene	-2.6 1.7	3.0	-1.0	-0.7	-0.6	0.3	50 30	30	30	30	30	30
1,2-Dichloroethane	6.2 -2.6	4.9	-3.0	-1.6	-2.2	-1.7	50 30	30	30	30	30	30
t-Amyl methyl ether	-4.8 0.6	1.7	-0.9	0.7	0.8	1.9	50 30	30	30	30	30	30
n-Heptane	-3.8 6.4	-0.3	-3.7	-3.1	-1.2	5.7	50 30	30	30	30	30	30
n-Butanol	-16.5 31.5 *	-5.6	-3.5	-10.3	-2.3	6.8	50 30	30	30	30	30	30
Trichloroethene	-4.7 3.1	2.2	-0.4	-0.1	-1.0	0.8	50 30	30	30	30	30	30
Methylcyclohexane	+++++ 6.1	0.7	-6.5	-9.6	3.0	6.3	 30	50	30	30	30	30
1,2-Dichloropropane	-3.8 3.6	1.8	-2.3	0.1	-0.6	1.3	50 30	30	30	30	30	30
Methyl methacrylate	-8.5 18.0	-5.8	0.1	3.5	0.4	-7.7	50 30	30	30	30	30	30
Dibromomethane	-5.5 2.7	-1.3	0.2	0.5	0.7	2.8	50 30	30	30	30	30	30
1,4-Dioxane	+++++ 21.9	19.0	4.1	-12.8	-13.5	-18.7	 30	50	30	30	30	30
Bromodichloromethane	-5.7 5.4	-1.9	-1.4	-0.2	0.2	3.4	50 30	30	30	30	30	30
2-Nitropropane	-1.2 16.2	-14.0	-1.4	2.1	2.7	-4.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1-Bromo-2-chloroethane	-8.6 4.2	4.8	-6.0	-3.9	3.4	6.2	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-5.2 5.8	-2.9	-4.1	1.8	0.8	3.8	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-13.8 16.1	-3.6	-0.2	3.5	3.5	-5.4	50 30	30	30	30	30	30
Toluene	-2.9 3.4	0.7	-0.6	0.4	-1.4	0.4	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-4.0 8.3	-5.3	-3.8	-2.1	2.2	4.7	50 30	30	30	30	30	30
Ethyl methacrylate	-9.6 8.4	-9.5	-3.3	4.0	2.7	7.4	50 30	30	30	30	30	30
1,1,2-Trichloroethane	2.7 -0.2	2.1	-2.9	1.4	-2.4	-0.6	50 30	30	30	30	30	30
Tetrachloroethene	-8.9 4.5	3.4	-1.6	1.4	0.5	0.8	50 30	30	30	30	30	30
1,3-Dichloropropane	-3.0 1.7	0.0	-1.7	0.7	0.3	2.0	50 30	30	30	30	30	30
2-Hexanone	-3.1 15.3	-5.2	-3.4	0.6	2.4	-6.5	50 30	30	30	30	30	30
Dibromochloromethane	-14.7 12.6	-6.3	-5.8	0.6	4.4	9.1	50 30	30	30	30	30	30
1,2-Dibromoethane	-7.9 4.1	-0.7	-2.0	1.9	1.8	2.9	50 30	30	30	30	30	30
1-Chlorohexane	2.3 3.2	3.4	-3.6	-1.7	-2.7	-1.0	50 30	30	30	30	30	30
Chlorobenzene	0.2 2.2	2.3	-0.9	-1.9	-1.8	-0.1	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-6.1 7.9	-3.6	-4.7	1.3	1.2	4.1	50 30	30	30	30	30	30
Ethylbenzene	-4.4 5.0	-0.1	-1.2	-0.1	-0.7	1.5	50 30	30	30	30	30	30
m&p-Xylene	-6.3 4.9	0.4	-1.3	0.4	0.1	1.8	50 30	30	30	30	30	30
o-Xylene	-4.5 4.6	0.2	-2.3	1.4	-0.1	0.8	50 30	30	30	30	30	30
Styrene	-5.6 6.3	-1.0	-3.4	0.2	0.4	3.1	50 30	30	30	30	30	30
Bromoform	-18.0 17.3	-7.6	-8.1	0.1	4.6	11.8	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Isopropylbenzene	-8.5 5.5	0.5	-1.2	0.5	1.1	2.1	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-7.9 2.8	1.6	1.0	-1.6	1.2	3.0	50 30	30	30	30	30	30
Bromobenzene	0.5 0.4	1.4	0.1	-0.3	-1.0	-1.2	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-17.5 10.4	-5.3	-0.4	1.7	3.3	7.9	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-6.7 -0.3	1.7	0.3	2.4	0.3	2.3	50 30	30	30	30	30	30
N-Propylbenzene	-6.3 3.3	2.6	0.1	-1.3	1.4	0.4	50 30	30	30	30	30	30
2-Chlorotoluene	-0.8 1.1	3.0	-1.5	-0.1	-1.1	-0.5	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-5.9 4.7	-0.1	0.1	-0.7	0.8	1.1	50 30	30	30	30	30	30
4-Chlorotoluene	-2.8 0.8	5.1	0.1	-0.8	-0.9	-1.5	50 30	30	30	30	30	30
tert-Butylbenzene	-1.2 3.8	-0.6	-2.0	-1.0	0.3	0.8	50 30	30	30	30	30	30
Pentachloroethane	-13.3 14.9	-1.7	-11.5	-6.9	7.6	10.9	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-9.4 5.9	1.2	-2.0	0.5	1.6	2.2	50 30	30	30	30	30	30
sec-Butylbenzene	-10.8 5.5	-0.2	1.0	0.1	1.7	2.6	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-3.6 2.7	-0.5	0.9	0.6	-0.4	0.3	50 30	30	30	30	30	30
p-Isopropyltoluene	-10.6 6.5	-0.1	-0.5	0.5	2.0	2.2	50 30	30	30	30	30	30
1,4-Dichlorobenzene	0.3 1.3	1.2	-0.1	-0.8	-1.6	-0.4	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	2.4 2.7	3.5	-5.3	-7.2	1.9	2.0	50 30	30	30	30	30	30
Benzyl chloride	-26.0 20.8	-15.3	-7.0	1.5	10.5	15.5	50 30	30	30	30	30	30
n-Butylbenzene	-4.0 6.2	-3.3	-2.4	-1.4	2.0	2.8	50 30	30	30	30	30	30
1,2-Dichlorobenzene	0.2 0.7	0.5	0.7	-0.8	-1.0	-0.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 102081

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 19:26 Calibration End Date: 03/11/2021 21:40 Calibration ID: 21794

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,2-Dibromo-3-Chloropropane	-20.8 12.5	-7.8	-3.5	3.8	3.3	12.7	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-1.5 2.4	1.8	-1.1	-0.9	-0.3	-0.4	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-2.4 1.4	0.1	-1.3	0.7	0.3	1.1	50 30	30	30	30	30	30
Hexachlorobutadiene	-12.2 5.4	2.3	1.3	-1.9	1.2	3.8	50 30	30	30	30	30	30
Naphthalene	-3.2 -0.1	-1.8	-2.8	3.1	1.4	3.4	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	3.4 -1.4	0.2	-1.1	-0.1	-0.7	-0.3	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	-0.5 0.4	0.1	-0.3	0.2	-0.7	0.8	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	-0.3 -1.5	0.4	1.0	0.2	-0.9	1.0	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.1 0.3	0.2	-0.9	0.2	0.0	0.3	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-0.3 0.4	-0.2	-1.1	-0.1	0.3	1.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D
Lims ID: IC STD25 Lg
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Mar-2021 19:26:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-012
Misc. Info.: IC STD25 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:55:31 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 08:55:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	99	1652589	25.0	27.8	
3 Chloromethane	50	2.081	2.075	0.006	99	1830118	25.0	24.9	
4 Butadiene	39	2.184	2.178	0.006	93	1956045	25.0	24.2	
5 Vinyl chloride	62	2.191	2.184	0.006	98	1805860	25.0	26.9	
6 Bromomethane	94	2.495	2.495	0.000	91	1202958	25.0	24.9	
7 Chloroethane	64	2.575	2.568	0.007	100	1131496	25.0	25.7	
8 Dichlorofluoromethane	67	2.806	2.800	0.006	97	2612848	25.0	25.8	
9 Trichlorofluoromethane	101	2.867	2.861	0.006	98	2433596	25.0	26.6	
11 Ethyl ether	59	3.093	3.087	0.006	93	1279724	25.0	25.8	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.184	3.178	0.006	94	1823966	25.0	25.4	
13 Acrolein	56	3.263	3.257	0.006	99	8359764	1249.9	1372.5	
14 1,1-Dichloroethene	96	3.385	3.379	0.006	96	1298230	25.0	25.1	
15 112TCTFE	101	3.422	3.416	0.006	94	1478508	25.0	26.3	
16 Acetone	43	3.422	3.416	0.006	99	1913703	250.0	266.2	
17 Iodomethane	142	3.574	3.568	0.006	99	2541566	25.0	25.2	
18 Isopropyl alcohol	45	3.587	3.580	0.007	36	942706	500.0	552.2	
19 Ethyl bromide	108	3.599	3.593	0.006	98	1117620	25.0	25.8	
20 Carbon disulfide	76	3.672	3.660	0.012	100	4610358	25.0	26.1	
22 Methyl acetate	43	3.818	3.812	0.006	97	505443	25.0	32.1	M
23 3-Chloro-1-propene	41	3.837	3.830	0.007	90	2455479	25.0	25.7	
24 Methylene Chloride	84	4.019	4.013	0.006	94	1438992	25.0	24.8	
* 25 t-Butyl alcohol-d10 (IS)	65	4.062	4.044	0.018	0	155617	50.0	50.0	
26 2-Methyl-2-propanol	59	4.172	4.160	0.012	99	1554132	500.0	558.6	
27 Acrylonitrile	53	4.355	4.355	0.000	98	1365561	125.0	133.7	
28 Methyl tert-butyl ether	73	4.397	4.397	0.000	96	4245068	25.0	24.9	
29 trans-1,2-Dichloroethene	96	4.410	4.403	0.007	97	1488618	25.0	25.1	
30 Hexane	57	4.830	4.830	0.000	94	2492359	25.0	26.6	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	2808790	25.0	25.0	
33 Isopropyl ether	45	5.141	5.129	0.012	93	5342831	25.0	25.3	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	92	2687975	25.0	26.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.678	5.671	0.007	98	5152143	25.0	25.1	
36 2-Butanone (MEK)	43	5.879	5.879	0.000	100	3880715	250.0	265.6	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	1673100	25.0	25.1	
38 2,2-Dichloropropane	77	5.934	5.927	0.007	90	2363941	25.0	25.9	
40 Propionitrile	54	5.982	5.982	0.000	99	2131411	500.0	553.3	
S 42 1,2-Dichloroethene, Total	100				0			50.2	
43 Methacrylonitrile	67	6.202	6.196	0.006	94	3928598	250.0	272.5	
44 Chlorobromomethane	128	6.251	6.244	0.007	97	754935	25.0	25.5	
45 Tetrahydrofuran	71	6.263	6.251	0.012	92	1148846	250.0	273.1	
46 Chloroform	83	6.409	6.409	0.000	94	2709148	25.0	25.2	
$ 47 Dibromofluoromethane (Surr)	113	6.623	6.622	0.001	51	535299	10.0	10.0	
48 1,1,1-Trichloroethane	97	6.623	6.622	0.001	99	2447521	25.0	25.9	
49 Cyclohexane	56	6.720	6.714	0.006	92	3008460	25.0	26.6	
50 Carbon tetrachloride	117	6.830	6.830	0.000	97	2132402	25.0	27.1	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	96	2287812	25.0	26.1	
52 Isobutyl alcohol	41	7.019	7.019	0.000	93	1479573	1250.0	1432.0	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.086	7.080	0.006	0	108178	10.0	9.85	
54 Benzene	78	7.110	7.104	0.006	97	6465992	25.0	25.4	
55 1,2-Dichloroethane	62	7.183	7.183	0.000	98	1845635	25.0	24.3	
56 Tert-amyl methyl ether	73	7.305	7.299	0.006	98	4602714	25.0	25.1	
* 57 Fluorobenzene (IS)	96	7.519	7.512	0.007	99	2252002	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	92	2739891	25.0	26.6	
59 n-Butanol	56	7.909	7.915	-0.006	90	2880806	2500.0	3287.8	
60 Trichloroethene	95	8.000	7.994	0.006	98	1661655	25.0	25.8	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	3060627	25.0	26.5	
62 1,2-Dichloropropane	63	8.336	8.329	0.007	95	1702805	25.0	25.9	
63 2-ethoxy-2-methyl butane	87	8.348	8.348	0.000	93	2661718	25.0	26.1	
64 Methyl methacrylate	69	8.427	8.427	0.000	92	859899	25.0	29.5	
65 1,4-Dioxane	88	8.439	8.439	0.000	30	286043	1250.0	1523.3	M
66 Dibromomethane	93	8.445	8.445	0.000	97	787764	25.0	25.7	
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	2005156	25.0	26.4	
68 2-Nitropropane	41	8.970	8.970	0.000	98	2767627	250.0	290.5	
71 1-Bromo-2-chloroethane	63	9.085	9.079	0.006	99	1628300	25.0	26.0	
72 cis-1,3-Dichloropropene	75	9.250	9.244	0.006	94	2599891	25.0	26.4	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	11662350	250.0	290.2	
$ 74 Toluene-d8 (Surr)	98	9.567	9.567	0.000	94	2214550	10.0	10.0	
75 Toluene	92	9.646	9.640	0.006	98	4165555	25.0	25.8	
76 trans-1,3-Dichloropropene	75	9.915	9.915	0.001	95	2224350	25.0	27.1	
78 Ethyl methacrylate	69	9.982	9.982	0.000	90	1887282	25.0	27.1	
S 77 1,3-Dichloropropene, Total	100				0			53.5	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	92	1117976	25.0	24.9	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	1784436	25.0	26.1	
81 1,3-Dichloropropane	76	10.293	10.292	0.001	93	2035100	25.0	25.4	
82 2-Hexanone	43	10.354	10.347	0.007	97	8482959	250.0	288.3	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	1418943	25.0	28.2	
84 Ethylene Dibromide	107	10.616	10.616	0.000	99	1125164	25.0	26.0	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.001	87	1650800	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	98	2395674	25.0	25.8	
87 Chlorobenzene	112	11.085	11.085	0.000	96	4644976	25.0	25.6	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	94	1635507	25.0	27.0	
90 Ethylbenzene	91	11.177	11.176	0.001	98	8252418	25.0	26.3	
S 88 Xylenes, Total	106				0			78.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	6394334	50.0	52.4	
92 o-Xylene	106	11.628	11.628	0.000	97	3174221	25.0	26.2	
93 Styrene	104	11.646	11.640	0.006	95	5385417	25.0	26.6	
94 Bromoform	173	11.798	11.798	0.000	96	840188	25.0	29.3	
95 Isopropylbenzene	105	11.933	11.932	0.000	96	8299693	25.0	26.4	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	848962	10.0	10.0	
99 1,1,2,2-Tetrachloroethane	83	12.189	12.188	0.001	95	1491735	25.0	25.7	
100 Bromobenzene	156	12.195	12.195	0.000	95	1961825	25.0	25.1	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	4687257	250.0	275.9	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	391011	25.0	24.9	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	9762204	25.0	25.8	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	1977820	25.0	25.3	
105 1,3,5-Trimethylbenzene	105	12.408	12.402	0.006	94	7249442	25.0	26.2	
106 4-Chlorotoluene	126	12.439	12.438	0.000	98	2064098	25.0	25.2	
107 tert-Butylbenzene	134	12.646	12.646	0.000	93	1553945	25.0	25.9	
108 Pentachloroethane	167	12.682	12.682	0.000	93	1238770	25.0	28.7	
109 1,2,4-Trimethylbenzene	105	12.695	12.688	0.007	97	7590861	25.0	26.5	
110 sec-Butylbenzene	105	12.816	12.816	0.000	95	9364813	25.0	26.4	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	3964367	25.0	25.7	
112 4-Isopropyltoluene	119	12.926	12.920	0.006	97	8213926	25.0	26.6	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	98	918475	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	93	4017272	25.0	25.3	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	3271199	25.0	25.7	
116 Benzyl chloride	126	13.066	13.066	0.000	99	654069	25.0	30.2	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	4179344	25.0	26.6	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	3660345	25.0	25.2	
118 p-Diethylbenzene	119	13.274	13.274	0.000	86	4135696	25.0	26.2	
123 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	84	225774	25.0	28.1	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	3241837	25.0	25.6	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	2885935	25.0	25.4	
126 Hexachlorobutadiene	225	14.438	14.432	0.006	98	1424579	25.0	26.4	
127 Naphthalene	128	14.536	14.536	0.000	97	5125836	25.0	25.0	
128 1,2,3-Trichlorobenzene	180	14.682	14.676	0.006	95	2494082	25.0	24.7	
129 2-Methylnaphthalene	142	15.298	15.304	-0.006	92	3416406	25.0	24.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added: 25.00	Units: uL	
MSV_RV4_826_00047	Amount Added: 25.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 23-Mar-2021 16:55:33 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D

Injection Date: 11-Mar-2021 19:26:30 Instrument ID: 10193 Operator ID: SRK36897

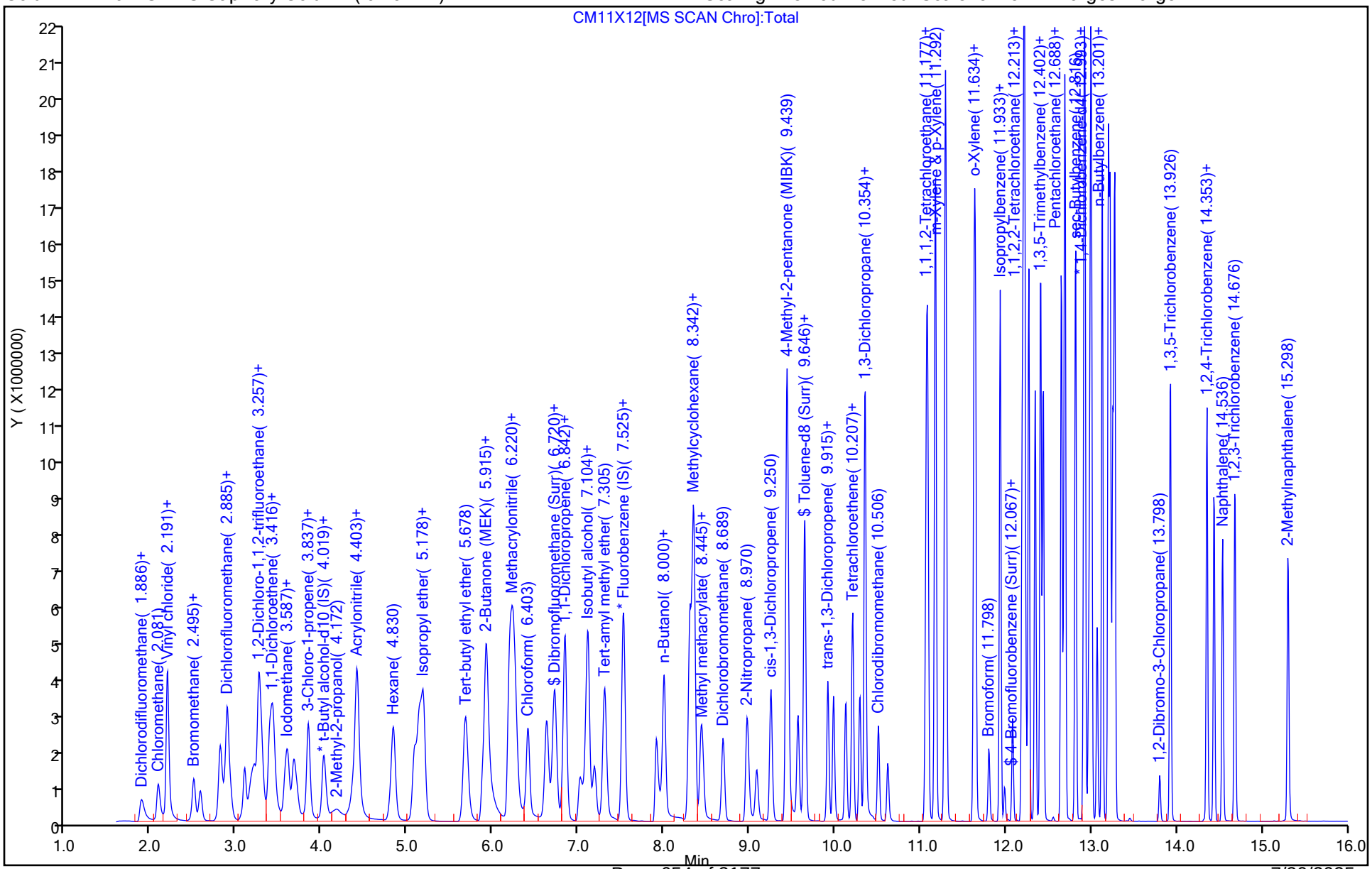
Lims ID: IC STD25 Lg Worklist Smp#: 12

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

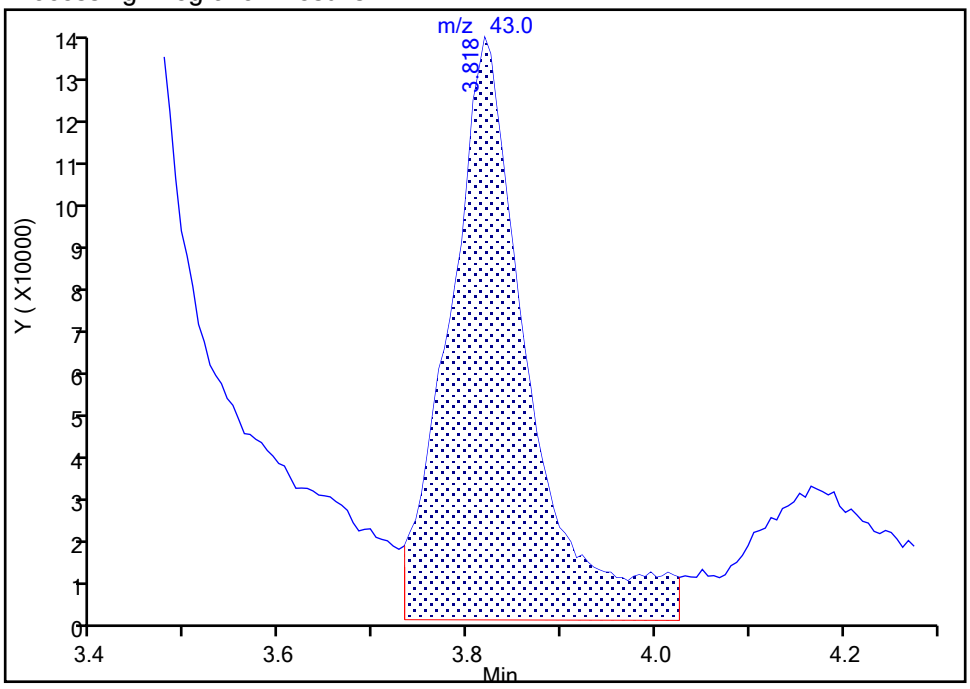
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D				
Injection Date:	11-Mar-2021 19:26:30	Instrument ID:	10193		
Lims ID:	IC STD25 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

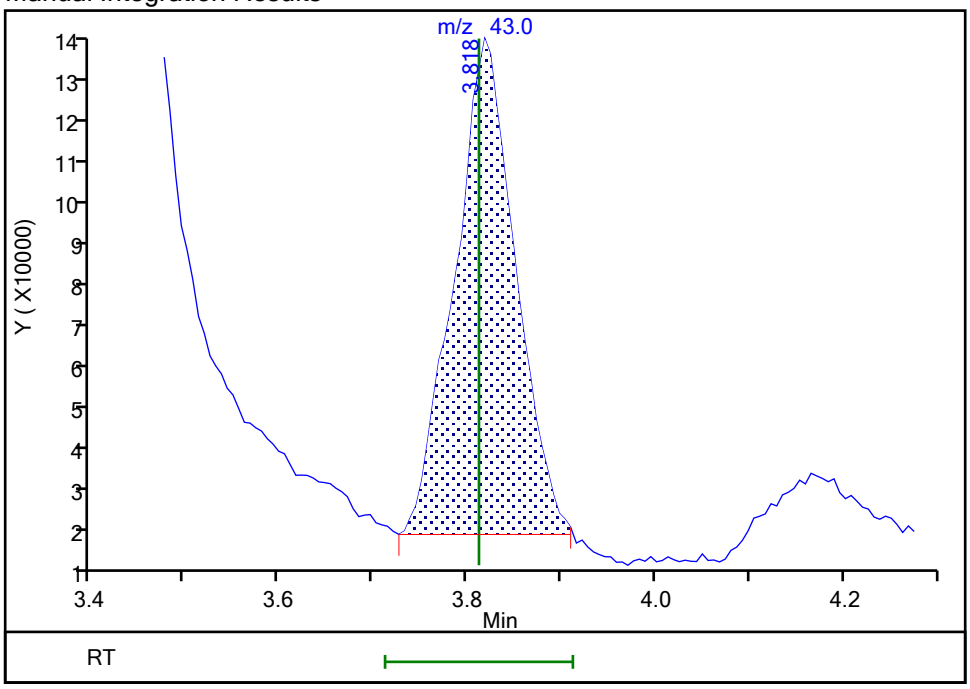
Processing Integration Results

RT: 3.82
Area: 748573
Amount: 27.333555
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 505443
Amount: 32.068131
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:19:36
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

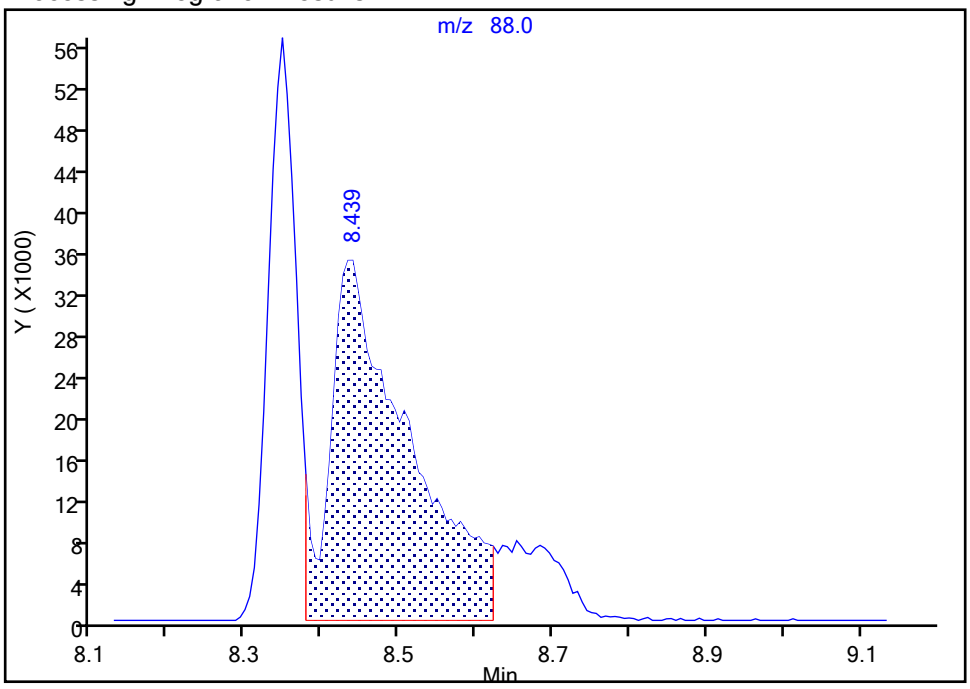
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X12.D				
Injection Date:	11-Mar-2021 19:26:30	Instrument ID:	10193		
Lims ID:	IC STD25 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

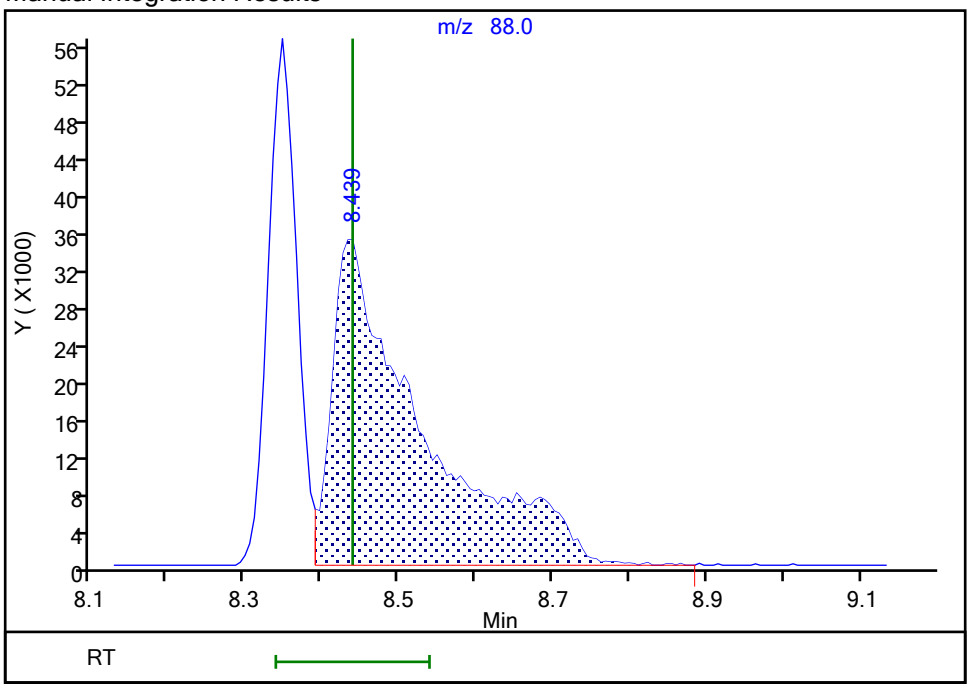
Processing Integration Results

RT: 8.44
Area: 251267
Amount: 1401.3815
Amount Units: ug/l



Manual Integration Results

RT: 8.44
Area: 286043
Amount: 1523.3380
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:07:35
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D
Lims ID: ICIS STD10 Lg
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 11-Mar-2021 19:49:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-013
Misc. Info.: IC STD5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:55:45 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:08:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	638910	10.0	10.9	
3 Chloromethane	50	2.075	2.075	0.000	99	745676	10.0	10.3	
4 Butadiene	39	2.178	2.178	0.000	92	773897	10.0	9.69	
5 Vinyl chloride	62	2.184	2.184	0.000	98	721419	10.0	10.9	
6 Bromomethane	94	2.495	2.495	0.000	91	484085	10.0	10.1	
7 Chloroethane	64	2.568	2.568	0.000	100	448998	10.0	10.3	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	1040739	10.0	10.4	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	99	974568	10.0	10.8	
11 Ethyl ether	59	3.087	3.087	0.000	93	516266	10.0	10.5	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.178	3.178	0.000	94	703428	10.0	9.91	
13 Acrolein	56	3.257	3.257	0.000	100	2949165	500.0	385.7	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	507852	10.0	9.93	
15 112TCTFE	101	3.416	3.416	0.000	93	576399	10.0	10.4	
16 Acetone	43	3.416	3.416	0.000	64	831213	100.0	92.1	M
17 Iodomethane	142	3.568	3.568	0.000	98	1002107	10.0	10.0	
18 Isopropyl alcohol	45	3.580	3.580	0.000	38	422637	200.0	197.2	
19 Ethyl bromide	108	3.593	3.593	0.000	98	445062	10.0	10.4	
20 Carbon disulfide	76	3.660	3.660	0.000	100	1813268	10.0	10.4	
22 Methyl acetate	43	3.812	3.812	0.000	97	214332	10.0	10.8	M
23 3-Chloro-1-propene	41	3.830	3.830	0.000	91	975407	10.0	10.3	
24 Methylene Chloride	84	4.013	4.013	0.000	94	572783	10.0	9.98	
* 25 t-Butyl alcohol-d10 (IS)	65	4.050	4.050	0.000	0	195338	50.0	50.0	
26 2-Methyl-2-propanol	59	4.160	4.160	0.000	100	626623	200.0	179.4	
27 Acrylonitrile	53	4.355	4.355	0.000	98	621154	50.0	48.5	
28 Methyl tert-butyl ether	73	4.397	4.397	0.000	96	1710267	10.0	10.1	
29 trans-1,2-Dichloroethene	96	4.403	4.403	0.000	97	582033	10.0	9.92	
30 Hexane	57	4.830	4.830	0.000	94	970731	10.0	10.5	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	1125021	10.0	10.1	
33 Isopropyl ether	45	5.129	5.129	0.000	94	2110173	10.0	10.1	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	92	1035042	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.671	0.000	98	2049982	10.0	10.1	
36 2-Butanone (MEK)	43	5.879	5.879	0.000	100	1736002	100.0	94.7	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	657423	10.0	9.96	
38 2,2-Dichloropropane	77	5.927	5.927	0.000	89	918101	10.0	10.2	
40 Propionitrile	54	5.982	5.982	0.000	99	973196	200.0	201.3	
43 Methacrylonitrile	67	6.196	6.196	0.000	93	1692968	100.0	93.6	
44 Chlorobromomethane	128	6.244	6.244	0.000	96	301517	10.0	10.3	
45 Tetrahydrofuran	71	6.251	6.251	0.000	80	505929	100.0	95.8	
46 Chloroform	83	6.409	6.409	0.000	94	1062972	10.0	10.0	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	94	531772	10.0	10.1	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	99	946677	10.0	10.1	
49 Cyclohexane	56	6.714	6.714	0.000	92	1159833	10.0	10.4	
50 Carbon tetrachloride	117	6.830	6.830	0.000	97	815634	10.0	10.5	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	96	883868	10.0	10.2	
52 Isobutyl alcohol	41	7.019	7.019	0.000	95	642545	500.0	495.4	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.080	0.000	0	109786	10.0	10.1	
54 Benzene	78	7.104	7.104	0.000	97	2522805	10.0	10.0	
55 1,2-Dichloroethane	62	7.183	7.183	0.000	98	736795	10.0	9.83	
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	1845644	10.0	10.2	
* 57 Fluorobenzene (IS)	96	7.519	7.519	0.000	99	2227977	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	95	1077491	10.0	10.6	
59 n-Butanol	56	7.915	7.915	0.000	89	1174357	1000.0	1067.7	
60 Trichloroethene	95	7.994	7.994	0.000	98	642792	10.0	10.1	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	1213428	10.0	10.6	
62 1,2-Dichloropropane	63	8.329	8.329	0.000	94	658625	10.0	10.1	
63 2-ethoxy-2-methyl butane	87	8.348	8.348	0.000	92	1038832	10.0	10.3	
64 Methyl methacrylate	69	8.427	8.427	0.000	92	337909	10.0	9.23	
65 1,4-Dioxane	88	8.439	8.439	0.000	33	95813	500.0	406.5	
66 Dibromomethane	93	8.445	8.445	0.000	97	312160	10.0	10.3	
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	778515	10.0	10.3	
68 2-Nitropropane	41	8.970	8.970	0.000	98	1144511	100.0	95.7	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	656800	10.0	10.6	
72 cis-1,3-Dichloropropene	75	9.244	9.244	0.000	96	1009092	10.0	10.4	
73 4-Methyl-2-pentanone (MIBK)	43	9.433	9.433	0.000	97	4771407	100.0	94.6	
$ 74 Toluene-d8 (Surr)	98	9.567	9.567	0.000	94	2198871	10.0	10.0	
75 Toluene	92	9.640	9.640	0.000	98	1605937	10.0	10.0	
76 trans-1,3-Dichloropropene	75	9.915	9.915	0.000	95	853284	10.0	10.5	
78 Ethyl methacrylate	69	9.982	9.982	0.000	90	742086	10.0	10.7	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	92	441913	10.0	9.94	
80 Tetrachloroethene	166	10.201	10.201	0.000	96	683362	10.0	10.1	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	93	809652	10.0	10.2	
82 2-Hexanone	43	10.347	10.347	0.000	97	3454536	100.0	93.5	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	545778	10.0	10.9	
84 Ethylene Dibromide	107	10.616	10.616	0.000	99	441336	10.0	10.3	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.061	0.000	87	1638044	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	97	912423	10.0	9.90	
87 Chlorobenzene	112	11.085	11.085	0.000	95	1801305	10.0	9.99	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	96	626288	10.0	10.4	
90 Ethylbenzene	91	11.176	11.176	0.000	99	3164725	10.0	10.1	
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	2463343	20.0	20.4	
92 o-Xylene	106	11.628	11.628	0.000	96	1213911	10.0	10.1	
93 Styrene	104	11.640	11.640	0.000	95	2073083	10.0	10.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
94 Bromoform	173	11.798	11.798	0.000	96	317762	10.0	11.2	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	3188415	10.0	10.2	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	89	848690	10.0	10.1	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	592875	10.0	10.3	
100 Bromobenzene	156	12.195	12.195	0.000	95	766044	10.0	9.88	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	1817706	100.0	107.9	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	159063	10.0	10.2	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	3763997	10.0	10.0	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	772351	10.0	9.95	
105 1,3,5-Trimethylbenzene	105	12.402	12.402	0.000	94	2778516	10.0	10.1	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	800200	10.0	9.85	
107 tert-Butylbenzene	134	12.646	12.646	0.000	93	599057	10.0	10.1	
108 Pentachloroethane	167	12.682	12.682	0.000	90	474580	10.0	11.1	
109 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	97	2904330	10.0	10.2	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	3614098	10.0	10.3	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	98	1535756	10.0	10.0	
112 4-Isopropyltoluene	119	12.920	12.920	0.000	97	3128497	10.0	10.2	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	95	910957	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	94	1567051	10.0	9.96	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	1289256	10.0	10.2	
116 Benzyl chloride	126	13.066	13.066	0.000	99	247999	10.0	11.5	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	1605529	10.0	10.3	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	1437655	10.0	9.97	
118 p-Diethylbenzene	119	13.274	13.274	0.000	86	1608512	10.0	10.3	
123 1,2-Dibromo-3-Chloropropane	155	13.798	13.798	0.000	92	89706	10.0	11.3	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	1251301	10.0	9.96	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	1141116	10.0	10.1	
126 Hexachlorobutadiene	225	14.432	14.432	0.000	98	556571	10.0	10.4	
127 Naphthalene	128	14.536	14.536	0.000	97	2104181	10.0	10.3	
128 1,2,3-Trichlorobenzene	180	14.676	14.676	0.000	95	1000463	10.0	9.97	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	1494646	10.0	10.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added: 10.00	Units: uL	
MSV_RV4_826_00047	Amount Added: 10.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added: 10.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 23-Mar-2021 16:55:47 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D

Injection Date: 11-Mar-2021 19:49:30 Instrument ID: 10193 Operator ID: SRK36897

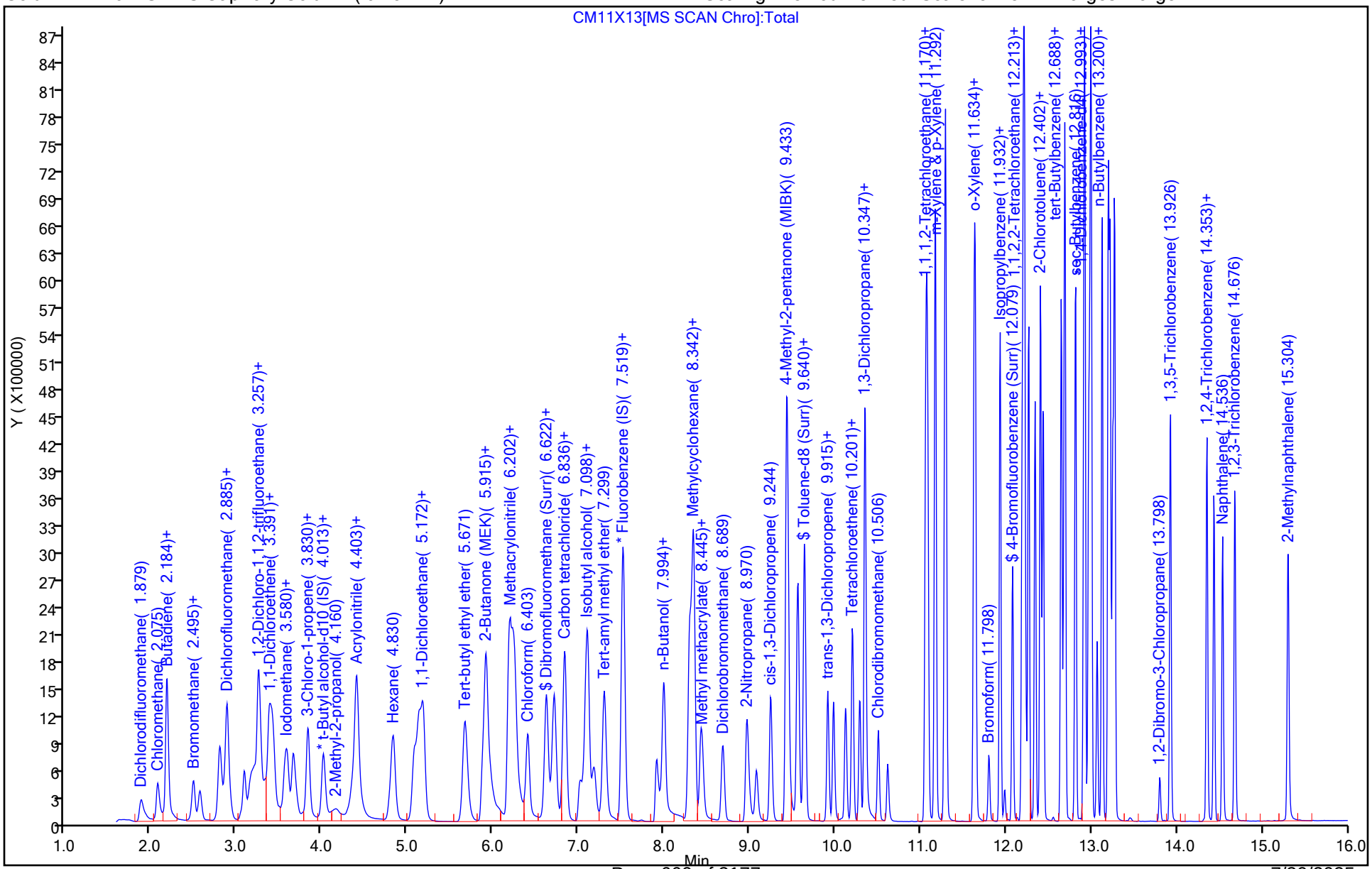
Lims ID: ICIS STD10 Lg Worklist Smp#: 13

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

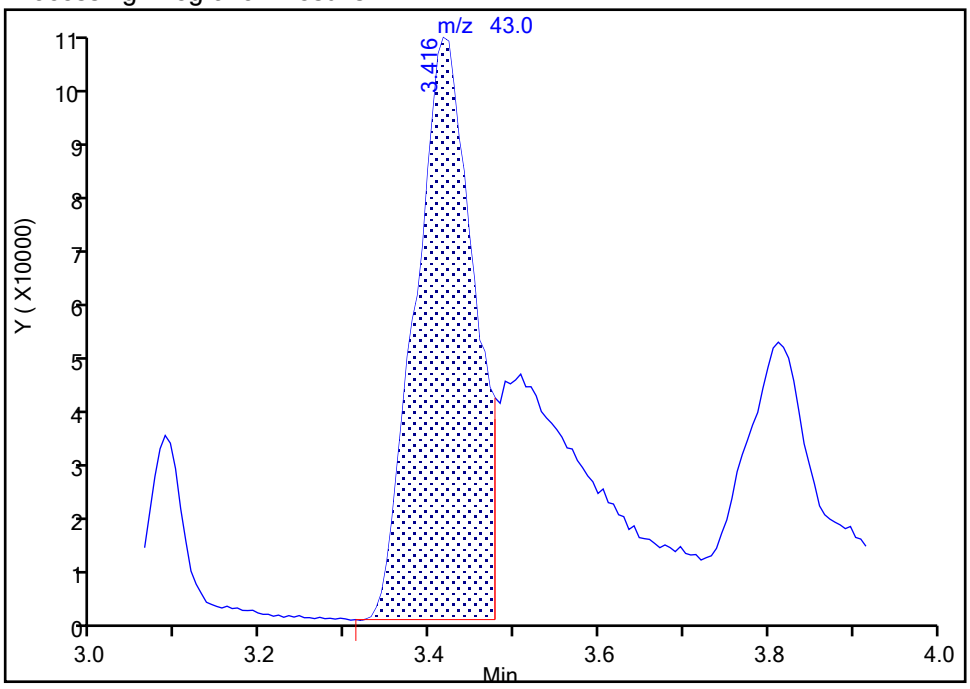
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D				
Injection Date:	11-Mar-2021 19:49:30	Instrument ID:	10193		
Lims ID:	ICIS STD10 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

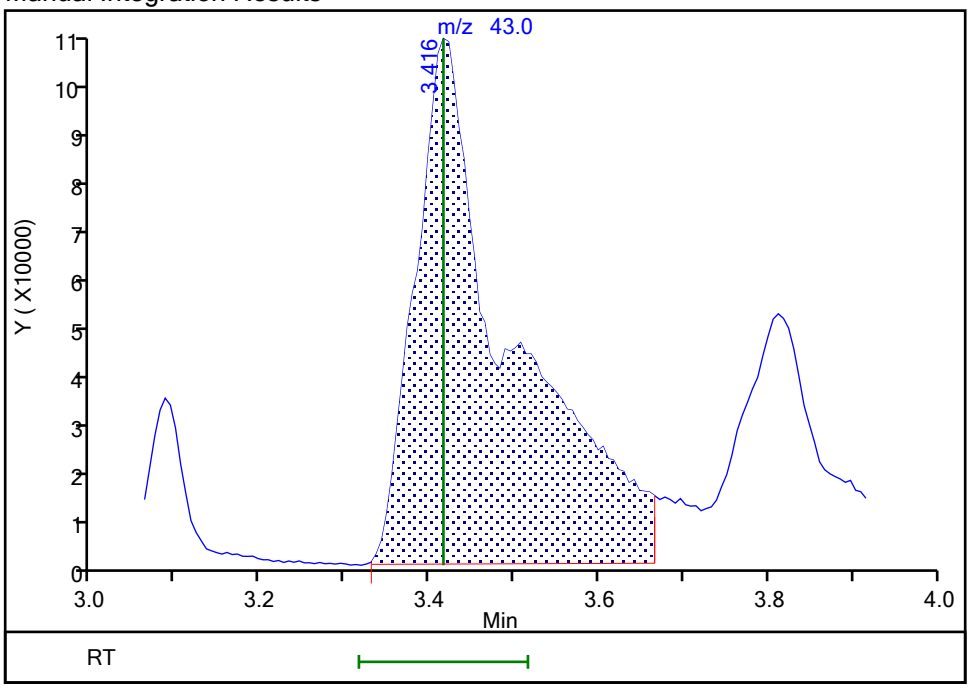
Processing Integration Results

RT: 3.42
Area: 506420
Amount: 59.167734
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 831213
Amount: 92.121100
Amount Units: ug/l



Reviewer: spositok, 23-Mar-2021 16:34:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

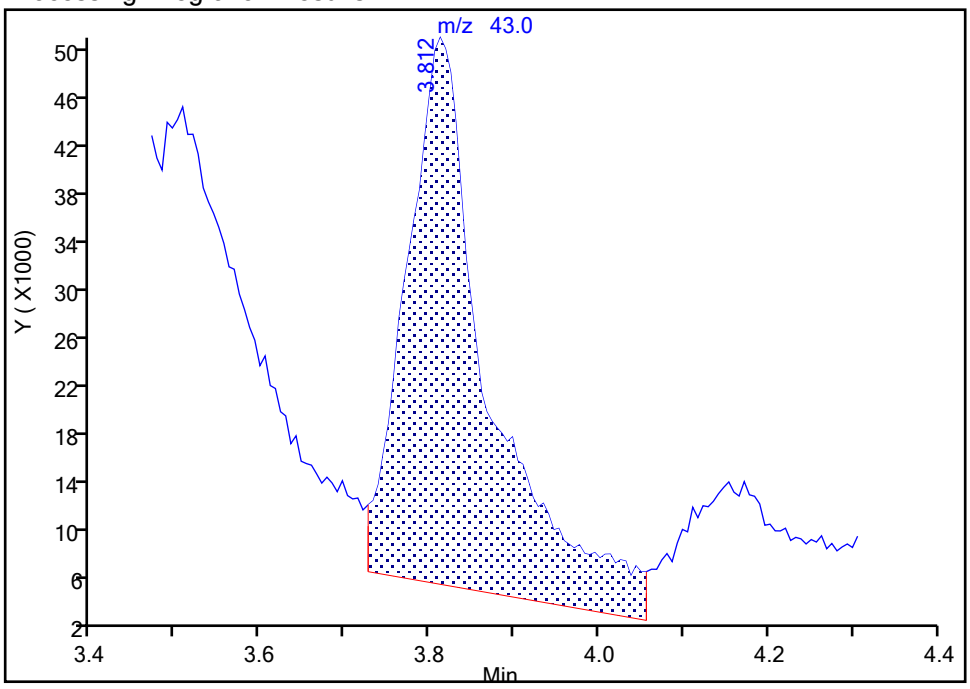
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X13.D				
Injection Date:	11-Mar-2021 19:49:30	Instrument ID:	10193		
Lims ID:	ICIS STD10 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

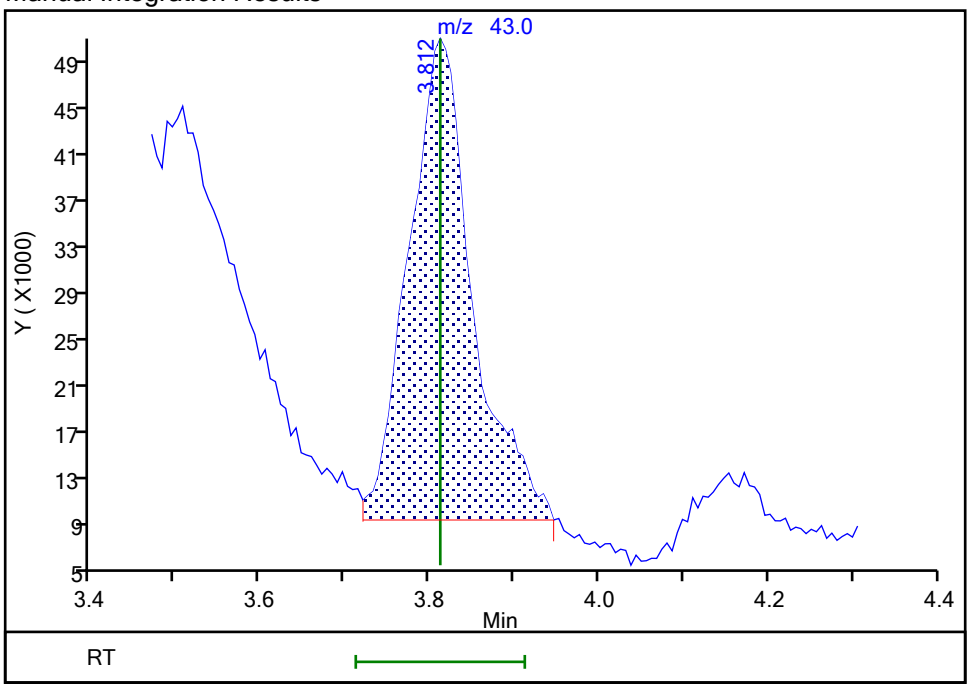
Processing Integration Results

RT: 3.81
Area: 309844
Amount: 10.928972
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 214332
Amount: 10.833250
Amount Units: ug/l



Reviewer: spositok, 23-Mar-2021 16:37:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Lims ID: IC STD5 Lg
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Mar-2021 20:11:30 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-014
Misc. Info.: IC STD5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:55:58 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:14:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	294102	5.00	5.00	
3 Chloromethane	50	2.068	2.075	-0.007	99	357138	5.00	4.92	
4 Butadiene	39	2.178	2.178	0.000	93	390039	5.00	4.89	
5 Vinyl chloride	62	2.184	2.184	0.000	98	337747	5.00	5.09	
6 Bromomethane	94	2.489	2.495	-0.006	91	235118	5.00	4.93	
7 Chloroethane	64	2.562	2.568	-0.006	100	221465	5.00	5.09	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	508015	5.00	5.07	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	98	452638	5.00	5.00	
11 Ethyl ether	59	3.086	3.087	-0.001	93	248665	5.00	5.06	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.178	-0.006	94	353727	5.00	4.99	
13 Acrolein	56	3.251	3.257	-0.006	99	1720138	250.0	256.3	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	251228	5.00	4.92	
15 112TCTFE	101	3.416	3.416	0.000	92	286674	5.00	5.16	
16 Acetone	43	3.416	3.416	0.000	60	404761	50.0	51.1	M
17 Iodomethane	142	3.562	3.568	-0.006	99	494002	5.00	4.95	
18 Isopropyl alcohol	45	3.586	3.580	0.006	29	183530	100.0	97.6	M
19 Ethyl bromide	108	3.586	3.593	-0.007	99	220183	5.00	5.14	
20 Carbon disulfide	76	3.660	3.660	0.000	100	878787	5.00	5.04	
22 Methyl acetate	43	3.812	3.812	0.000	20	94849	5.00	5.46	M
23 3-Chloro-1-propene	41	3.830	3.830	0.000	90	482293	5.00	5.11	
24 Methylene Chloride	84	4.007	4.013	-0.006	94	282773	5.00	4.93	
* 25 t-Butyl alcohol-d10 (IS)	65	4.025	4.050	-0.025	0	171477	50.0	50.0	
26 2-Methyl-2-propanol	59	4.141	4.160	-0.019	99	271870	100.0	88.7	M
27 Acrylonitrile	53	4.348	4.355	-0.007	99	293755	25.0	26.1	
28 Methyl tert-butyl ether	73	4.391	4.397	-0.006	96	831909	5.00	4.94	
29 trans-1,2-Dichloroethene	96	4.403	4.403	0.000	97	284572	5.00	4.86	
30 Hexane	57	4.824	4.830	-0.006	93	473040	5.00	5.11	
32 1,1-Dichloroethane	63	5.068	5.074	-0.006	96	552735	5.00	4.98	
33 Isopropyl ether	45	5.129	5.129	0.000	93	1036220	5.00	4.96	
34 2-Chloro-1,3-butadiene	53	5.178	5.184	-0.006	92	507130	5.00	5.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.665	5.671	-0.006	98	1009285	5.00	4.97	
36 2-Butanone (MEK)	43	5.879	5.879	0.000	100	813308	50.0	50.5	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	84	320444	5.00	4.86	
38 2,2-Dichloropropane	77	5.921	5.927	-0.006	90	447147	5.00	4.96	
40 Propionitrile	54	5.982	5.982	0.000	99	451607	100.0	106.4	
S 42 1,2-Dichloroethene, Total	100				0			9.72	
43 Methacrylonitrile	67	6.190	6.196	-0.006	93	802091	50.0	50.5	
44 Chlorobromomethane	128	6.244	6.244	0.000	85	147269	5.00	5.03	
45 Tetrahydrofuran	71	6.244	6.251	-0.007	79	236023	50.0	50.9	
46 Chloroform	83	6.403	6.409	-0.006	94	518824	5.00	4.89	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	523395	10.0	9.93	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	98	464120	5.00	4.97	
49 Cyclohexane	56	6.714	6.714	0.000	92	564209	5.00	5.06	
50 Carbon tetrachloride	117	6.830	6.830	0.000	96	396536	5.00	5.09	
51 1,1-Dichloropropene	75	6.836	6.842	-0.006	96	431370	5.00	4.97	
52 Isobutyl alcohol	41	7.019	7.019	0.000	94	276854	250.0	243.2	M
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	107522	10.0	9.91	
54 Benzene	78	7.098	7.104	-0.006	97	1248937	5.00	4.97	
55 1,2-Dichloroethane	62	7.177	7.183	-0.006	97	366485	5.00	4.89	M
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	912145	5.00	5.04	
* 57 Fluorobenzene (IS)	96	7.512	7.519	-0.007	99	2225895	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	95	502833	5.00	4.94	M
59 n-Butanol	56	7.921	7.915	0.006	90	471831	500.0	488.7	
60 Trichloroethene	95	7.994	7.994	0.000	98	315510	5.00	4.95	
61 Methylcyclohexane	83	8.299	8.299	0.000	94	587148	5.00	5.15	
62 1,2-Dichloropropane	63	8.335	8.329	0.006	95	322727	5.00	4.97	
63 2-ethoxy-2-methyl butane	87	8.348	8.348	0.000	92	506402	5.00	5.02	
64 Methyl methacrylate	69	8.433	8.427	0.006	91	161291	5.00	5.02	
65 1,4-Dioxane	88	8.451	8.439	0.012	33	44758	250.0	216.3	M
66 Dibromomethane	93	8.445	8.445	0.000	96	152781	5.00	5.04	
67 Dichlorobromomethane	83	8.683	8.689	-0.006	99	376731	5.00	5.01	
68 2-Nitropropane	41	8.969	8.970	-0.001	99	538810	50.0	51.3	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	319358	5.00	5.17	
72 cis-1,3-Dichloropropene	75	9.250	9.244	0.006	94	489649	5.00	5.04	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	2292161	50.0	51.8	
$ 74 Toluene-d8 (Surr)	98	9.561	9.567	-0.006	94	2192656	10.0	10.0	
75 Toluene	92	9.640	9.640	0.000	98	789331	5.00	4.93	
76 trans-1,3-Dichloropropene	75	9.914	9.915	0.000	95	416755	5.00	5.11	
78 Ethyl methacrylate	69	9.981	9.982	-0.001	90	355177	5.00	5.13	
S 77 1,3-Dichloropropene, Total	100				0			10.1	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	91	217256	5.00	4.88	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	341079	5.00	5.03	
81 1,3-Dichloropropane	76	10.286	10.292	-0.006	93	398453	5.00	5.01	
82 2-Hexanone	43	10.353	10.347	0.006	97	1659867	50.0	51.2	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	261477	5.00	5.22	
84 Ethylene Dibromide	107	10.615	10.616	-0.001	98	218598	5.00	5.09	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.061	0.000	87	1639832	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	98	448580	5.00	4.86	
87 Chlorobenzene	112	11.085	11.085	0.000	95	886357	5.00	4.91	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	95	304715	5.00	5.06	
90 Ethylbenzene	91	11.176	11.176	0.000	98	1549862	5.00	4.96	
S 88 Xylenes, Total	106				0			15.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	1212550	10.0	10.0	
92 o-Xylene	106	11.627	11.628	-0.001	96	602252	5.00	5.00	
93 Styrene	104	11.646	11.640	0.006	95	1009923	5.00	5.02	
94 Bromoform	173	11.804	11.798	0.006	96	148820	5.00	5.23	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	1579935	5.00	5.05	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	842387	10.0	10.0	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	286030	5.00	5.06	
100 Bromobenzene	156	12.194	12.195	-0.001	96	376924	5.00	4.95	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	854847	50.0	51.7	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	81	76620	5.00	5.01	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	1867683	5.00	5.07	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	377056	5.00	4.94	
105 1,3,5-Trimethylbenzene	105	12.408	12.402	0.006	94	1361103	5.00	5.04	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	395625	5.00	4.96	
107 tert-Butylbenzene	134	12.646	12.646	0.000	94	292682	5.00	5.02	
108 Pentachloroethane	167	12.682	12.682	0.000	91	226171	5.00	5.38	
109 1,2,4-Trimethylbenzene	105	12.688	12.688	0.000	97	1418798	5.00	5.08	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	1759985	5.00	5.09	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	98	749097	5.00	4.98	
112 4-Isopropyltoluene	119	12.926	12.920	0.006	97	1532453	5.00	5.10	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	894811	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	94	760244	5.00	4.92	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	632118	5.00	5.09	
116 Benzyl chloride	126	13.066	13.066	0.000	99	116529	5.00	5.52	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	782387	5.00	5.10	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	701278	5.00	4.95	
118 p-Diethylbenzene	119	13.274	13.274	0.000	87	788150	5.00	5.13	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.798	0.006	83	40377	5.00	5.16	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	615322	5.00	4.99	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	555942	5.00	5.01	
126 Hexachlorobutadiene	225	14.438	14.432	0.006	98	266521	5.00	5.06	
127 Naphthalene	128	14.535	14.536	-0.001	97	1013305	5.00	5.07	
128 1,2,3-Trichlorobenzene	180	14.682	14.676	0.006	95	488994	5.00	4.96	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	718911	5.00	5.20	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	5.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	5.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	5.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

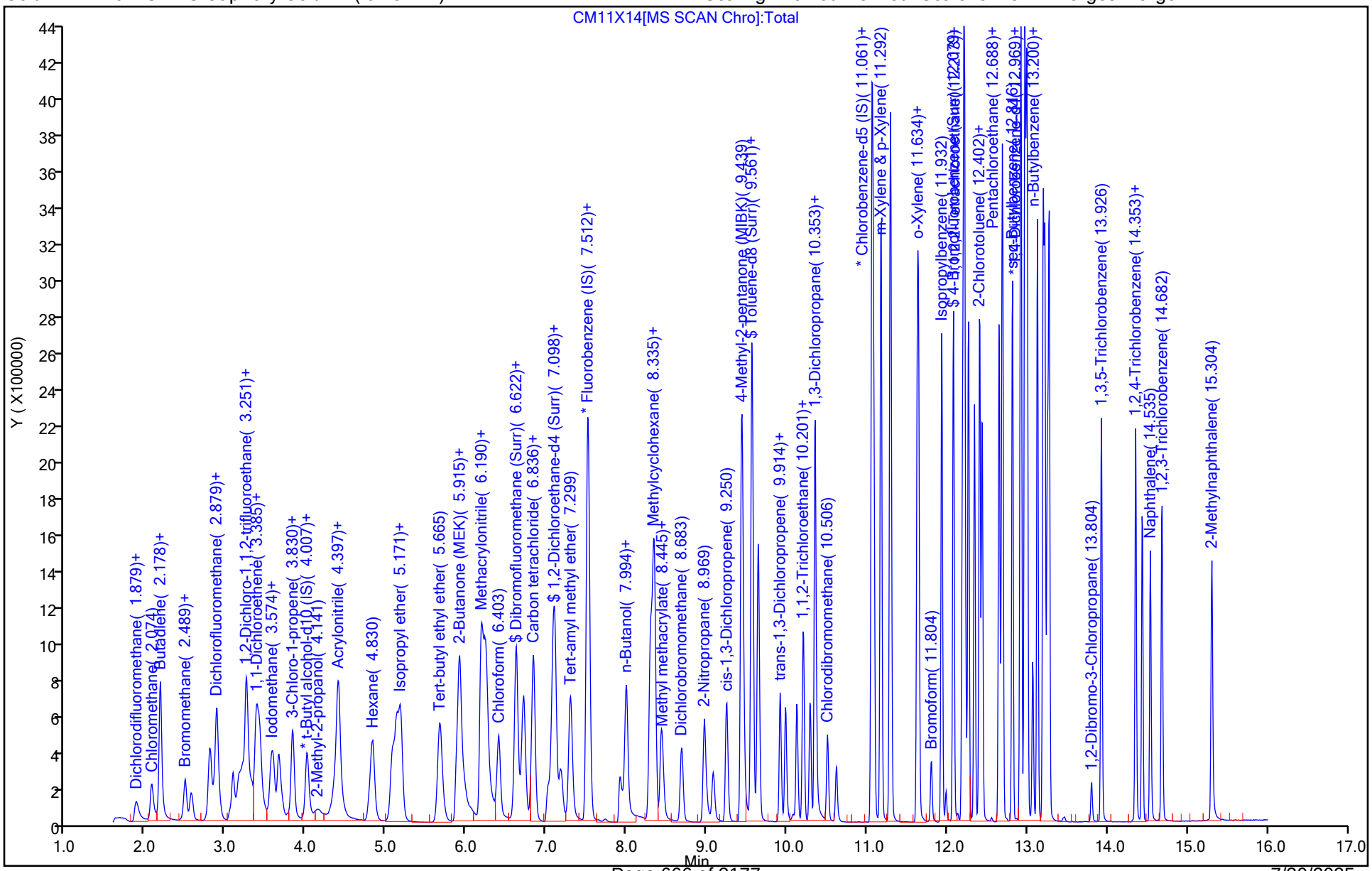
Report Date: 23-Mar-2021 16:56:00 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D

Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD5 Lg			Worklist Smp#:	14
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

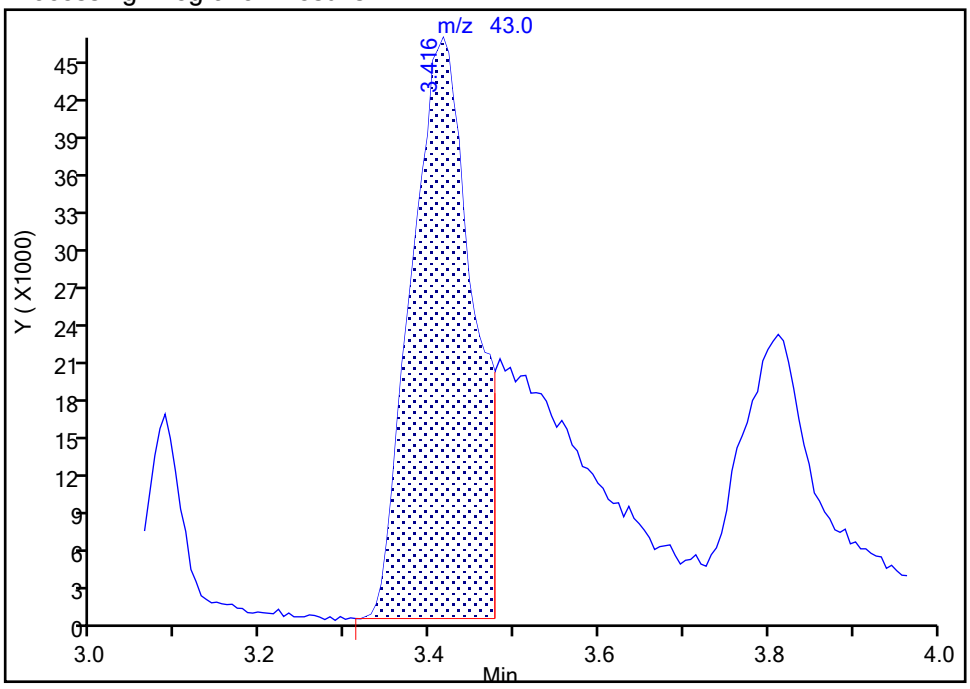
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Injection Date: 11-Mar-2021 20:11:30 Instrument ID: 10193
Lims ID: IC STD5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

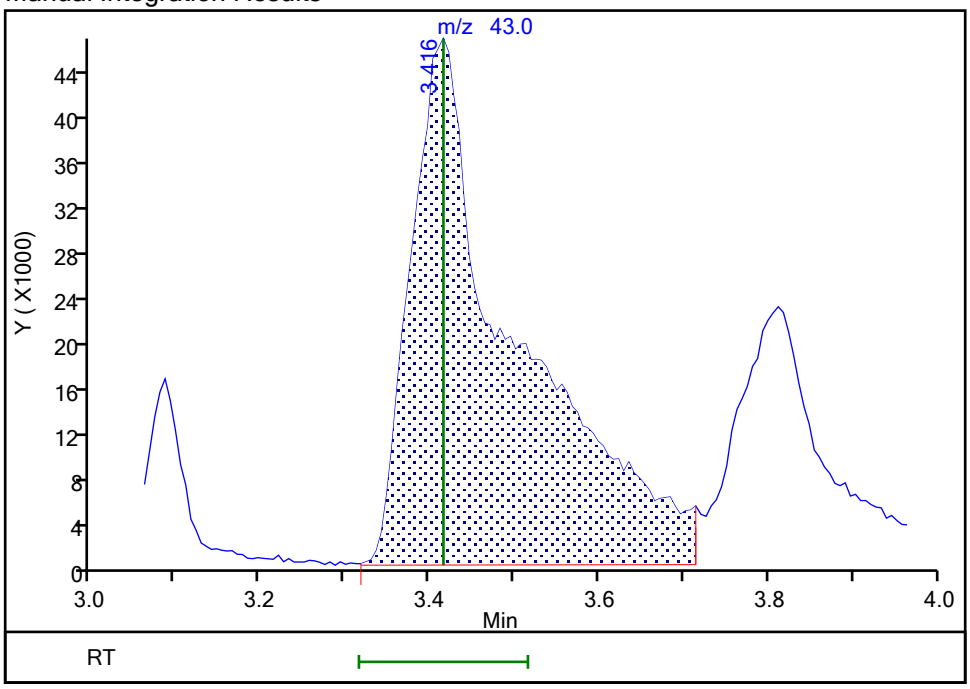
Processing Integration Results

RT: 3.42
Area: 235215
Amount: 34.071842
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 404761
Amount: 51.100636
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:09:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

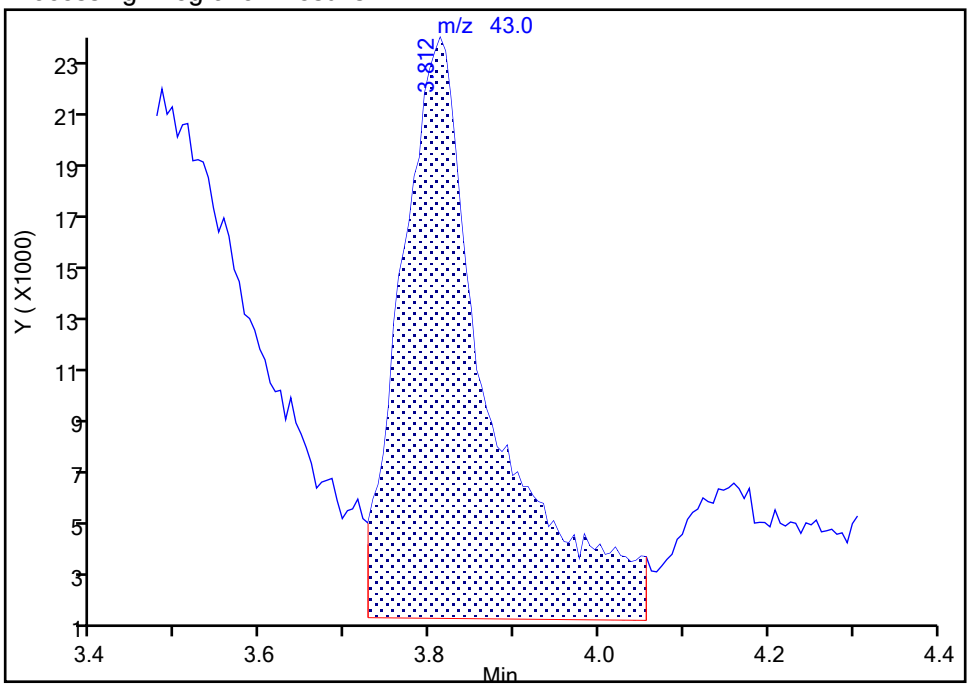
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Injection Date: 11-Mar-2021 20:11:30 Instrument ID: 10193
Lims ID: IC STD5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

22 Methyl acetate, CAS: 79-20-9

Signal: 1

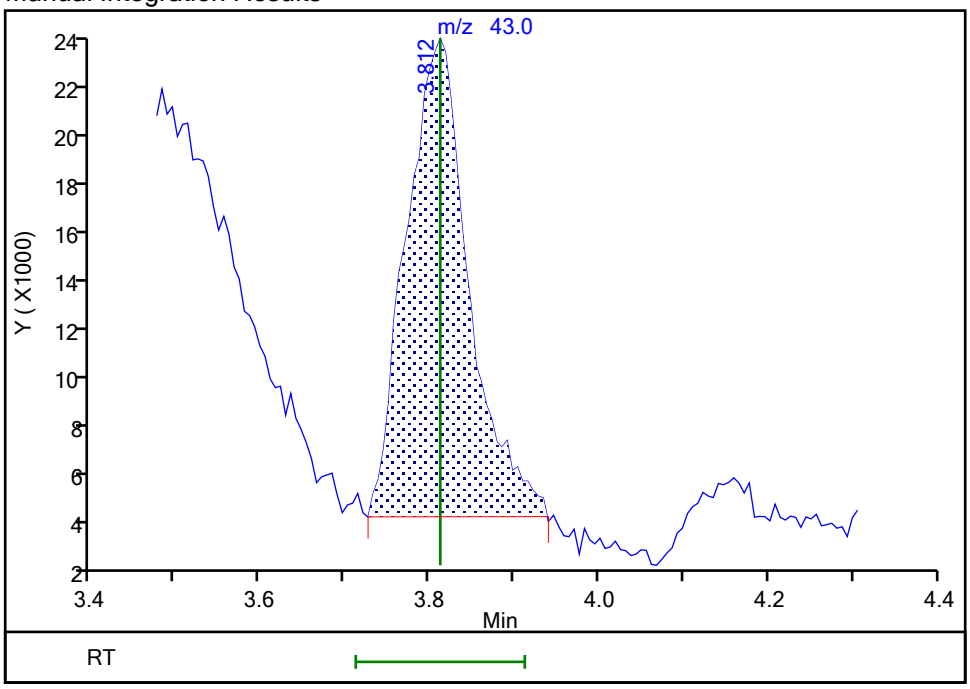
Processing Integration Results

RT: 3.81
Area: 161863
Amount: 5.407211
Amount Units: ug/l



Manual Integration Results

RT: 3.81
Area: 94849
Amount: 5.461166
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:10:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

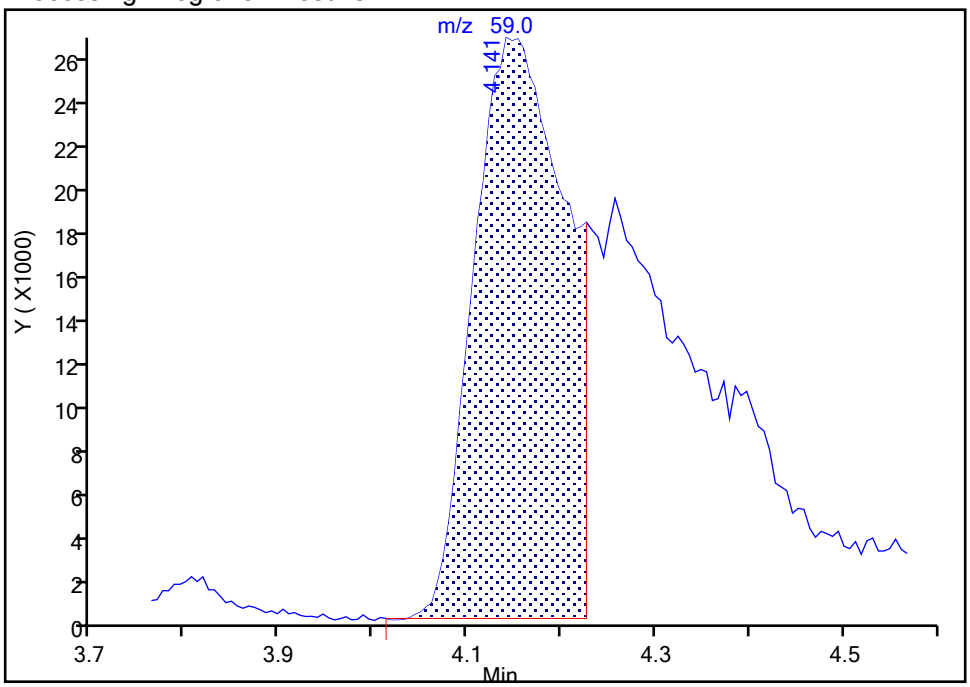
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D
Injection Date: 11-Mar-2021 20:11:30 Instrument ID: 10193
Lims ID: IC STD5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 14 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

26 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

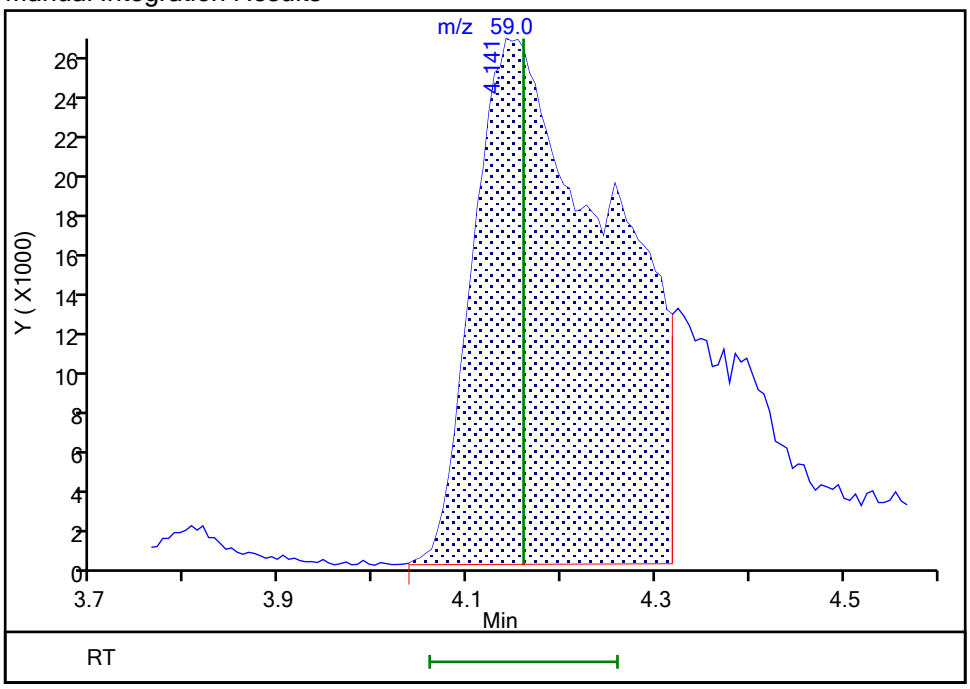
Processing Integration Results

RT: 4.14
Area: 181784
Amount: 77.819315
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 271870
Amount: 88.673993
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:10:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

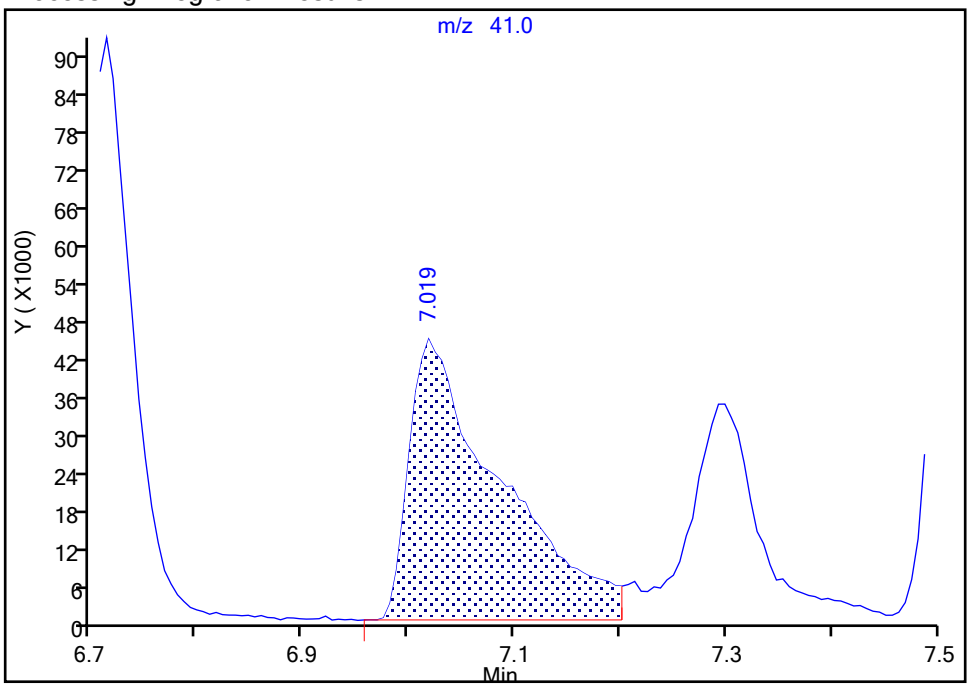
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

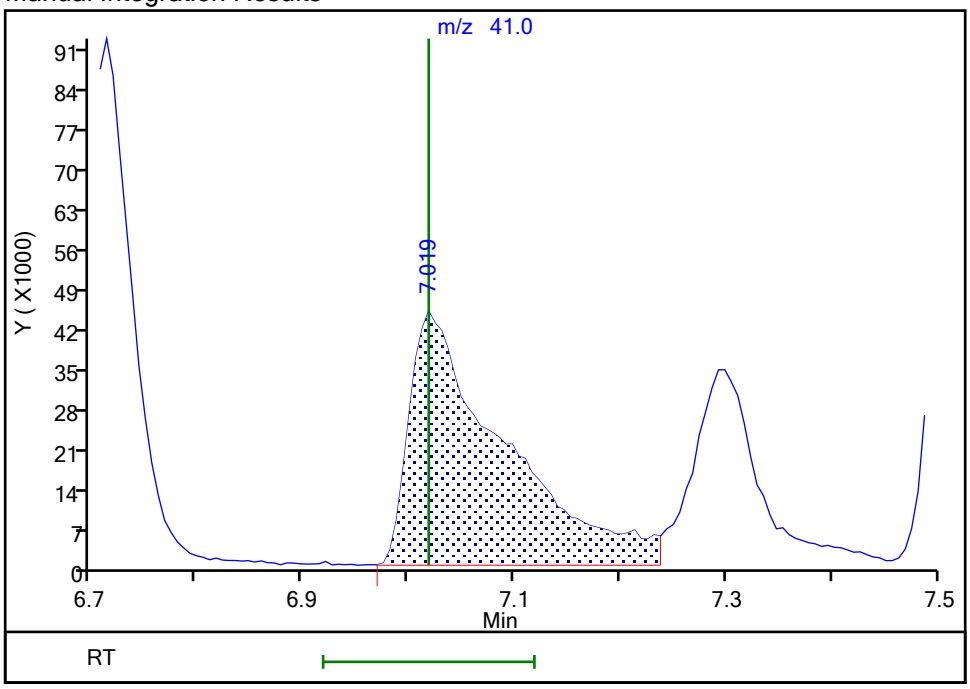
Processing Integration Results

RT: 7.02
Area: 264541
Amount: 228.6949
Amount Units: ug/l



Manual Integration Results

RT: 7.02
Area: 276854
Amount: 243.1722
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:11:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

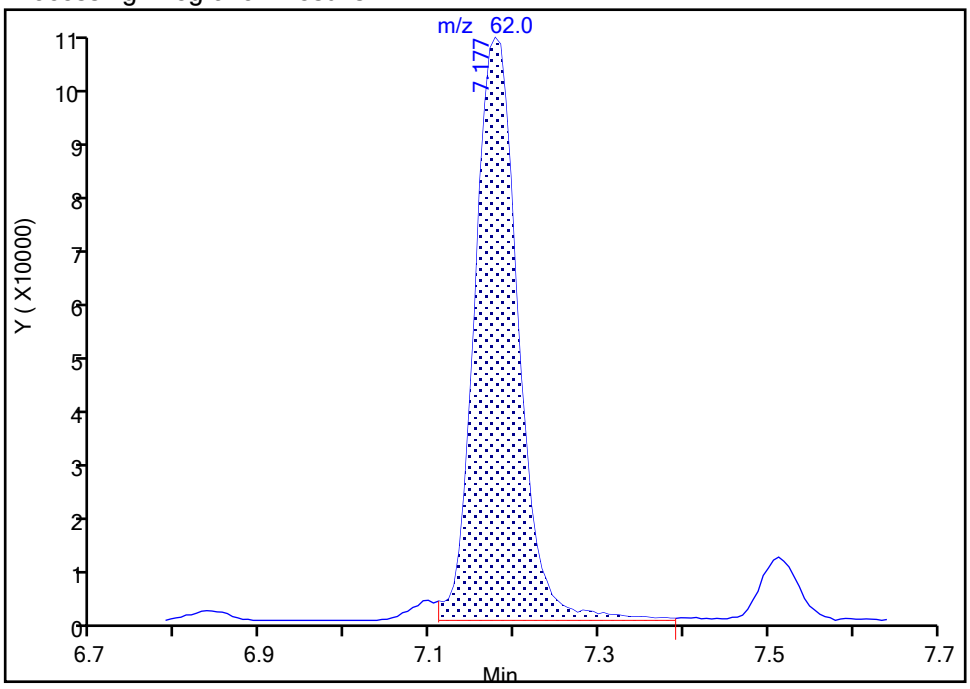
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

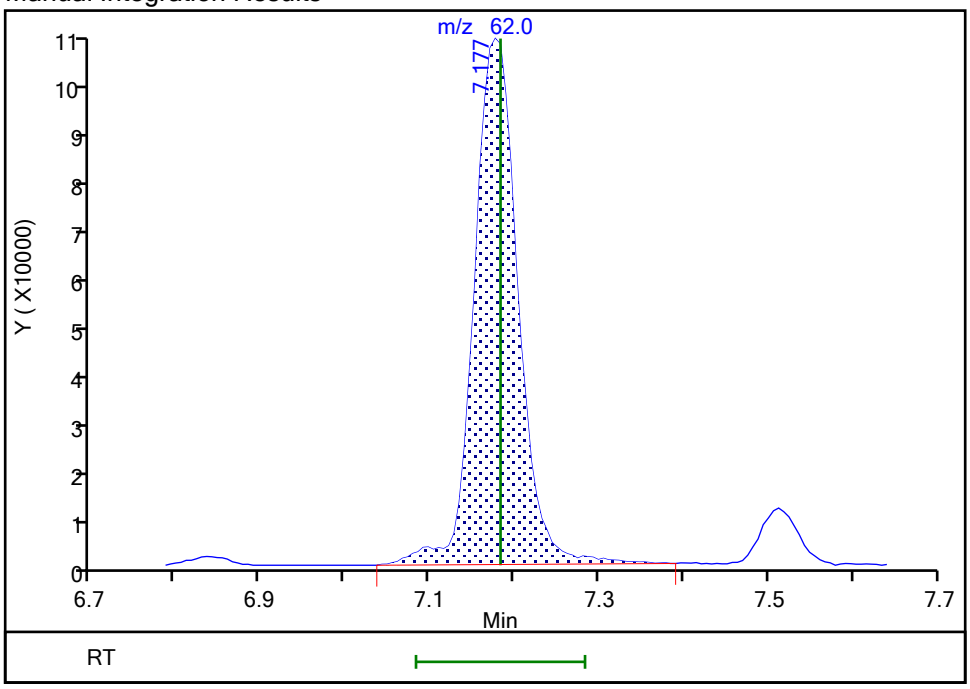
Processing Integration Results

RT: 7.18
Area: 363157
Amount: 4.865798
Amount Units: ug/l



Manual Integration Results

RT: 7.18
Area: 366485
Amount: 4.891659
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:11:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

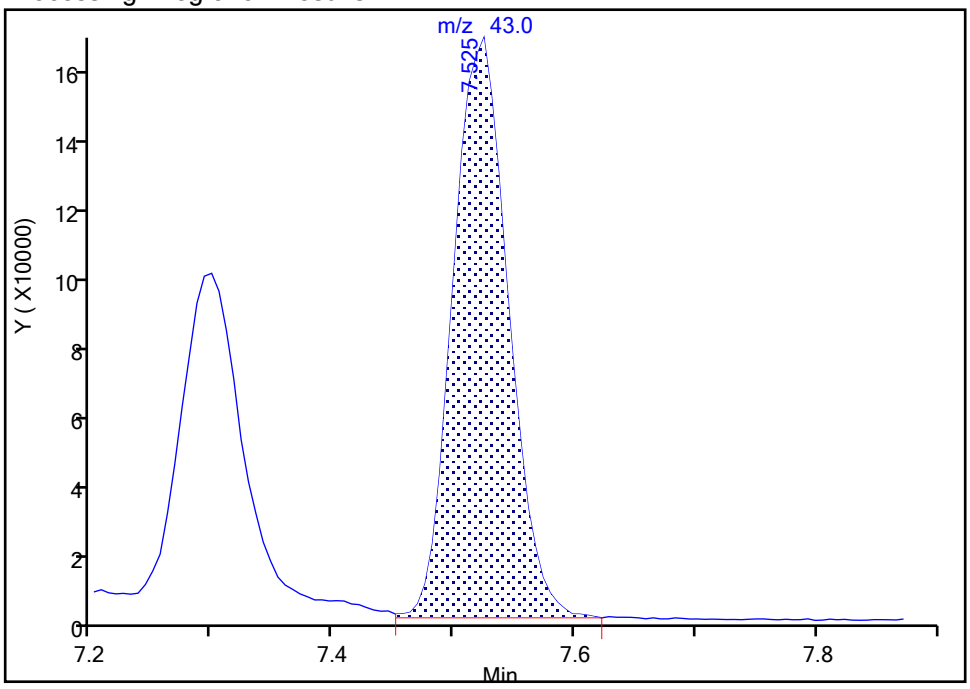
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

58 n-Heptane, CAS: 142-82-5

Signal: 1

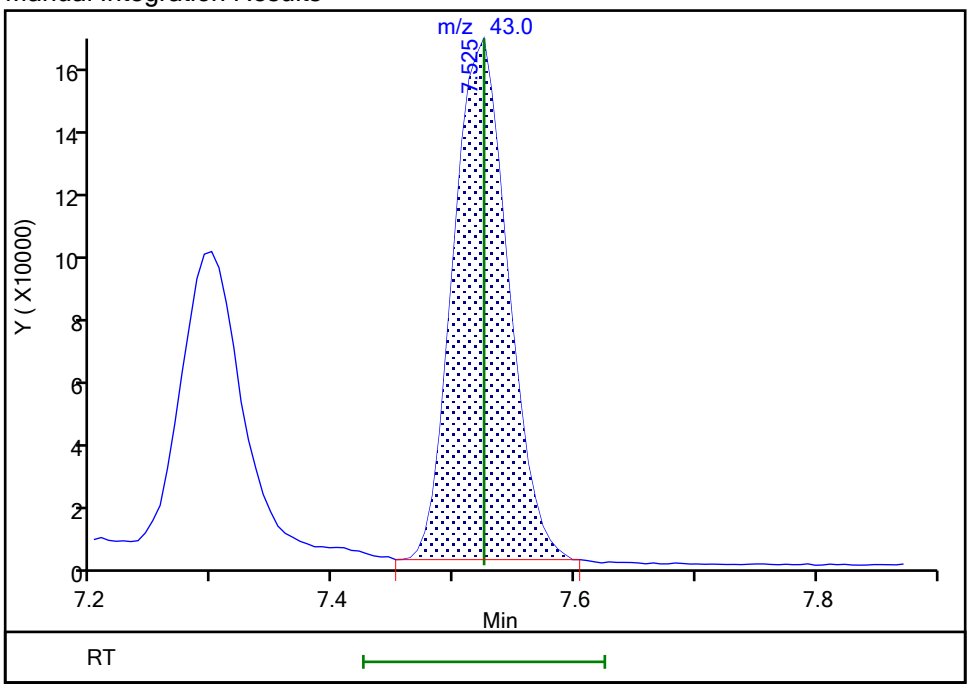
Processing Integration Results

RT: 7.52
Area: 512899
Amount: 5.121732
Amount Units: ug/l



Manual Integration Results

RT: 7.52
Area: 502833
Amount: 4.938499
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:12:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

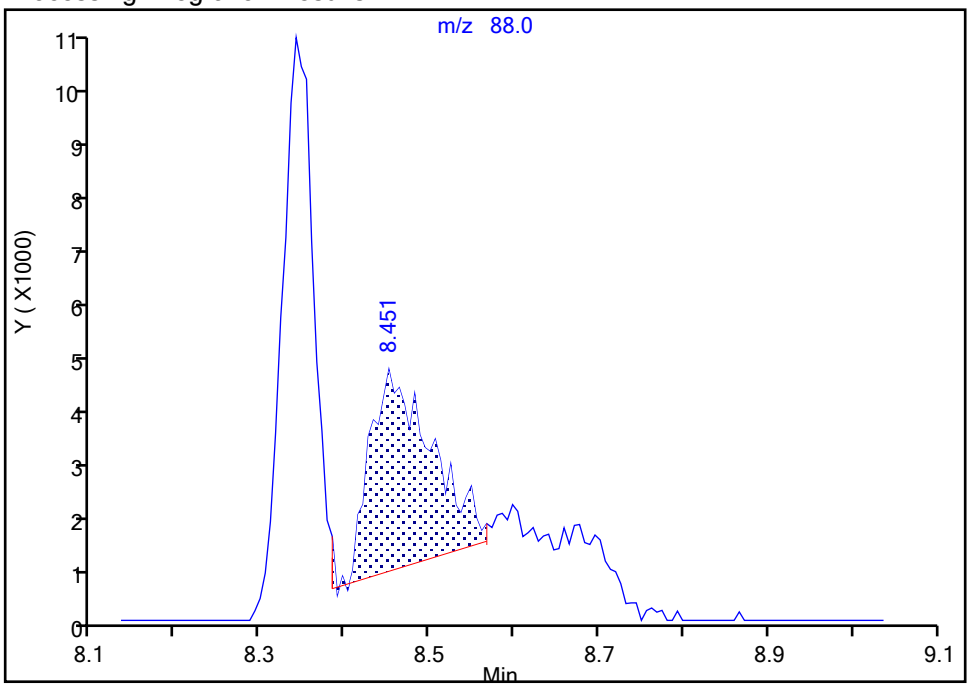
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X14.D				
Injection Date:	11-Mar-2021 20:11:30	Instrument ID:	10193		
Lims ID:	IC STD5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	14	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

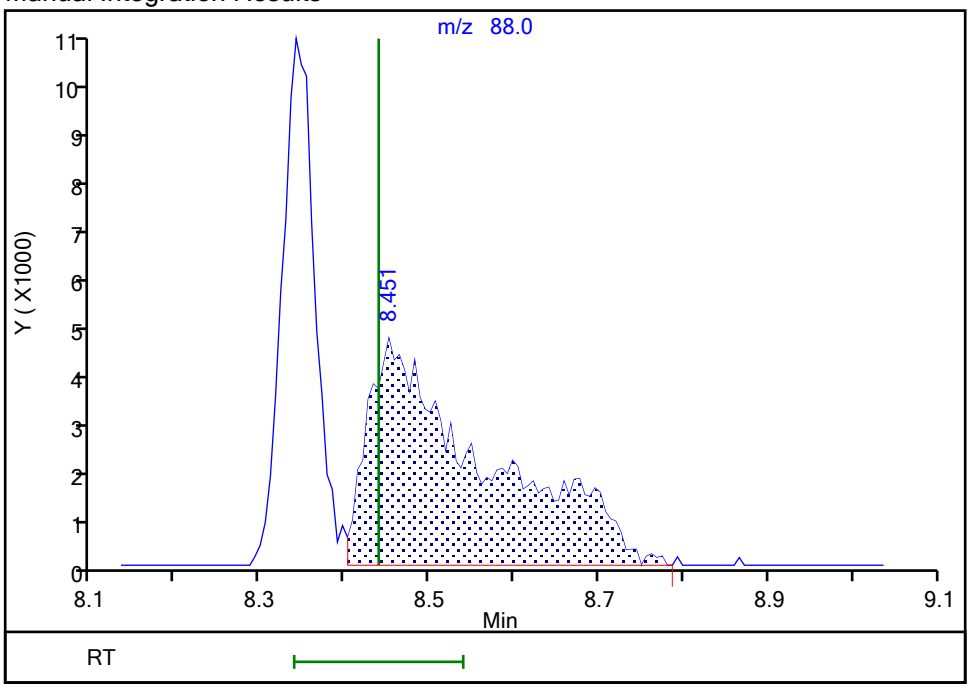
Processing Integration Results

RT: 8.45
Area: 18915
Amount: 136.3588
Amount Units: ug/l



Manual Integration Results

RT: 8.45
Area: 44758
Amount: 216.3151
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:01:14
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Lims ID: IC STD2 Lg
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Mar-2021 20:33:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-015
Misc. Info.: IC STD2 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:12 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:20:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	99	111163	2.00	1.91	
3 Chloromethane	50	2.074	2.074	0.000	99	132701	2.00	1.85	M
4 Butadiene	39	2.178	2.178	0.000	93	159570	2.00	2.02	
5 Vinyl chloride	62	2.184	2.184	0.000	67	128627	2.00	1.96	
6 Bromomethane	94	2.489	2.489	0.000	92	87944	2.00	1.86	
7 Chloroethane	64	2.562	2.562	0.000	99	81222	2.00	1.89	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	185905	2.00	1.88	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	97	169901	2.00	1.90	M
11 Ethyl ether	59	3.086	3.086	0.000	91	91906	2.00	1.89	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.172	0.000	95	142547	2.00	2.03	
13 Acrolein	56	3.257	3.257	0.000	99	710384	100.0	104.9	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	100690	2.00	1.99	
15 112TCTFE	101	3.410	3.410	0.000	93	113688	2.00	2.07	
16 Acetone	43	3.416	3.416	0.000	60	165522	20.0	20.7	M
17 Iodomethane	142	3.562	3.562	0.000	99	198061	2.00	2.01	
18 Isopropyl alcohol	45	3.586	3.586	0.000	38	62557	40.0	33.0	
19 Ethyl bromide	108	3.592	3.592	0.000	97	80324	2.00	1.90	
20 Carbon disulfide	76	3.659	3.659	0.000	100	342025	2.00	1.98	
22 Methyl acetate	43	3.824	3.824	0.000	96	29570	2.00	1.69	M
23 3-Chloro-1-propene	41	3.830	3.830	0.000	90	171541	2.00	1.84	
24 Methylene Chloride	84	4.007	4.007	0.000	94	113062	2.00	1.99	
* 25 t-Butyl alcohol-d10 (IS)	65	4.050	4.050	0.000	0	173036	50.0	50.0	
26 2-Methyl-2-propanol	59	4.165	4.165	0.000	99	113296	40.0	36.6	
27 Acrylonitrile	53	4.354	4.354	0.000	99	110460	10.0	9.73	
28 Methyl tert-butyl ether	73	4.391	4.391	0.000	95	337303	2.00	2.02	
29 trans-1,2-Dichloroethene	96	4.403	4.403	0.000	97	116638	2.00	2.01	
30 Hexane	57	4.824	4.824	0.000	94	184368	2.00	2.01	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	218292	2.00	1.99	
33 Isopropyl ether	45	5.129	5.129	0.000	94	418436	2.00	2.03	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	92	197110	2.00	1.98	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.665	5.665	0.000	98	404995	2.00	2.01	
36 2-Butanone (MEK)	43	5.885	5.885	0.000	100	334264	20.0	20.6	
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	83	132404	2.00	2.03	
38 2,2-Dichloropropane	77	5.921	5.921	0.000	90	180432	2.00	2.02	
40 Propionitrile	54	5.988	5.988	0.000	99	183011	40.0	42.7	
S 42 1,2-Dichloroethene, Total	100				0			4.04	
43 Methacrylonitrile	67	6.189	6.189	0.000	92	318559	20.0	19.9	
44 Chlorobromomethane	128	6.244	6.244	0.000	93	55137	2.00	1.90	
45 Tetrahydrofuran	71	6.250	6.250	0.000	91	96621	20.0	20.7	
46 Chloroform	83	6.403	6.403	0.000	94	209889	2.00	2.00	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	522307	10.0	10.0	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	89	184579	2.00	2.00	
49 Cyclohexane	56	6.714	6.714	0.000	93	223626	2.00	2.03	
50 Carbon tetrachloride	117	6.830	6.830	0.000	98	153315	2.00	1.99	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	95	170486	2.00	1.99	
52 Isobutyl alcohol	41	7.031	7.031	0.000	94	104478	100.0	90.9	M
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.080	7.080	0.000	0	107636	10.0	10.0	
54 Benzene	78	7.104	7.104	0.000	95	493717	2.00	1.99	
55 1,2-Dichloroethane	62	7.171	7.171	0.000	97	145889	2.00	1.97	M
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	360361	2.00	2.01	
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	99	2201773	10.0	10.0	
58 n-Heptane	43	7.525	7.525	0.000	94	195123	2.00	1.94	
59 n-Butanol	56	7.927	7.927	0.000	90	174724	200.0	179.3	M
60 Trichloroethene	95	7.994	7.994	0.000	97	125981	2.00	2.00	
61 Methylcyclohexane	83	8.299	8.299	0.000	93	203974	2.00	1.81	
62 1,2-Dichloropropane	63	8.335	8.335	0.000	95	128598	2.00	2.00	
63 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	93	202202	2.00	2.03	
64 Methyl methacrylate	69	8.433	8.433	0.000	92	67109	2.00	2.07	
65 1,4-Dioxane	88	8.482	8.482	0.000	30	18216	100.0	87.2	M
66 Dibromomethane	93	8.439	8.439	0.000	98	60285	2.00	2.01	
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	148536	2.00	2.00	
68 2-Nitropropane	41	8.969	8.969	0.000	99	216244	20.0	20.4	
71 1-Bromo-2-chloroethane	63	9.079	9.079	0.000	99	117451	2.00	1.92	
72 cis-1,3-Dichloropropene	75	9.250	9.250	0.000	94	195611	2.00	2.04	
73 4-Methyl-2-pentanone (MIBK)	43	9.433	9.433	0.000	97	925221	20.0	20.7	
$ 74 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	2177829	10.0	10.0	
75 Toluene	92	9.640	9.640	0.000	98	318476	2.00	2.01	
76 trans-1,3-Dichloropropene	75	9.914	9.914	0.000	95	158328	2.00	1.96	
78 Ethyl methacrylate	69	9.981	9.981	0.000	90	142527	2.00	2.08	
S 77 1,3-Dichloropropene, Total	100				0			3.99	
79 1,1,2-Trichloroethane	97	10.122	10.122	0.000	91	89420	2.00	2.03	
80 Tetrachloroethene	166	10.201	10.201	0.000	96	136374	2.00	2.03	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	93	158670	2.00	2.01	
82 2-Hexanone	43	10.353	10.353	0.000	97	658249	20.0	20.1	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	99777	2.00	2.01	
84 Ethylene Dibromide	107	10.615	10.615	0.000	98	86725	2.00	2.04	
* 85 Chlorobenzene-d5 (IS)	117	11.060	11.060	0.000	87	1624493	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	98	179673	2.00	1.97	
87 Chlorobenzene	112	11.085	11.085	0.000	95	351160	2.00	1.96	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	93	120869	2.00	2.03	
90 Ethylbenzene	91	11.176	11.176	0.000	99	618284	2.00	2.00	
S 88 Xylenes, Total	106				0			6.05	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	482205	4.00	4.02	
92 o-Xylene	106	11.627	11.627	0.000	96	242196	2.00	2.03	
93 Styrene	104	11.646	11.646	0.000	95	399519	2.00	2.00	
94 Bromoform	173	11.804	11.804	0.000	95	56445	2.00	2.00	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	622578	2.00	2.01	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	831177	10.0	9.99	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	95	110832	2.00	1.97	
100 Bromobenzene	156	12.194	12.194	0.000	95	151266	2.00	1.99	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	335202	20.0	20.3	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	31166	2.00	2.05	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	724330	2.00	1.97	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	151778	2.00	2.00	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	534368	2.00	1.99	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	157773	2.00	1.98	
107 tert-Butylbenzene	134	12.646	12.646	0.000	94	115071	2.00	1.98	
108 Pentachloroethane	167	12.682	12.682	0.000	90	77921	2.00	1.86	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	98	559260	2.00	2.01	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	689917	2.00	2.00	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	301375	2.00	2.01	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	97	601720	2.00	2.01	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	891523	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	96	305402	2.00	1.98	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	229432	2.00	1.86	
116 Benzyl chloride	126	13.072	13.072	0.000	99	42651	2.00	2.03	
119 n-Butylbenzene	92	13.219	13.219	0.000	98	301250	2.00	1.97	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	280041	2.00	1.98	
118 p-Diethylbenzene	119	13.273	13.273	0.000	86	283452	2.00	1.85	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	95	16170	2.00	2.08	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	243600	2.00	1.98	
125 1,2,4-Trichlorobenzene	180	14.353	14.353	0.000	94	222413	2.00	2.01	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	98	102890	2.00	1.96	
127 Naphthalene	128	14.535	14.535	0.000	97	410615	2.00	2.06	
128 1,2,3-Trichlorobenzene	180	14.682	14.682	0.000	95	196165	2.00	2.00	
129 2-Methylnaphthalene	142	15.304	15.304	0.000	92	272634	2.00	1.98	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

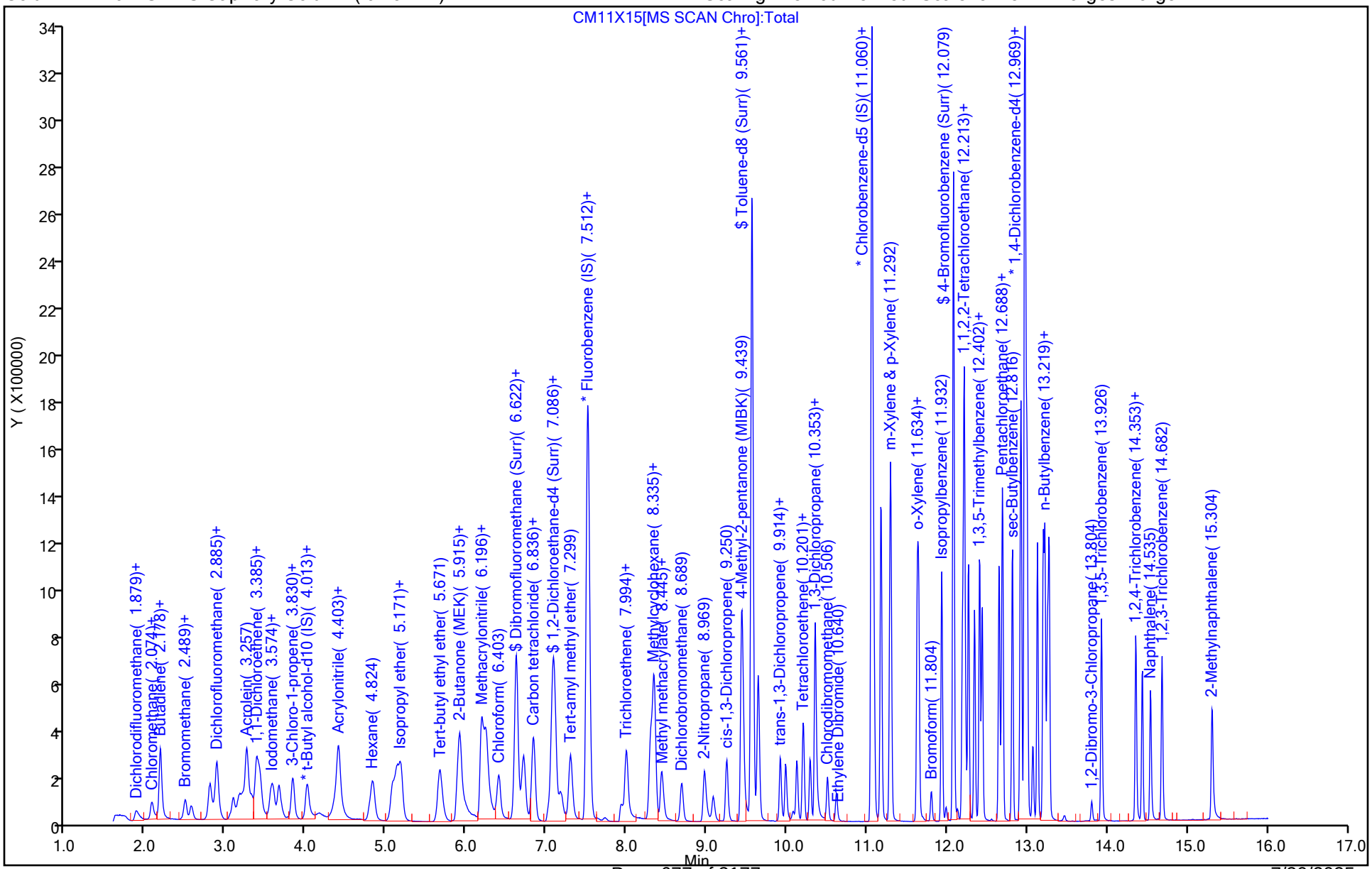
Report Date: 23-Mar-2021 16:56:13 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D

Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD2 Lg			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Env, LLC

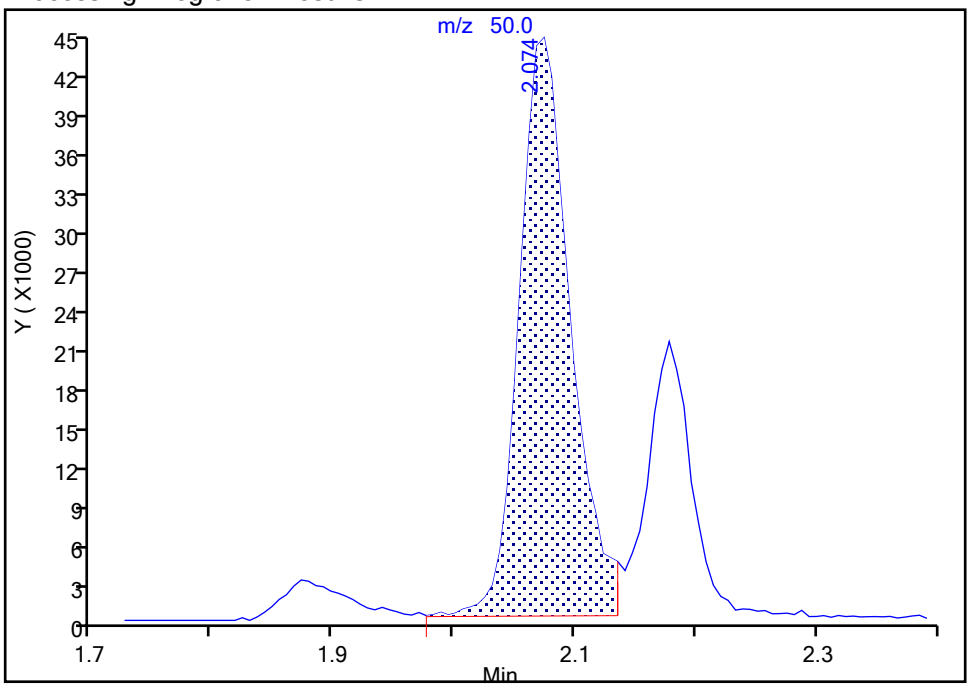
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Injection Date: 11-Mar-2021 20:33:30 Instrument ID: 10193
Lims ID: IC STD2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

3 Chloromethane, CAS: 74-87-3

Signal: 1

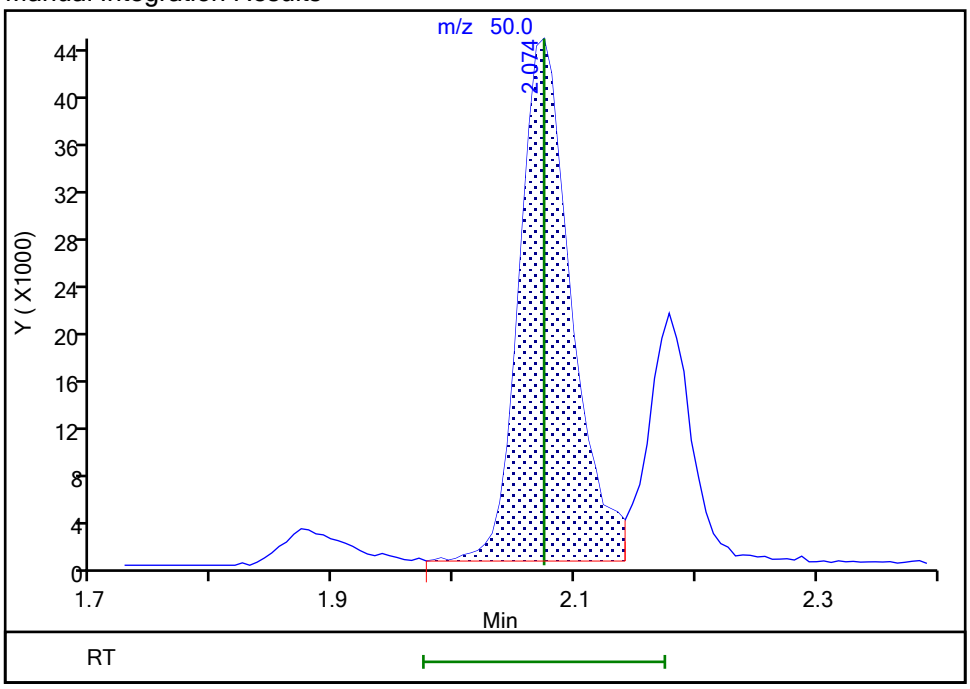
Processing Integration Results

RT: 2.07
Area: 131751
Amount: 1.468549
Amount Units: ug/l



Manual Integration Results

RT: 2.07
Area: 132701
Amount: 1.846308
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:15:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

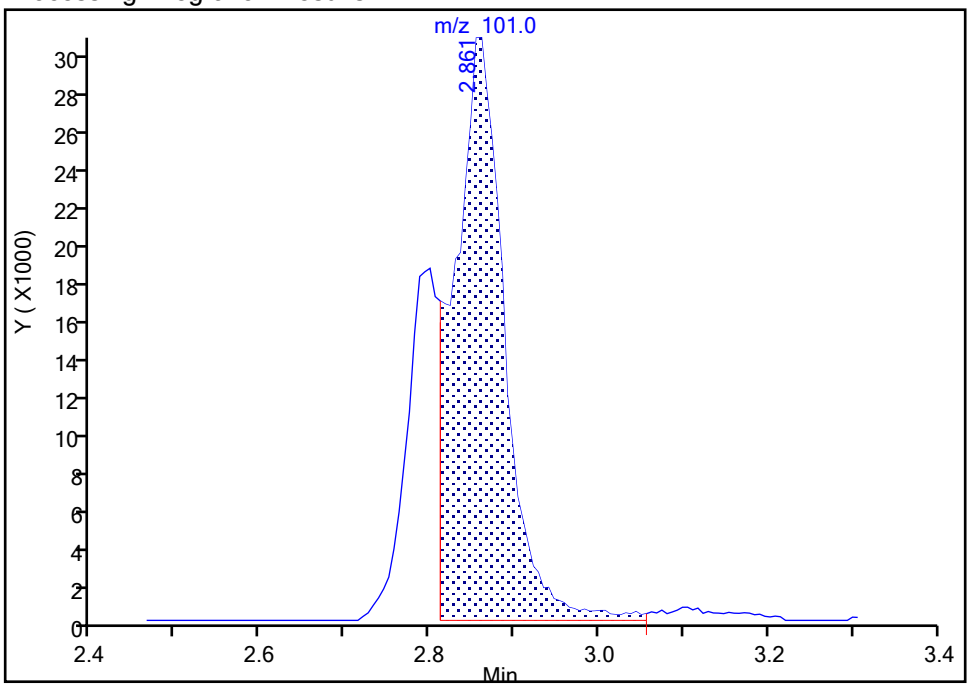
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Injection Date: 11-Mar-2021 20:33:30 Instrument ID: 10193
Lims ID: IC STD2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

9 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

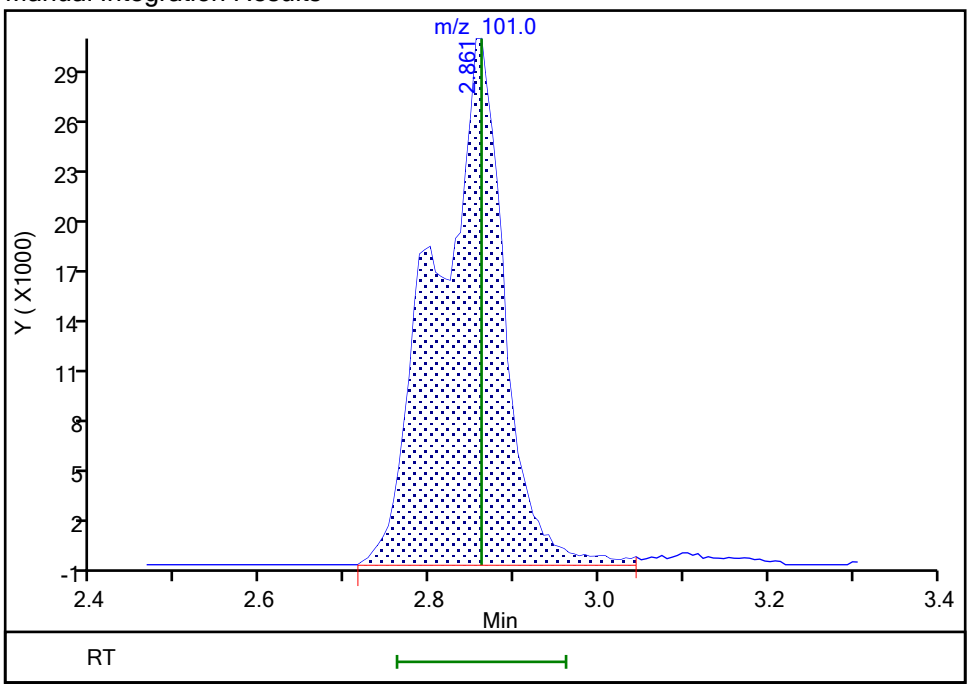
Processing Integration Results

RT: 2.86
Area: 125535
Amount: 1.223527
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 169901
Amount: 1.897737
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:15:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

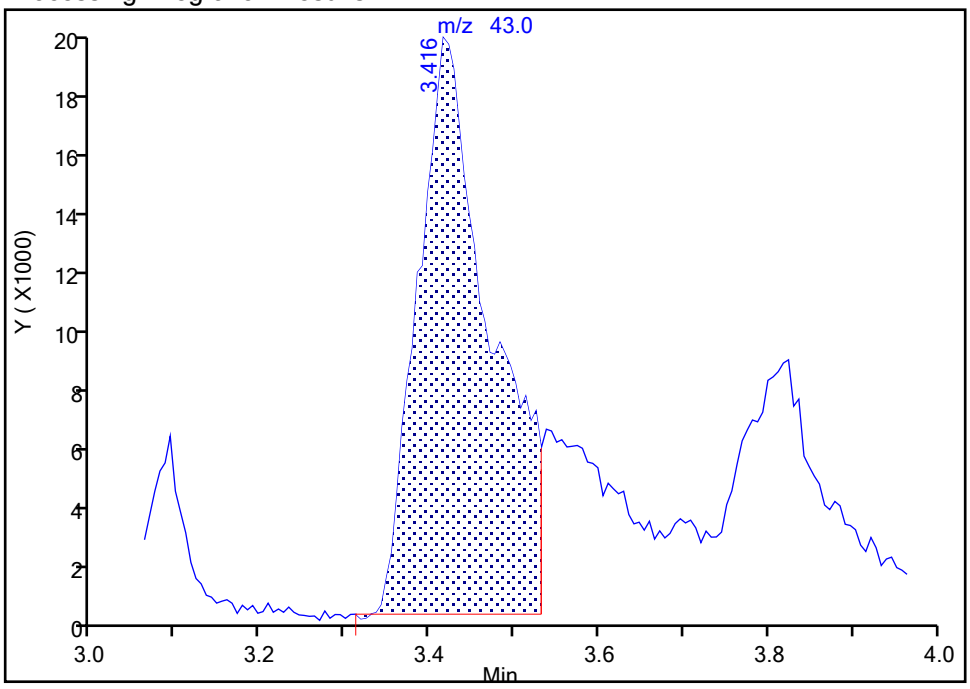
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

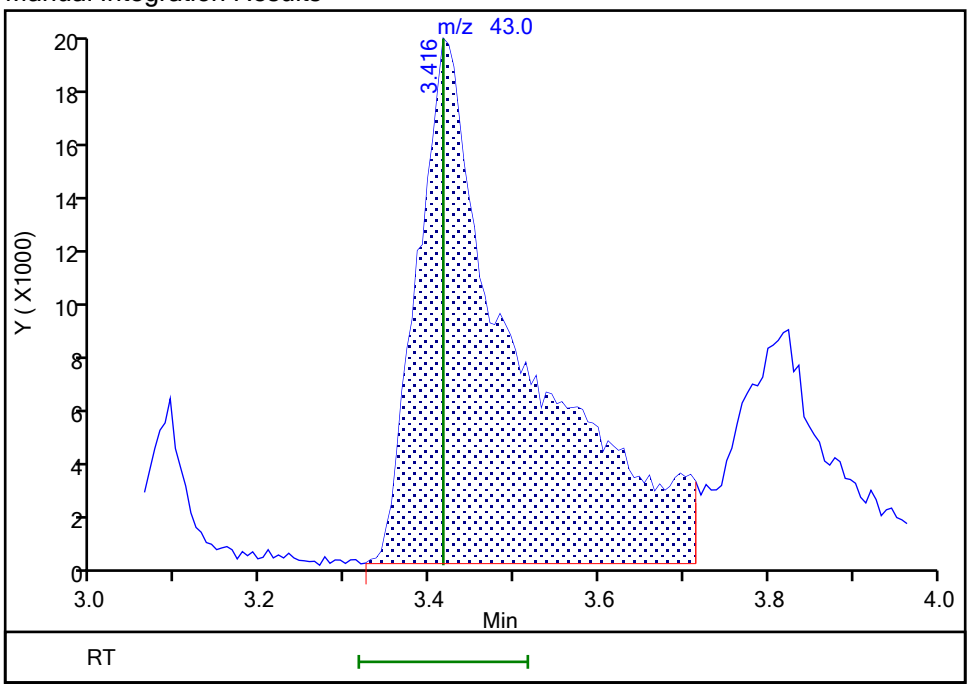
Processing Integration Results

RT: 3.42
Area: 116761
Amount: 16.961657
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 165522
Amount: 20.708697
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:16:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

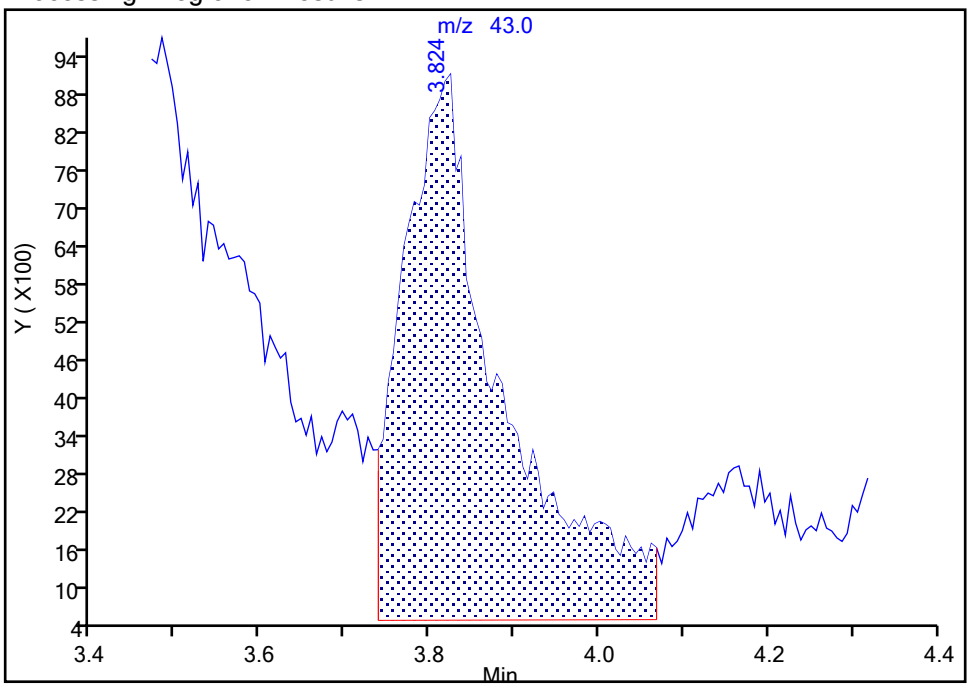
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

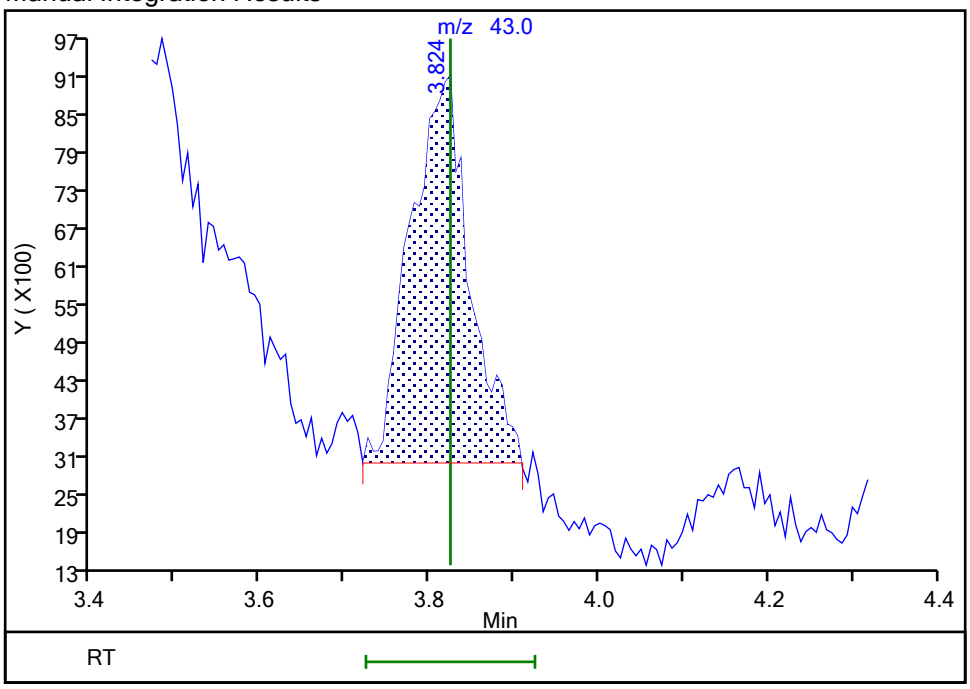
Processing Integration Results

RT: 3.82
Area: 70542
Amount: 2.617640
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 29570
Amount: 1.687226
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:22:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

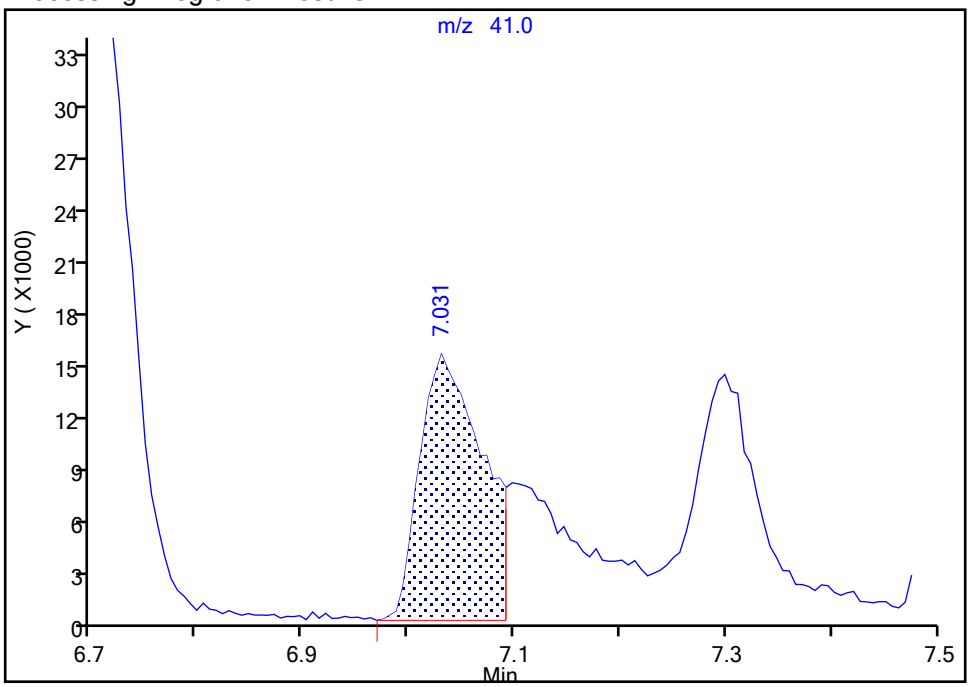
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

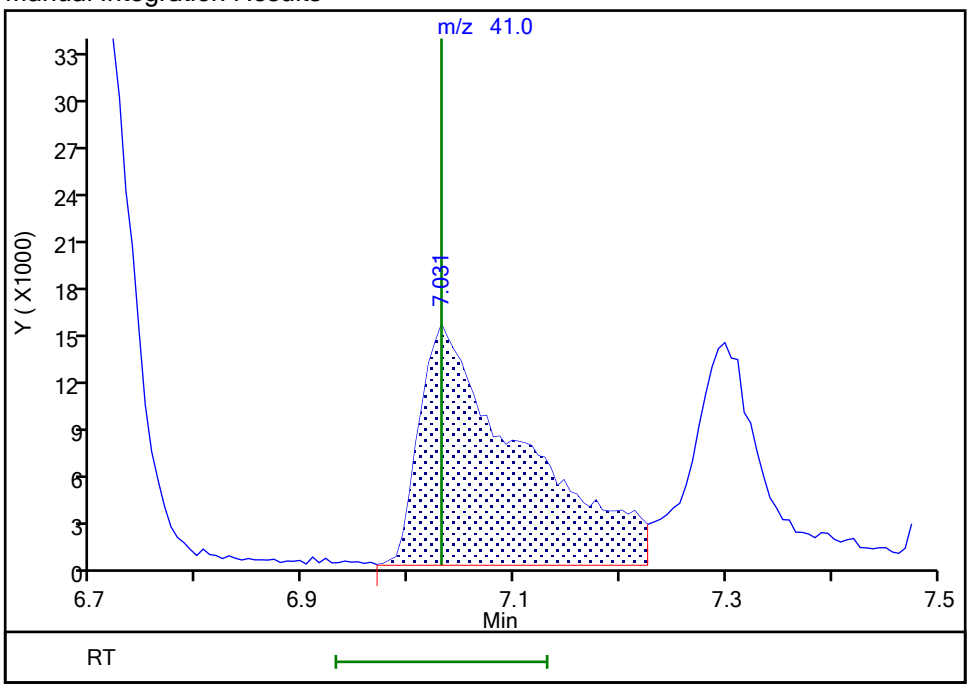
Processing Integration Results

RT: 7.03
Area: 64052
Amount: 73.677688
Amount Units: ug/l



Manual Integration Results

RT: 7.03
Area: 104478
Amount: 90.940516
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:18:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

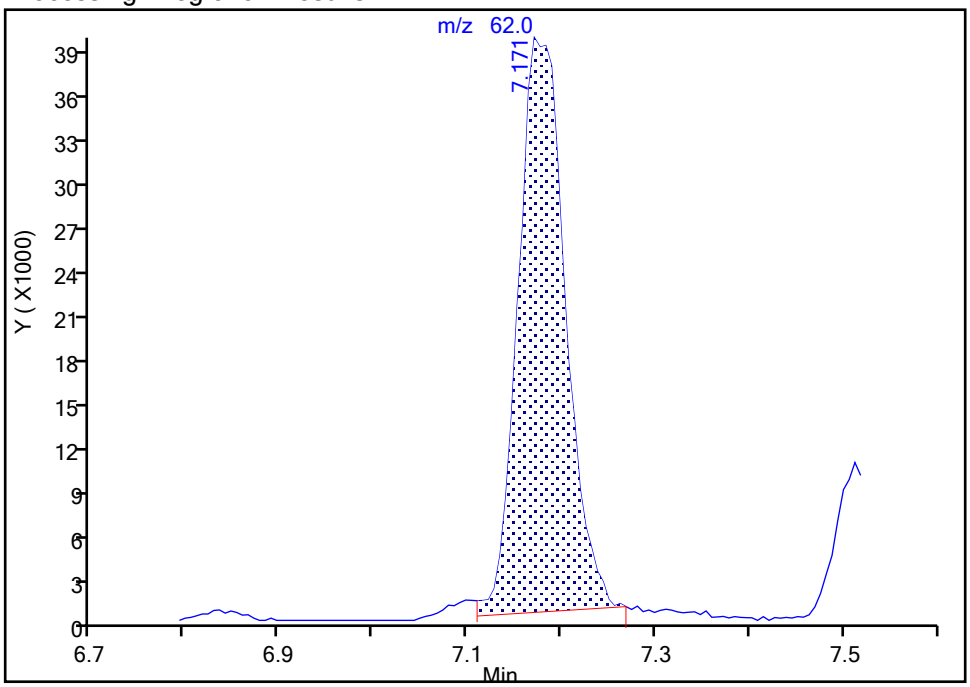
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Injection Date: 11-Mar-2021 20:33:30 Instrument ID: 10193
Lims ID: IC STD2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

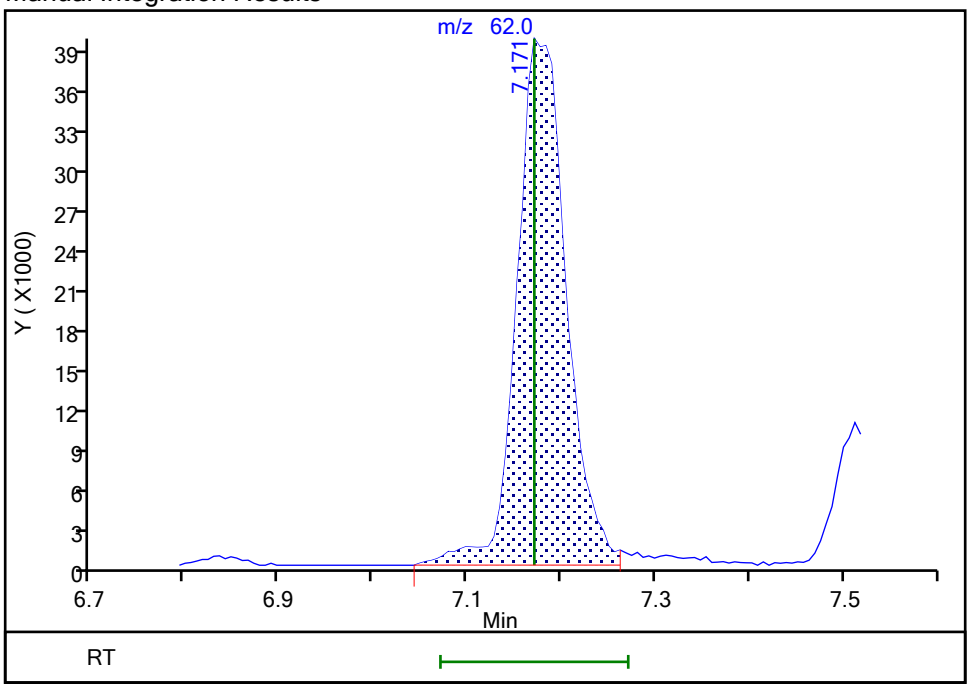
Processing Integration Results

RT: 7.17
Area: 137360
Amount: 1.858229
Amount Units: ug/l



Manual Integration Results

RT: 7.17
Area: 145889
Amount: 1.968587
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:18:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

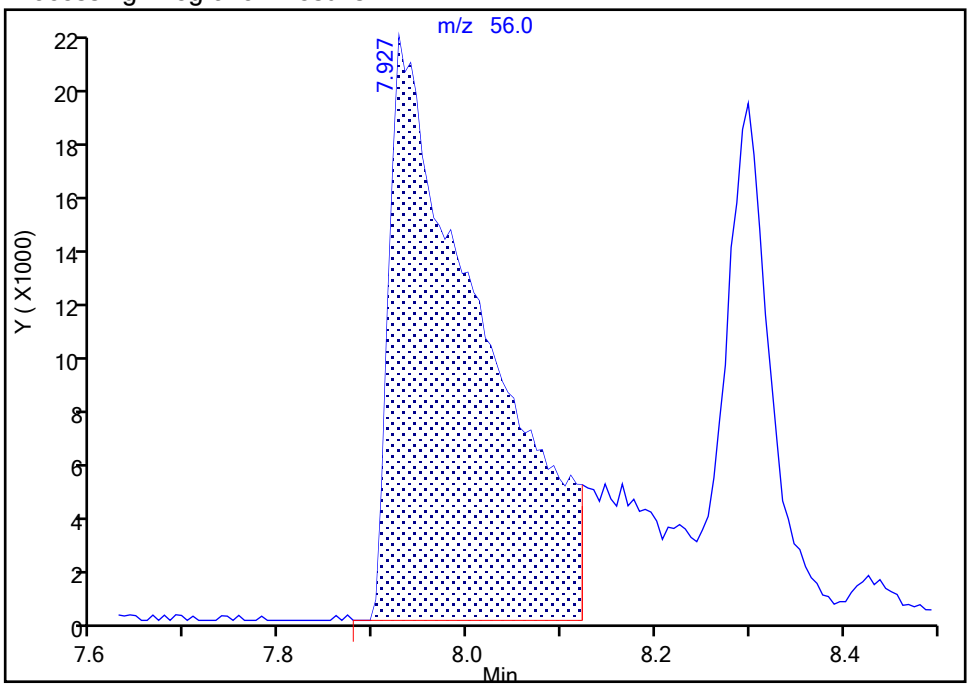
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D
Injection Date: 11-Mar-2021 20:33:30 Instrument ID: 10193
Lims ID: IC STD2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

59 n-Butanol, CAS: 71-36-3

Signal: 1

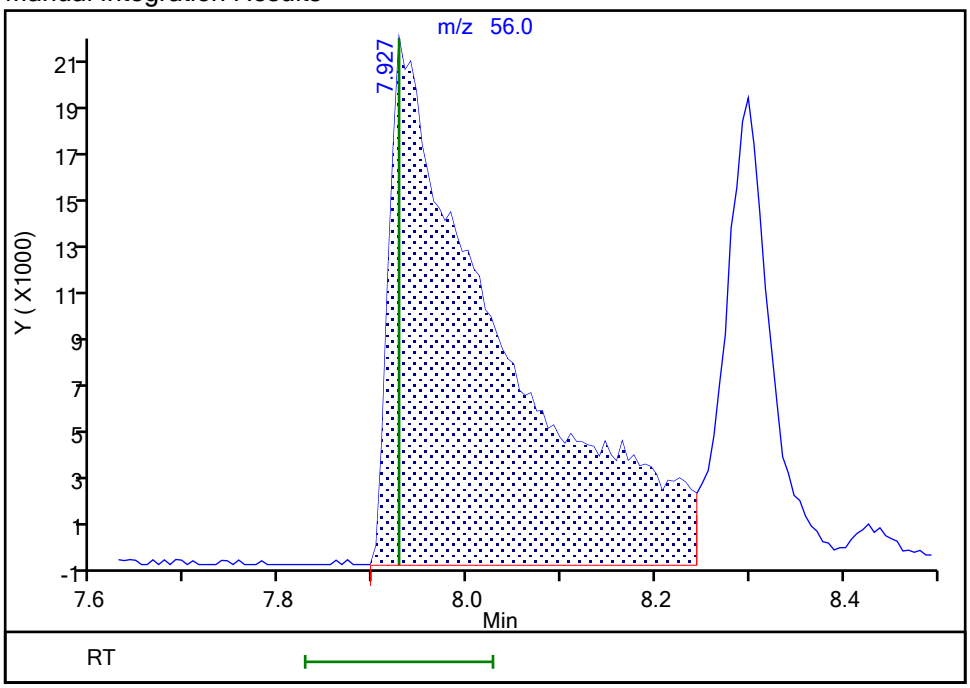
Processing Integration Results

RT: 7.93
Area: 144833
Amount: 179.4919
Amount Units: ug/l



Manual Integration Results

RT: 7.93
Area: 174724
Amount: 179.3333
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:19:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

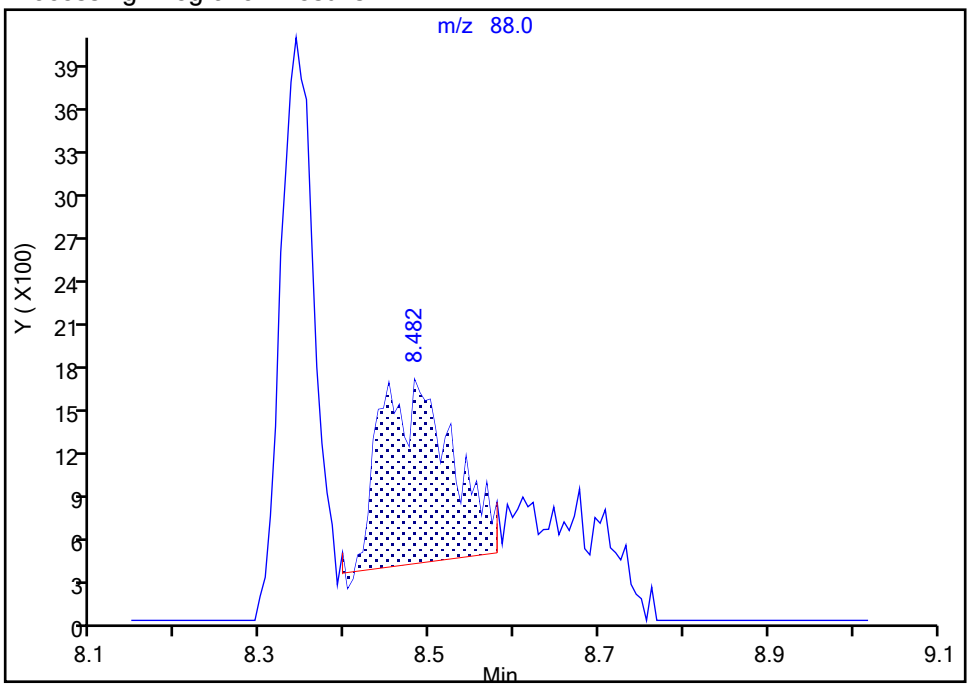
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X15.D				
Injection Date:	11-Mar-2021 20:33:30	Instrument ID:	10193		
Lims ID:	IC STD2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

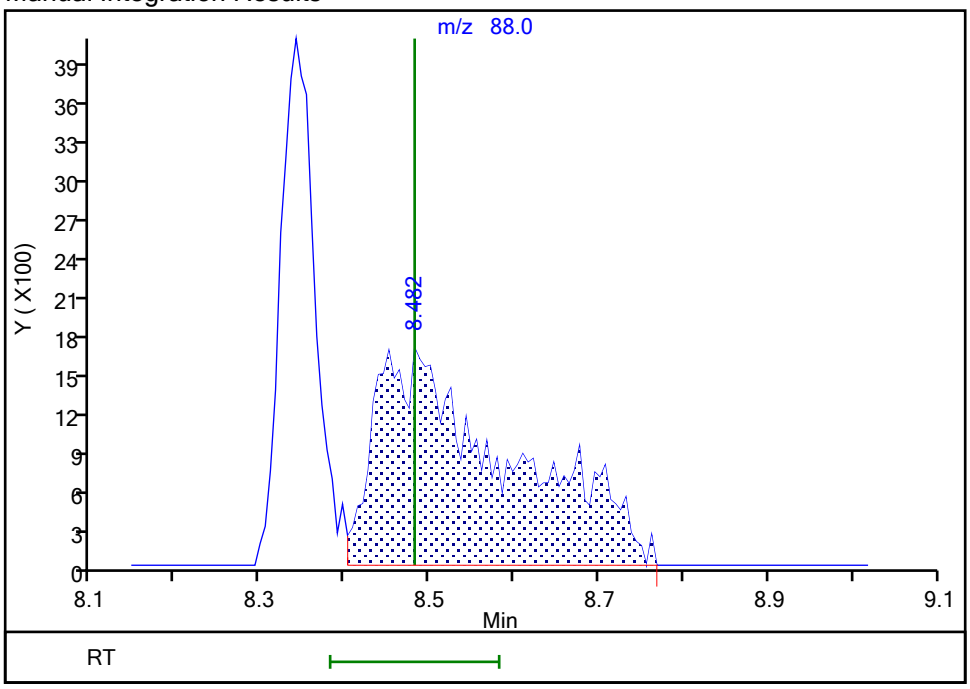
Processing Integration Results

RT: 8.48
Area: 7563
Amount: 49.388293
Amount Units: ug/l



Manual Integration Results

RT: 8.48
Area: 18216
Amount: 87.244596
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:00:03
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D
Lims ID: IC STD1 Lg
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Mar-2021 20:55:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-016
Misc. Info.: IC STD.5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:26 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:26:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.886	1.879	0.007	98	54318	1.00	0.9365	
3 Chloromethane	50	2.087	2.074	0.013	99	66165	1.00	0.9232	M
4 Butadiene	39	2.190	2.178	0.012	94	77994	1.00	0.99	M
5 Vinyl chloride	62	2.196	2.184	0.012	69	63531	1.00	0.9704	
6 Bromomethane	94	2.501	2.489	0.012	91	44794	1.00	0.9514	
7 Chloroethane	64	2.574	2.562	0.012	99	41826	1.00	0.9752	
8 Dichlorofluoromethane	67	2.812	2.800	0.012	98	93918	1.00	0.9502	
9 Trichlorofluoromethane	101	2.873	2.861	0.012	97	85429	1.00	0.9570	
11 Ethyl ether	59	3.105	3.086	0.019	92	45094	1.00	0.9310	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.184	3.172	0.012	94	71240	1.00	1.02	
13 Acrolein	56	3.269	3.257	0.012	99	353509	50.0	54.5	
14 1,1-Dichloroethene	96	3.391	3.379	0.012	97	51031	1.00	1.01	
15 112TCTFE	101	3.434	3.410	0.024	92	55171	1.00	1.01	
16 Acetone	43	3.434	3.416	0.018	65	79397	10.0	10.4	M
17 Iodomethane	142	3.580	3.562	0.018	99	98011	1.00	1.00	
18 Isopropyl alcohol	45	3.568	3.586	-0.018	29	31971	20.0	17.6	
19 Ethyl bromide	108	3.605	3.592	0.013	98	39807	1.00	0.9425	
20 Carbon disulfide	76	3.672	3.659	0.013	100	170125	1.00	0.9889	
22 Methyl acetate	43	3.836	3.824	0.012	23	15090	1.00	0.8993	M
23 3-Chloro-1-propene	41	3.849	3.830	0.019	89	85456	1.00	0.9174	
24 Methylene Chloride	84	4.025	4.007	0.018	95	55939	1.00	0.9890	
* 25 t-Butyl alcohol-d10 (IS)	65	4.062	4.050	0.012	0	165663	50.0	50.0	
26 2-Methyl-2-propanol	59	4.172	4.165	0.007	97	66645	20.0	22.5	
27 Acrylonitrile	53	4.373	4.354	0.019	98	57341	5.00	5.27	
28 Methyl tert-butyl ether	73	4.409	4.391	0.018	96	166043	1.00	1.00	
29 trans-1,2-Dichloroethene	96	4.422	4.403	0.019	96	56687	1.00	0.9807	
30 Hexane	57	4.836	4.824	0.012	94	89978	1.00	0.9848	
32 1,1-Dichloroethane	63	5.080	5.074	0.006	96	110580	1.00	1.01	
33 Isopropyl ether	45	5.141	5.129	0.012	93	206284	1.00	1.00	
34 2-Chloro-1,3-butadiene	53	5.190	5.184	0.006	93	98492	1.00	0.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.665	0.006	98	201628	1.00	1.01	
36 2-Butanone (MEK)	43	5.891	5.885	0.006	99	155637	10.0	10.0	
37 cis-1,2-Dichloroethene	96	5.927	5.915	0.012	84	63722	1.00	0.9802	
38 2,2-Dichloropropane	77	5.927	5.921	0.006	85	87880	1.00	0.9885	
40 Propionitrile	54	5.988	5.988	0.000	99	75221	20.0	18.3	
S 42 1,2-Dichloroethene, Total	100				0			1.96	
43 Methacrylonitrile	67	6.202	6.189	0.013	93	155324	10.0	10.1	
44 Chlorobromomethane	128	6.263	6.244	0.019	78	27419	1.00	0.9492	
45 Tetrahydrofuran	71	6.251	6.250	0.001	80	45139	10.0	10.1	
46 Chloroform	83	6.415	6.403	0.012	94	104144	1.00	1.00	
$ 47 Dibromofluoromethane (Surr)	113	6.629	6.622	0.007	93	518482	10.0	9.97	
48 1,1,1-Trichloroethane	97	6.629	6.622	0.007	44	90751	1.00	0.9854	
49 Cyclohexane	56	6.714	6.714	0.000	91	109442	1.00	0.99	
50 Carbon tetrachloride	117	6.836	6.830	0.006	97	76572	1.00	1.00	
51 1,1-Dichloropropene	75	6.848	6.842	0.006	96	84150	1.00	0.9835	
52 Isobutyl alcohol	41	7.025	7.031	-0.006	91	55836	50.0	50.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.086	7.080	0.006	0	108133	10.0	10.1	
54 Benzene	78	7.110	7.104	0.006	93	245502	1.00	0.99	
55 1,2-Dichloroethane	62	7.183	7.171	0.012	98	71667	1.00	0.9698	M
56 Tert-amyl methyl ether	73	7.305	7.299	0.006	98	176879	1.00	0.99	
* 57 Fluorobenzene (IS)	96	7.519	7.512	0.007	99	2195473	10.0	10.0	
58 n-Heptane	43	7.531	7.525	0.006	90	96761	1.00	0.9635	
59 n-Butanol	56	7.927	7.927	0.000	92	89995	100.0	96.5	
60 Trichloroethene	95	8.000	7.994	0.006	97	62611	1.00	1.00	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	105184	1.00	0.9351	
62 1,2-Dichloropropane	63	8.336	8.335	0.001	95	62574	1.00	0.9766	
63 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	91	98701	1.00	0.99	
64 Methyl methacrylate	69	8.433	8.433	0.000	94	31053	1.00	1.00	
66 Dibromomethane	93	8.451	8.439	0.012	96	29994	1.00	1.00	
65 1,4-Dioxane	88	8.464	8.482	-0.018	32	10402	50.0	52.0	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	73153	1.00	0.9863	
68 2-Nitropropane	41	8.976	8.969	0.007	99	99954	10.0	9.86	M
71 1-Bromo-2-chloroethane	63	9.085	9.079	0.006	99	57317	1.00	0.9404	
72 cis-1,3-Dichloropropene	75	9.250	9.250	0.000	95	91944	1.00	0.9595	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	427068	10.0	9.98	
$ 74 Toluene-d8 (Surr)	98	9.567	9.561	0.006	94	2146383	10.0	9.91	
75 Toluene	92	9.646	9.640	0.006	98	157189	1.00	0.99	
76 trans-1,3-Dichloropropene	75	9.921	9.914	0.007	95	77480	1.00	0.9617	
78 Ethyl methacrylate	69	9.988	9.981	0.007	89	66038	1.00	0.9666	
S 77 1,3-Dichloropropene, Total	100				0			1.92	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	92	42688	1.00	0.9711	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	65949	1.00	0.9840	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	94	77132	1.00	0.9827	
82 2-Hexanone	43	10.353	10.353	0.000	96	302584	10.0	9.66	
83 Chlorodibromomethane	129	10.506	10.506	0.000	90	46550	1.00	0.9416	
84 Ethylene Dibromide	107	10.616	10.615	0.001	98	41539	1.00	0.9795	
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.001	87	1619173	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	95	87814	1.00	0.9643	
87 Chlorobenzene	112	11.085	11.085	0.000	94	176620	1.00	0.99	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	92	56719	1.00	0.9534	
90 Ethylbenzene	91	11.176	11.176	0.000	98	304702	1.00	0.9882	
S 88 Xylenes, Total	106				0			2.95	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	236059	2.00	1.97	
92 o-Xylene	106	11.628	11.627	0.001	97	116267	1.00	0.9766	
93 Styrene	104	11.646	11.646	0.000	95	192033	1.00	0.9664	
94 Bromoform	173	11.804	11.804	0.000	95	25830	1.00	0.9191	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	304935	1.00	0.9878	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	820392	10.0	9.89	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	94	55717	1.00	1.01	
100 Bromobenzene	156	12.195	12.194	0.000	96	74343	1.00	1.00	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	96	160817	10.0	9.96	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	14947	1.00	1.00	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	359813	1.00	1.00	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	73314	1.00	0.9853	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	263579	1.00	1.00	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	77916	1.00	1.00	
107 tert-Butylbenzene	134	12.652	12.646	0.006	93	55767	1.00	0.9796	
108 Pentachloroethane	167	12.682	12.682	0.000	88	36271	1.00	0.8846	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	97	266991	1.00	0.9798	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	340967	1.00	1.01	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	98	147971	1.00	1.01	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	97	291744	1.00	0.99	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	873073	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	95	150524	1.00	1.00	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	99	114621	1.00	0.9465	
116 Benzyl chloride	126	13.072	13.072	0.000	99	19132	1.00	0.9296	
119 n-Butylbenzene	92	13.219	13.219	0.000	97	146017	1.00	0.9760	
120 1,2-Dichlorobenzene	146	13.249	13.249	0.000	97	139116	1.00	1.01	
118 p-Diethylbenzene	119	13.274	13.273	0.001	86	141712	1.00	0.9451	
123 1,2-Dibromo-3-Chloropropane	155	13.804	13.804	0.000	83	7365	1.00	0.9651	
124 1,3,5-Trichlorobenzene	180	13.926	13.926	0.000	97	119040	1.00	0.9888	
125 1,2,4-Trichlorobenzene	180	14.359	14.353	0.006	94	106787	1.00	0.9873	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	98	52061	1.00	1.01	
127 Naphthalene	128	14.542	14.535	0.007	97	189574	1.00	0.9720	
128 1,2,3-Trichlorobenzene	180	14.682	14.682	0.000	95	95061	1.00	0.9888	
129 2-Methylnaphthalene	142	15.310	15.304	0.006	92	124496	1.00	0.9223	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

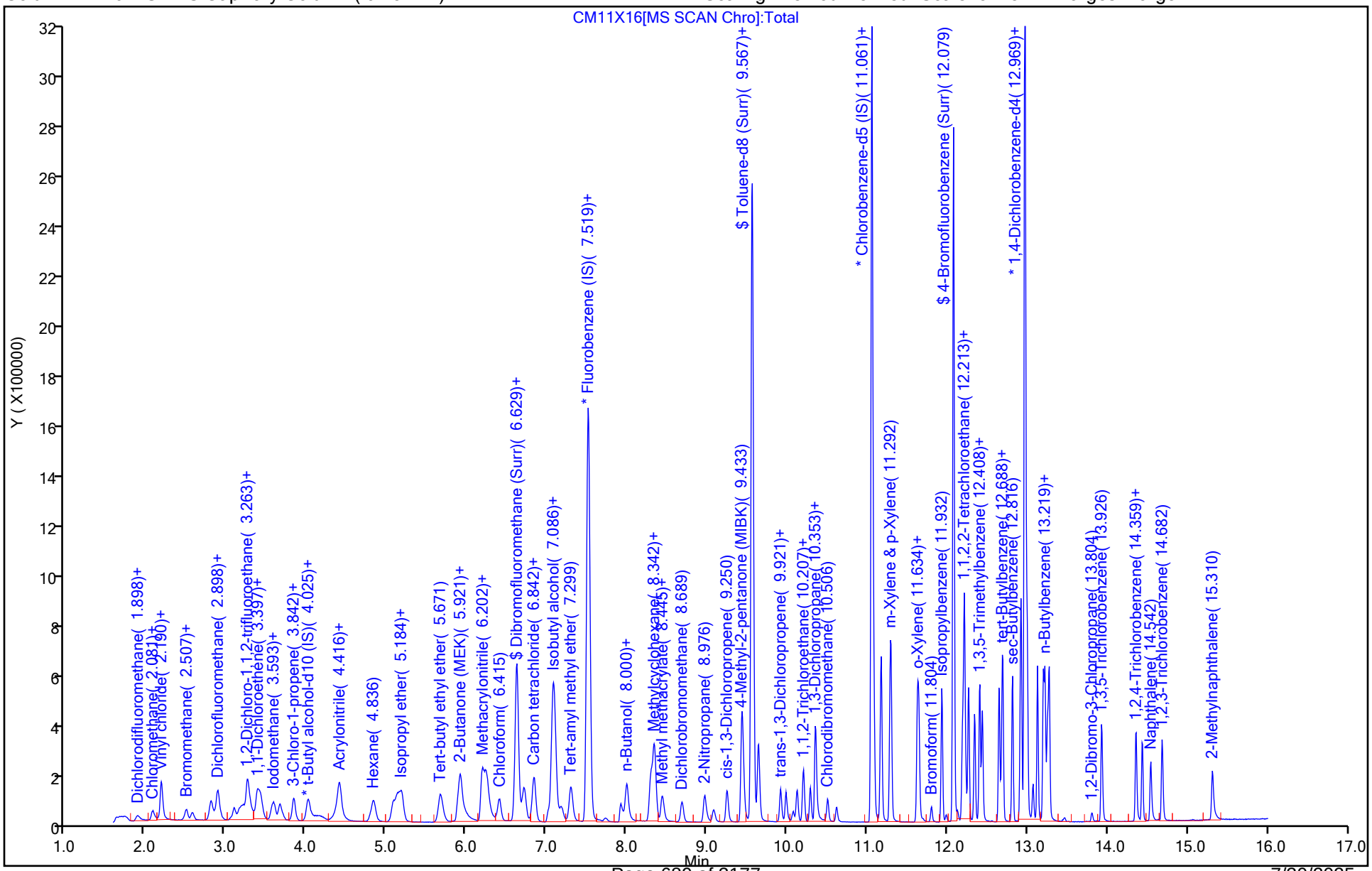
Report Date: 23-Mar-2021 16:56:27 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D

Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD1 Lg			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

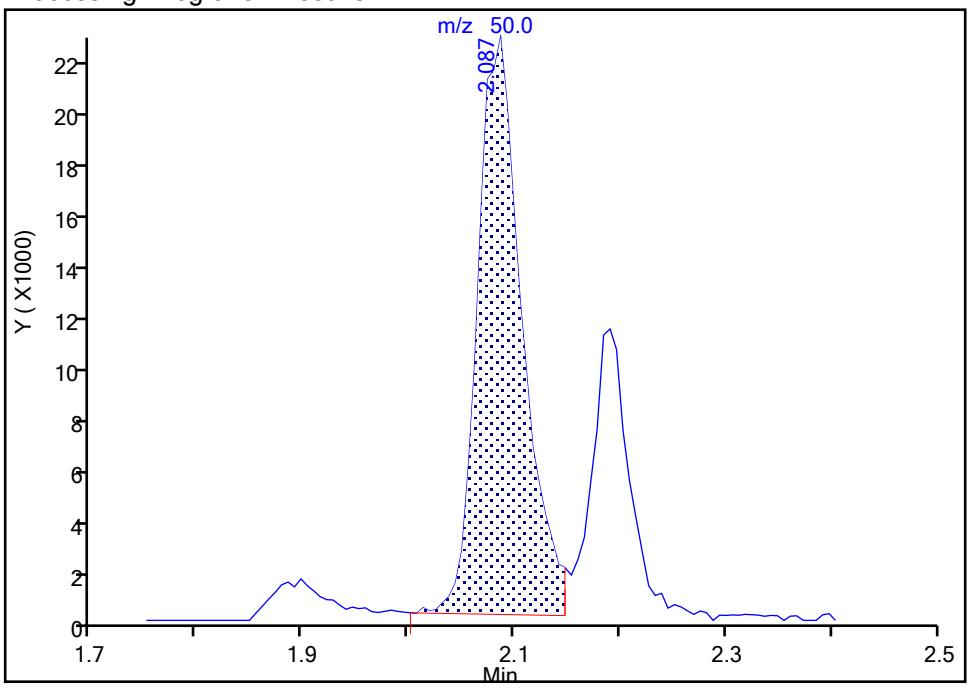
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

3 Chloromethane, CAS: 74-87-3

Signal: 1

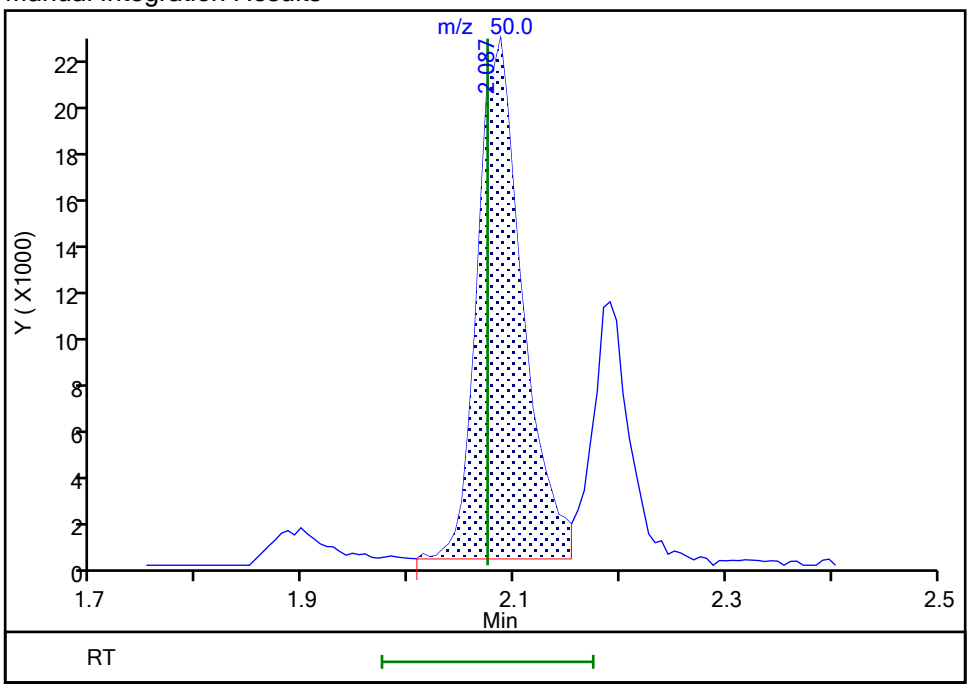
Processing Integration Results

RT: 2.09
Area: 65929
Amount: 0.736284
Amount Units: ug/l



Manual Integration Results

RT: 2.09
Area: 66165
Amount: 0.923215
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:21:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

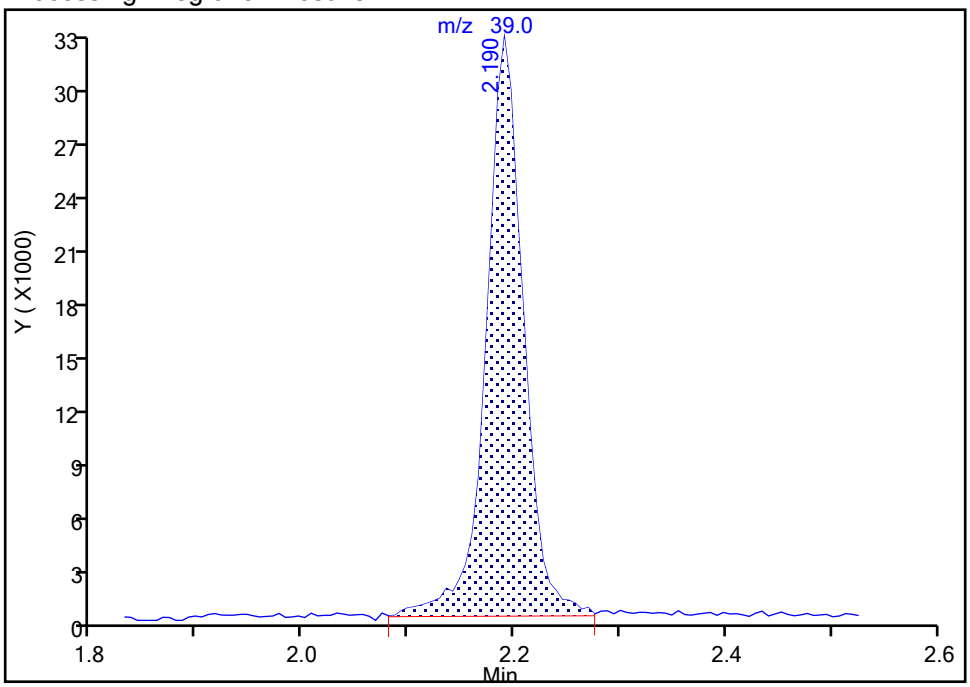
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

4 Butadiene, CAS: 106-99-0

Signal: 1

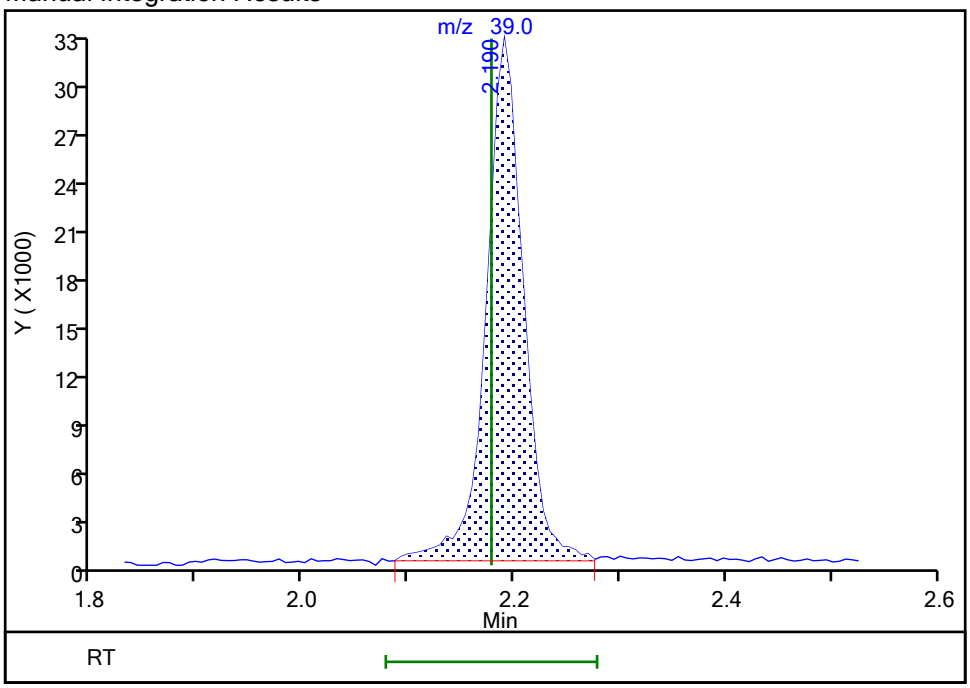
Processing Integration Results

RT: 2.19
Area: 78478
Amount: 1.035009
Amount Units: ug/l



Manual Integration Results

RT: 2.19
Area: 77994
Amount: 0.991524
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:21:57
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

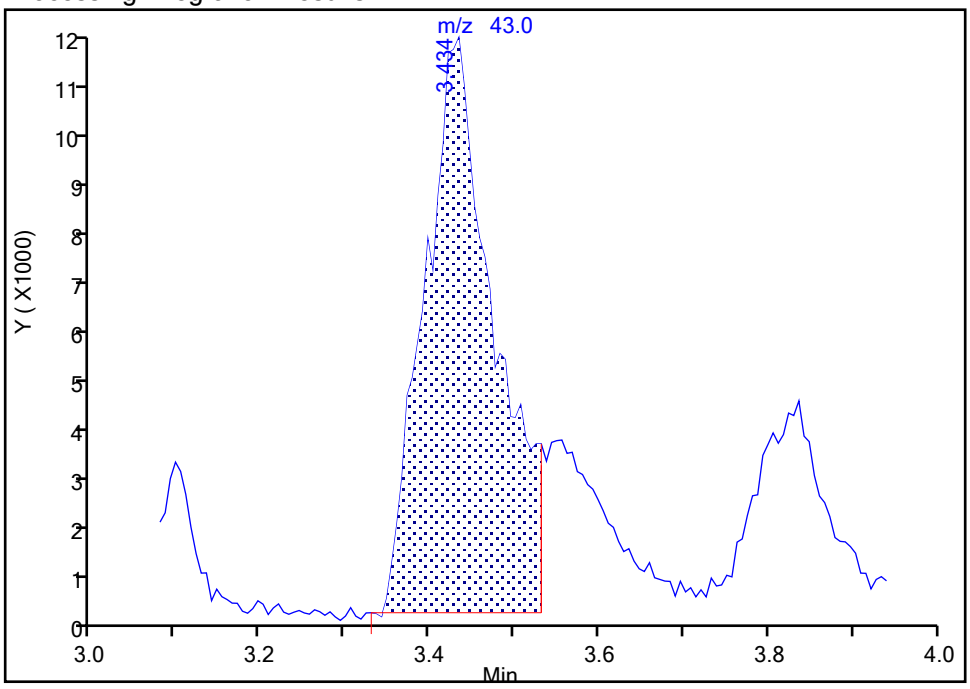
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

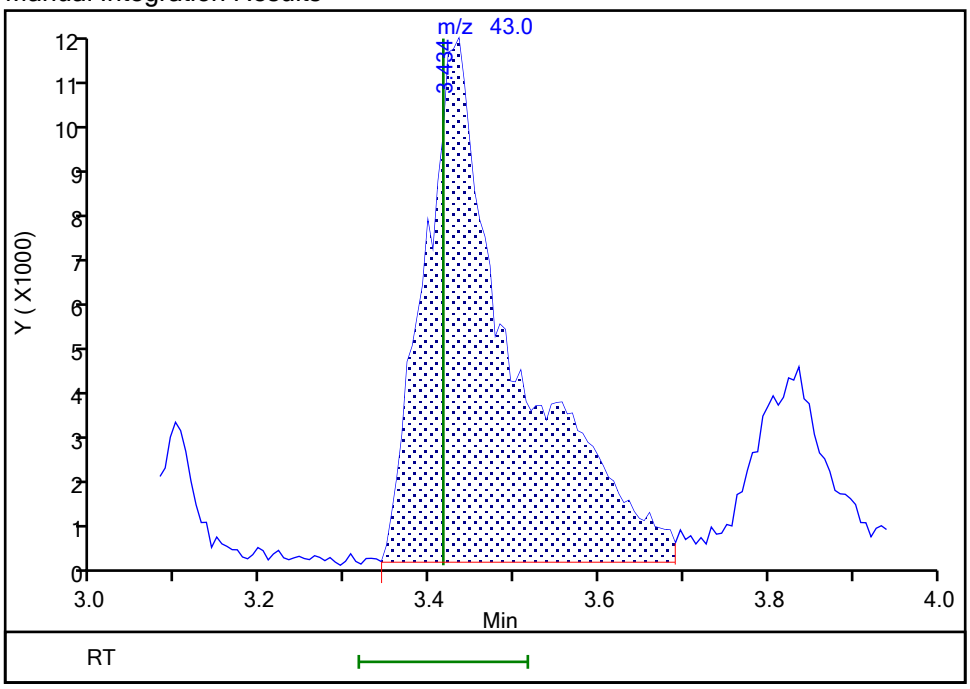
Processing Integration Results

RT: 3.43
Area: 61268
Amount: 8.659206
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 79397
Amount: 10.375573
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:22:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

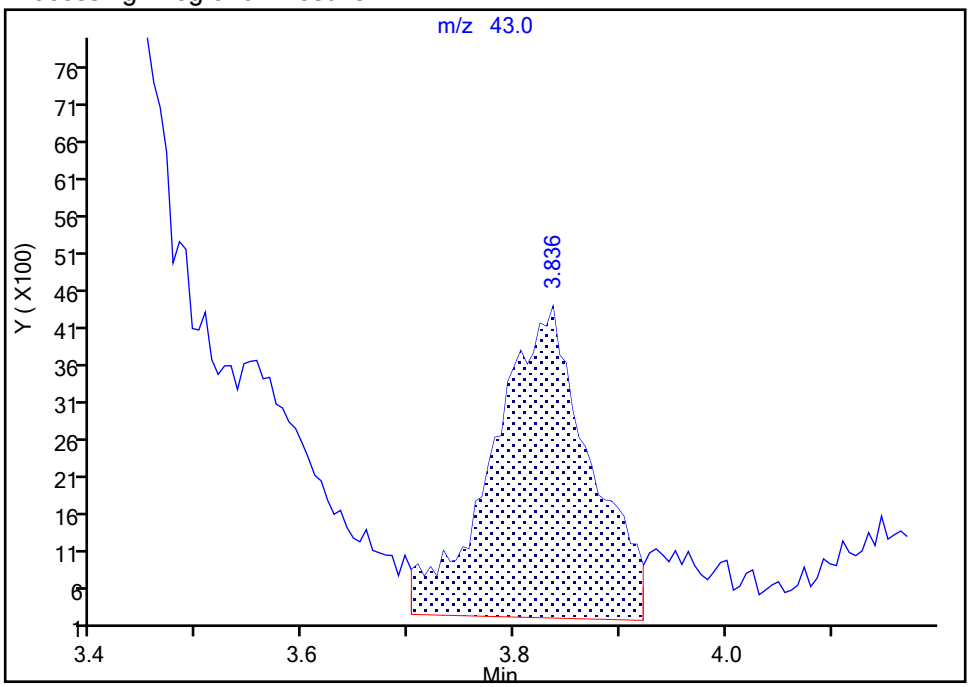
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

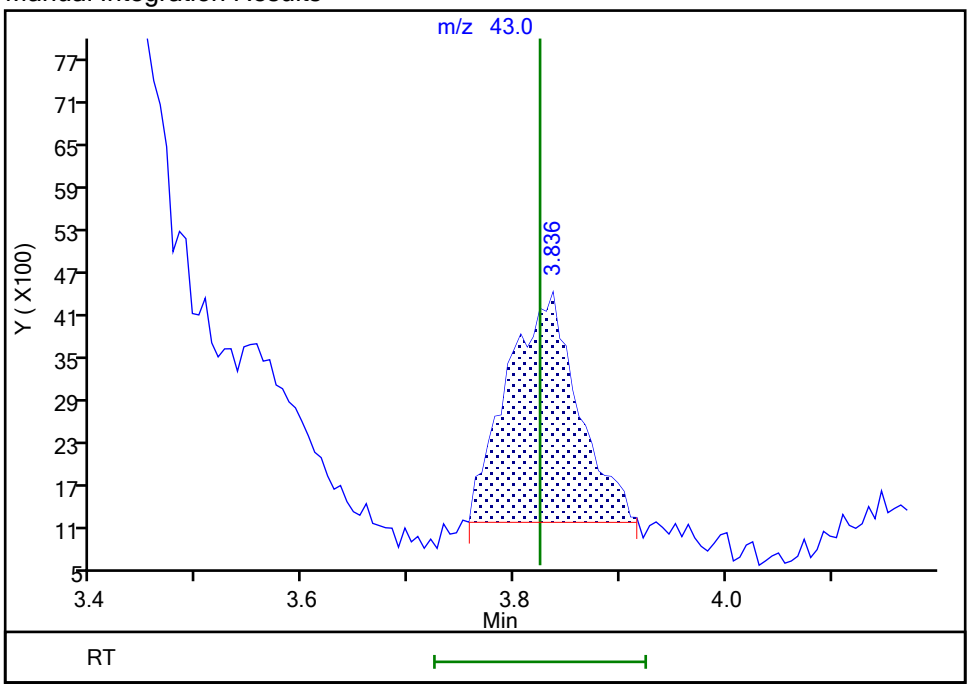
Processing Integration Results

RT: 3.84
Area: 26679
Amount: 1.309079
Amount Units: ug/l



Manual Integration Results

RT: 3.84
Area: 15090
Amount: 0.899337
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:23:35

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

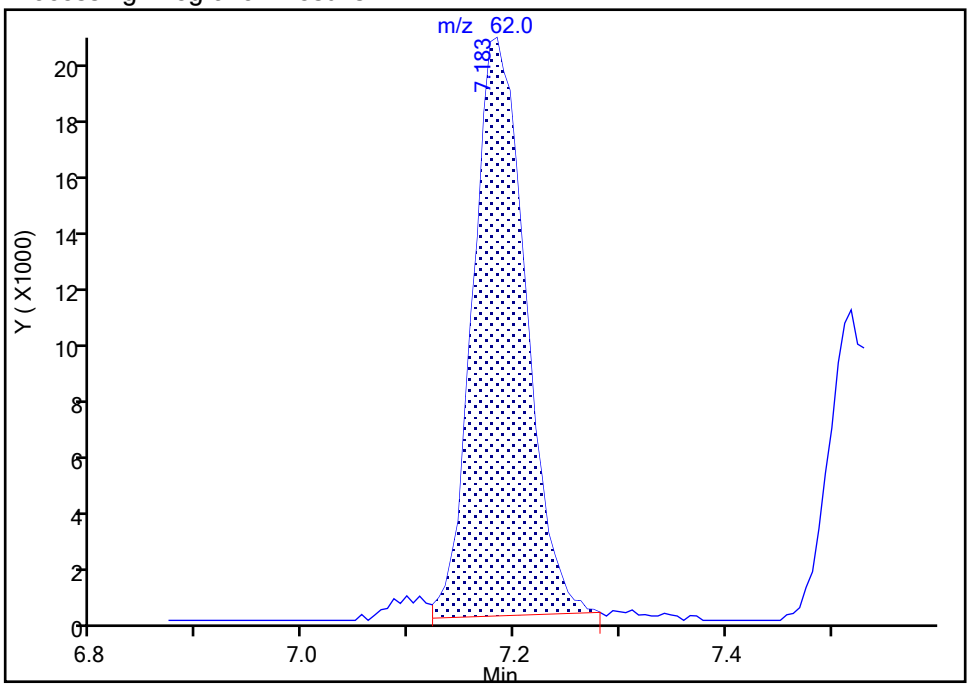
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

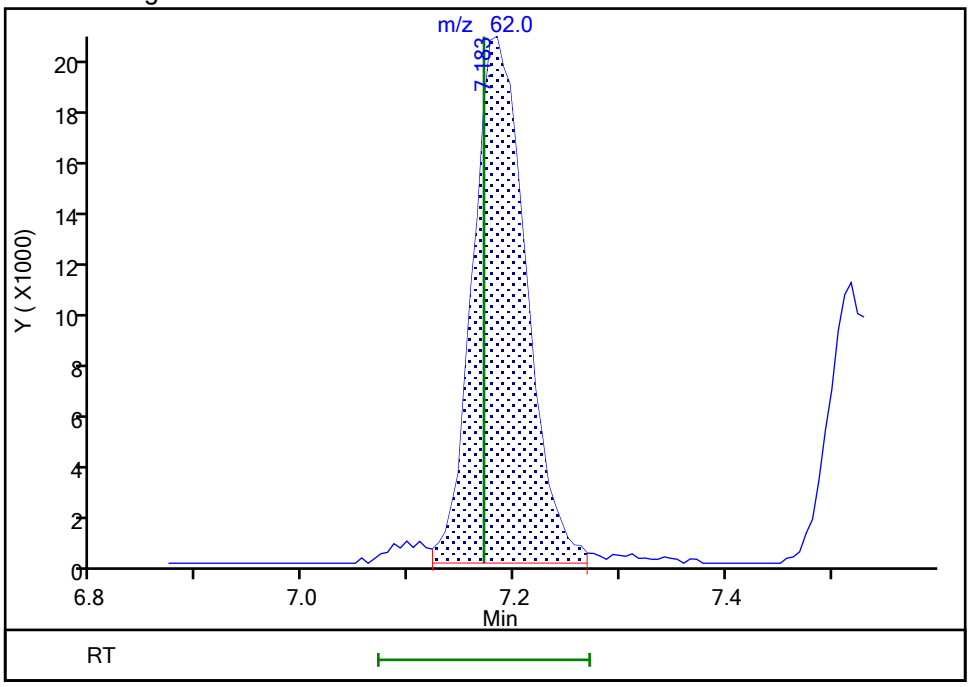
Processing Integration Results

RT: 7.18
Area: 70205
Amount: 0.944684
Amount Units: ug/l



Manual Integration Results

RT: 7.18
Area: 71667
Amount: 0.969830
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:24:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

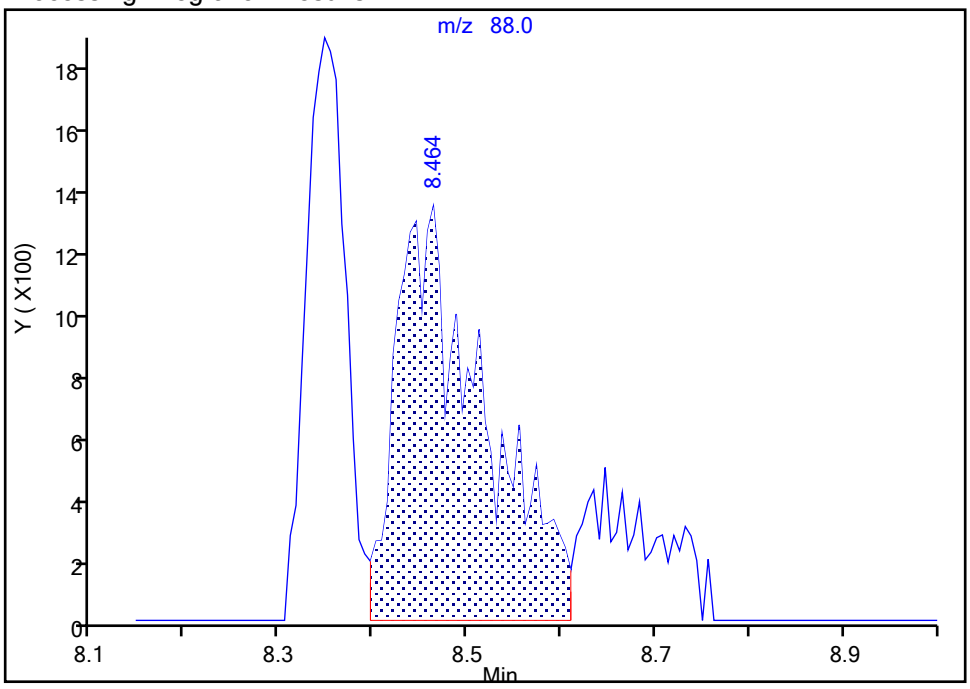
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

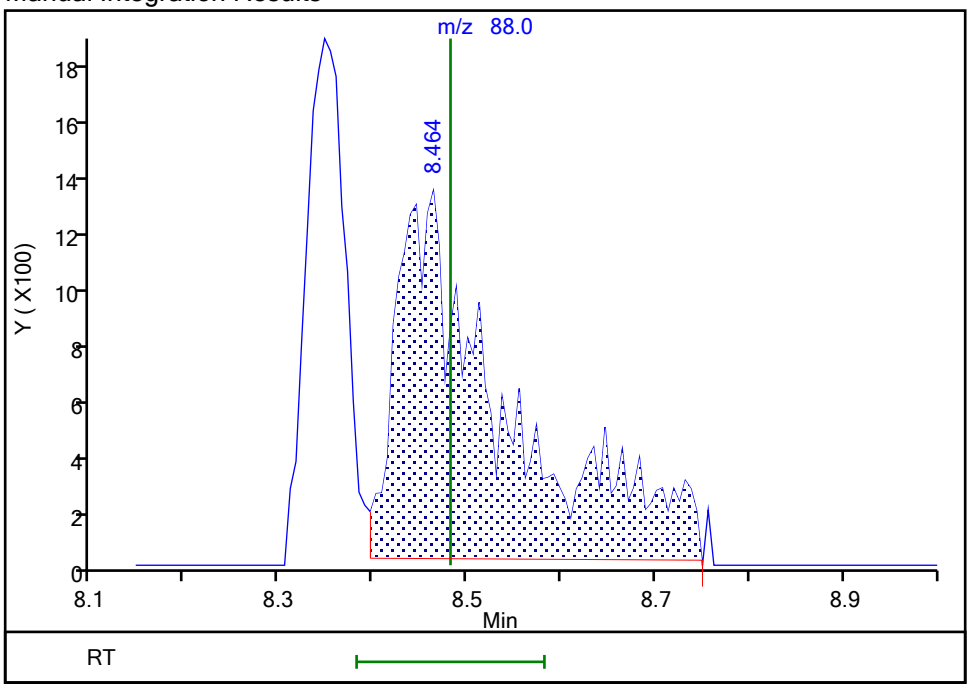
Processing Integration Results

RT: 8.46
Area: 8534
Amount: 55.063158
Amount Units: ug/l



Manual Integration Results

RT: 8.46
Area: 10402
Amount: 52.037127
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:25:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

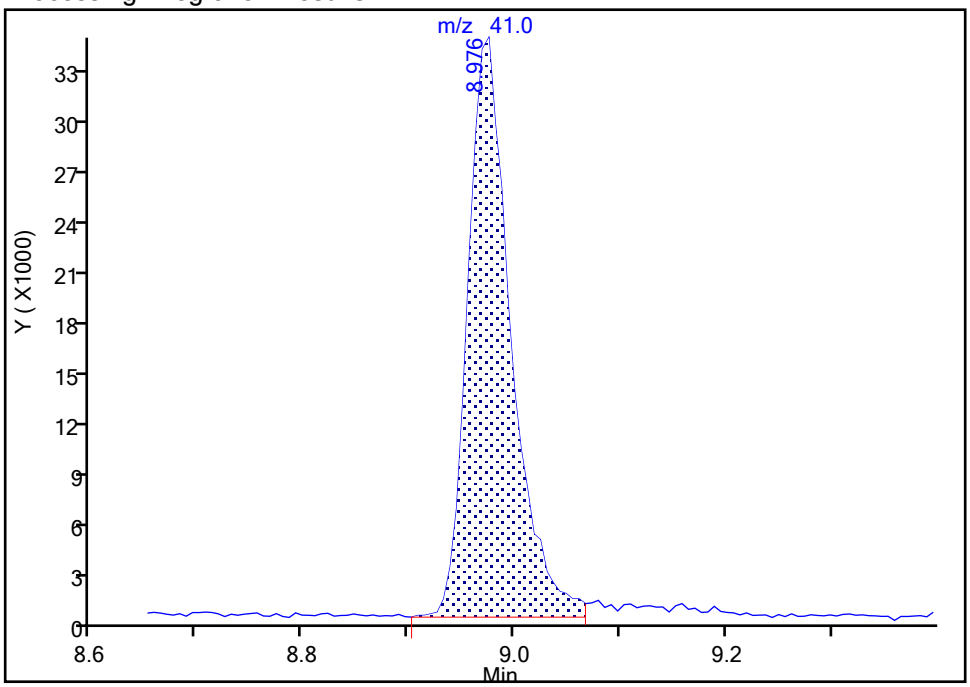
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X16.D				
Injection Date:	11-Mar-2021 20:55:30	Instrument ID:	10193		
Lims ID:	IC STD1 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

68 2-Nitropropane, CAS: 79-46-9

Signal: 1

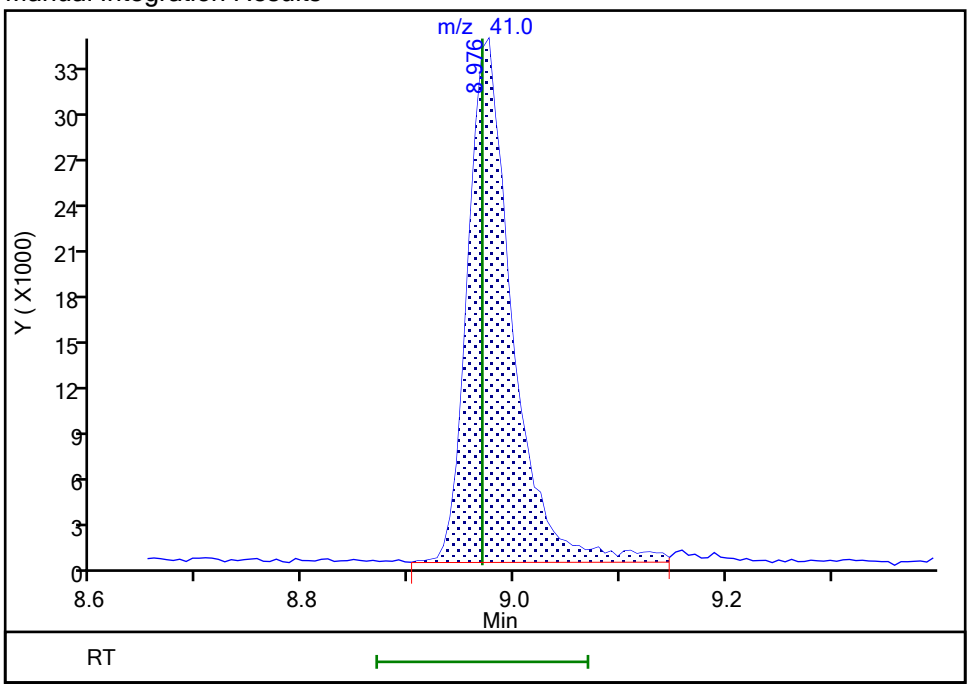
Processing Integration Results

RT: 8.98
Area: 96851
Amount: 9.806250
Amount Units: ug/l



Manual Integration Results

RT: 8.98
Area: 99954
Amount: 9.856110
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:26:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Lims ID: IC STD.5 Lg
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Mar-2021 21:18:30 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-017
Misc. Info.: IC STD.5 LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:39 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 09:43:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.873	1.879	-0.006	99	26325	0.5000	0.4556	
3 Chloromethane	50	2.074	2.074	0.000	98	35701	0.5000	0.5001	
4 Butadiene	39	2.184	2.178	0.006	93	42056	0.5000	0.5367	M
5 Vinyl chloride	62	2.184	2.184	0.000	69	31326	0.5000	0.4803	M
6 Bromomethane	94	2.495	2.489	0.006	91	23670	0.5000	0.5047	M
7 Chloroethane	64	2.568	2.562	0.006	99	20758	0.5000	0.4858	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	47511	0.5000	0.4826	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	97	42470	0.5000	0.4776	
11 Ethyl ether	59	3.086	3.086	0.000	92	25522	0.5001	0.5290	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.184	3.172	0.012	94	36027	0.5000	0.5170	
13 Acrolein	56	3.257	3.257	0.000	98	175965	25.0	26.3	
14 1,1-Dichloroethene	96	3.379	3.379	0.000	96	25908	0.5000	0.5163	
15 112TCTFE	101	3.422	3.410	0.012	92	28545	0.5000	0.5225	
16 Acetone	43	3.422	3.416	0.006	77	39833	5.00	5.04	M
17 Iodomethane	142	3.568	3.562	0.006	100	49816	0.5000	0.5080	
18 Isopropyl alcohol	45	3.550	3.586	-0.036	29	21348	10.0	11.4	
19 Ethyl bromide	108	3.592	3.592	0.000	98	22324	0.5002	0.5306	
20 Carbon disulfide	76	3.660	3.659	0.001	99	85582	0.5000	0.4994	
22 Methyl acetate	43	3.818	3.824	-0.006	25	8102	0.5000	0.4676	M
23 3-Chloro-1-propene	41	3.836	3.830	0.006	90	48201	0.5000	0.5194	
24 Methylene Chloride	84	4.013	4.007	0.006	95	28496	0.5000	0.5058	
* 25 t-Butyl alcohol-d10 (IS)	65	4.044	4.050	-0.006	0	171087	50.0	50.0	
26 2-Methyl-2-propanol	59	4.178	4.165	0.013	95	33022	10.0	10.8	
27 Acrylonitrile	53	4.361	4.354	0.007	92	28985	2.50	2.58	
28 Methyl tert-butyl ether	73	4.403	4.391	0.012	97	84164	0.5000	0.5083	
29 trans-1,2-Dichloroethene	96	4.409	4.403	0.006	96	29304	0.5000	0.5089	
30 Hexane	57	4.830	4.824	0.006	94	47320	0.5000	0.5199	
32 1,1-Dichloroethane	63	5.080	5.074	0.006	96	54906	0.5000	0.5036	
33 Isopropyl ether	45	5.135	5.129	0.006	92	103081	0.5000	0.5023	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	93	49154	0.5000	0.4970	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.671	5.665	0.006	98	100234	0.5000	0.5019	
36 2-Butanone (MEK)	43	5.891	5.885	0.006	99	78803	5.00	4.91	M
37 cis-1,2-Dichloroethene	96	5.915	5.915	0.000	83	33468	0.5000	0.5168	
38 2,2-Dichloropropane	77	5.927	5.921	0.006	68	44691	0.5000	0.5047	
40 Propionitrile	54	5.982	5.988	-0.006	98	38100	10.0	9.00	
S 42 1,2-Dichloroethene, Total	100				0			1.03	
43 Methacrylonitrile	67	6.202	6.189	0.013	92	78755	5.00	4.97	M
44 Chlorobromomethane	128	6.244	6.244	0.000	82	15433	0.5000	0.5364	
45 Tetrahydrofuran	71	6.257	6.250	0.007	80	23156	5.00	5.01	
46 Chloroform	83	6.403	6.403	0.000	94	53577	0.5000	0.5139	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	518402	10.0	10.0	
48 1,1,1-Trichloroethane	97	6.622	6.622	0.000	40	47924	0.5000	0.5224	
49 Cyclohexane	56	6.720	6.714	0.006	92	55219	0.5000	0.5036	
50 Carbon tetrachloride	117	6.830	6.830	0.000	94	38434	0.5000	0.5021	
51 1,1-Dichloropropene	75	6.842	6.842	0.000	96	43115	0.5000	0.5058	
52 Isobutyl alcohol	41	7.025	7.031	-0.006	92	27067	25.0	23.8	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	107097	10.0	10.0	
54 Benzene	78	7.104	7.104	0.000	95	127165	0.5000	0.5148	
55 1,2-Dichloroethane	62	7.183	7.171	0.012	97	38607	0.5000	0.5245	
56 Tert-amyl methyl ether	73	7.299	7.299	0.000	98	90424	0.5000	0.5086	
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	98	2186974	10.0	10.0	
58 n-Heptane	43	7.519	7.525	-0.006	38	49882	0.5000	0.4986	
59 n-Butanol	56	7.939	7.927	0.012	89	45459	50.0	47.2	
60 Trichloroethene	95	8.000	7.994	0.006	98	31990	0.5000	0.5110	
61 Methylcyclohexane	83	8.299	8.299	0.000	92	56435	0.5000	0.5036	
62 1,2-Dichloropropane	63	8.329	8.335	-0.006	93	32475	0.5000	0.5088	
63 2-ethoxy-2-methyl butane	87	8.342	8.342	0.000	90	49965	0.5000	0.5038	
64 Methyl methacrylate	69	8.445	8.433	0.012	92	15099	0.5000	0.4711	
66 Dibromomethane	93	8.445	8.439	0.006	88	14702	0.5000	0.4933	
65 1,4-Dioxane	88	8.439	8.482	-0.043	31	6141	25.0	29.7	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	99	36245	0.5000	0.4906	
68 2-Nitropropane	41	8.976	8.969	0.007	99	45053	5.00	4.30	
71 1-Bromo-2-chloroethane	63	9.085	9.079	0.006	98	31800	0.5000	0.5238	
72 cis-1,3-Dichloropropene	75	9.250	9.250	0.000	94	46348	0.5000	0.4855	
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	98	212989	5.00	4.82	
$ 74 Toluene-d8 (Surr)	98	9.567	9.561	0.006	94	2161262	10.0	10.0	
75 Toluene	92	9.646	9.640	0.006	97	79287	0.5000	0.5037	
76 trans-1,3-Dichloropropene	75	9.920	9.914	0.006	95	37981	0.5000	0.4735	
78 Ethyl methacrylate	69	9.988	9.981	0.007	90	30786	0.5000	0.4526	
S 77 1,3-Dichloropropene, Total	100				0			0.9591	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	91	22332	0.5000	0.5103	
80 Tetrachloroethene	166	10.207	10.201	0.006	96	34486	0.5000	0.5169	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	94	39064	0.5000	0.4999	
82 2-Hexanone	43	10.359	10.353	0.006	98	153300	5.00	4.74	M
83 Chlorodibromomethane	129	10.512	10.506	0.006	89	23068	0.5000	0.4687	
84 Ethylene Dibromide	107	10.622	10.615	0.007	98	20961	0.5000	0.4965	M
* 85 Chlorobenzene-d5 (IS)	117	11.061	11.060	0.000	87	1612013	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	97	46860	0.5000	0.5169	
87 Chlorobenzene	112	11.085	11.085	0.000	94	90818	0.5000	0.5116	
89 1,1,1,2-Tetrachloroethane	131	11.170	11.170	0.000	93	28551	0.5000	0.4821	
90 Ethylbenzene	91	11.176	11.176	0.000	99	153300	0.5000	0.4994	
S 88 Xylenes, Total	106				0			1.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.292	11.292	0.000	99	119625	1.00	1.00	
92 o-Xylene	106	11.627	11.627	0.000	96	59355	0.5000	0.5008	
93 Styrene	104	11.646	11.646	0.000	95	97913	0.5000	0.4949	
94 Bromoform	173	11.804	11.804	0.000	95	12929	0.5000	0.4621	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	154456	0.5000	0.5026	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	89	824527	10.0	9.98	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	93	27999	0.5000	0.5078	
100 Bromobenzene	156	12.194	12.194	0.000	96	37632	0.5000	0.5070	
101 trans-1,4-Dichloro-2-butene	53	12.213	12.213	0.000	95	76366	5.00	4.73	
102 1,2,3-Trichloropropane	110	12.231	12.231	0.000	80	7579	0.5000	0.5087	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	184191	0.5000	0.5128	
104 2-Chlorotoluene	126	12.341	12.341	0.000	96	38280	0.5000	0.5148	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	131460	0.5000	0.4995	
106 4-Chlorotoluene	126	12.438	12.438	0.000	98	40898	0.5000	0.5256	
107 tert-Butylbenzene	134	12.652	12.646	0.006	93	28261	0.5000	0.4968	
108 Pentachloroethane	167	12.682	12.682	0.000	76	20143	0.5000	0.4916	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	98	137851	0.5000	0.5062	
110 sec-Butylbenzene	105	12.816	12.816	0.000	94	168319	0.5000	0.4990	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	72929	0.5000	0.4974	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	98	146440	0.5000	0.4997	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	872465	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	93	76222	0.5000	0.5060	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	98	62634	0.5000	0.5176	
116 Benzyl chloride	126	13.072	13.072	0.000	99	8712	0.5000	0.4236	
119 n-Butylbenzene	92	13.219	13.219	0.000	98	72265	0.5000	0.4833	
120 1,2-Dichlorobenzene	146	13.255	13.249	0.006	97	69431	0.5000	0.5027	
118 p-Diethylbenzene	119	13.273	13.273	0.000	86	79873	0.5000	0.5330	
123 1,2-Dibromo-3-Chloropropane	155	13.810	13.804	0.006	81	3514	0.5000	0.4608	M
124 1,3,5-Trichlorobenzene	180	13.932	13.926	0.006	97	61216	0.5000	0.5088	
125 1,2,4-Trichlorobenzene	180	14.359	14.353	0.006	94	54089	0.5000	0.5004	
126 Hexachlorobutadiene	225	14.438	14.438	0.000	97	26251	0.5000	0.5113	
127 Naphthalene	128	14.548	14.535	0.013	97	95674	0.5000	0.4909	
128 1,2,3-Trichlorobenzene	180	14.688	14.682	0.006	96	48128	0.5000	0.5010	
129 2-Methylnaphthalene	142	15.316	15.304	0.012	91	66474	0.5000	0.4928	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

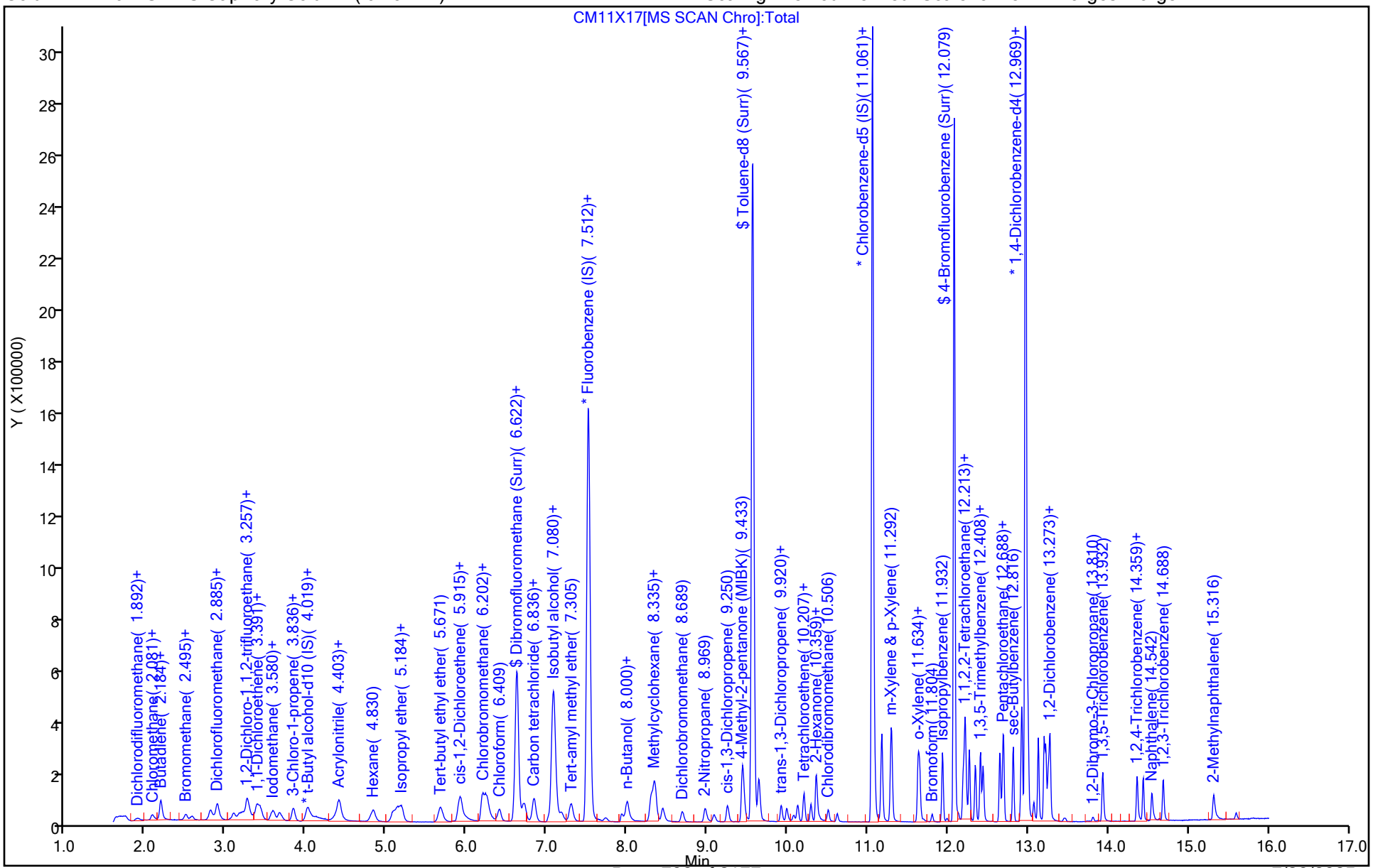
Report Date: 23-Mar-2021 16:56:41 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D

Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	IC STD.5 Lg			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

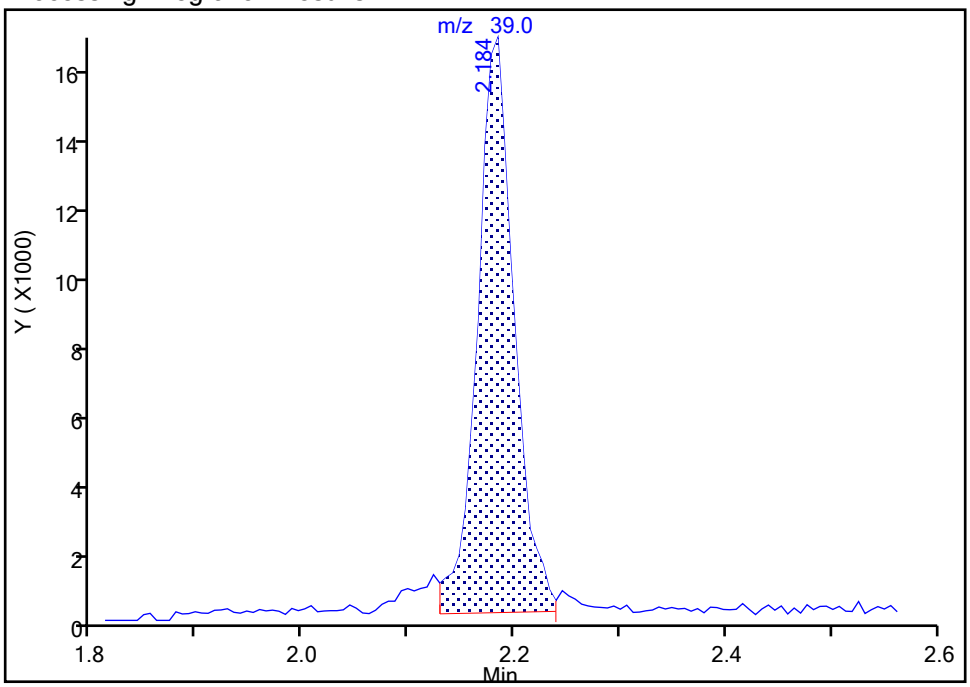
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

4 Butadiene, CAS: 106-99-0

Signal: 1

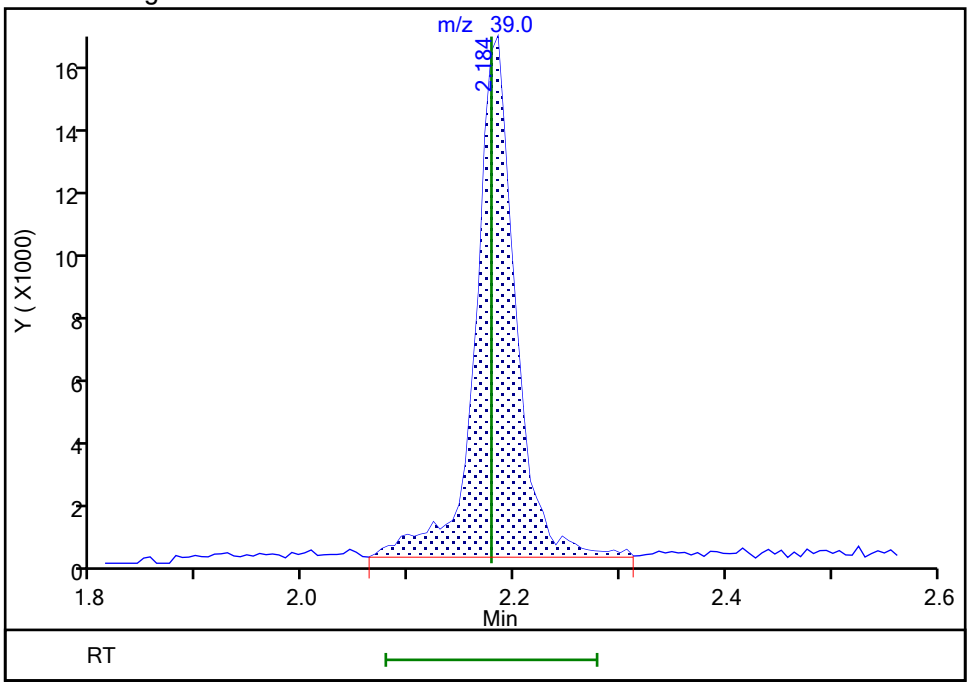
Processing Integration Results

RT: 2.18
Area: 38680
Amount: 0.499796
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 42056
Amount: 0.536729
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:10:09
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

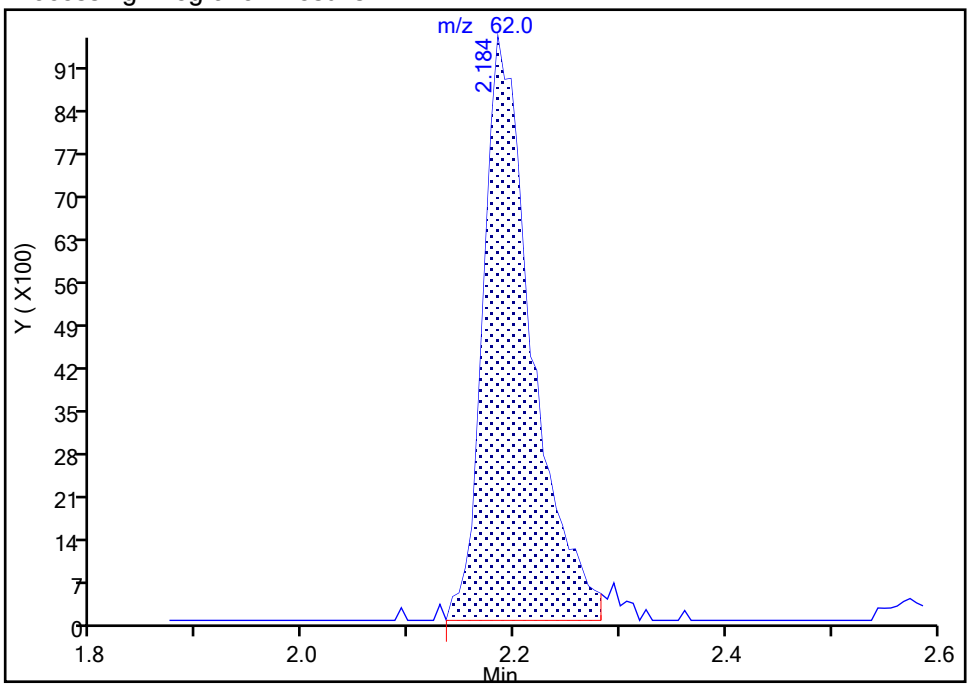
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

5 Vinyl chloride, CAS: 75-01-4

Signal: 1

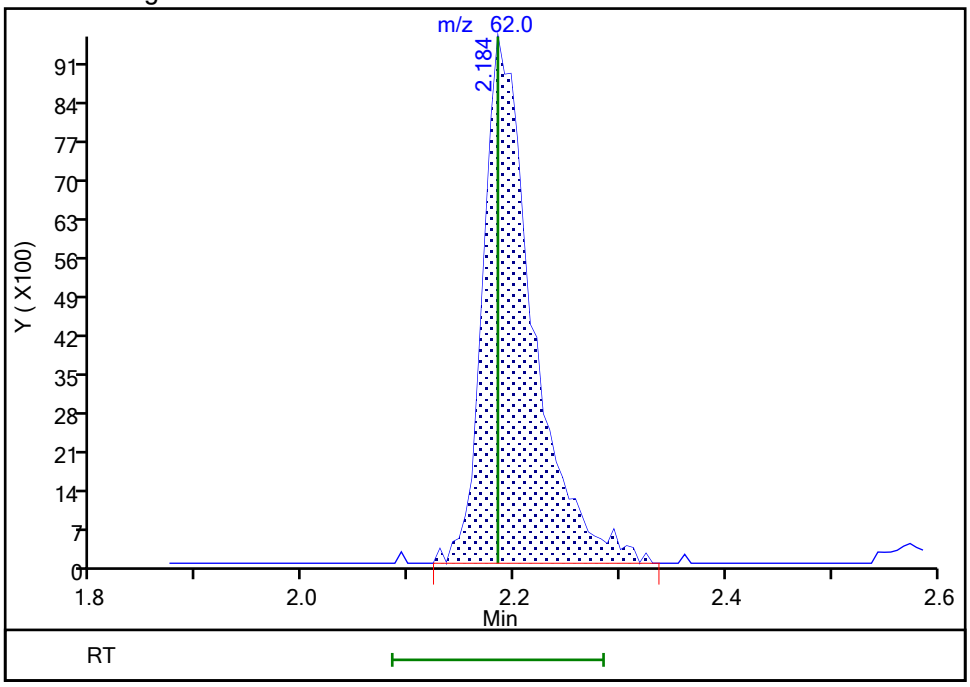
Processing Integration Results

RT: 2.18
Area: 30508
Amount: 0.375569
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 31326
Amount: 0.480322
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:12:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

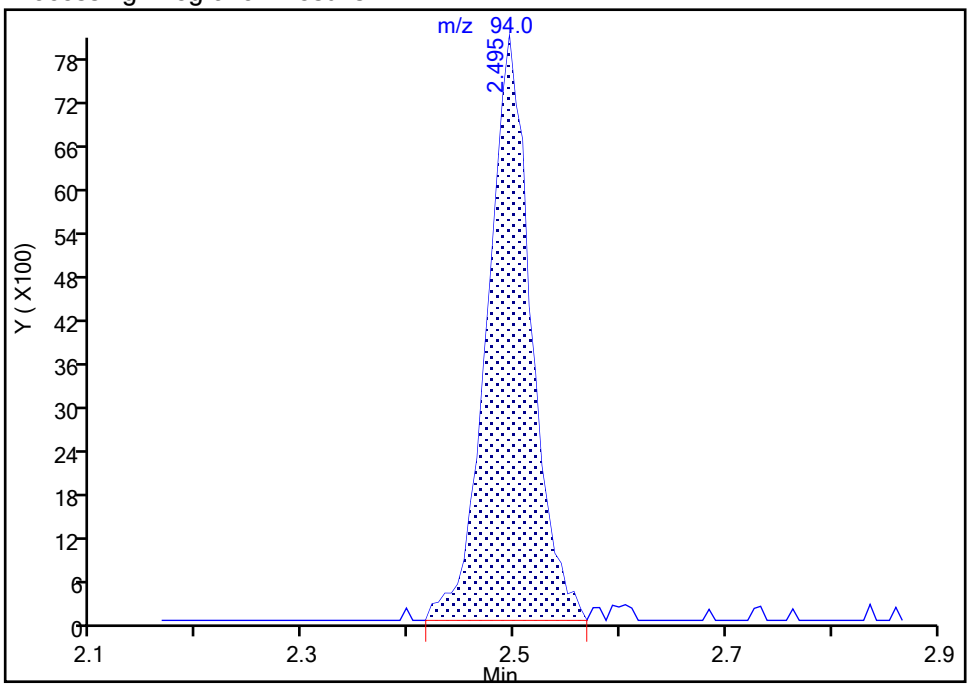
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

6 Bromomethane, CAS: 74-83-9

Signal: 1

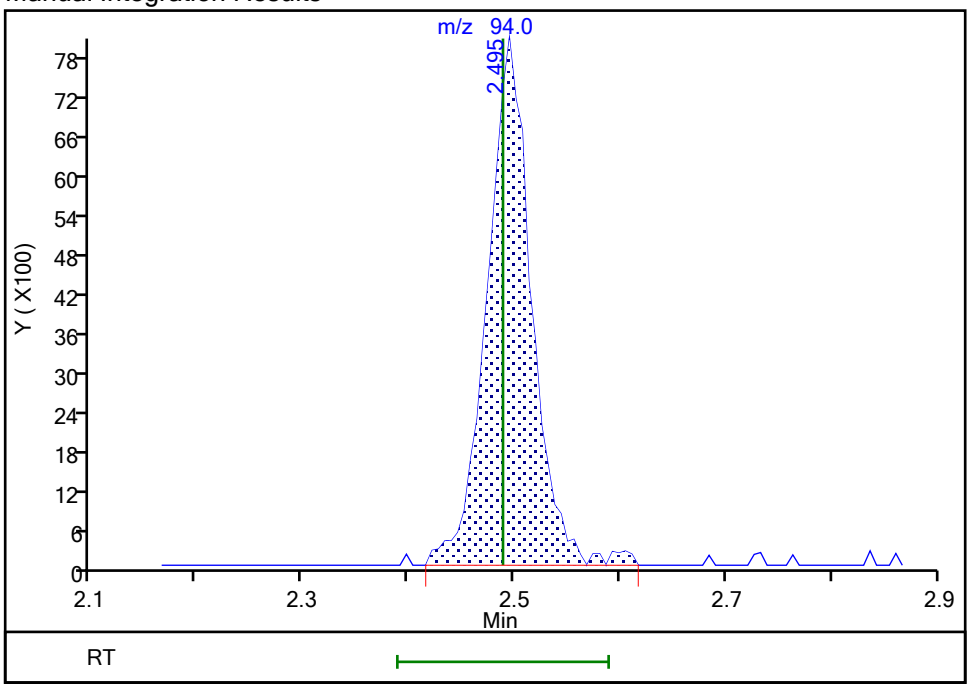
Processing Integration Results

RT: 2.50
Area: 23258
Amount: 0.397720
Amount Units: ug/l



Manual Integration Results

RT: 2.50
Area: 23670
Amount: 0.504686
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:12:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

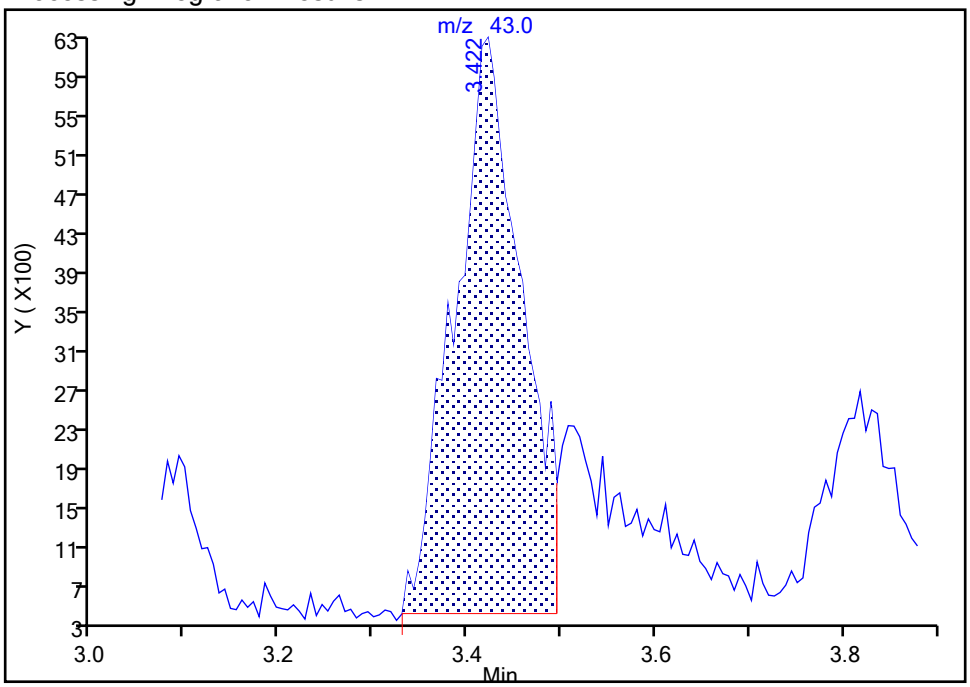
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Injection Date: 11-Mar-2021 21:18:30 Instrument ID: 10193
Lims ID: IC STD.5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

16 Acetone, CAS: 67-64-1

Signal: 1

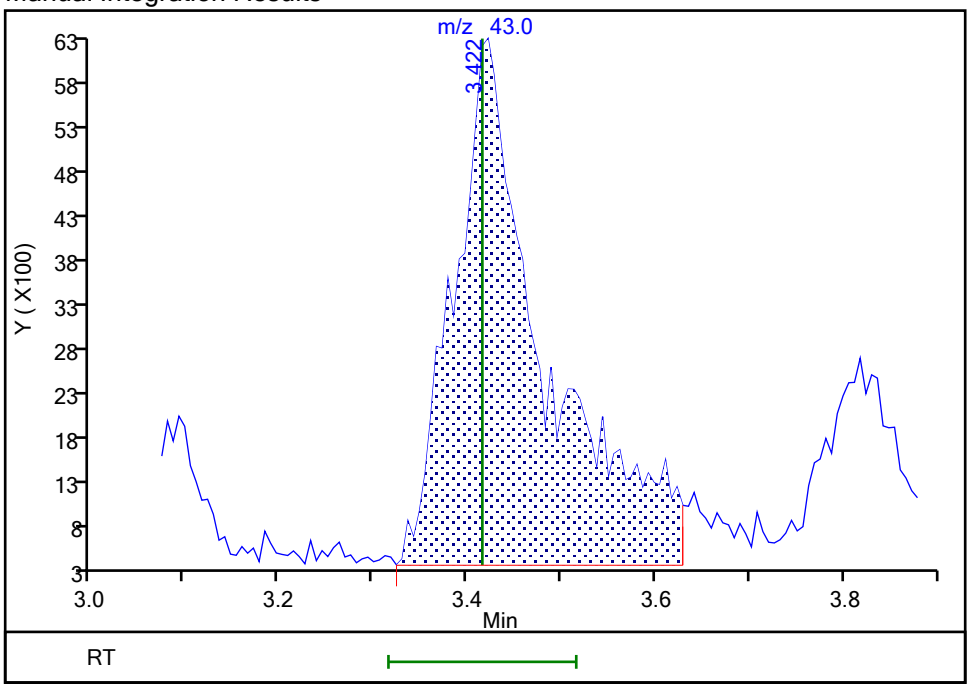
Processing Integration Results

RT: 3.42
Area: 29138
Amount: 3.846804
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 39833
Amount: 5.040336
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:35:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

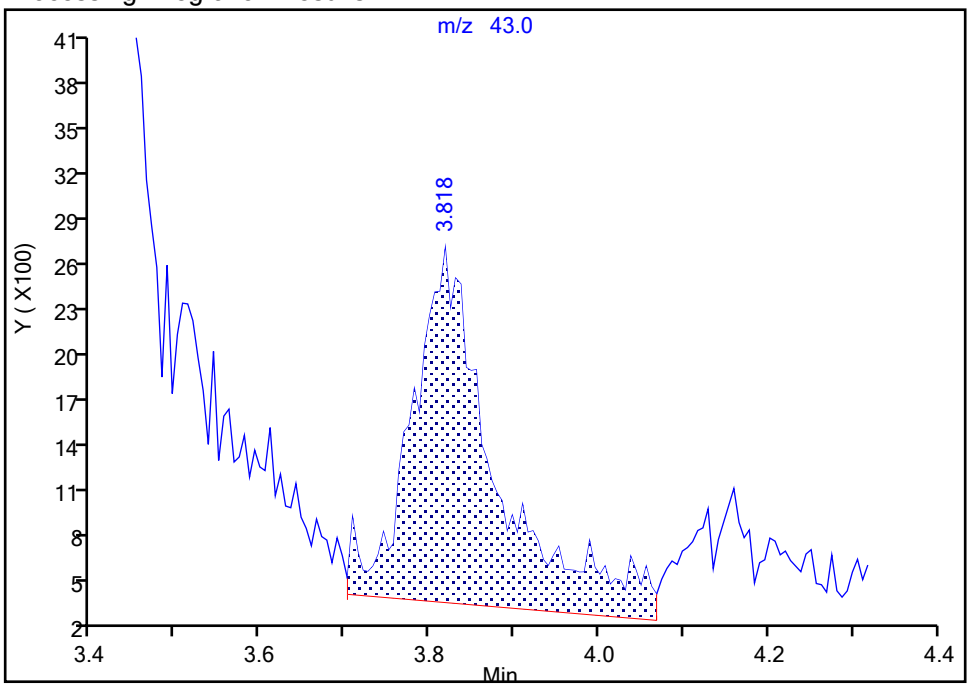
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

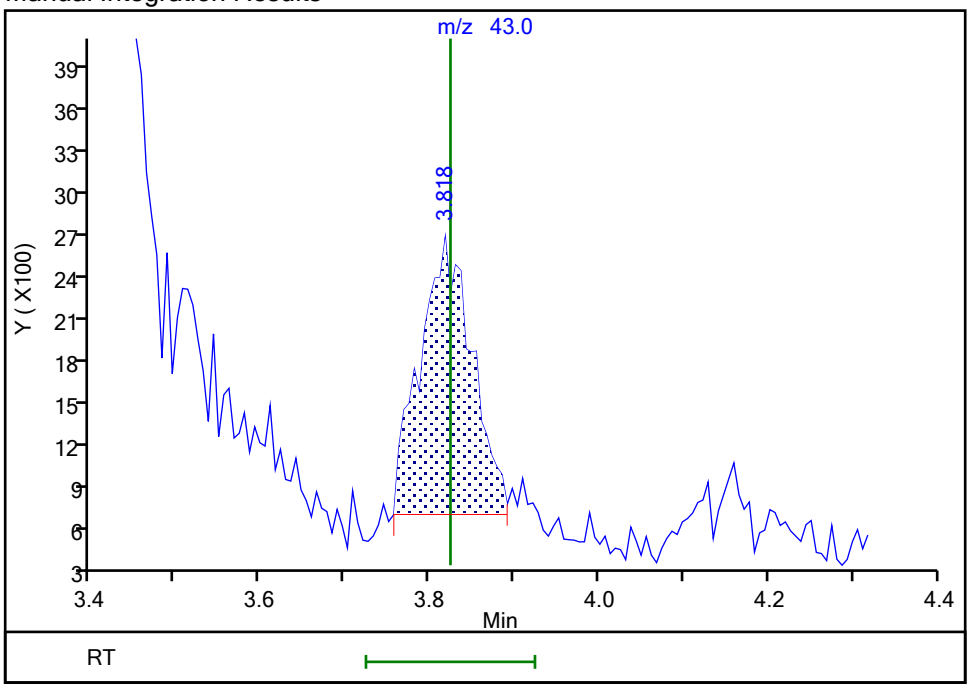
Processing Integration Results

RT: 3.82
Area: 15827
Amount: 0.965731
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 8102
Amount: 0.467556
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:25:14
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

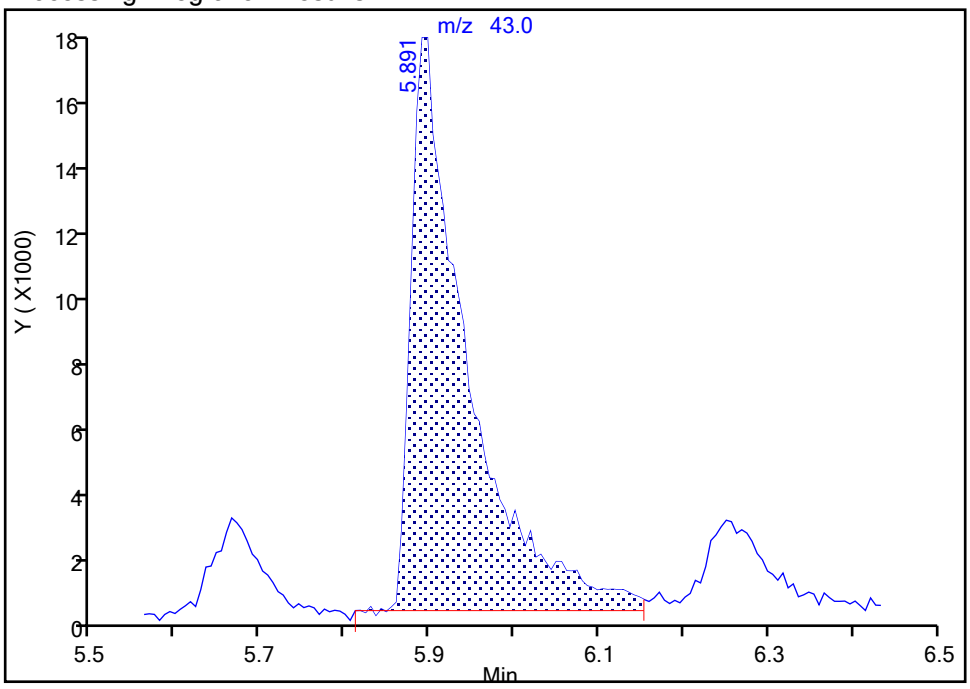
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

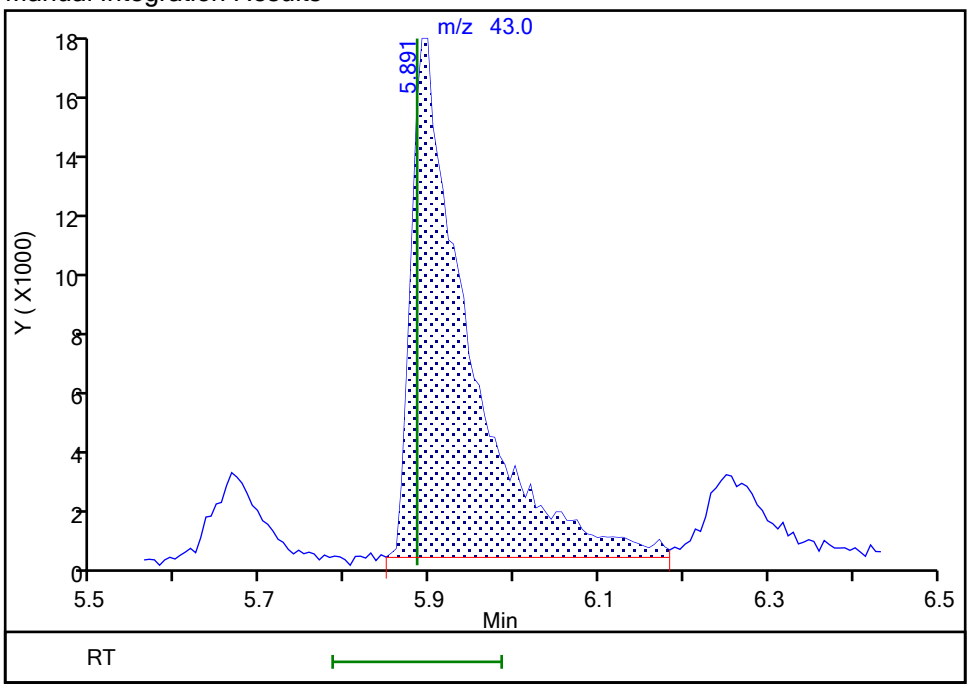
Processing Integration Results

RT: 5.89
Area: 77519
Amount: 4.951846
Amount Units: ug/l



Manual Integration Results

RT: 5.89
Area: 78803
Amount: 4.906559
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:38:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

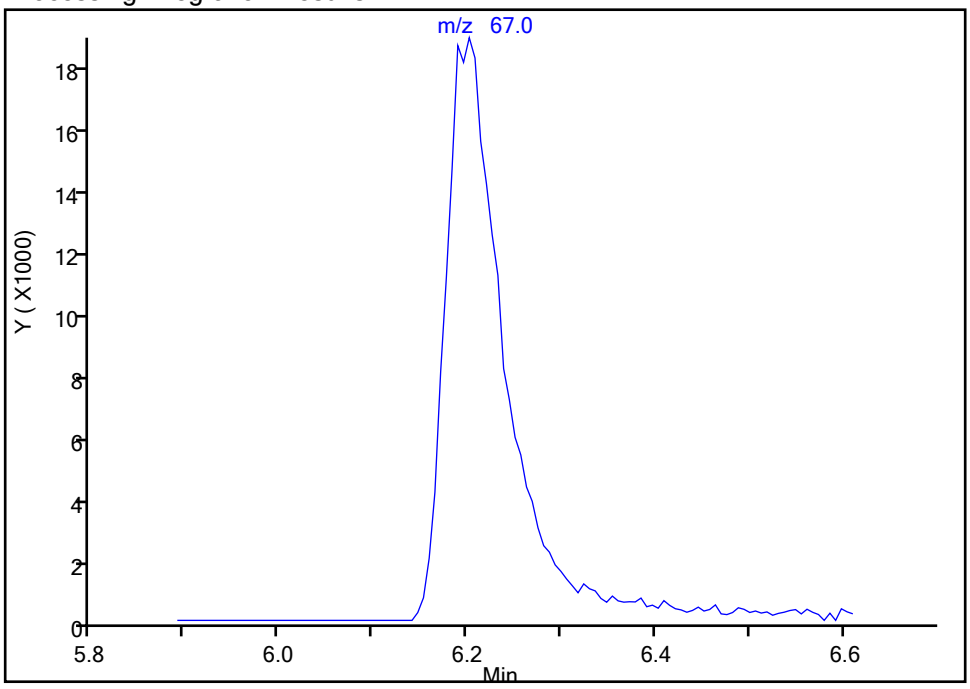
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

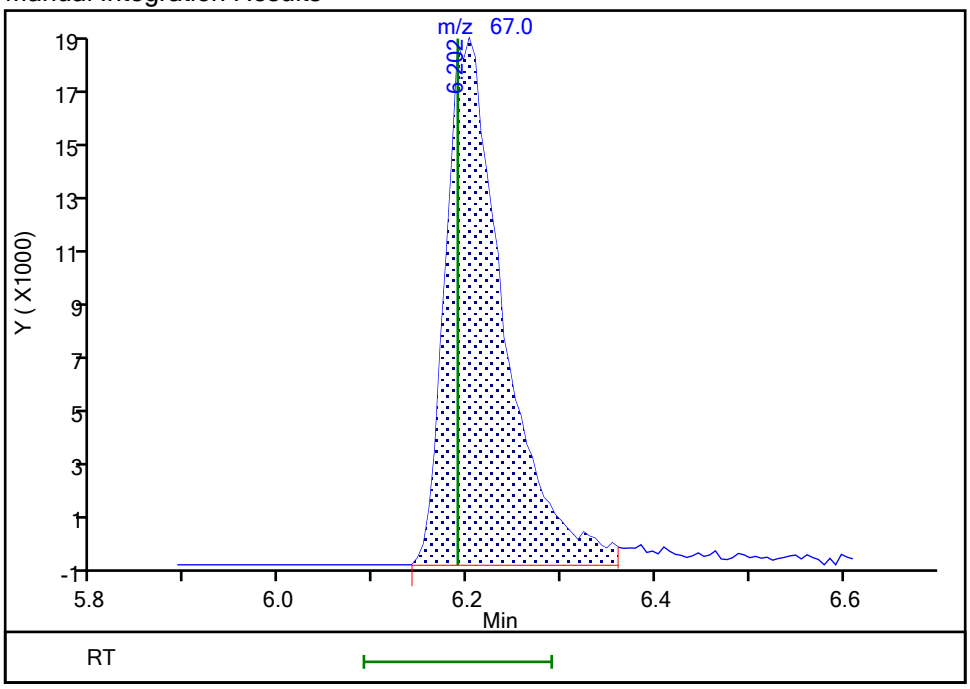
Not Detected
Expected RT: 6.19

Processing Integration Results



Manual Integration Results

RT: 6.20
Area: 78755
Amount: 4.969385
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:39:02
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

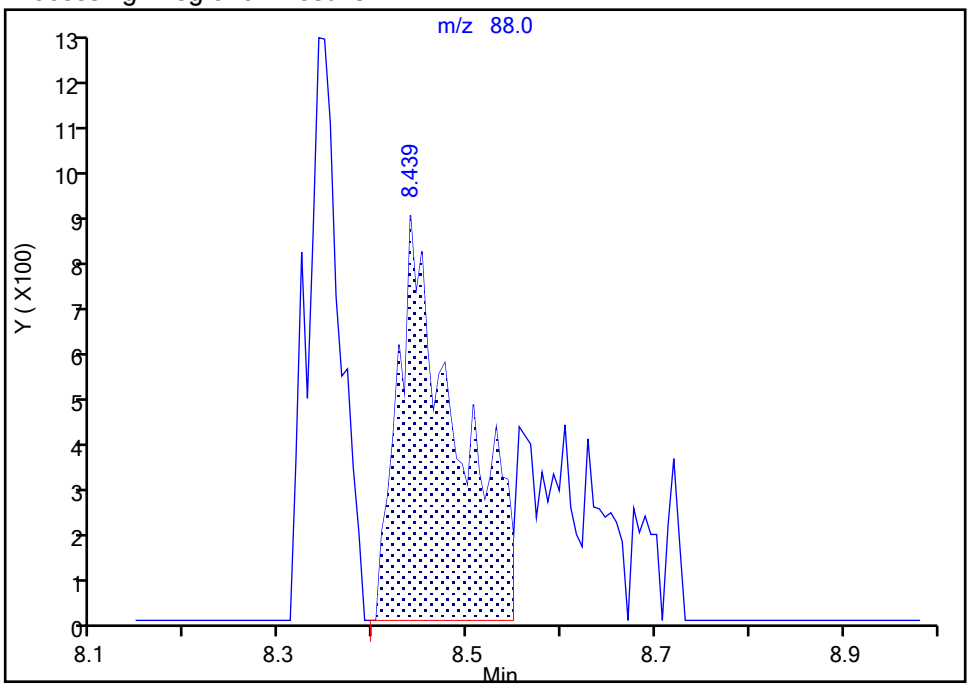
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

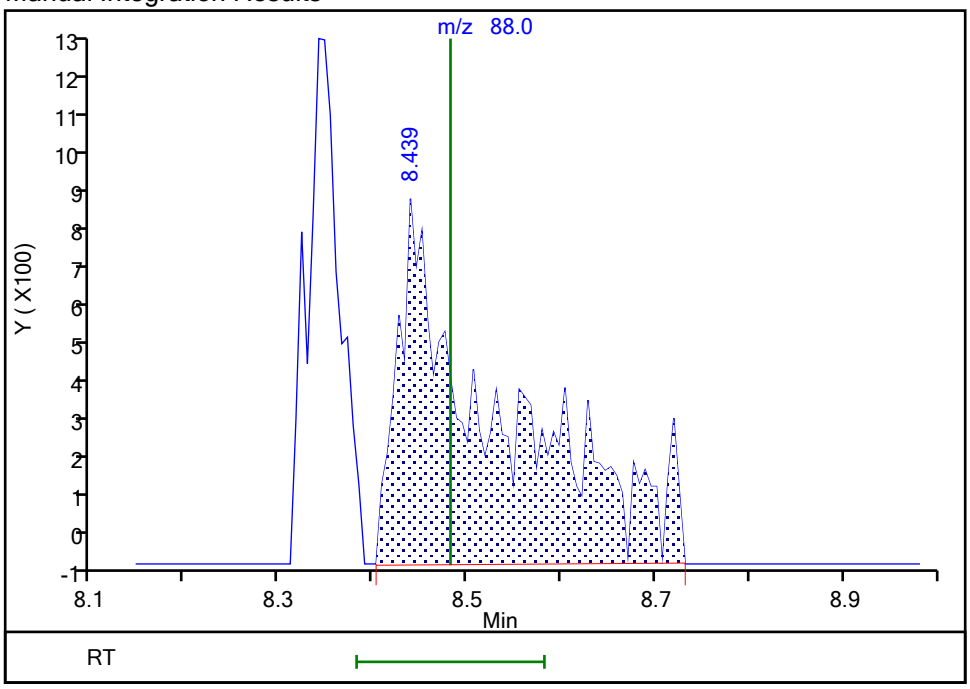
Processing Integration Results

RT: 8.44
Area: 3650
Amount: 22.044795
Amount Units: ug/l



Manual Integration Results

RT: 8.44
Area: 6141
Amount: 29.747061
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:40:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

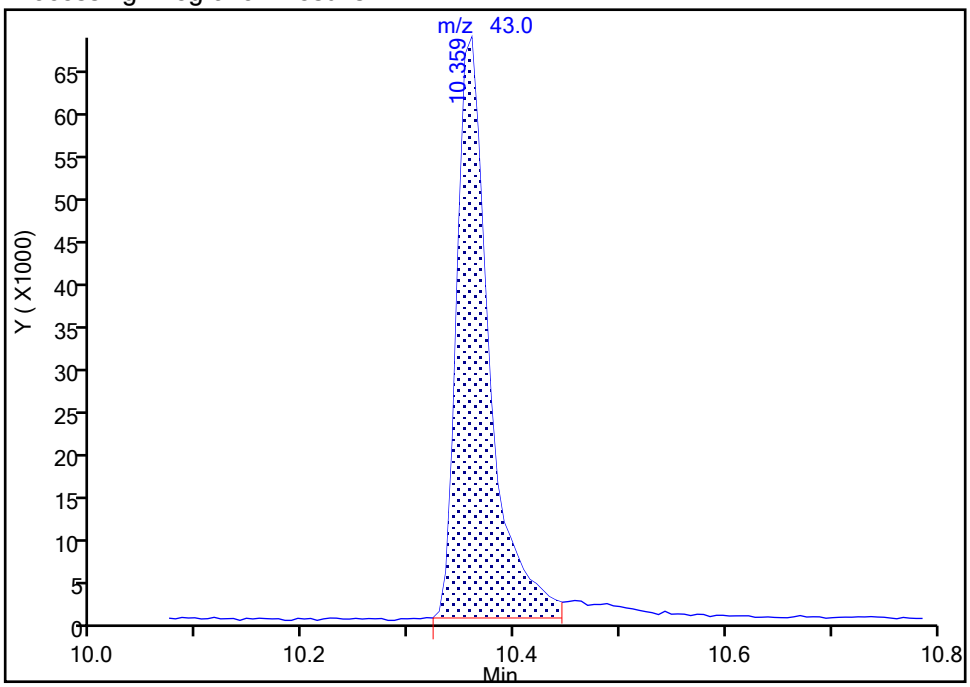
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D
Injection Date: 11-Mar-2021 21:18:30 Instrument ID: 10193
Lims ID: IC STD.5 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

82 2-Hexanone, CAS: 591-78-6

Signal: 1

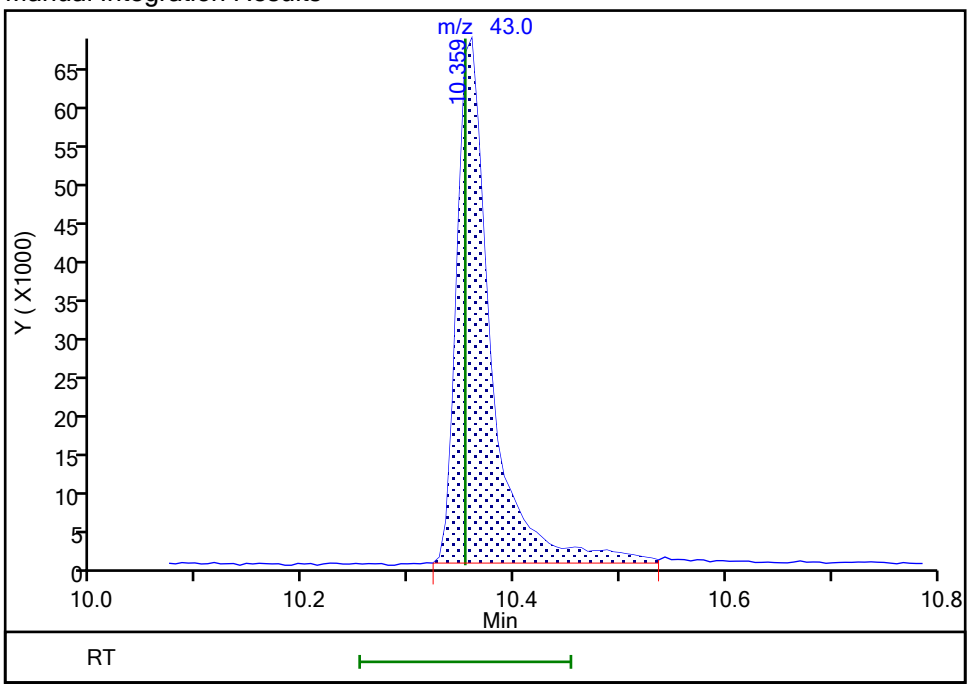
Processing Integration Results

RT: 10.36
Area: 145985
Amount: 4.691289
Amount Units: ug/l



Manual Integration Results

RT: 10.36
Area: 153300
Amount: 4.738375
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:46:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

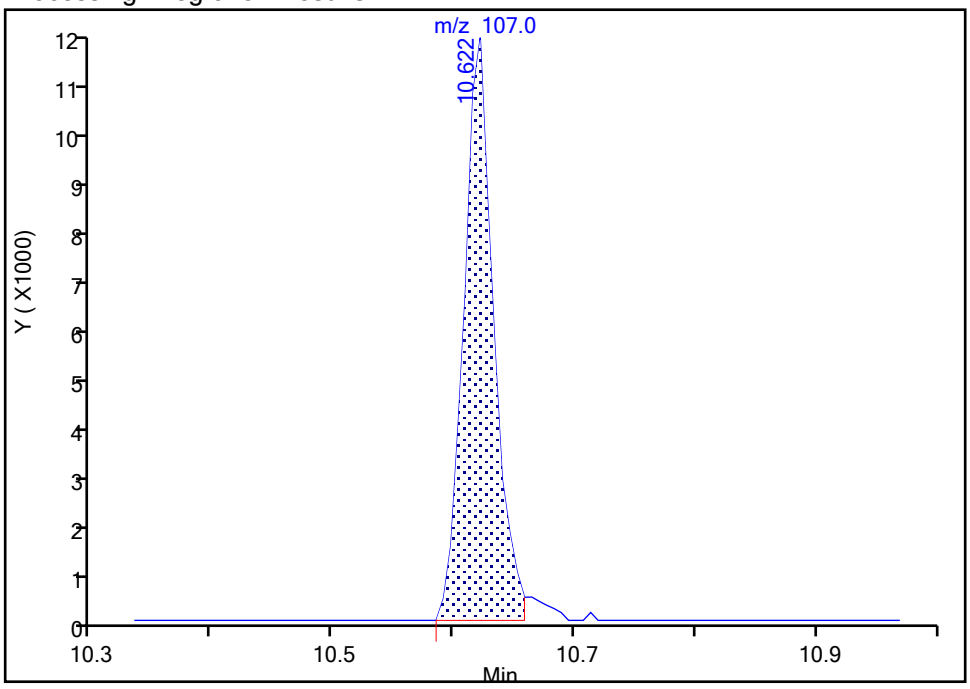
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

84 Ethylene Dibromide, CAS: 106-93-4

Signal: 1

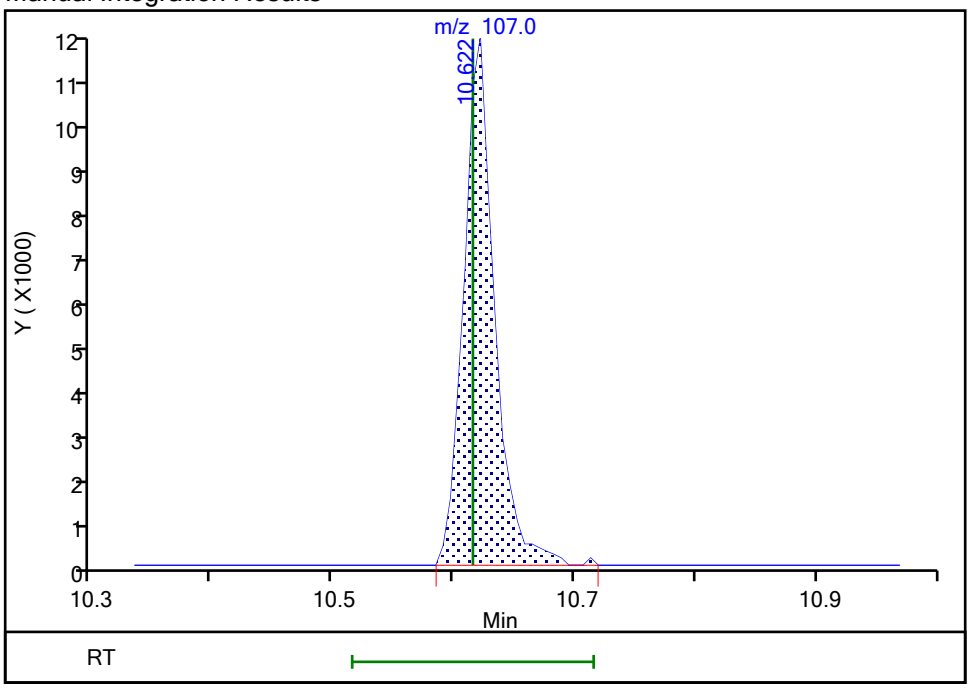
Processing Integration Results

RT: 10.62
Area: 20326
Amount: 0.483522
Amount Units: ug/l



Manual Integration Results

RT: 10.62
Area: 20961
Amount: 0.496485
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:46:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

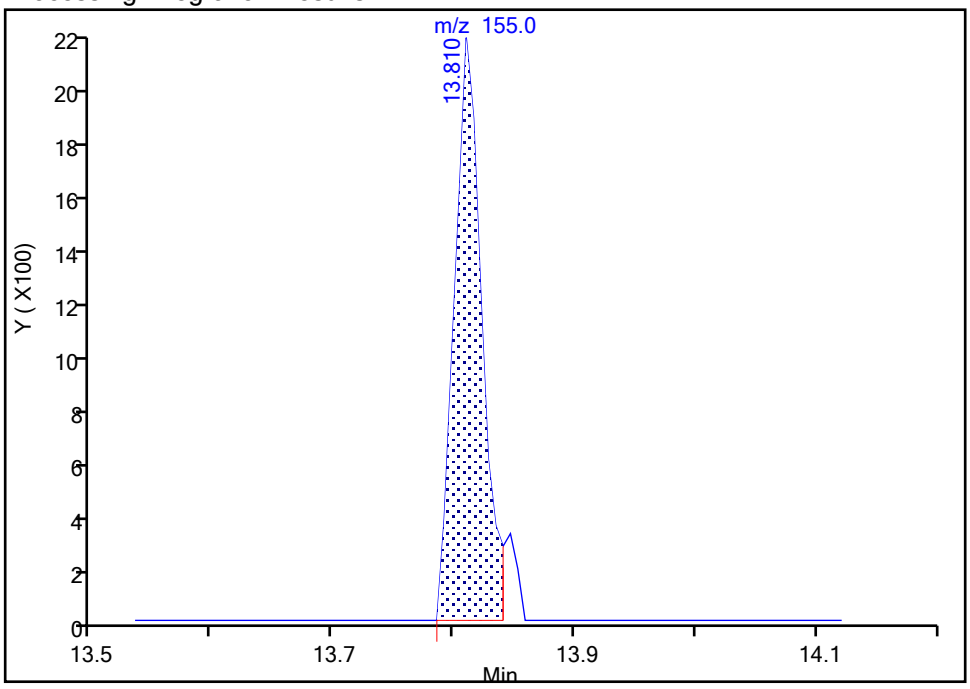
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X17.D				
Injection Date:	11-Mar-2021 21:18:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	17	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

123 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

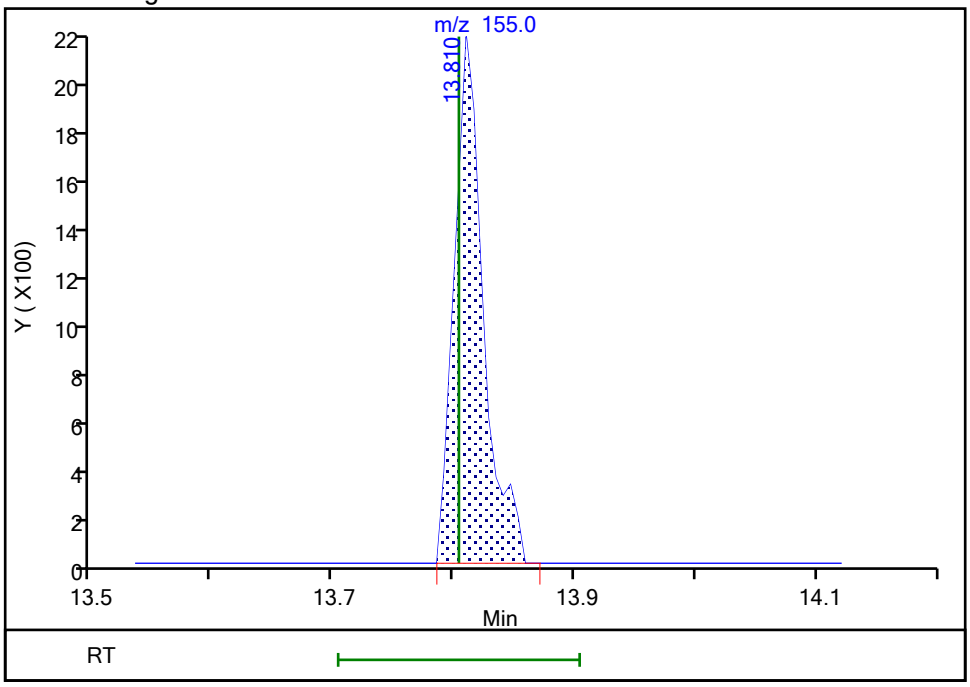
Processing Integration Results

RT: 13.81
Area: 3331
Amount: 0.439824
Amount Units: ug/l



Manual Integration Results

RT: 13.81
Area: 3514
Amount: 0.460806
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 09:46:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Lims ID: IC STD.2 Lg
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Mar-2021 21:40:30 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0023820-018
Misc. Info.: ICV LG
Operator ID: SRK36897 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 23-Mar-2021 16:56:53 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1638

First Level Reviewer: knouses Date: 12-Mar-2021 10:55:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.879	1.879	0.000	30	4909	0.2000	0.0865	
3 Chloromethane	50	2.080	2.074	0.006	98	16127	0.2000	0.2299	
4 Butadiene	39	2.184	2.178	0.006	91	15497	0.2000	0.2013	M
5 Vinyl chloride	62	2.184	2.184	0.000	69	11671	0.2000	0.1821	
6 Bromomethane	94	2.495	2.489	0.006	90	10263	0.2000	0.2227	
7 Chloroethane	64	2.568	2.562	0.006	98	8651	0.2000	0.2060	
8 Dichlorofluoromethane	67	2.800	2.800	0.000	97	20597	0.2000	0.2129	
9 Trichlorofluoromethane	101	2.861	2.861	0.000	98	8323	0.2000	0.0952	
11 Ethyl ether	59	3.086	3.086	0.000	93	9230	0.2000	0.1947	
12 1,2-Dichloro-1,1,2-trifluoroetha	67	3.172	3.172	0.000	92	12692	0.2000	0.1853	
13 Acrolein	56	3.257	3.257	0.000	99	62338	10.0	9.14	
14 1,1-Dichloroethene	96	3.385	3.379	0.006	97	9628	0.2000	0.1952	
15 112TCTFE	101	3.416	3.410	0.006	87	8566	0.2000	0.1595	
16 Acetone	43	3.422	3.416	0.006	42	14655	2.00	1.82	M
17 Iodomethane	142	3.568	3.562	0.006	100	18991	0.2000	0.1971	
18 Isopropyl alcohol	45	3.562	3.586	-0.024	37	8354	4.00	4.37	
19 Ethyl bromide	108	3.592	3.592	0.000	94	7881	0.2001	0.1906	M
20 Carbon disulfide	76	3.672	3.659	0.013	99	31322	0.2000	0.1860	
22 Methyl acetate	43	3.818	3.824	-0.006	27	3047	0.2000	0.1727	M
23 3-Chloro-1-propene	41	3.824	3.830	-0.006	88	19050	0.2000	0.2089	M
24 Methylene Chloride	84	4.013	4.007	0.006	96	11365	0.2000	0.2053	M
* 25 t-Butyl alcohol-d10 (IS)	65	4.068	4.050	0.018	0	174165	50.0	50.0	
26 2-Methyl-2-propanol	59	4.141	4.165	-0.024	44	12195	4.00	3.92	M
27 Acrylonitrile	53	4.354	4.354	0.000	96	9792	1.00	0.8567	
28 Methyl tert-butyl ether	73	4.403	4.391	0.012	95	31742	0.2000	0.1951	
29 trans-1,2-Dichloroethene	96	4.409	4.403	0.006	96	11628	0.2000	0.2055	
30 Hexane	57	4.830	4.824	0.006	92	14981	0.2000	0.1675	
32 1,1-Dichloroethane	63	5.074	5.074	0.000	96	20975	0.2000	0.1958	
33 Isopropyl ether	45	5.141	5.129	0.012	92	39087	0.2000	0.1938	
34 2-Chloro-1,3-butadiene	53	5.184	5.184	0.000	93	18141	0.2000	0.1867	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Tert-butyl ethyl ether	59	5.665	5.665	0.000	98	38483	0.2000	0.1961	M
36 2-Butanone (MEK)	43	5.903	5.885	0.018	98	31693	2.00	1.94	M
37 cis-1,2-Dichloroethene	96	5.921	5.915	0.006	83	12707	0.2000	0.1997	
38 2,2-Dichloropropane	77	5.927	5.921	0.006	62	16422	0.2000	0.1887	M
40 Propionitrile	54	6.007	5.988	0.019	98	16183	4.00	3.75	M
S 42 1,2-Dichloroethene, Total	100				0			0.4052	
43 Methacrylonitrile	67	6.208	6.189	0.019	90	31122	2.00	1.93	M
44 Chlorobromomethane	128	6.244	6.244	0.000	87	5501	0.2000	0.1945	
45 Tetrahydrofuran	71	6.275	6.250	0.025	60	8374	2.00	1.78	M
46 Chloroform	83	6.409	6.403	0.006	95	20269	0.2000	0.1978	
$ 47 Dibromofluoromethane (Surr)	113	6.622	6.622	0.000	93	506093	10.0	9.95	
48 1,1,1-Trichloroethane	97	6.616	6.622	-0.006	45	16721	0.2000	0.1855	
49 Cyclohexane	56	6.720	6.714	0.006	93	18772	0.2000	0.1742	
50 Carbon tetrachloride	117	6.836	6.830	0.006	78	12915	0.2000	0.1717	
51 1,1-Dichloropropene	75	6.848	6.842	0.006	93	16022	0.2000	0.1913	
52 Isobutyl alcohol	41	7.043	7.031	0.012	78	11714	10.0	10.1	M
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	104513	10.0	9.97	
54 Benzene	78	7.104	7.104	0.000	94	47305	0.2000	0.1949	
55 1,2-Dichloroethane	62	7.183	7.171	0.012	94	15366	0.2000	0.2124	M
56 Tert-amyl methyl ether	73	7.305	7.299	0.006	97	33265	0.2000	0.1904	M
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	98	2149149	10.0	10.0	
58 n-Heptane	43	7.518	7.525	-0.007	37	18909	0.2000	0.1923	M
59 n-Butanol	56	7.951	7.927	0.024	95	16368	20.0	16.7	M
60 Trichloroethene	95	8.000	7.994	0.006	97	11721	0.2000	0.1905	
61 Methylcyclohexane	83	8.305	8.299	0.006	79	8827	0.2000	0.0802	
62 1,2-Dichloropropane	63	8.335	8.335	0.000	89	12070	0.2000	0.1924	
63 2-ethoxy-2-methyl butane	87	8.348	8.342	0.006	94	17827	0.2000	0.1829	
64 Methyl methacrylate	69	8.457	8.433	0.024	87	5968	0.2000	0.1829	M
66 Dibromomethane	93	8.451	8.439	0.012	93	5533	0.2000	0.1889	
65 1,4-Dioxane	88	8.445	8.482	-0.037	30	1384	10.0	6.59	M
67 Dichlorobromomethane	83	8.689	8.689	0.000	98	13700	0.2000	0.1887	
68 2-Nitropropane	41	8.975	8.969	0.006	98	21058	2.00	1.98	M
71 1-Bromo-2-chloroethane	63	9.091	9.079	0.012	99	10904	0.2000	0.1828	
72 cis-1,3-Dichloropropene	75	9.256	9.250	0.006	94	17787	0.2000	0.1896	M
73 4-Methyl-2-pentanone (MIBK)	43	9.439	9.433	0.006	97	77509	2.00	1.72	
$ 74 Toluene-d8 (Surr)	98	9.561	9.561	0.000	94	2123666	10.0	9.99	
75 Toluene	92	9.646	9.640	0.006	97	30140	0.2000	0.1942	
76 trans-1,3-Dichloropropene	75	9.920	9.914	0.006	96	15184	0.2000	0.1920	M
78 Ethyl methacrylate	69	9.994	9.981	0.013	89	12129	0.2000	0.1809	M
S 77 1,3-Dichloropropene, Total	100				0			0.3816	
79 1,1,2-Trichloroethane	97	10.128	10.122	0.006	92	8862	0.2000	0.2054	M
80 Tetrachloroethene	166	10.201	10.201	0.000	95	11980	0.2000	0.1821	
81 1,3-Dichloropropane	76	10.292	10.292	0.000	92	14952	0.2000	0.1941	M
82 2-Hexanone	43	10.365	10.353	0.012	97	63799	2.00	1.94	M
83 Chlorodibromomethane	129	10.506	10.506	0.000	93	8282	0.2000	0.1707	
84 Ethylene Dibromide	107	10.622	10.615	0.007	94	7663	0.2000	0.1841	
* 85 Chlorobenzene-d5 (IS)	117	11.060	11.060	0.000	87	1589174	10.0	10.0	
86 1-Chlorohexane	91	11.073	11.073	0.000	87	18290	0.2000	0.2046	
87 Chlorobenzene	112	11.085	11.085	0.000	95	35087	0.2000	0.2005	
89 1,1,1,2-Tetrachloroethane	131	11.176	11.170	0.006	90	10966	0.2000	0.1878	
90 Ethylbenzene	91	11.176	11.176	0.000	99	57877	0.2000	0.1913	
S 88 Xylenes, Total	106				0			0.5658	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
91 m-Xylene & p-Xylene	106	11.298	11.292	0.006	99	44013	0.4000	0.3749	
92 o-Xylene	106	11.634	11.627	0.007	97	22311	0.2000	0.1910	
93 Styrene	104	11.652	11.646	0.006	95	36816	0.2000	0.1888	M
94 Bromoform	173	11.804	11.804	0.000	95	4521	0.2000	0.1639	
95 Isopropylbenzene	105	11.932	11.932	0.000	96	55459	0.2000	0.1831	
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	88	811561	10.0	9.97	
99 1,1,2,2-Tetrachloroethane	83	12.188	12.188	0.000	94	10091	0.2000	0.1843	
100 Bromobenzene	156	12.194	12.194	0.000	94	14812	0.2000	0.2009	
101 trans-1,4-Dichloro-2-butene	53	12.219	12.213	0.006	92	26446	2.00	1.65	
102 1,2,3-Trichloropropane	110	12.237	12.231	0.006	80	2762	0.2000	0.1867	
103 N-Propylbenzene	91	12.268	12.268	0.000	99	66820	0.2000	0.1873	
104 2-Chlorotoluene	126	12.347	12.341	0.006	96	14644	0.2000	0.1983	
105 1,3,5-Trimethylbenzene	105	12.408	12.408	0.000	94	49185	0.2000	0.1882	
106 4-Chlorotoluene	126	12.444	12.438	0.006	97	15024	0.2000	0.1944	
107 tert-Butylbenzene	134	12.652	12.646	0.006	94	11161	0.2000	0.1975	M
108 Pentachloroethane	167	12.682	12.682	0.000	74	7055	0.2000	0.1734	
109 1,2,4-Trimethylbenzene	105	12.694	12.694	0.000	98	49005	0.2000	0.1812	
110 sec-Butylbenzene	105	12.816	12.816	0.000	95	59794	0.2000	0.1785	
111 1,3-Dichlorobenzene	146	12.914	12.914	0.000	97	28076	0.2000	0.1928	
112 4-Isopropyltoluene	119	12.926	12.926	0.000	96	52030	0.2000	0.1788	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	96	866469	10.0	10.0	
114 1,4-Dichlorobenzene	146	12.987	12.987	0.000	95	30013	0.2000	0.2006	
115 1,2,3-Trimethylbenzene	120	12.999	12.999	0.000	97	24625	0.2000	0.2049	
116 Benzyl chloride	126	13.078	13.072	0.006	99	3024	0.2000	0.1481	
119 n-Butylbenzene	92	13.225	13.219	0.006	97	28518	0.2000	0.1921	M
120 1,2-Dichlorobenzene	146	13.255	13.249	0.006	98	27492	0.2000	0.2004	
118 p-Diethylbenzene	119	13.273	13.273	0.000	86	28594	0.2000	0.1921	M
123 1,2-Dibromo-3-Chloropropane	155	13.810	13.804	0.006	76	1199	0.2000	0.1583	
124 1,3,5-Trichlorobenzene	180	13.938	13.926	0.012	97	23542	0.2000	0.1970	M
125 1,2,4-Trichlorobenzene	180	14.365	14.353	0.012	94	20963	0.2000	0.1953	M
126 Hexachlorobutadiene	225	14.438	14.438	0.000	95	8957	0.2000	0.1757	
127 Naphthalene	128	14.554	14.535	0.019	97	37493	0.2000	0.1937	M
128 1,2,3-Trichlorobenzene	180	14.688	14.682	0.006	95	19725	0.2000	0.2067	M
129 2-Methylnaphthalene	142	15.328	15.304	0.024	92	27865	0.2000	0.2080	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_RV1_826_00041	Amount Added:	2.00	Units: uL	
MSV_RV4_826_00047	Amount Added:	2.00	Units: uL	
MSV_RV4GAS826_00118	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-Mar-2021 16:56:55 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193 Operator ID: SRK36897

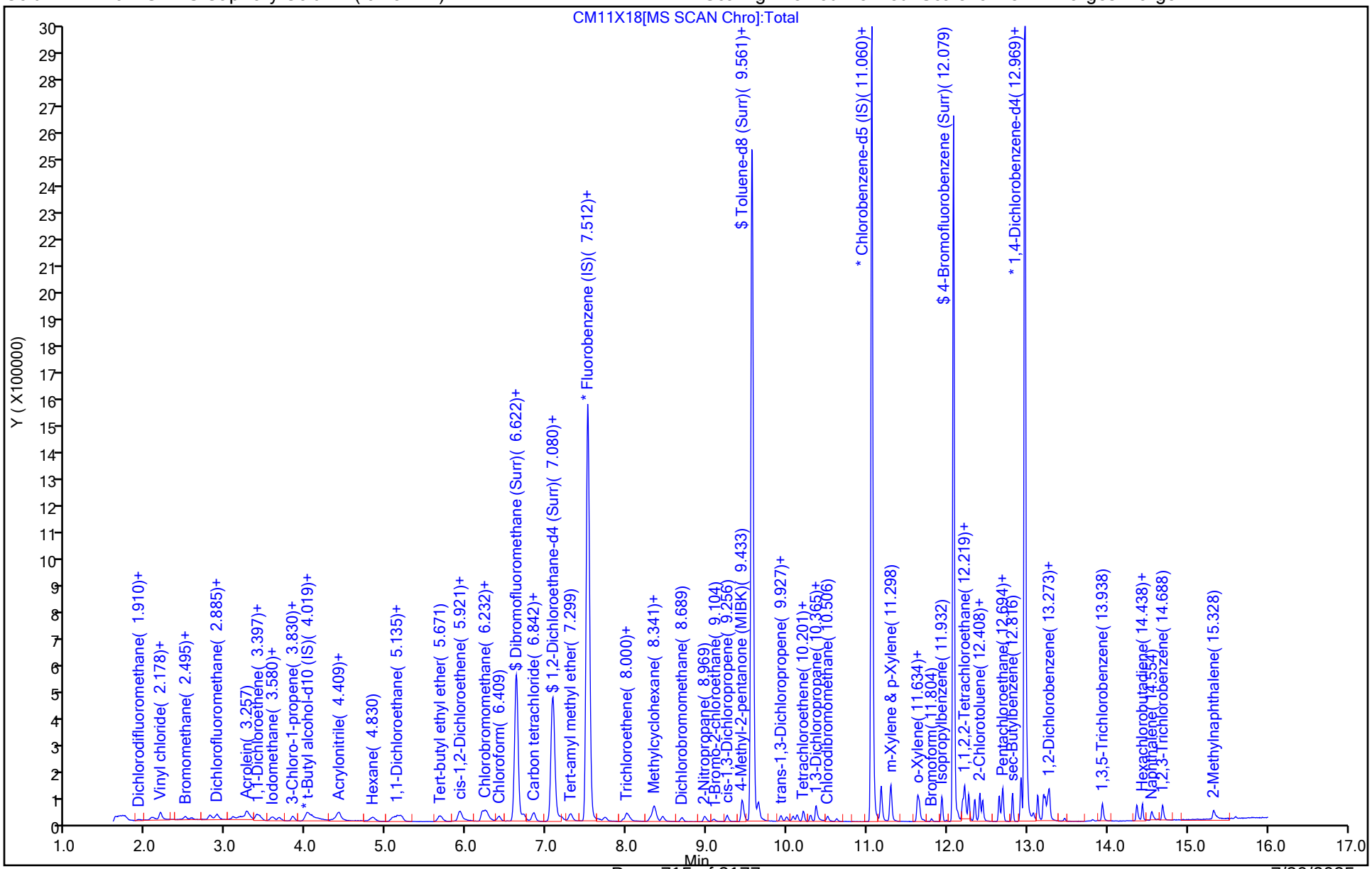
Lims ID: IC STD.2 Lg Worklist Smp#: 18

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 18

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Env, LLC

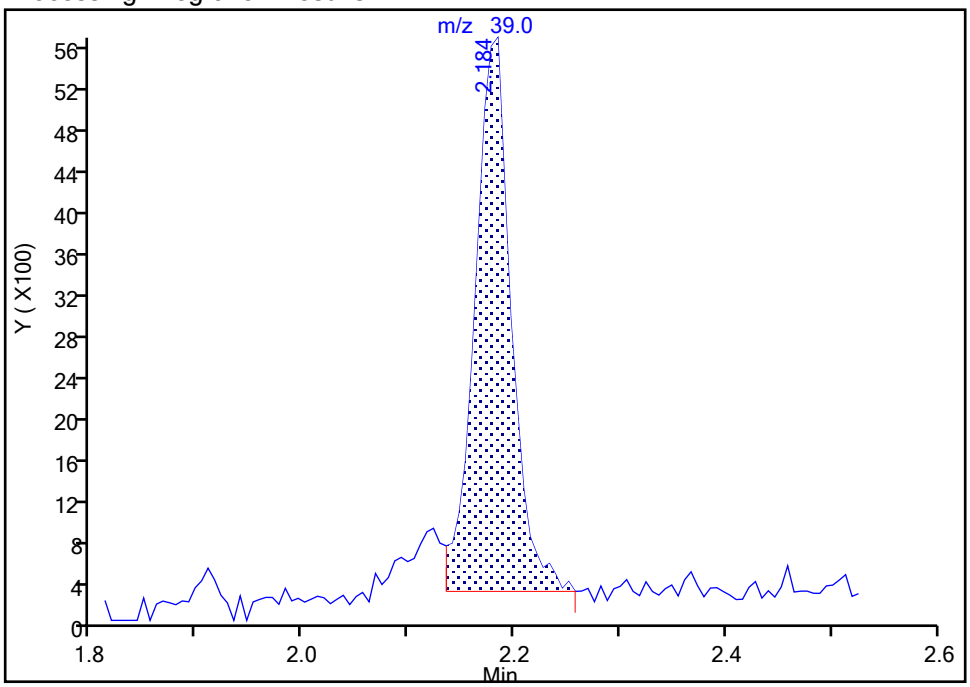
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

4 Butadiene, CAS: 106-99-0

Signal: 1

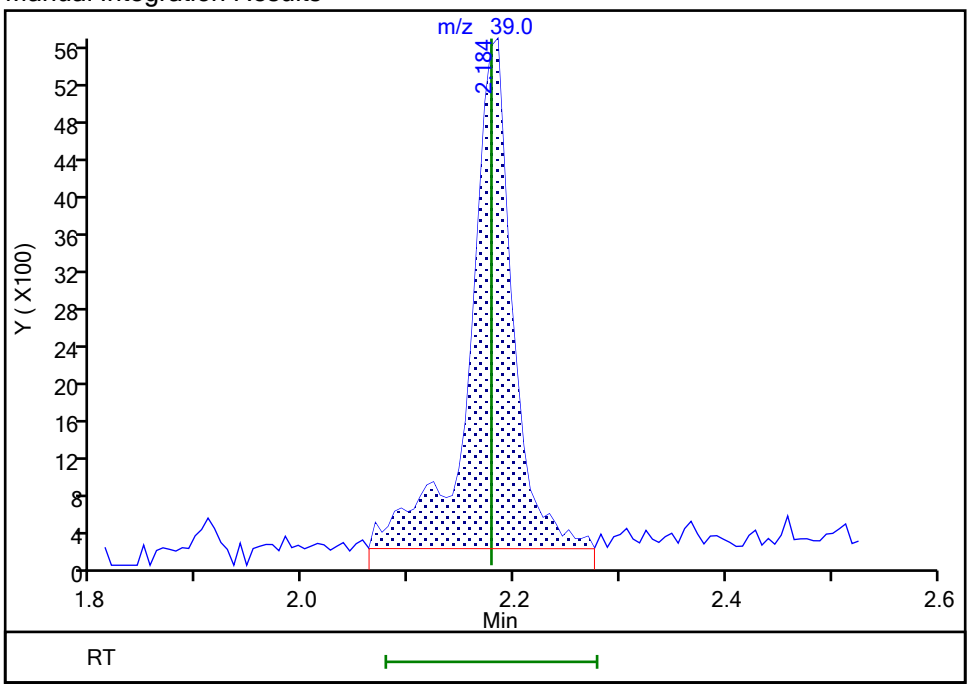
Processing Integration Results

RT: 2.18
Area: 12841
Amount: 0.173162
Amount Units: ug/l



Manual Integration Results

RT: 2.18
Area: 15497
Amount: 0.201257
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:46:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

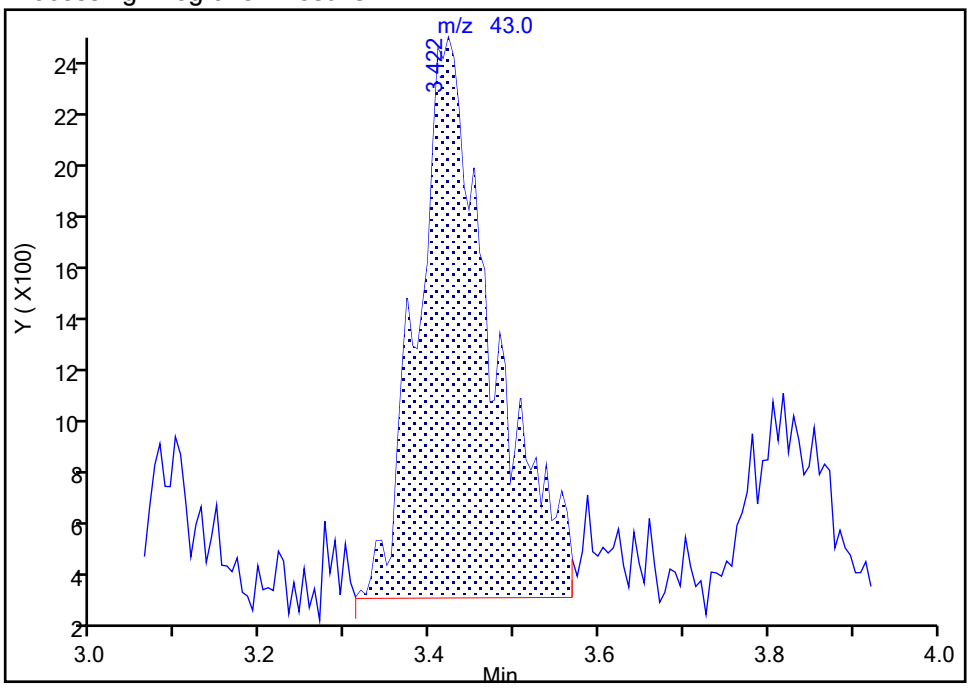
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

16 Acetone, CAS: 67-64-1

Signal: 1

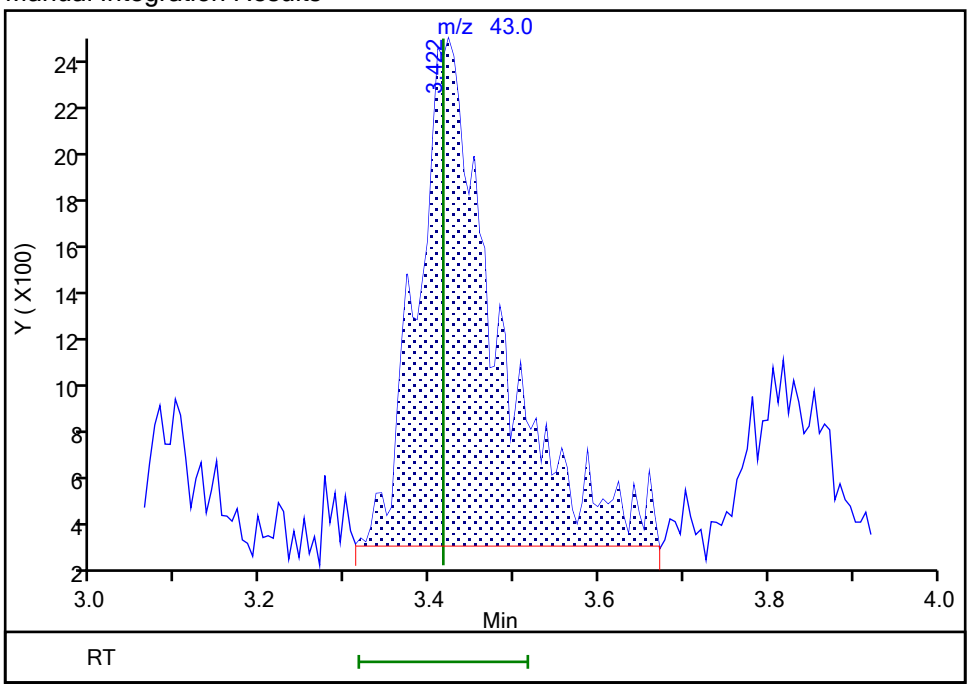
Processing Integration Results

RT: 3.42
Area: 13485
Amount: 1.681014
Amount Units: ug/l



Manual Integration Results

RT: 3.42
Area: 14655
Amount: 1.821623
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:47:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

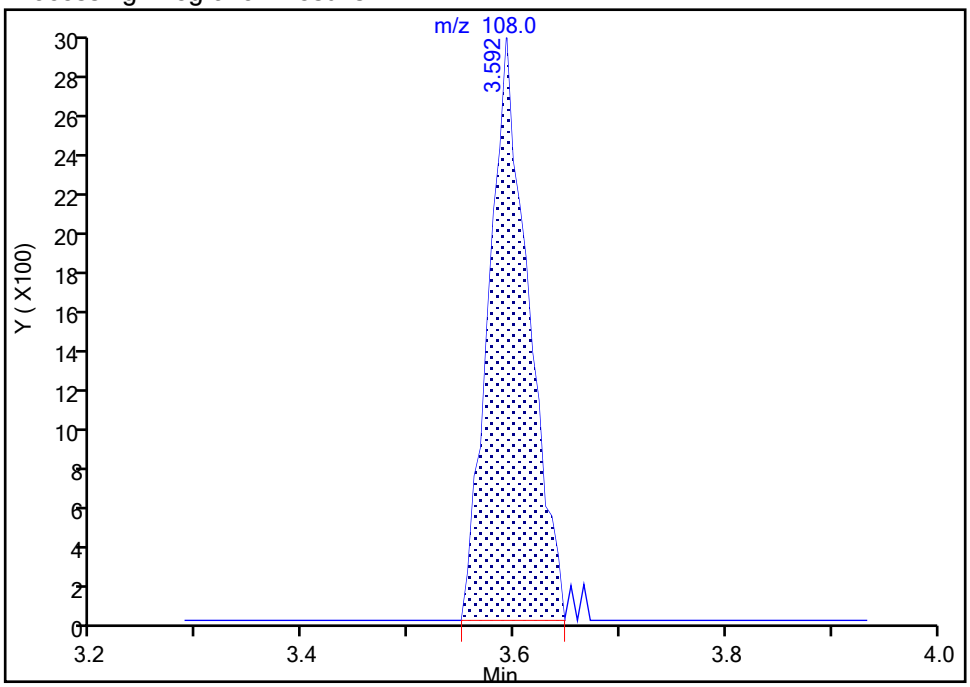
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

19 Ethyl bromide, CAS: 74-96-4

Signal: 1

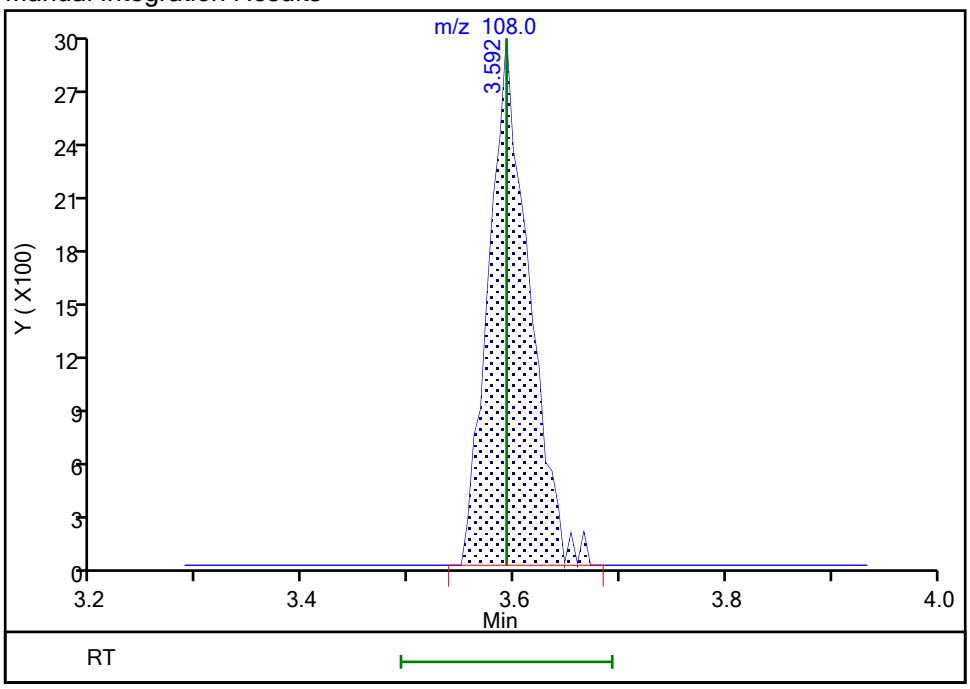
Processing Integration Results

RT: 3.59
Area: 7748
Amount: 0.187824
Amount Units: ug/l



Manual Integration Results

RT: 3.59
Area: 7881
Amount: 0.190610
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:49:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

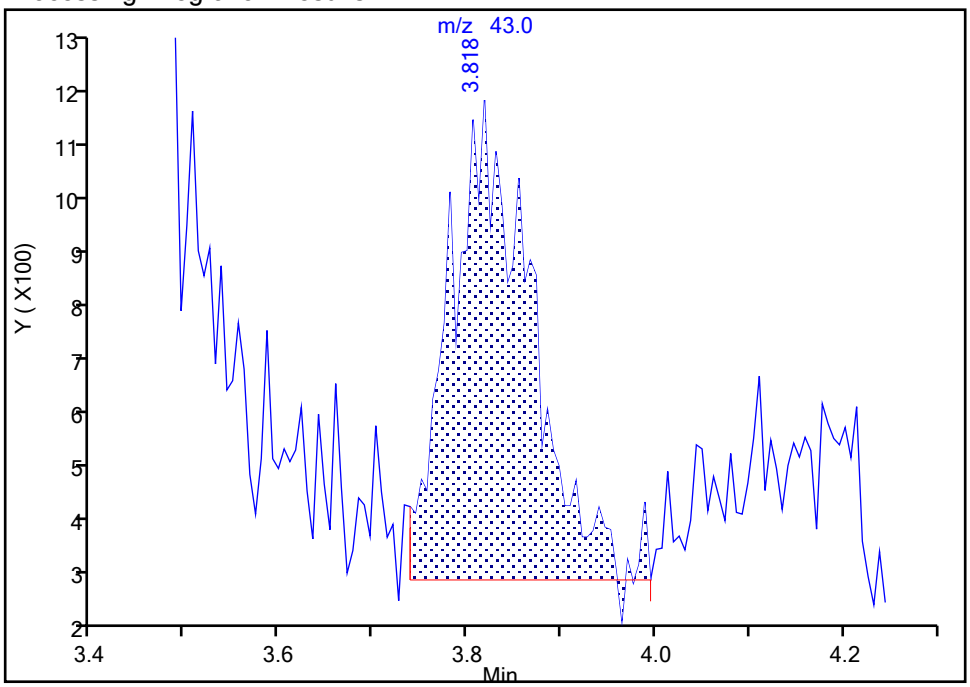
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

22 Methyl acetate, CAS: 79-20-9

Signal: 1

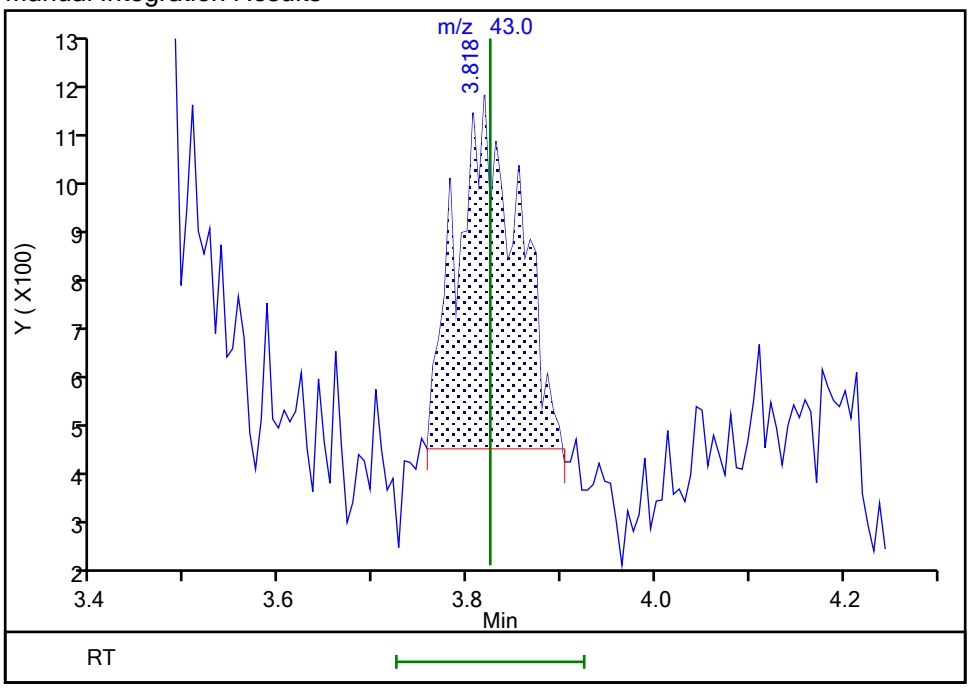
Processing Integration Results

RT: 3.82
Area: 4953
Amount: 0.639304
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 3047
Amount: 0.172731
Amount Units: ug/l



Reviewer: knouses, 23-Mar-2021 12:27:11
Audit Action: Manually Integrated Audit Reason: Baseline

Eurofins Lancaster Laboratories Env, LLC

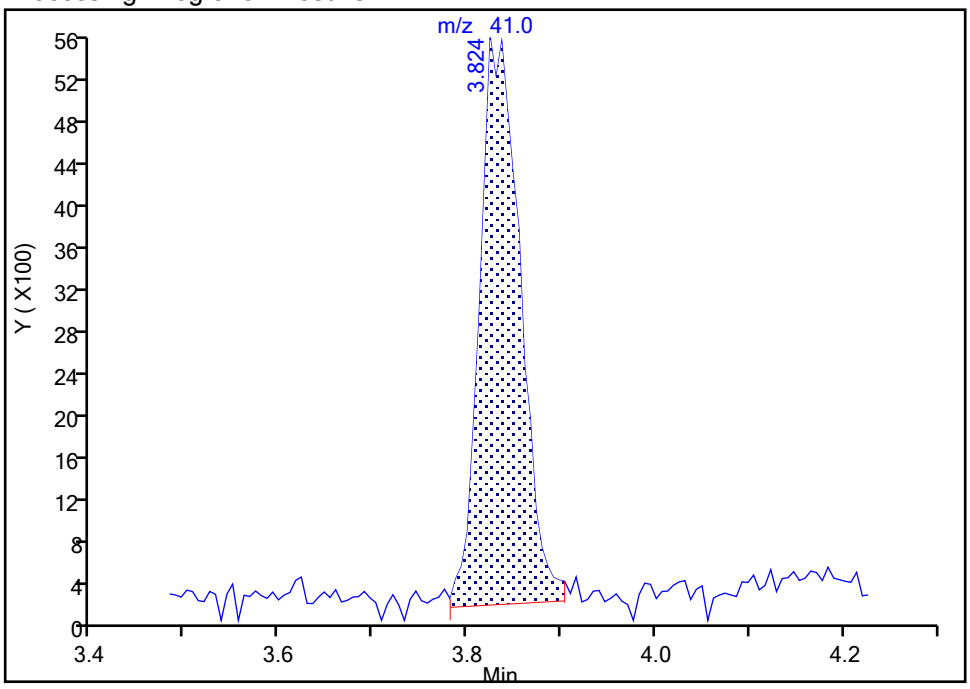
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

23 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

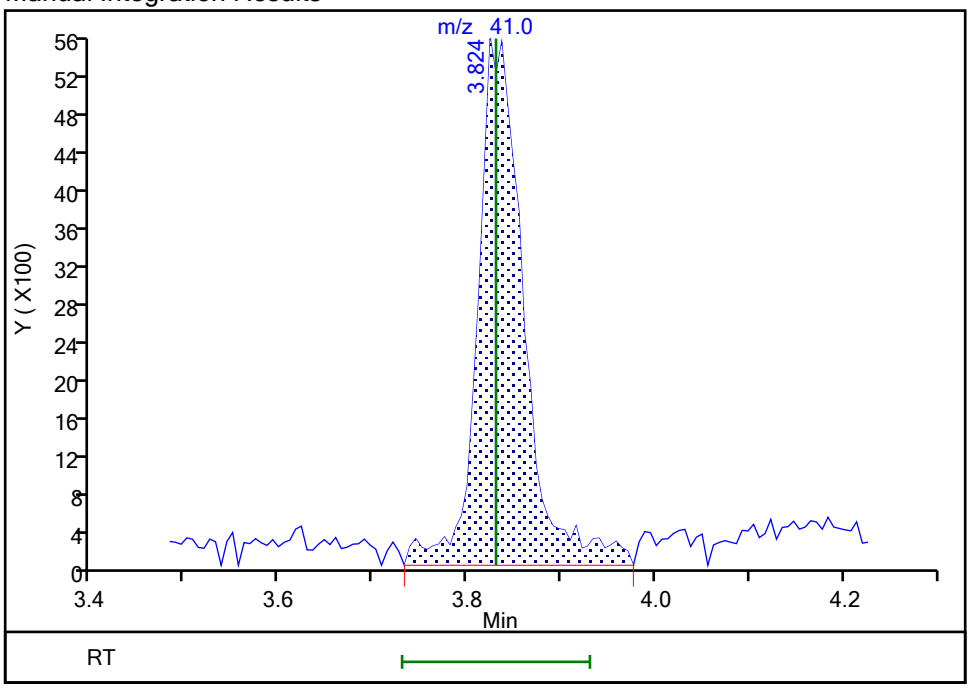
Processing Integration Results

RT: 3.82
Area: 16329
Amount: 0.182970
Amount Units: ug/l



Manual Integration Results

RT: 3.82
Area: 19050
Amount: 0.208910
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:52:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

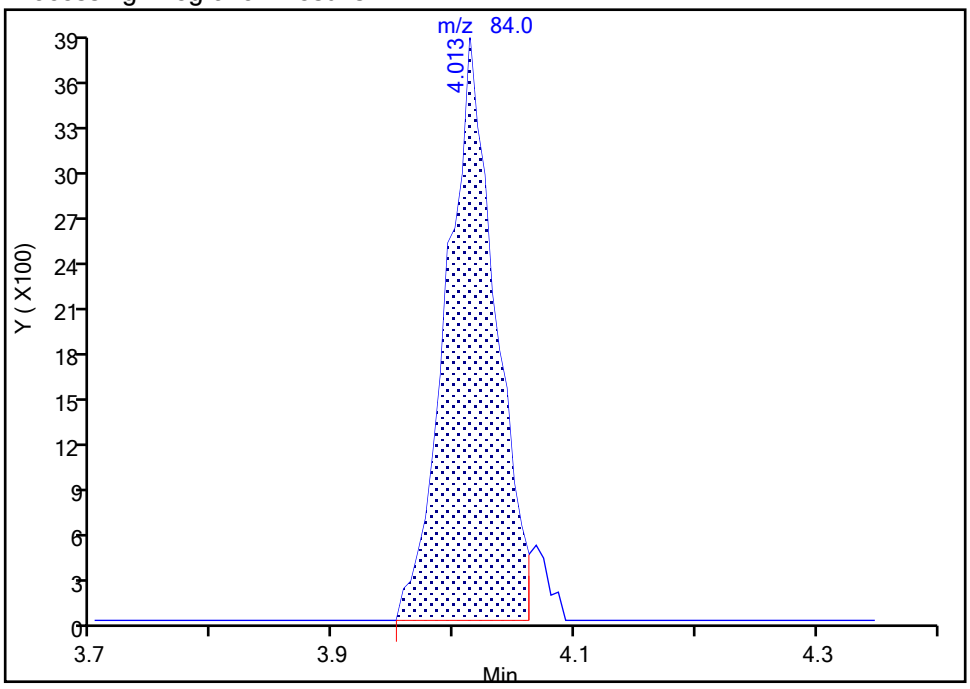
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

24 Methylene Chloride, CAS: 75-09-2

Signal: 1

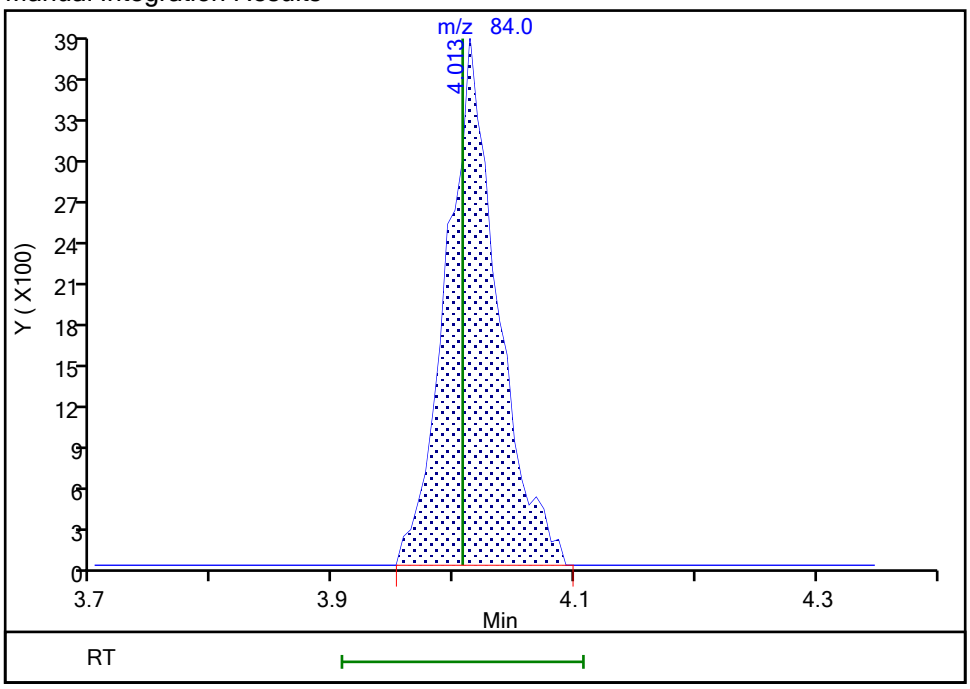
Processing Integration Results

RT: 4.01
Area: 10906
Amount: 0.198156
Amount Units: ug/l



Manual Integration Results

RT: 4.01
Area: 11365
Amount: 0.205273
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:48:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

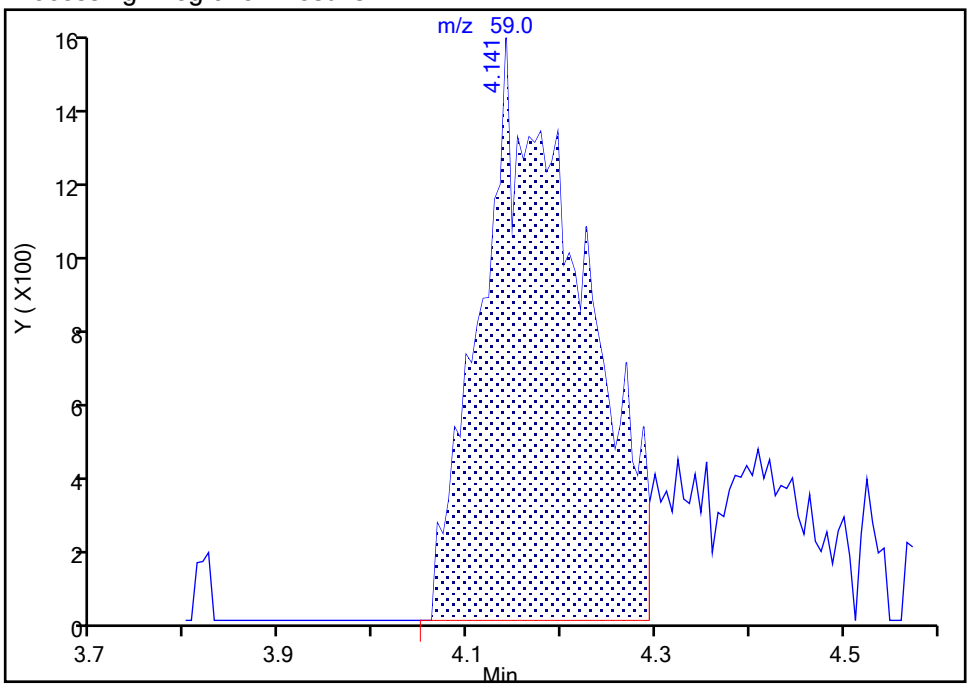
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

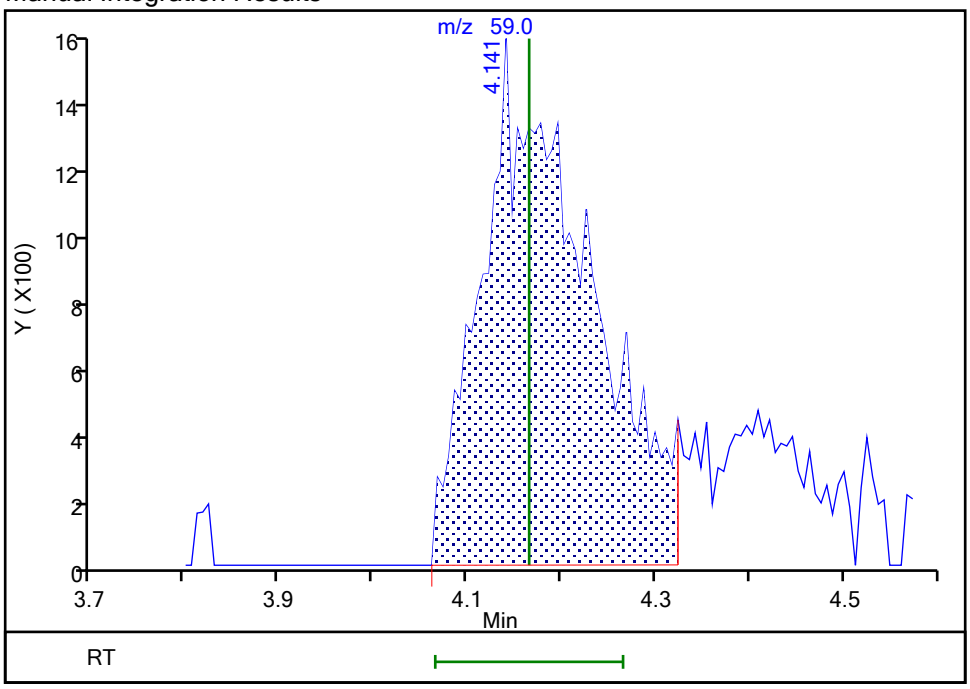
Processing Integration Results

RT: 4.14
Area: 11556
Amount: 3.739788
Amount Units: ug/l



Manual Integration Results

RT: 4.14
Area: 12195
Amount: 3.916172
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:48:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

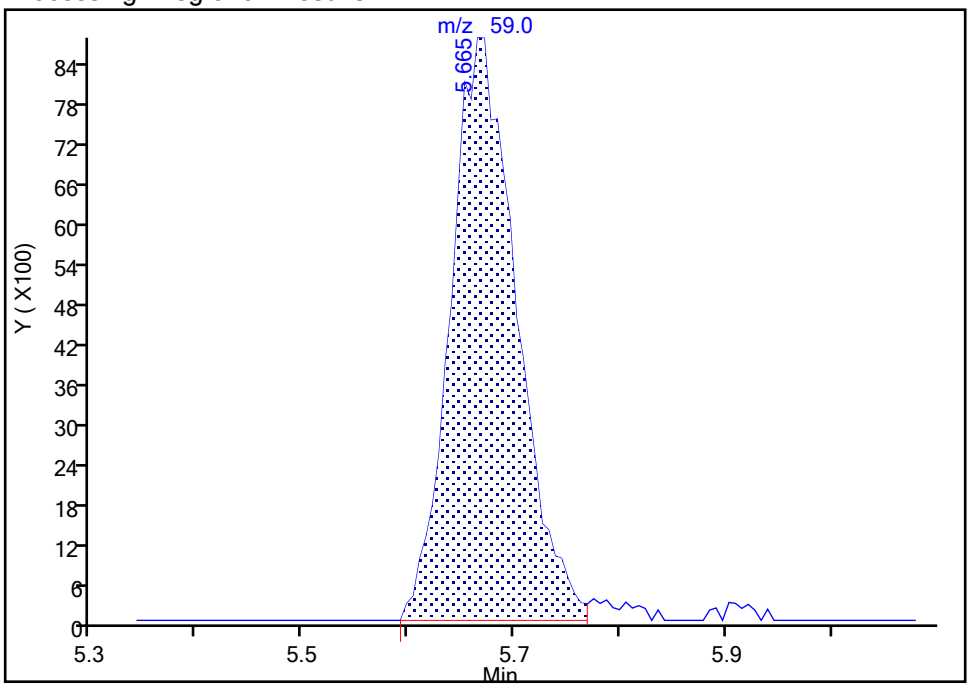
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

35 Tert-butyl ethyl ether, CAS: 637-92-3

Signal: 1

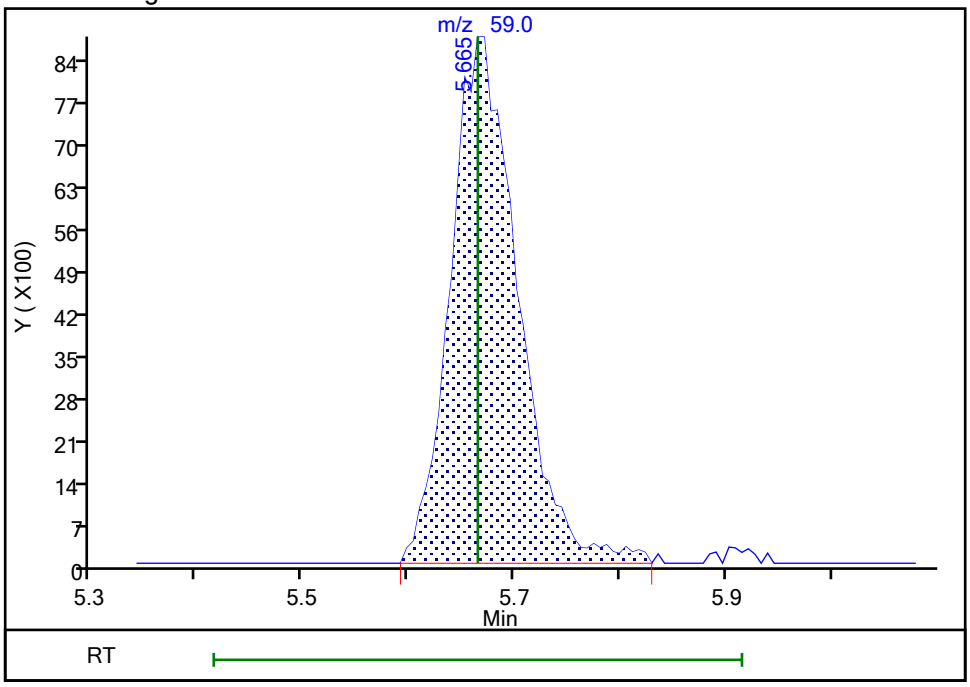
Processing Integration Results

RT: 5.67
Area: 37719
Amount: 0.192733
Amount Units: ug/l



Manual Integration Results

RT: 5.67
Area: 38483
Amount: 0.196090
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:53:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

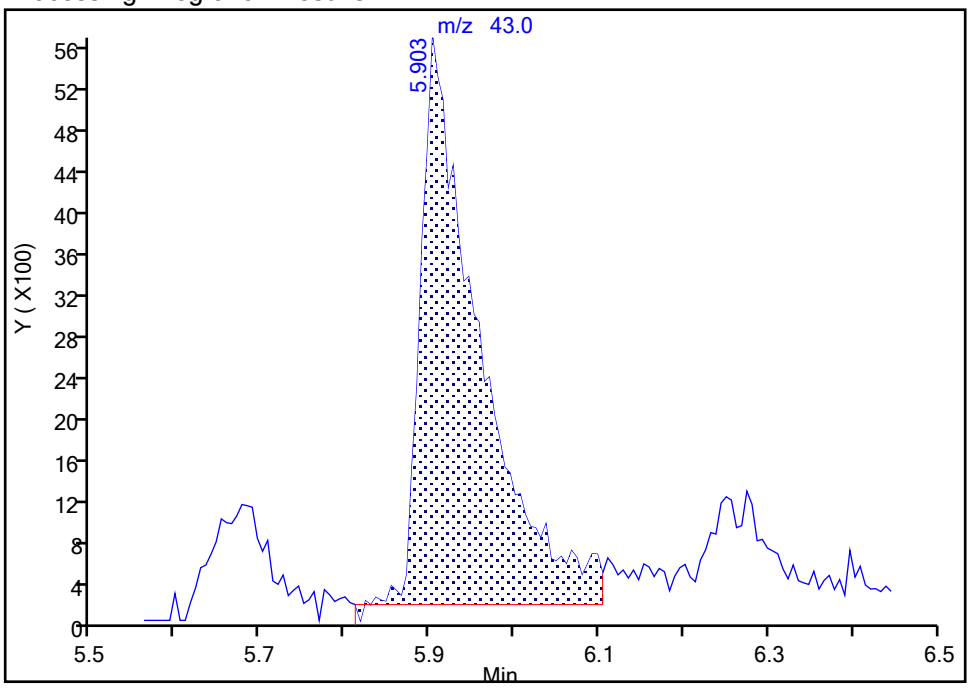
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

36 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

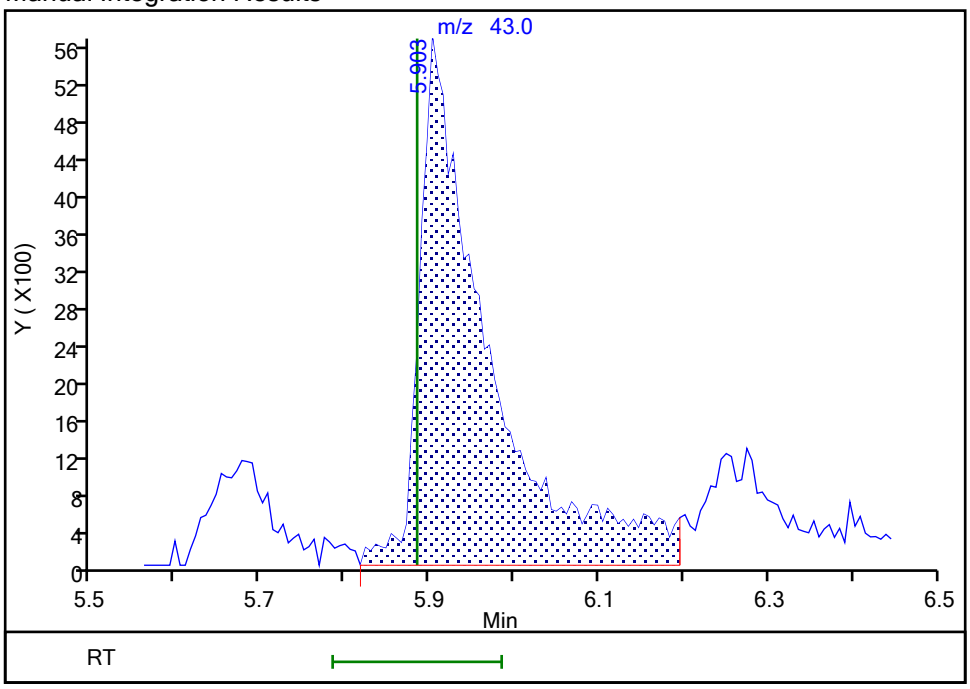
Processing Integration Results

RT: 5.90
Area: 26427
Amount: 1.654422
Amount Units: ug/l



Manual Integration Results

RT: 5.90
Area: 31693
Amount: 1.938446
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:53:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

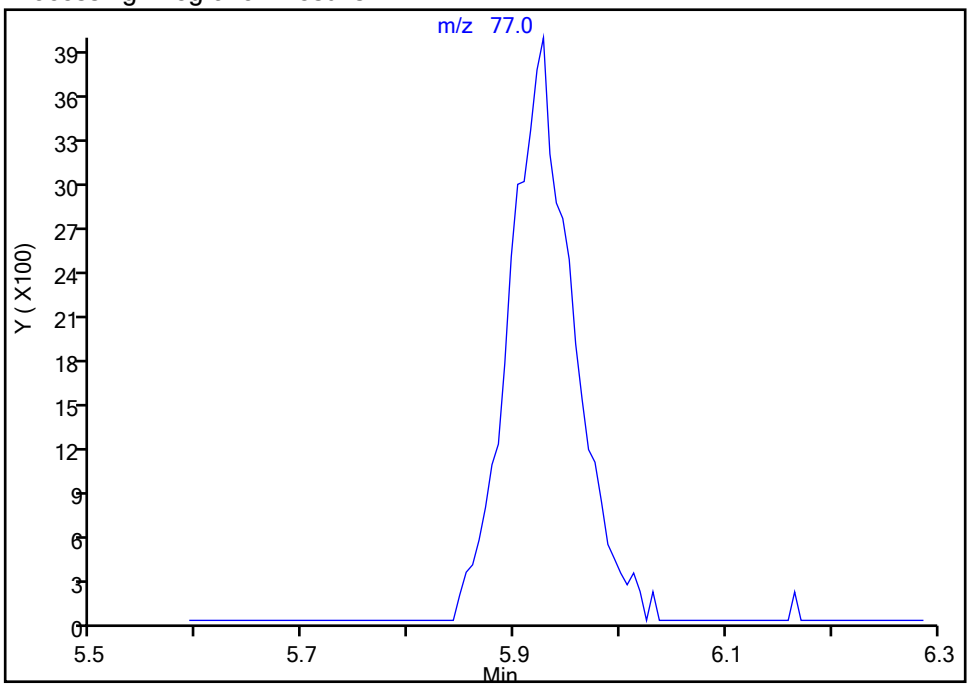
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

38 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

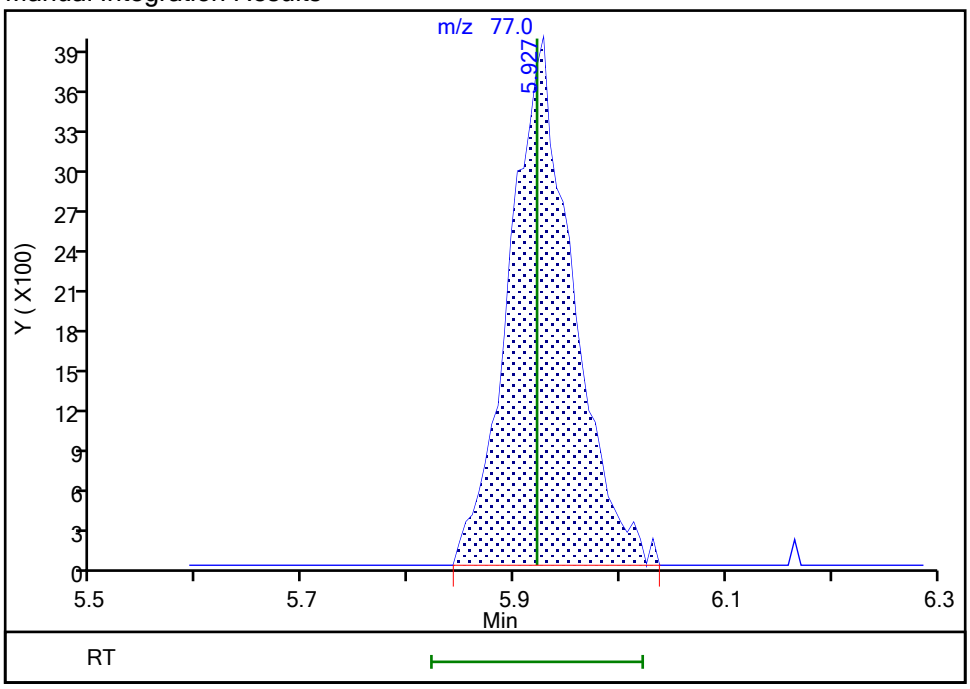
Not Detected
Expected RT: 5.92

Processing Integration Results



Manual Integration Results

RT: 5.93
Area: 16422
Amount: 0.188703
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:49:00
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

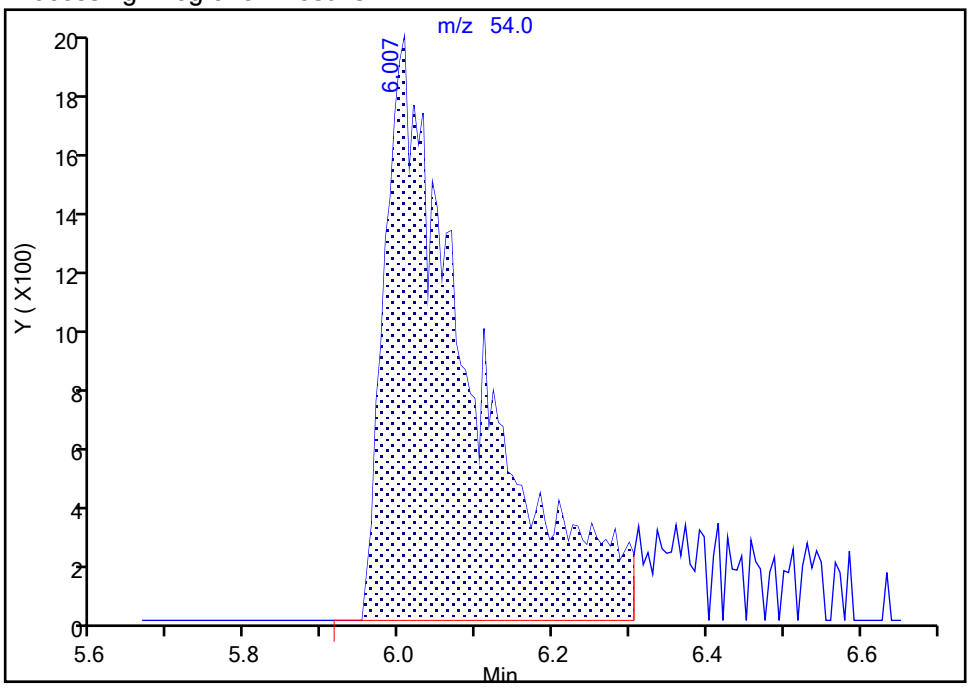
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

40 Propionitrile, CAS: 107-12-0

Signal: 1

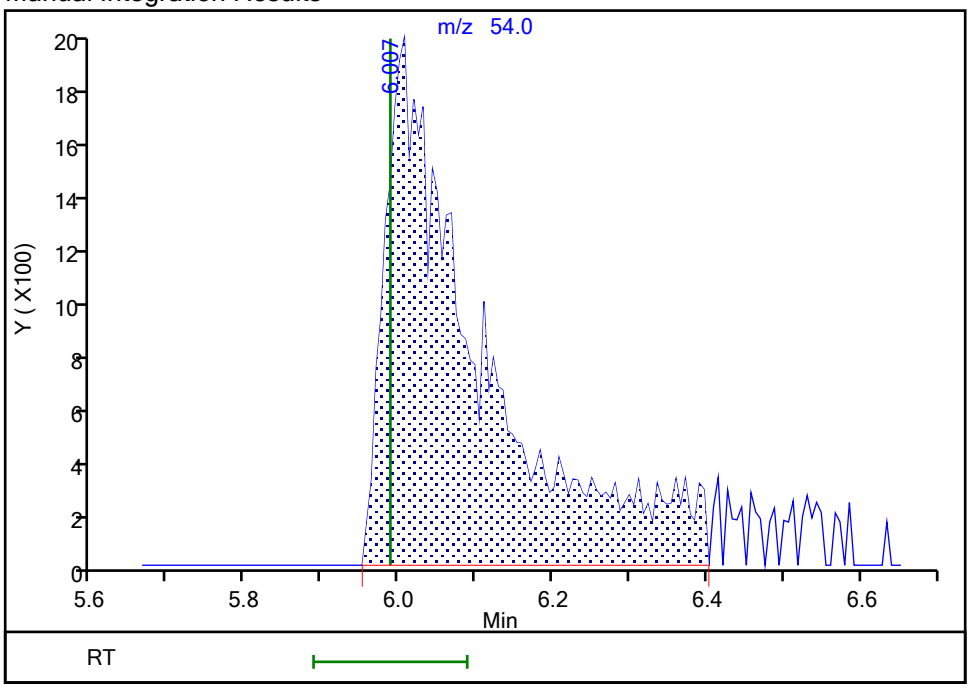
Processing Integration Results

RT: 6.01
Area: 14876
Amount: 3.488151
Amount Units: ug/l



Manual Integration Results

RT: 6.01
Area: 16183
Amount: 3.753536
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 11:54:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

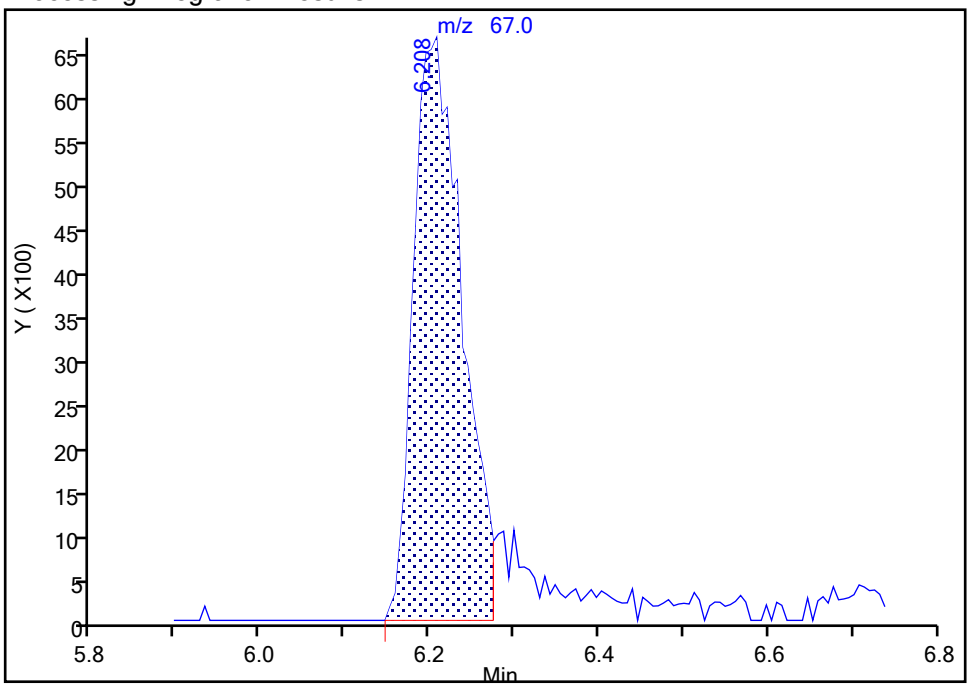
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

43 Methacrylonitrile, CAS: 126-98-7

Signal: 1

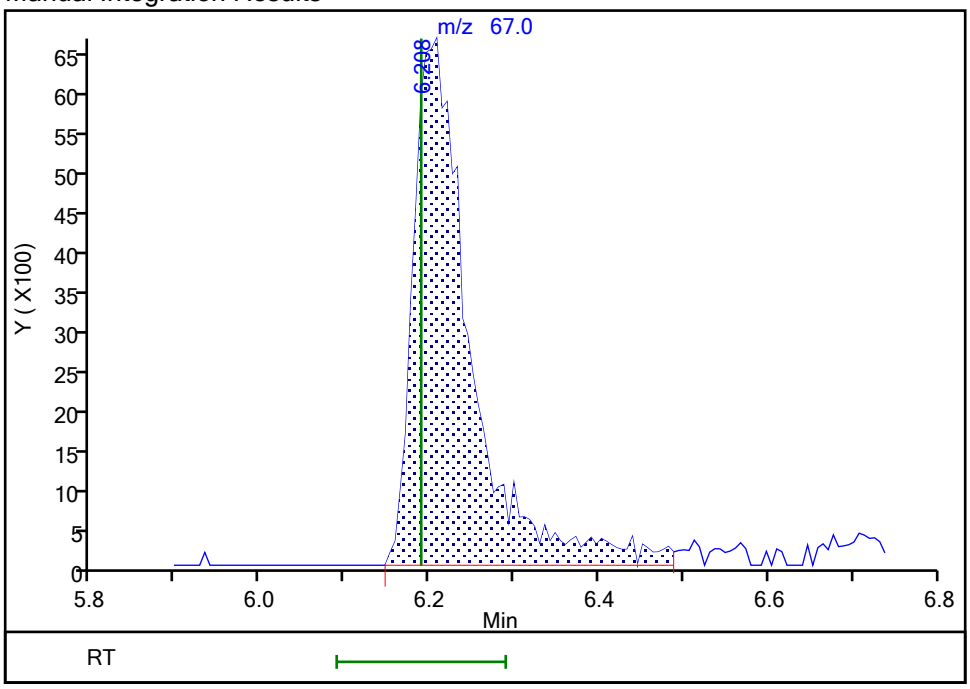
Processing Integration Results

RT: 6.21
Area: 26427
Amount: 1.672828
Amount Units: ug/l



Manual Integration Results

RT: 6.21
Area: 31122
Amount: 1.929071
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:50:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

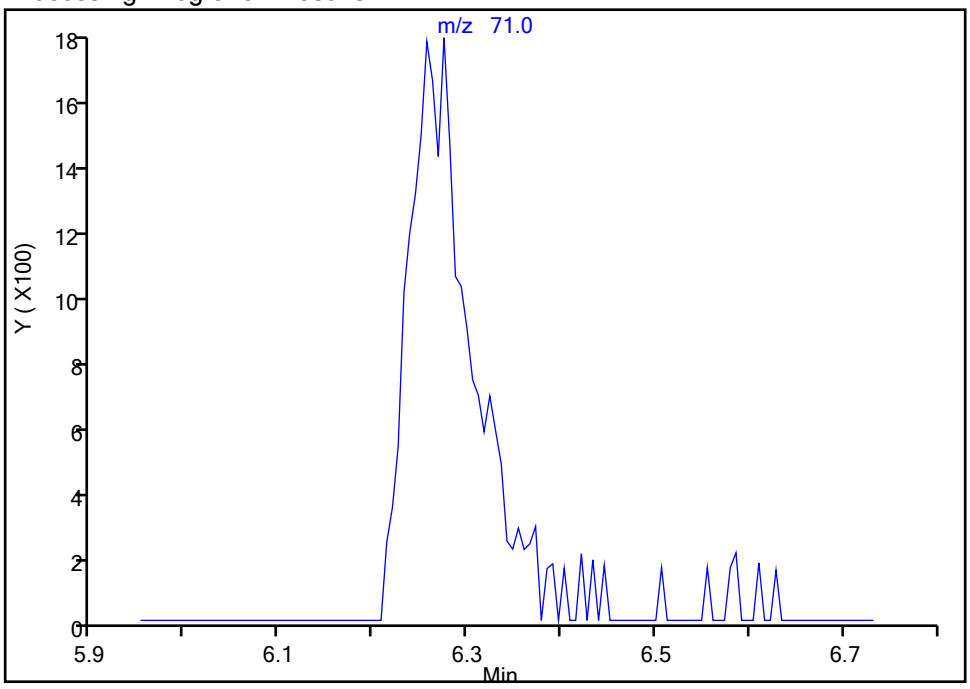
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

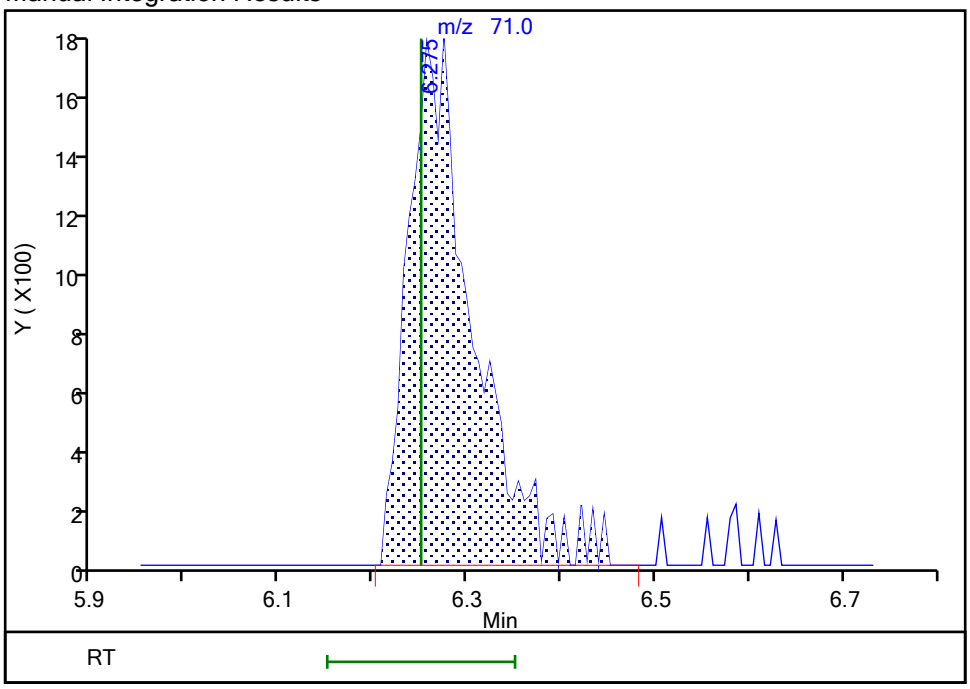
Not Detected
Expected RT: 6.25

Processing Integration Results



RT: 6.27
Area: 8374
Amount: 1.778560
Amount Units: ug/l

Manual Integration Results



Reviewer: knouses, 12-Mar-2021 10:50:27
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

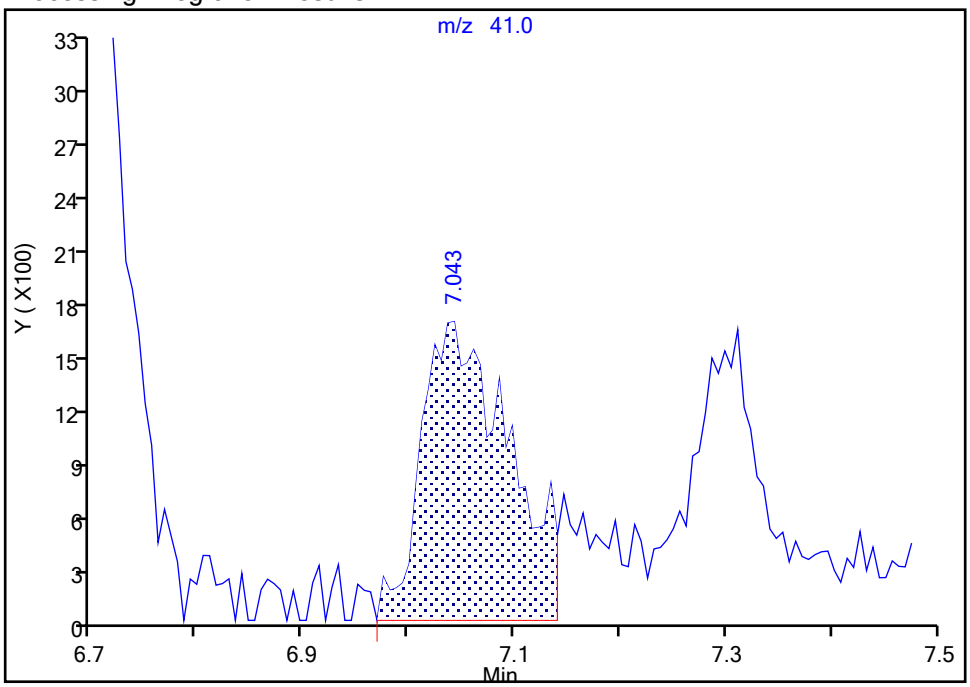
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

52 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

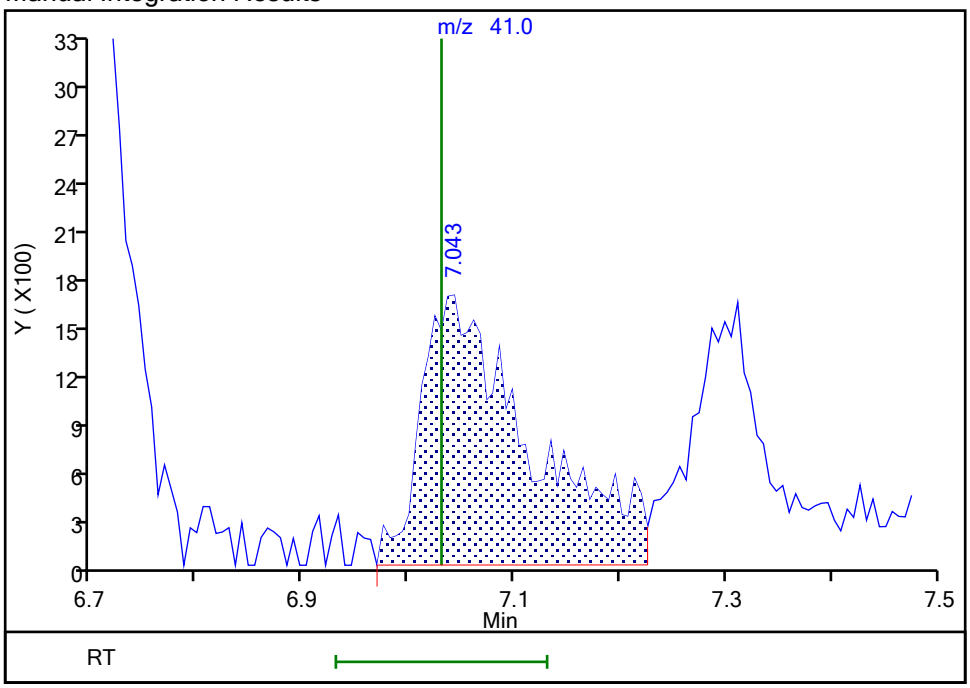
Processing Integration Results

RT: 7.04
Area: 9424
Amount: 8.387009
Amount Units: ug/l



Manual Integration Results

RT: 7.04
Area: 11714
Amount: 10.130091
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:51:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

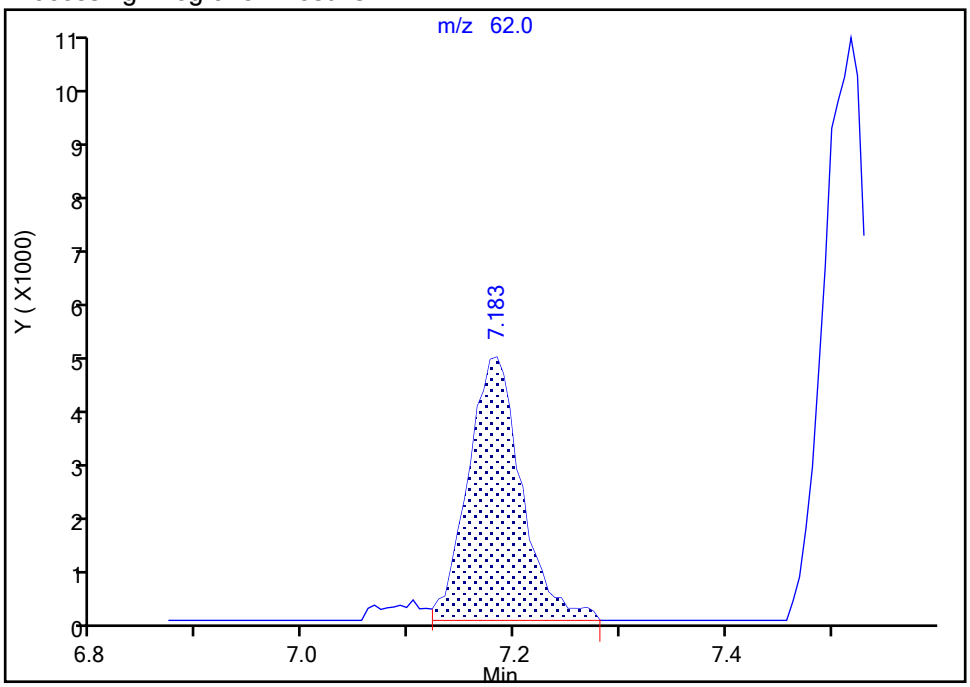
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

55 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

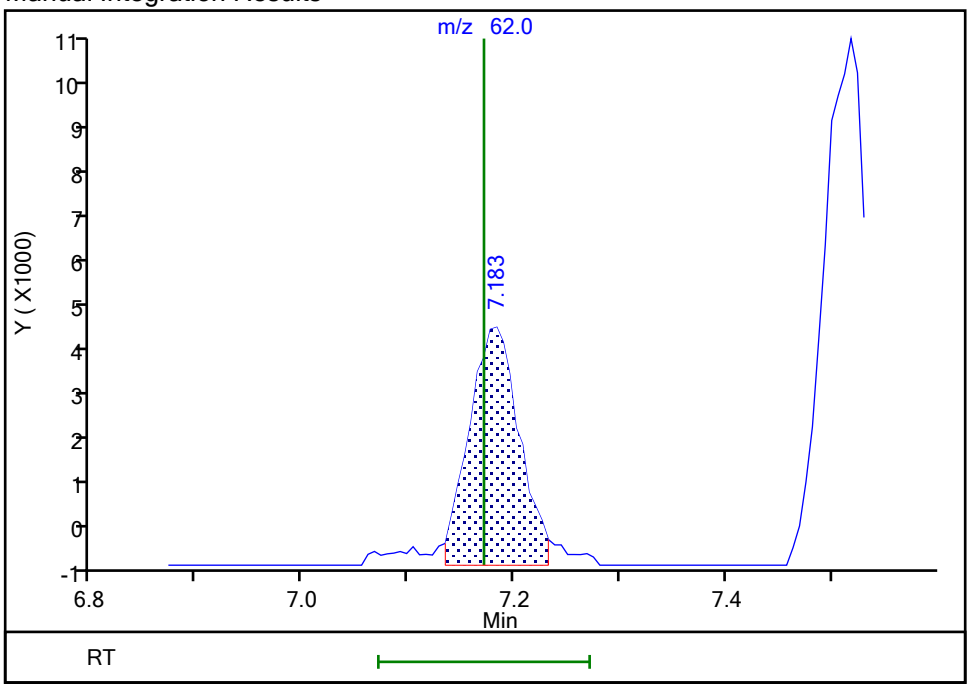
Processing Integration Results

RT: 7.18
Area: 16227
Amount: 0.222433
Amount Units: ug/l



Manual Integration Results

RT: 7.18
Area: 15366
Amount: 0.212422
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:00:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

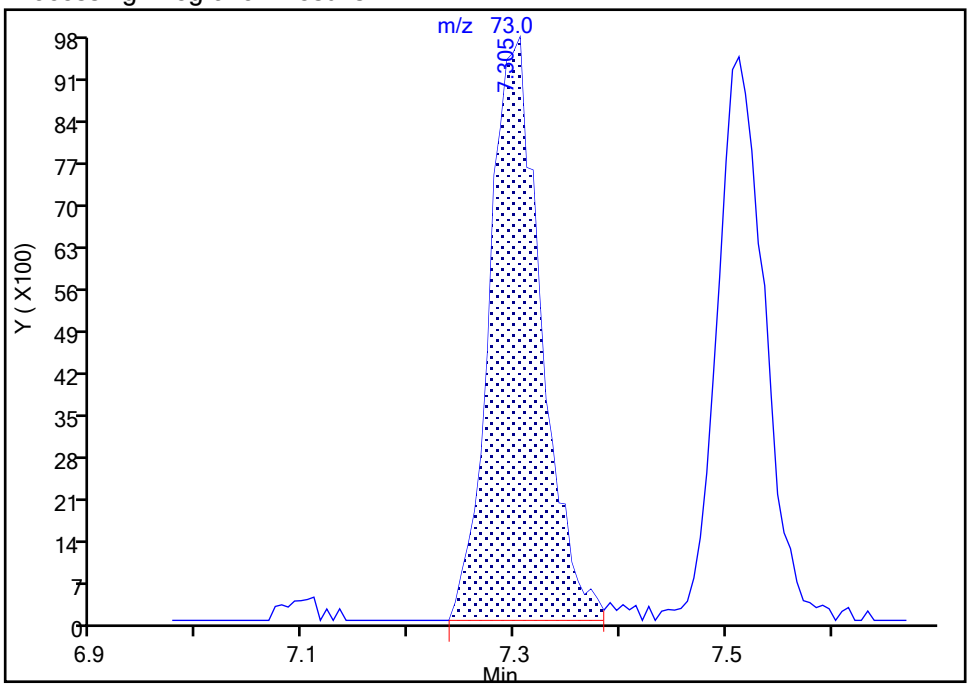
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

56 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

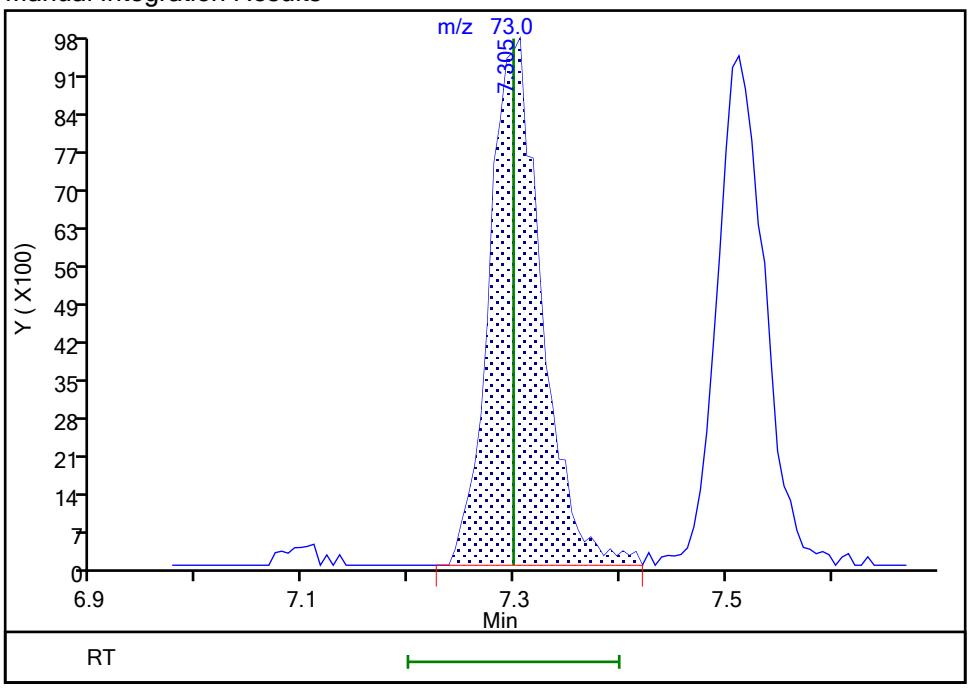
Processing Integration Results

RT: 7.31
Area: 32847
Amount: 0.188335
Amount Units: ug/l



Manual Integration Results

RT: 7.31
Area: 33265
Amount: 0.190406
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:01:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

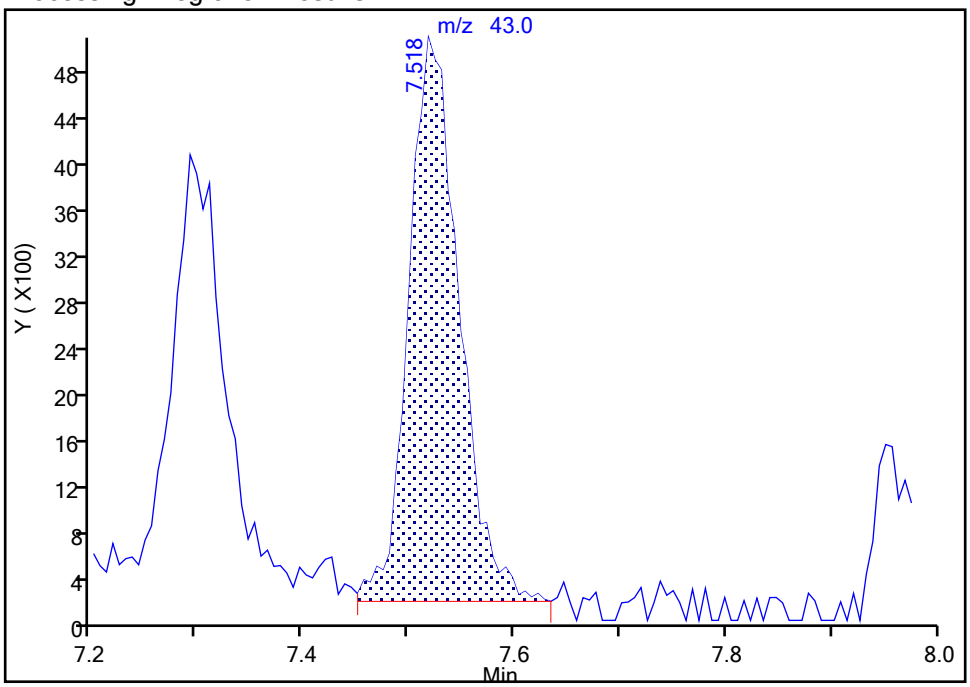
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

58 n-Heptane, CAS: 142-82-5

Signal: 1

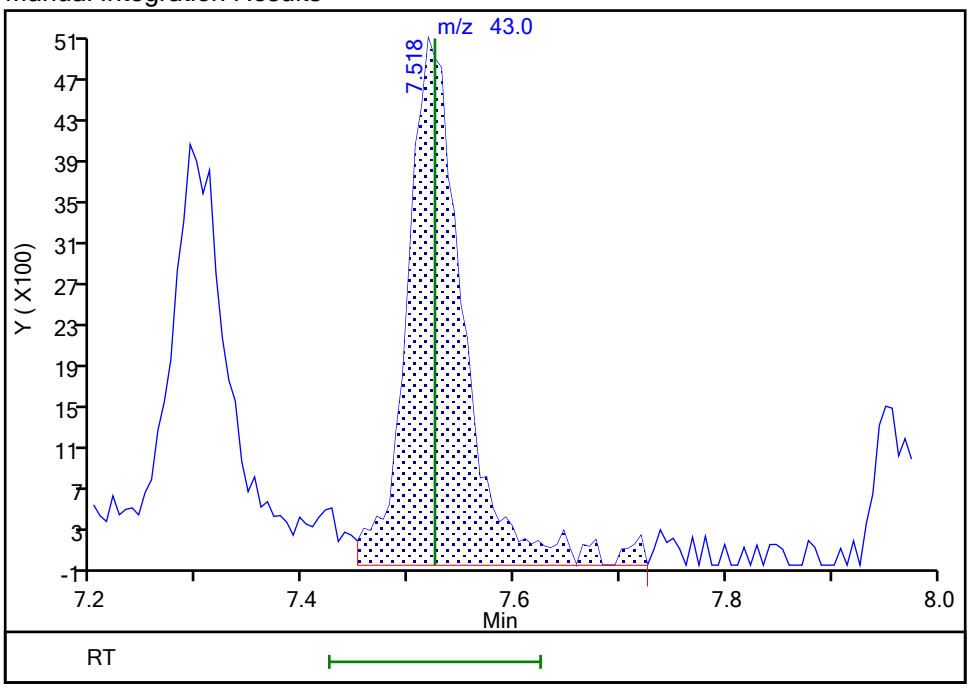
Processing Integration Results

RT: 7.52
Area: 16253
Amount: 0.168580
Amount Units: ug/l



Manual Integration Results

RT: 7.52
Area: 18909
Amount: 0.192344
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:02:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

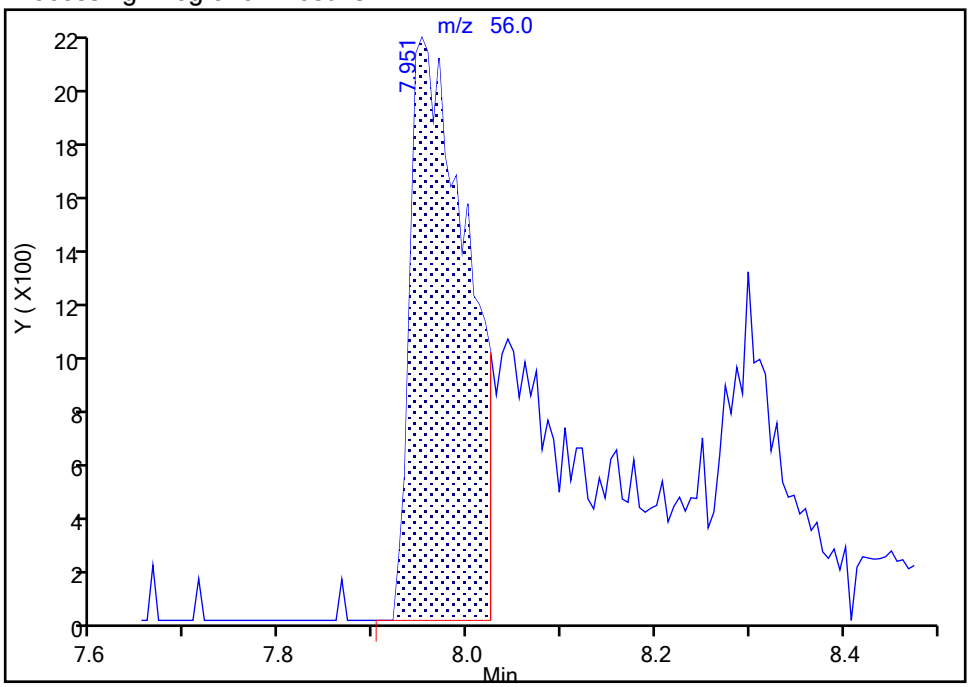
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

59 n-Butanol, CAS: 71-36-3

Signal: 1

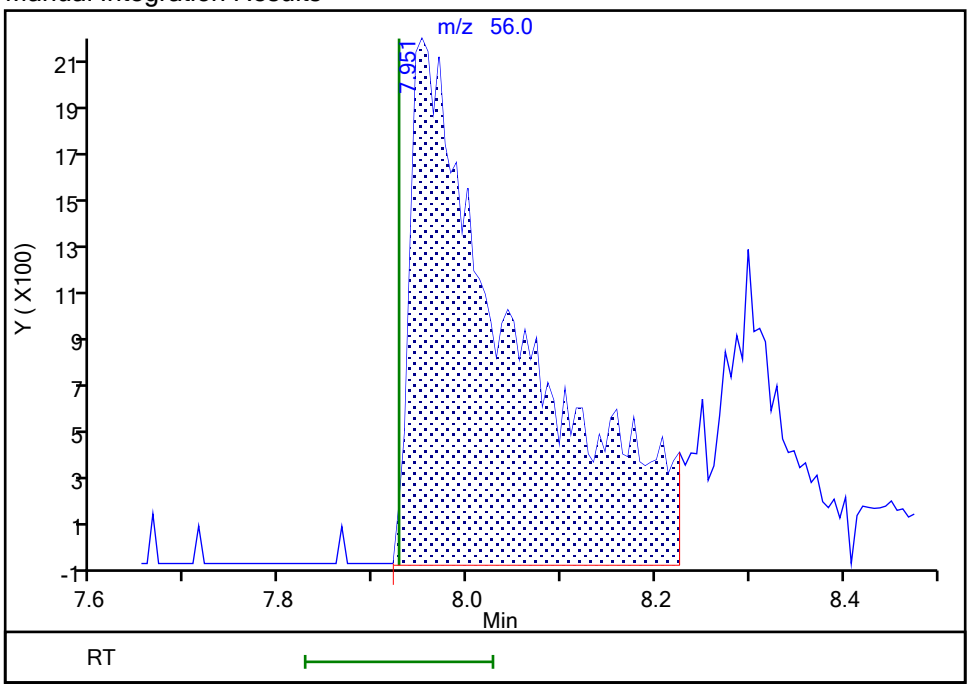
Processing Integration Results

RT: 7.95
Area: 8897
Amount: 69.162171
Amount Units: ug/l



Manual Integration Results

RT: 7.95
Area: 16368
Amount: 16.690892
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:02:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

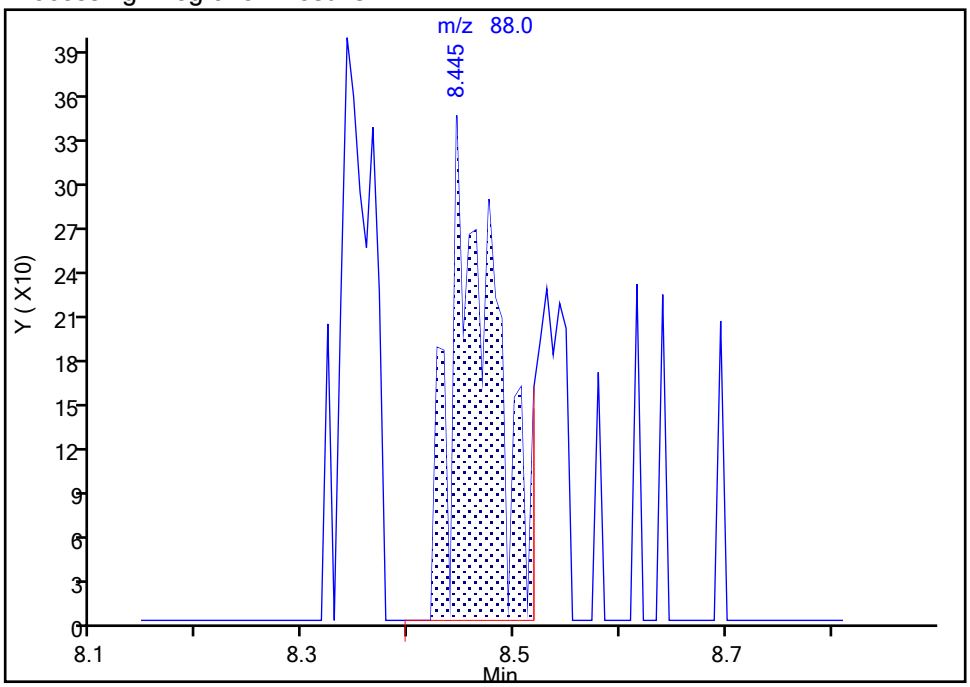
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

65 1,4-Dioxane, CAS: 123-91-1

Signal: 1

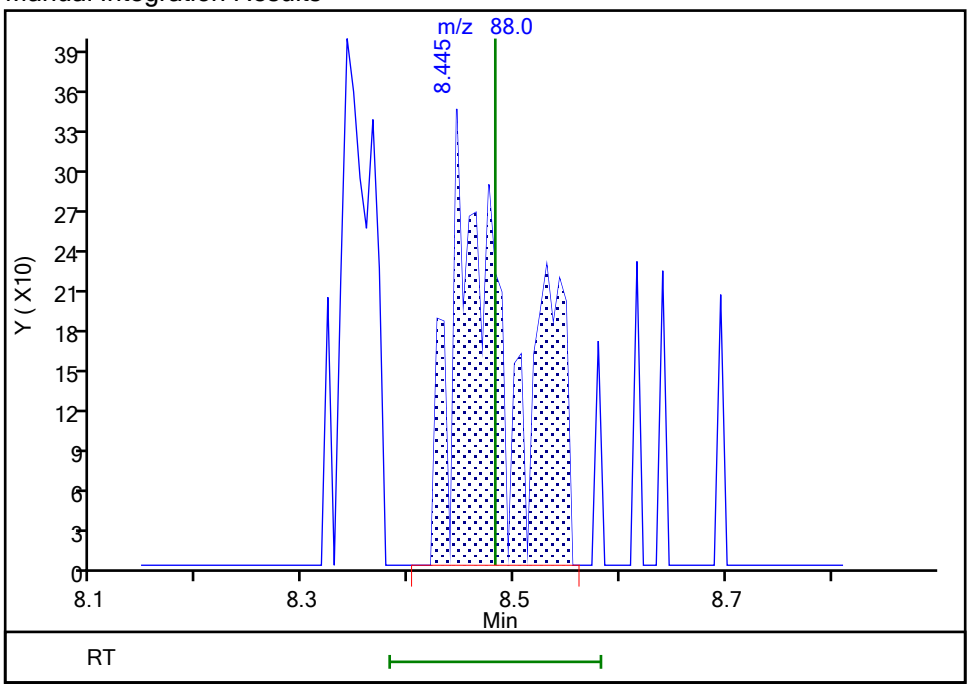
Processing Integration Results

RT: 8.45
Area: 1014
Amount: 5.539739
Amount Units: ug/l



Manual Integration Results

RT: 8.45
Area: 1384
Amount: 6.585628
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:52:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

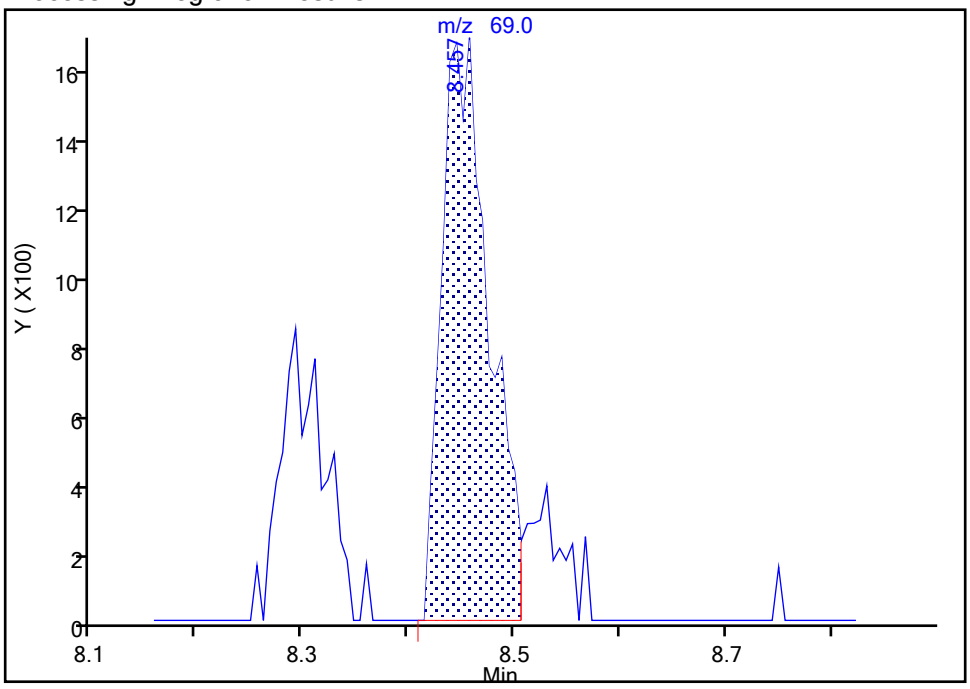
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

64 Methyl methacrylate, CAS: 80-62-6

Signal: 1

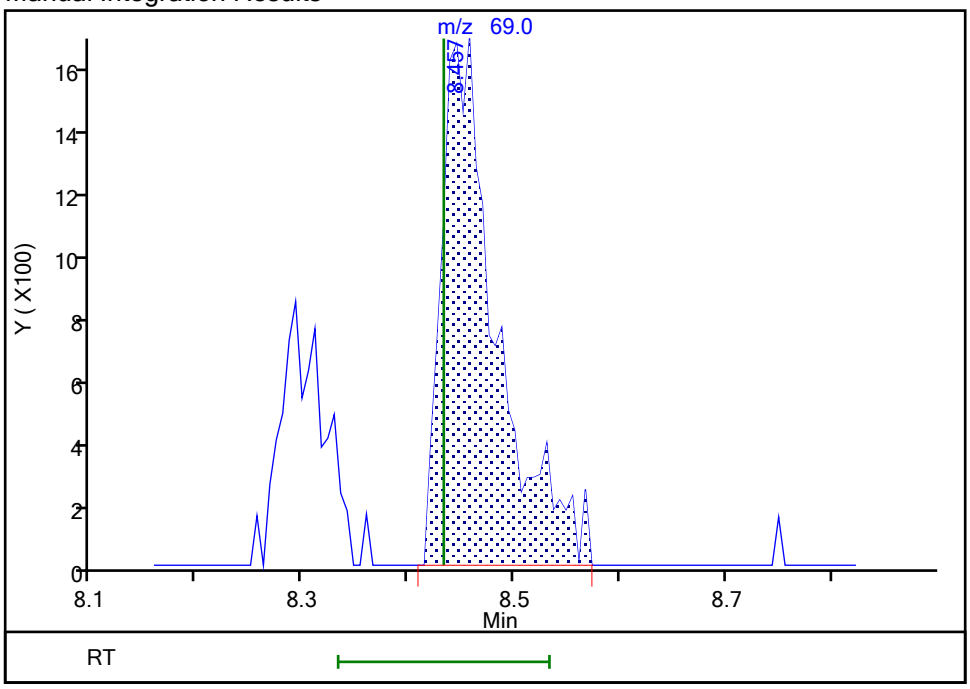
Processing Integration Results

RT: 8.46
Area: 5159
Amount: 0.160971
Amount Units: ug/l



Manual Integration Results

RT: 8.46
Area: 5968
Amount: 0.182916
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:03:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

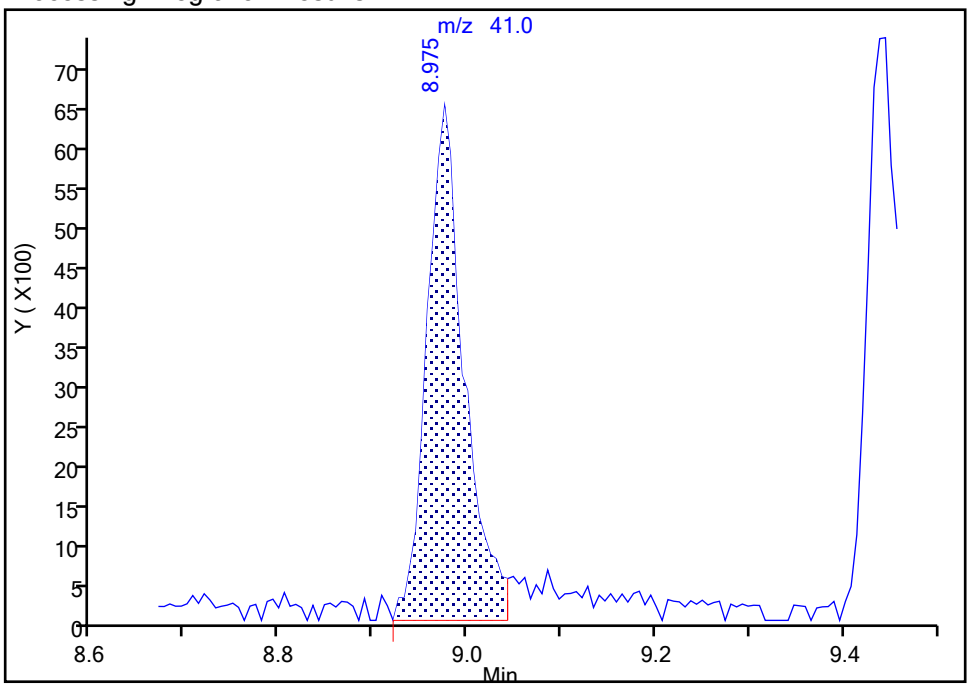
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

68 2-Nitropropane, CAS: 79-46-9

Signal: 1

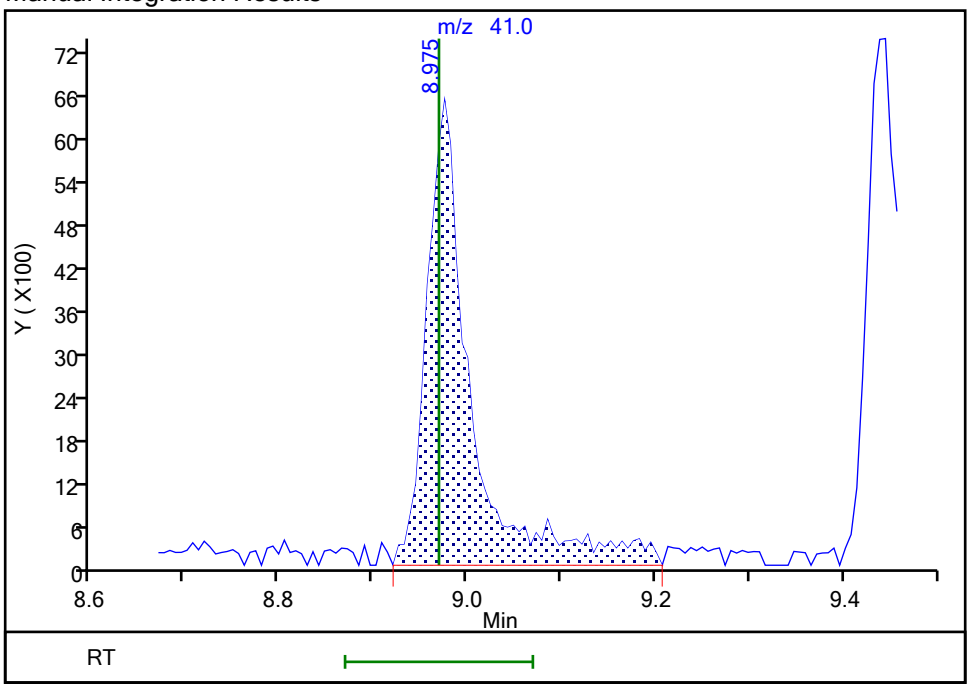
Processing Integration Results

RT: 8.98
Area: 17812
Amount: 1.707778
Amount Units: ug/l



Manual Integration Results

RT: 8.98
Area: 21058
Amount: 1.975091
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:52:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

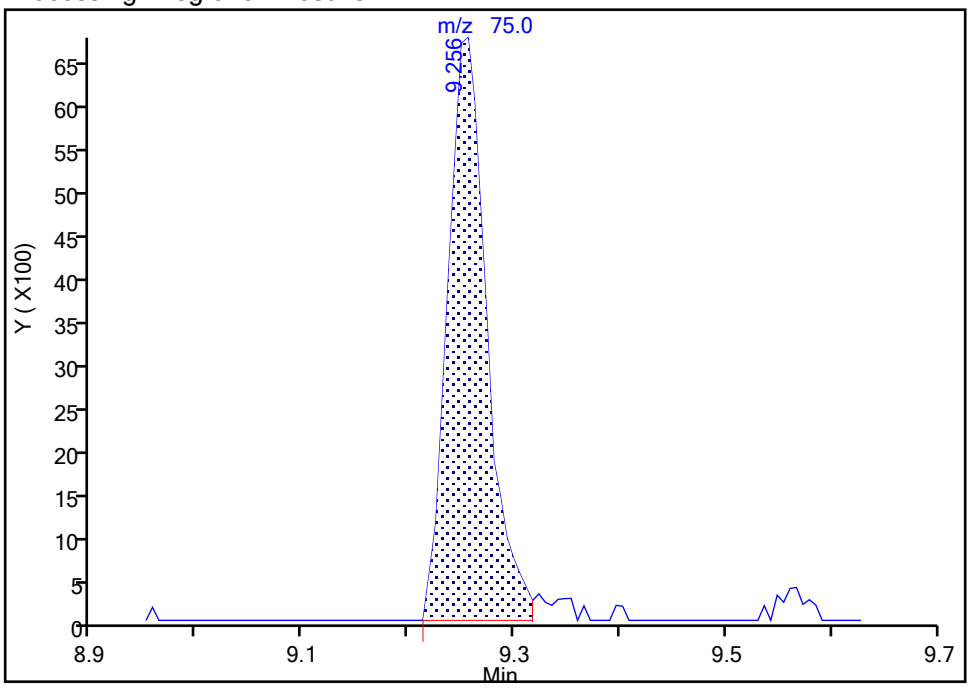
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

72 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

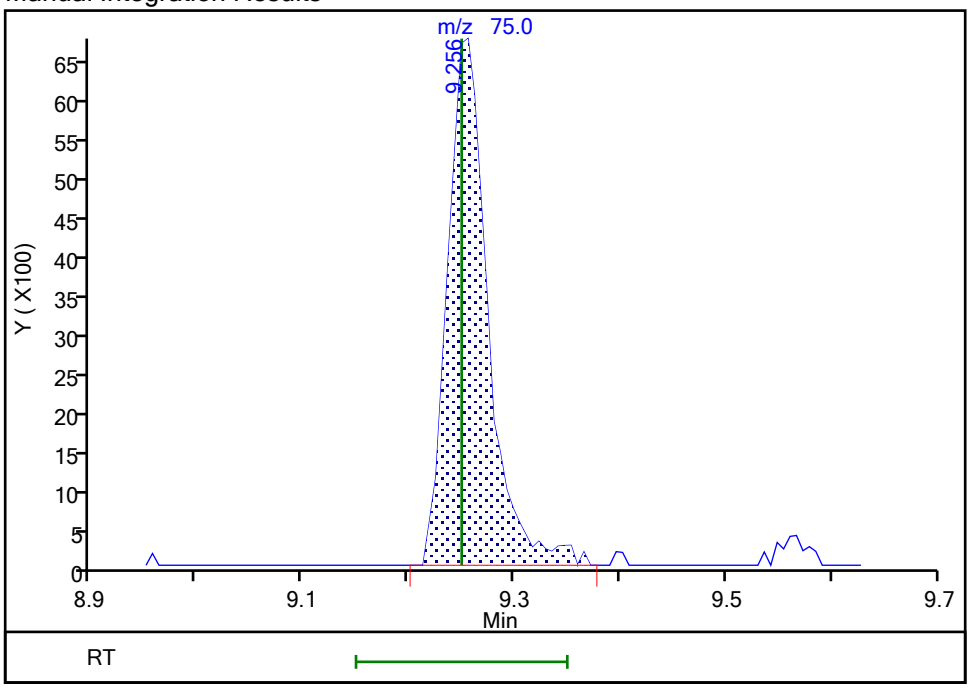
Processing Integration Results

RT: 9.26
Area: 17200
Amount: 0.184182
Amount Units: ug/l



Manual Integration Results

RT: 9.26
Area: 17787
Amount: 0.189616
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:03:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

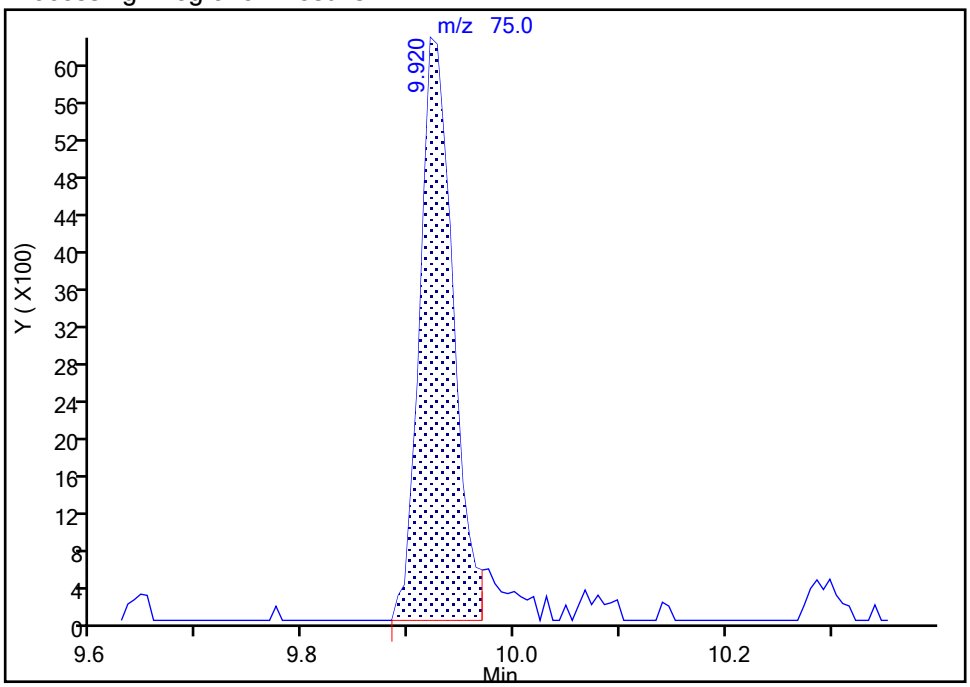
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

76 trans-1,3-Dichloropropene, CAS: 10061-02-6

Signal: 1

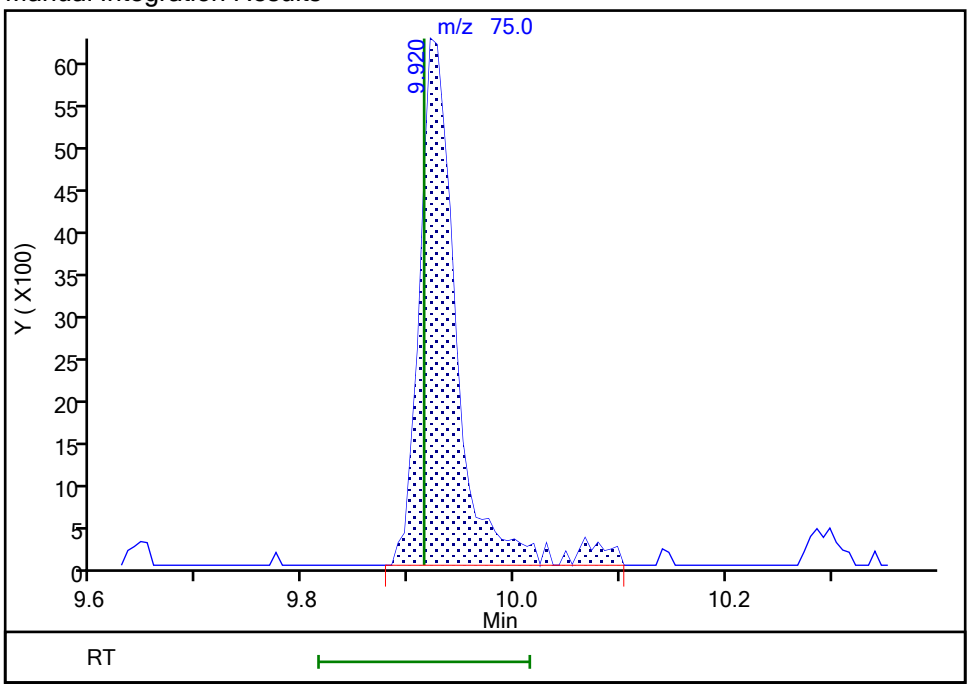
Processing Integration Results

RT: 9.92
Area: 13549
Amount: 0.173919
Amount Units: ug/l



Manual Integration Results

RT: 9.92
Area: 15184
Amount: 0.192027
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:52:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

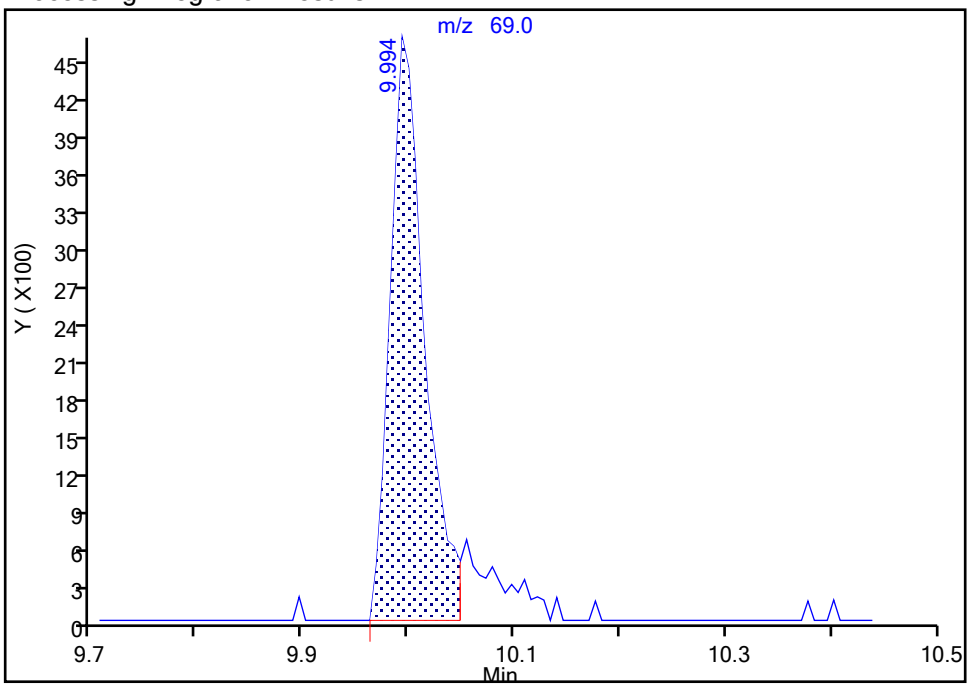
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

78 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

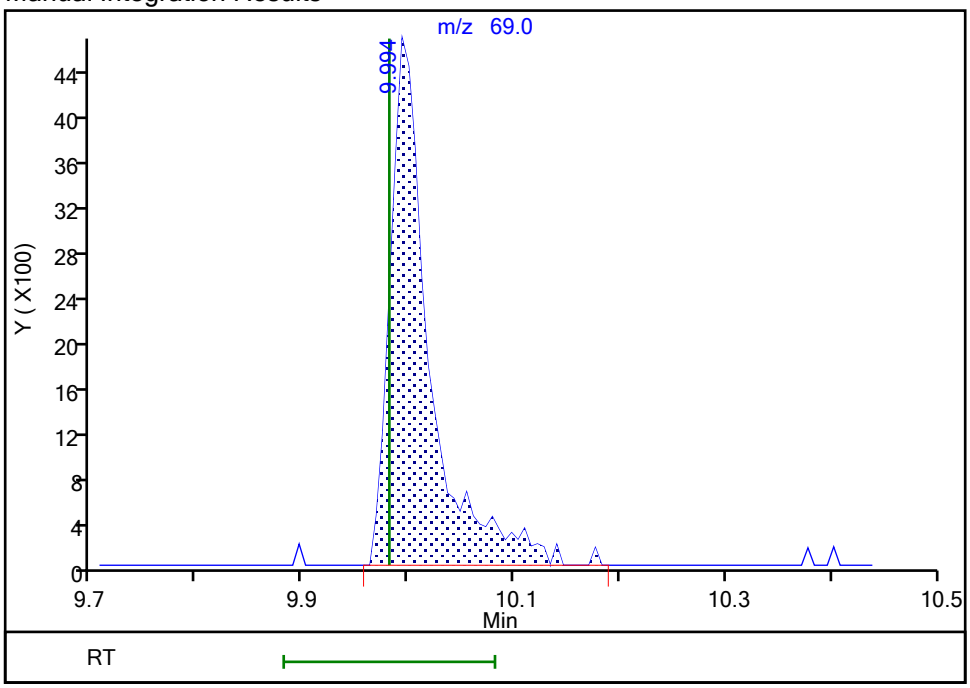
Processing Integration Results

RT: 9.99
Area: 10507
Amount: 0.159448
Amount Units: ug/l



Manual Integration Results

RT: 9.99
Area: 12129
Amount: 0.180883
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:53:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

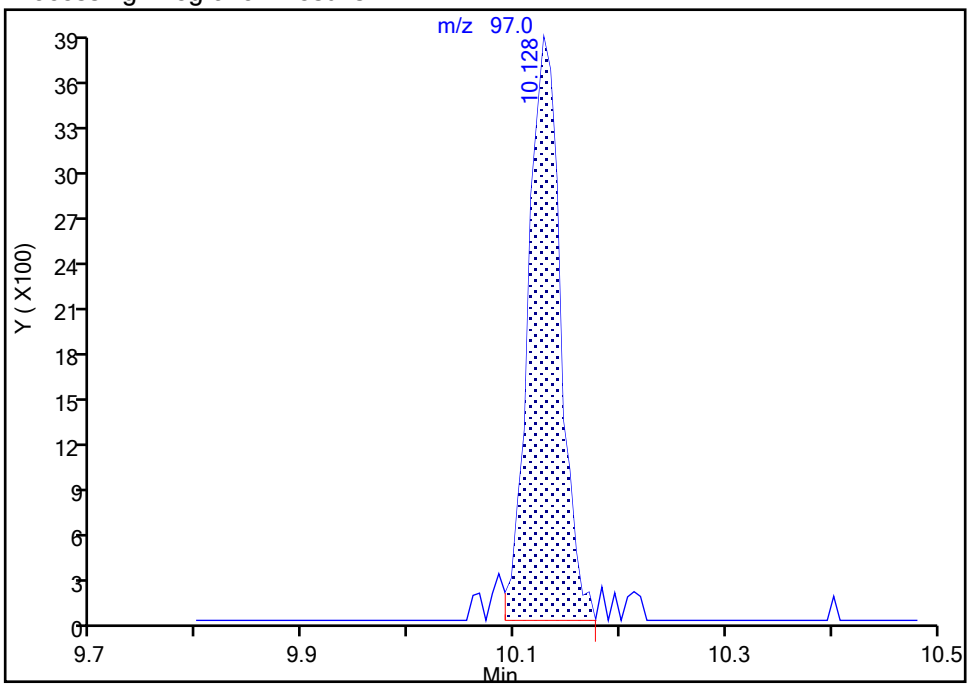
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

79 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

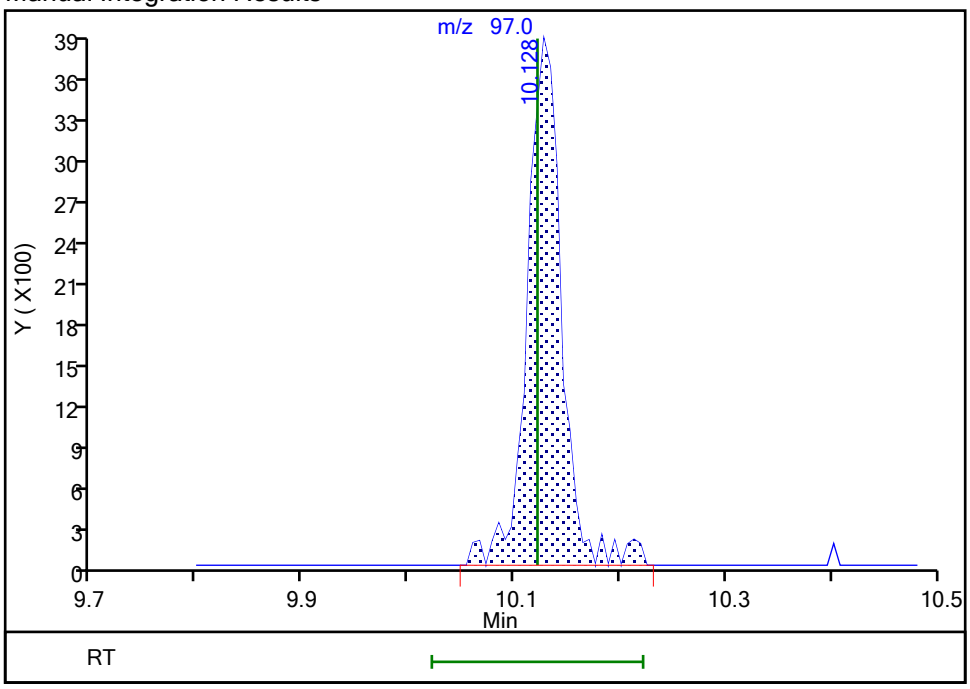
Processing Integration Results

RT: 10.13
Area: 8220
Amount: 0.192572
Amount Units: ug/l



Manual Integration Results

RT: 10.13
Area: 8862
Amount: 0.205405
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:03:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

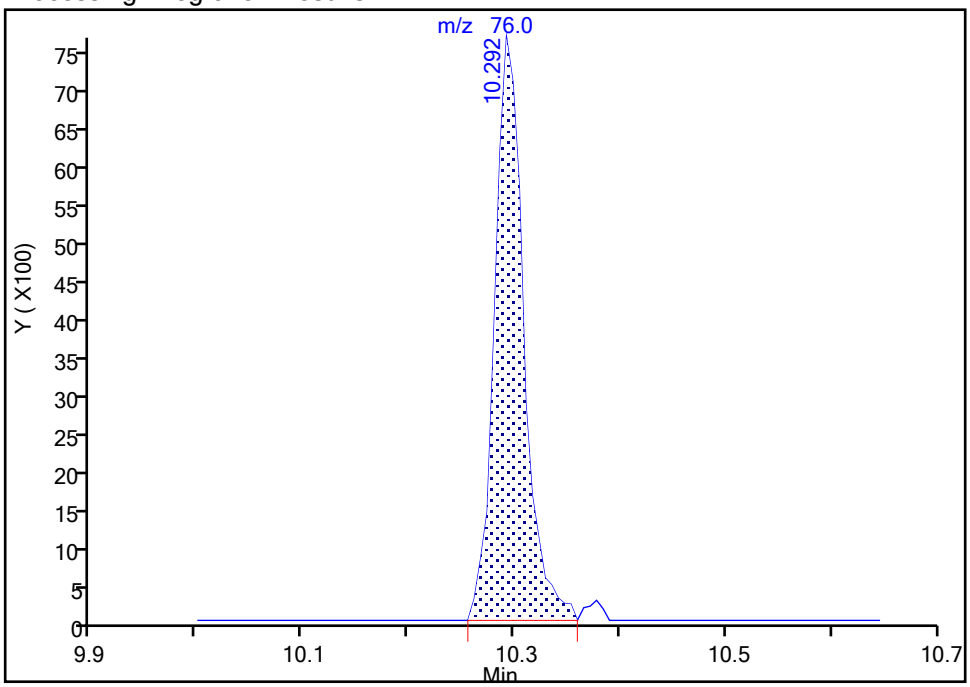
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

81 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

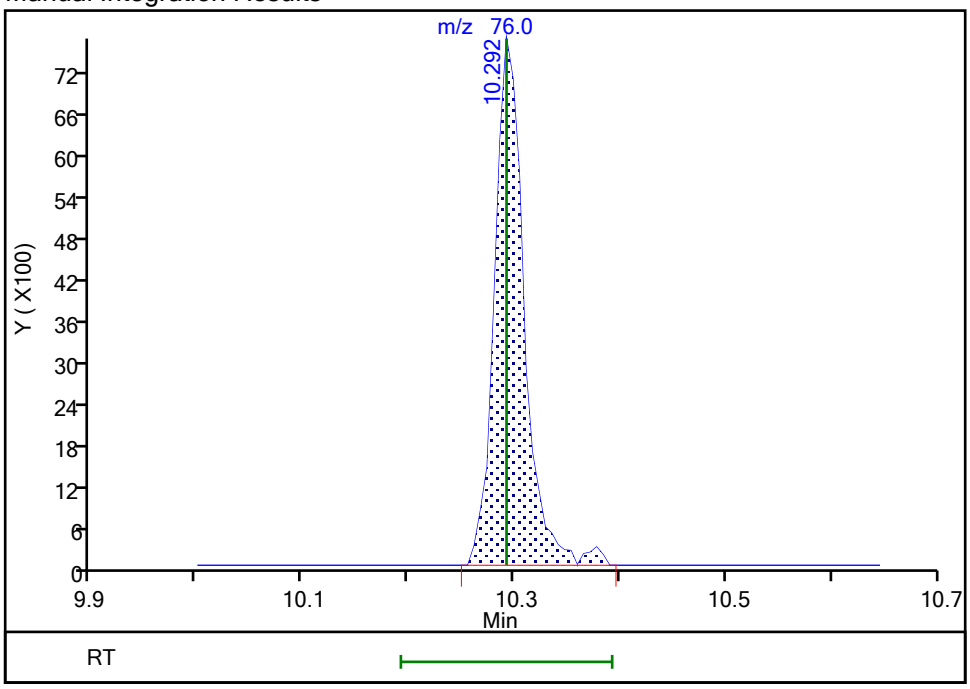
Processing Integration Results

RT: 10.29
Area: 14673
Amount: 0.190968
Amount Units: ug/l



Manual Integration Results

RT: 10.29
Area: 14952
Amount: 0.194096
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:04:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

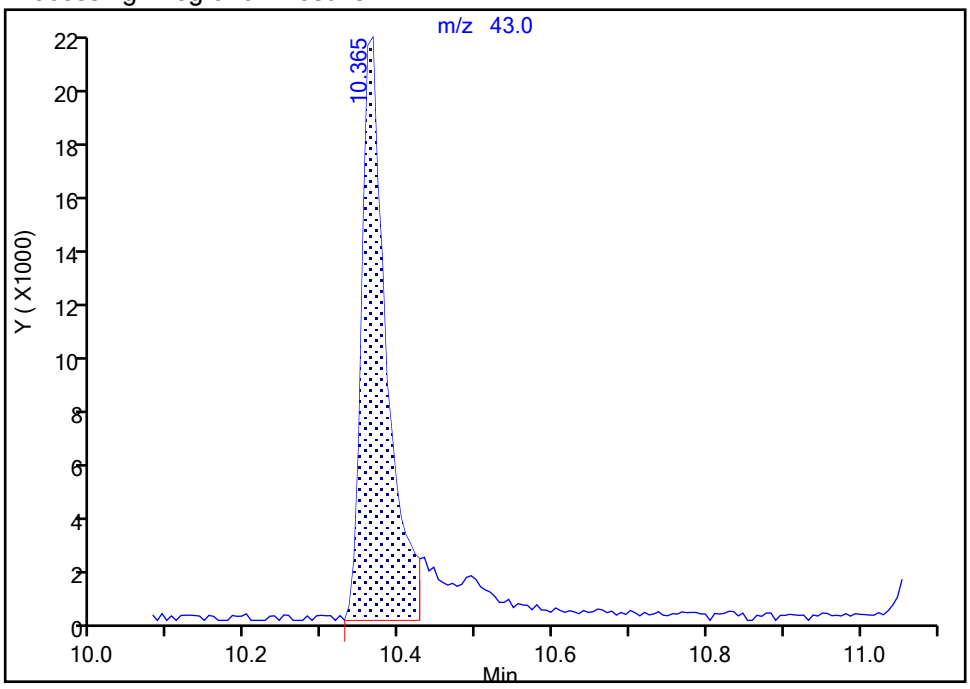
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

82 2-Hexanone, CAS: 591-78-6

Signal: 1

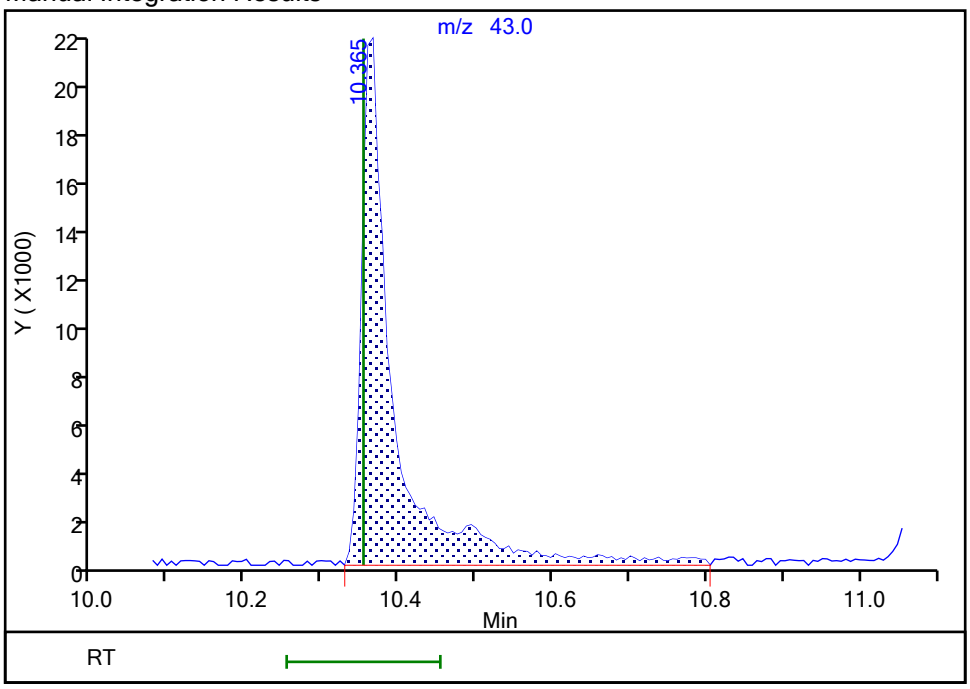
Processing Integration Results

RT: 10.37
Area: 49183
Amount: 1.542226
Amount Units: ug/l



Manual Integration Results

RT: 10.37
Area: 63799
Amount: 1.937123
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:06:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

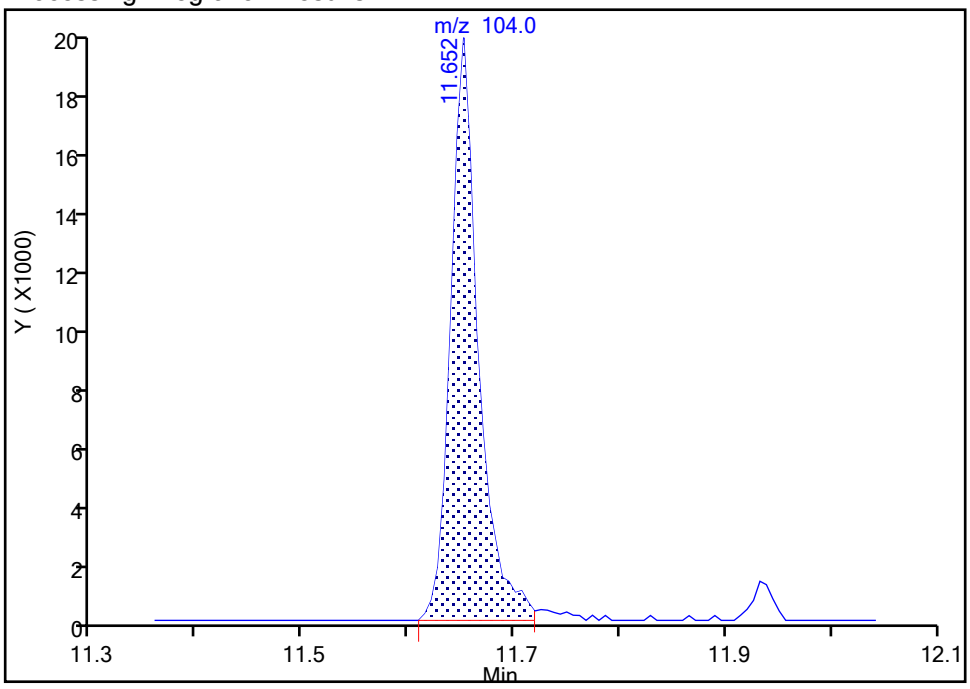
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

93 Styrene, CAS: 100-42-5

Signal: 1

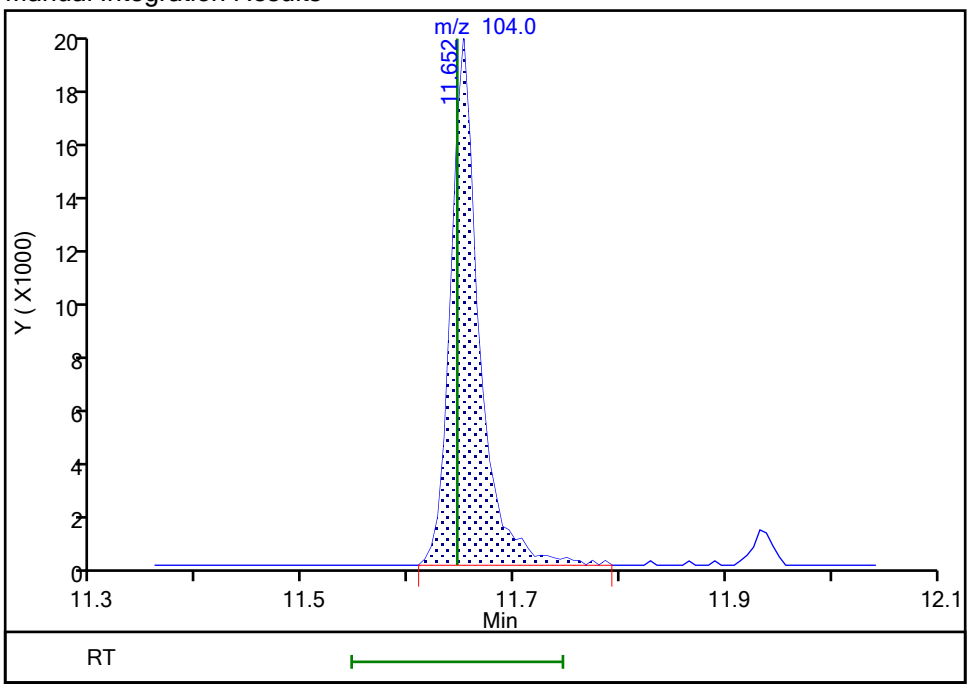
Processing Integration Results

RT: 11.65
Area: 36021
Amount: 0.185226
Amount Units: ug/l



Manual Integration Results

RT: 11.65
Area: 36816
Amount: 0.188763
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:07:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

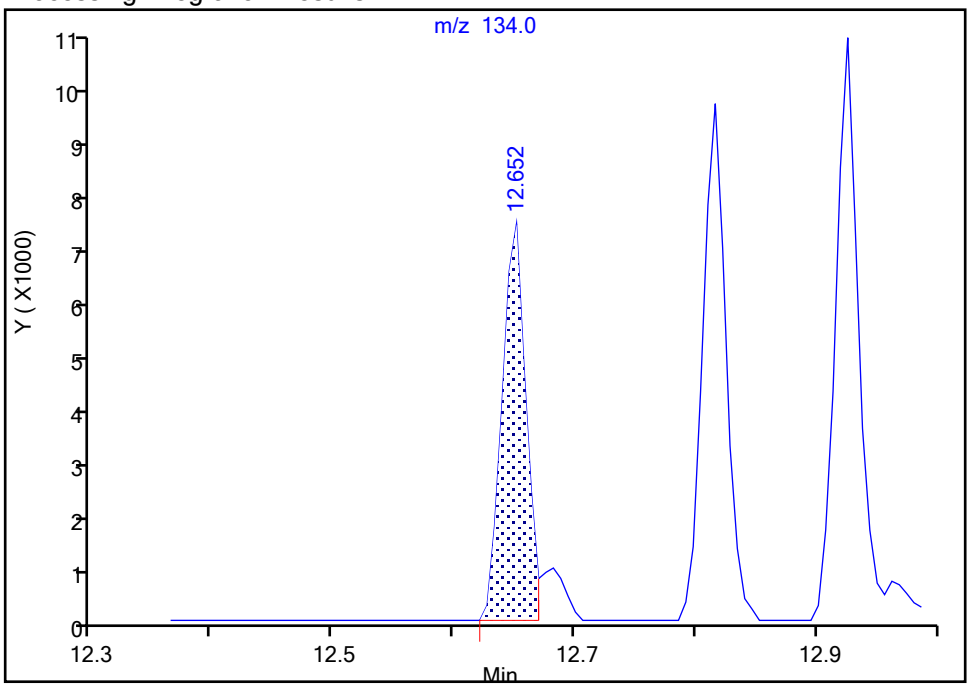
Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D
Injection Date: 11-Mar-2021 21:40:30 Instrument ID: 10193
Lims ID: IC STD.2 Lg
Client ID:
Operator ID: SRK36897 ALS Bottle#: 18 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

107 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

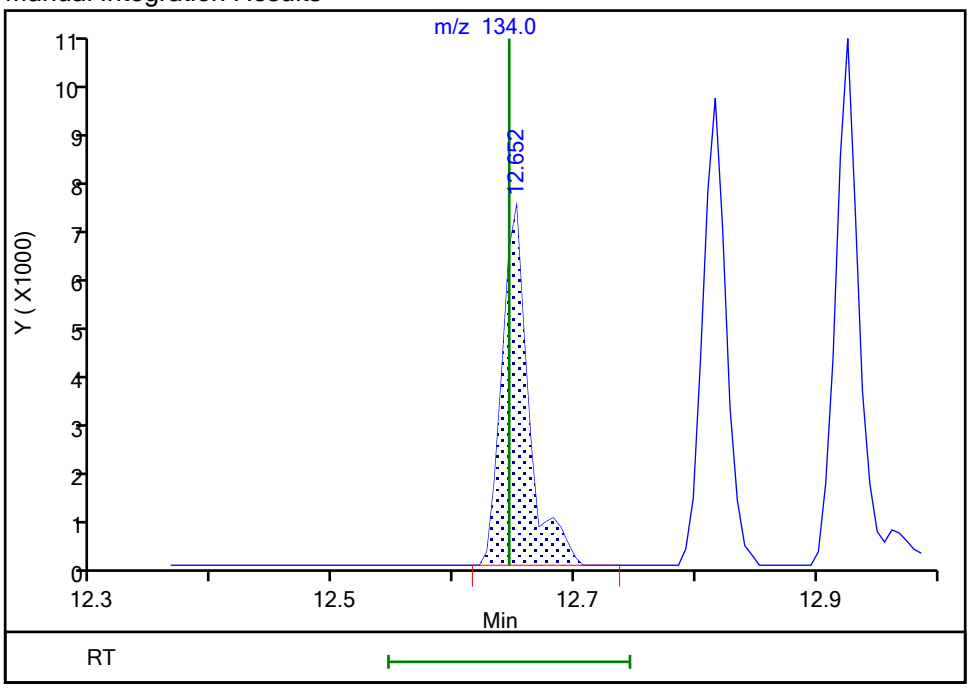
Processing Integration Results

RT: 12.65
Area: 9990
Amount: 0.179470
Amount Units: ug/l



Manual Integration Results

RT: 12.65
Area: 11161
Amount: 0.197538
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:53:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

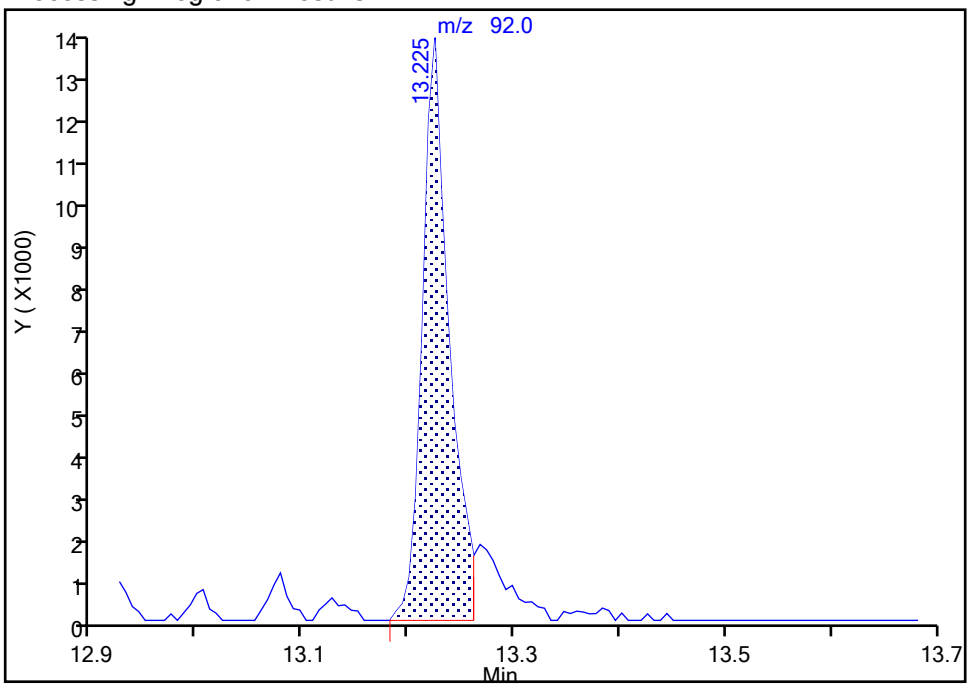
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

119 n-Butylbenzene, CAS: 104-51-8

Signal: 1

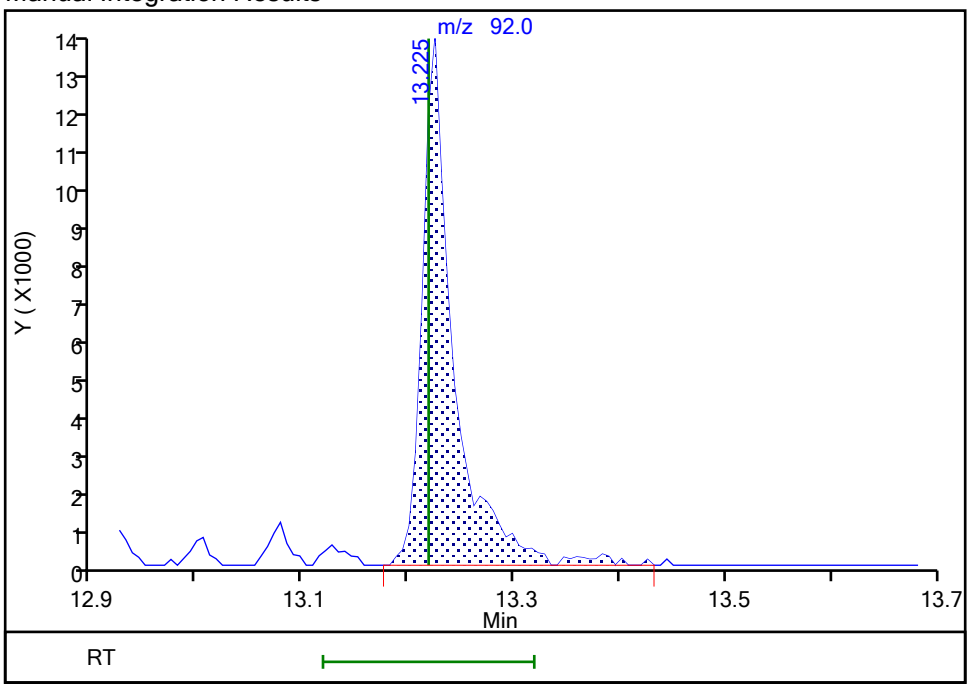
Processing Integration Results

RT: 13.22
Area: 24328
Amount: 0.167215
Amount Units: ug/l



Manual Integration Results

RT: 13.22
Area: 28518
Amount: 0.192064
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:54:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

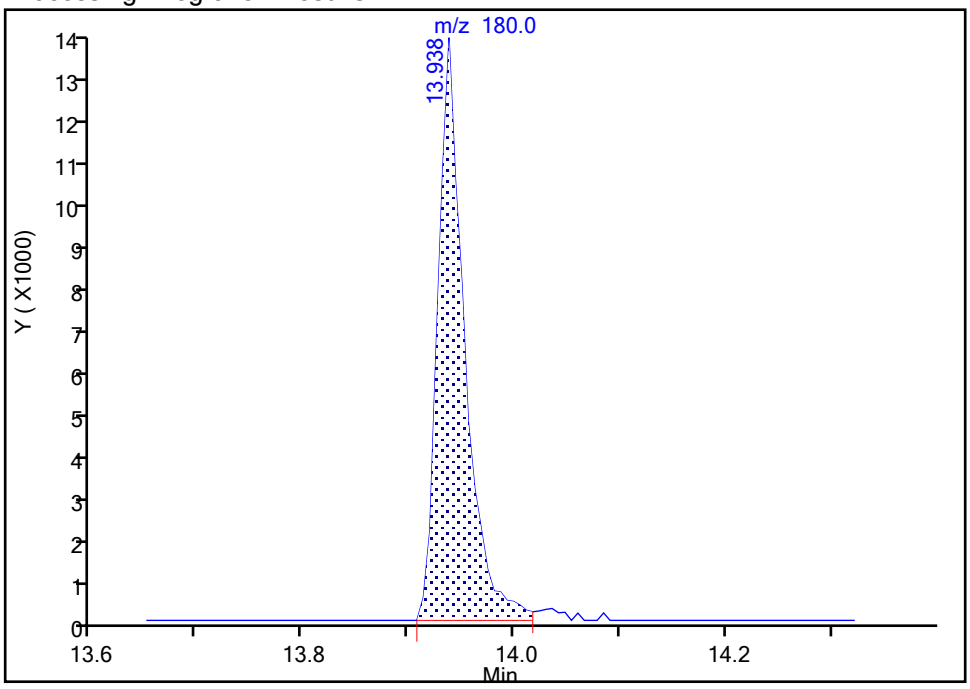
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

124 1,3,5-Trichlorobenzene, CAS: 108-70-3

Signal: 1

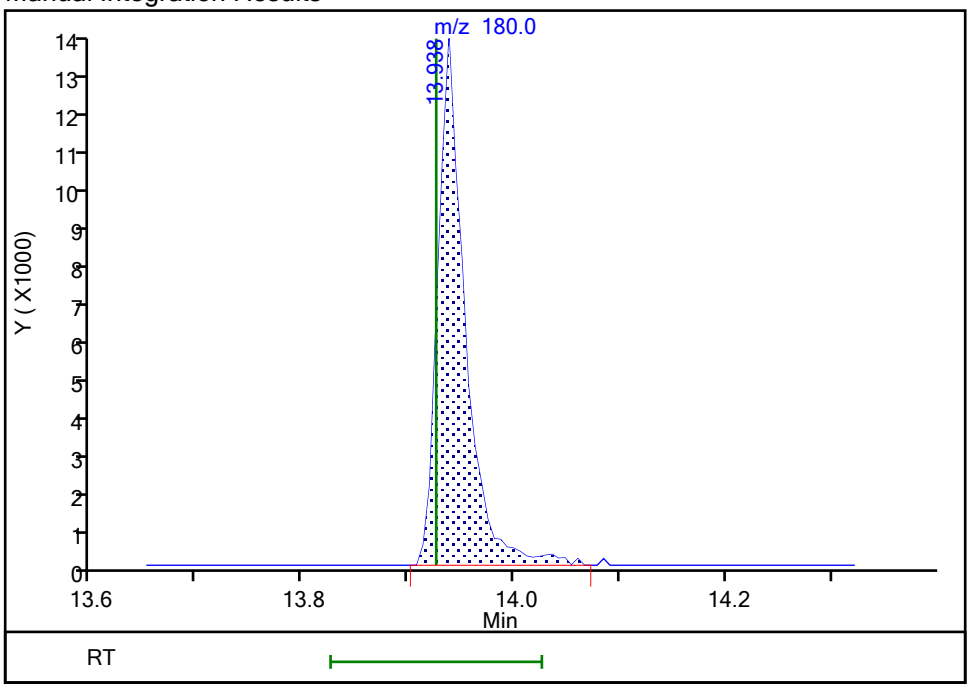
Processing Integration Results

RT: 13.94
Area: 23086
Amount: 0.193755
Amount Units: ug/l



Manual Integration Results

RT: 13.94
Area: 23542
Amount: 0.197043
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:08:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

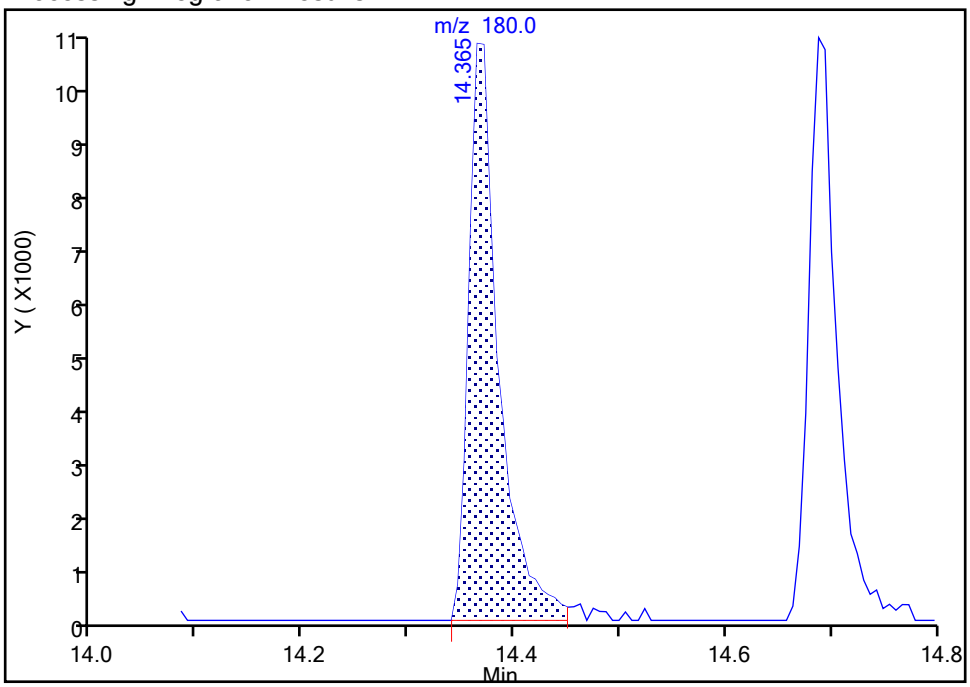
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

125 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

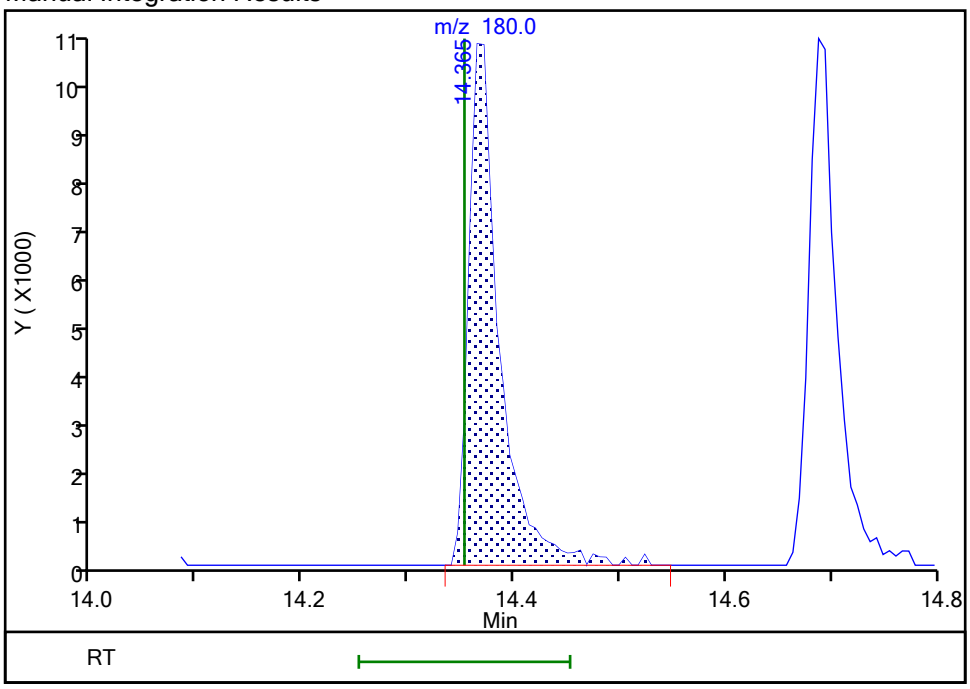
Processing Integration Results

RT: 14.36
Area: 20437
Amount: 0.191054
Amount Units: ug/l



Manual Integration Results

RT: 14.36
Area: 20963
Amount: 0.195286
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:08:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

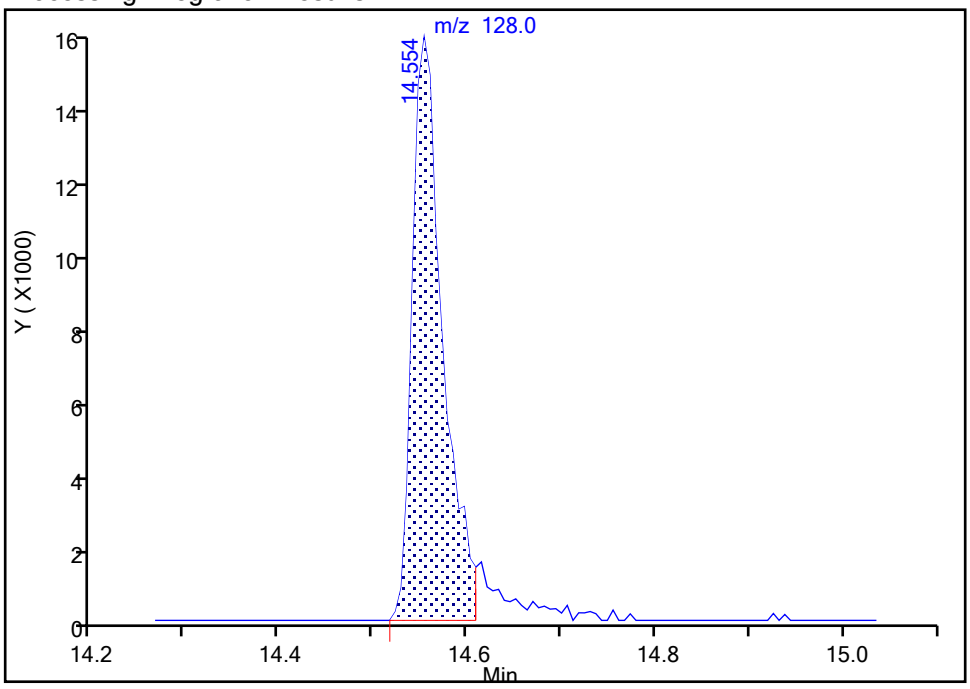
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

127 Naphthalene, CAS: 91-20-3

Signal: 1

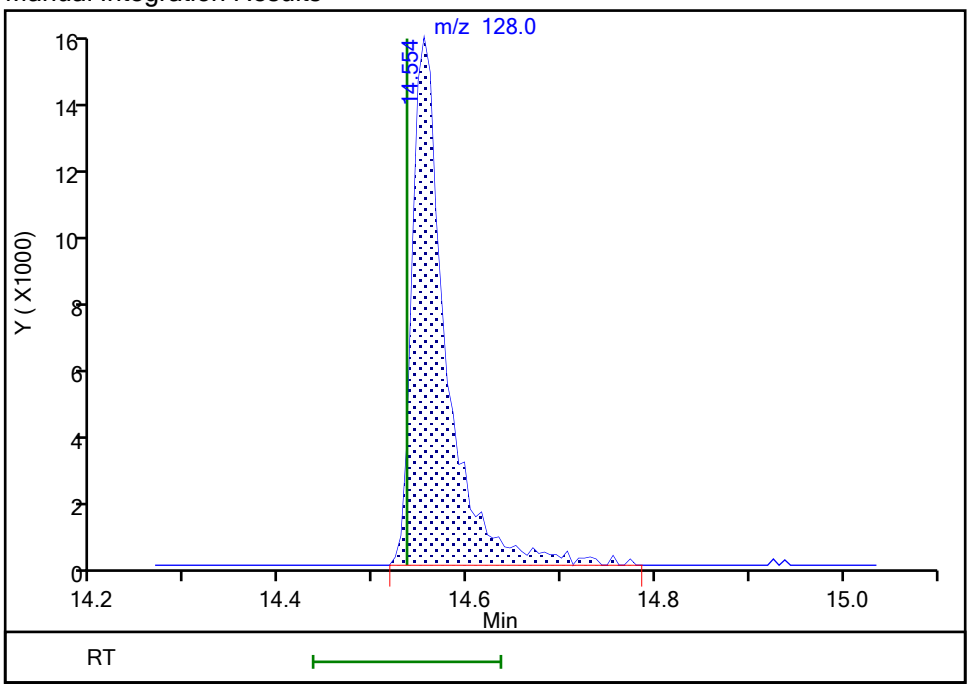
Processing Integration Results

RT: 14.55
Area: 33926
Amount: 0.177603
Amount Units: ug/l



Manual Integration Results

RT: 14.55
Area: 37493
Amount: 0.193693
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 10:54:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Env, LLC

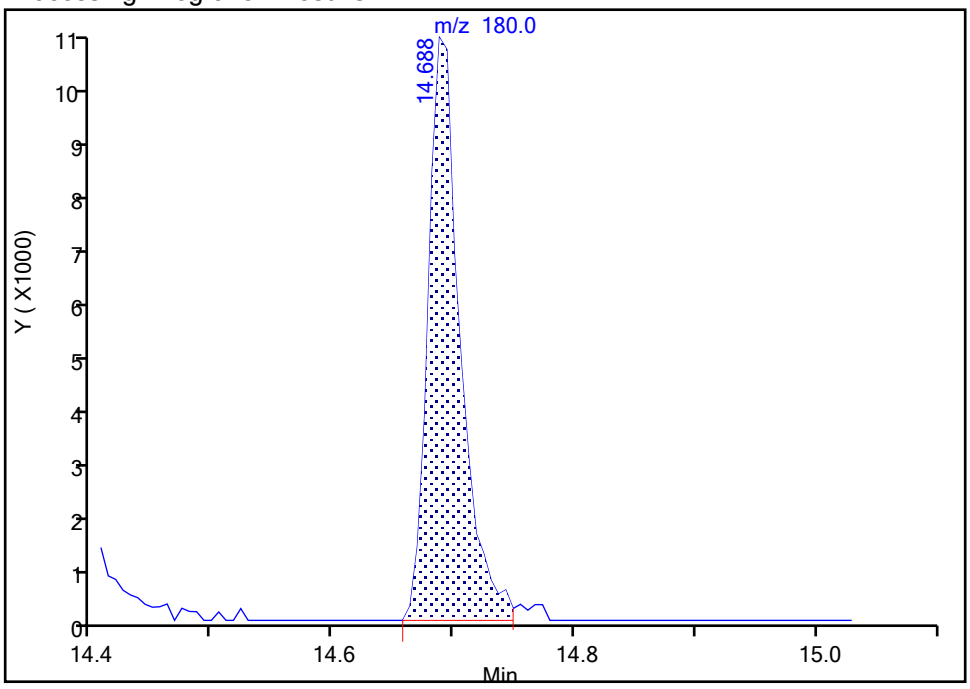
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D				
Injection Date:	11-Mar-2021 21:40:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Lg				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	18	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

128 1,2,3-Trichlorobenzene, CAS: 87-61-6

Signal: 1

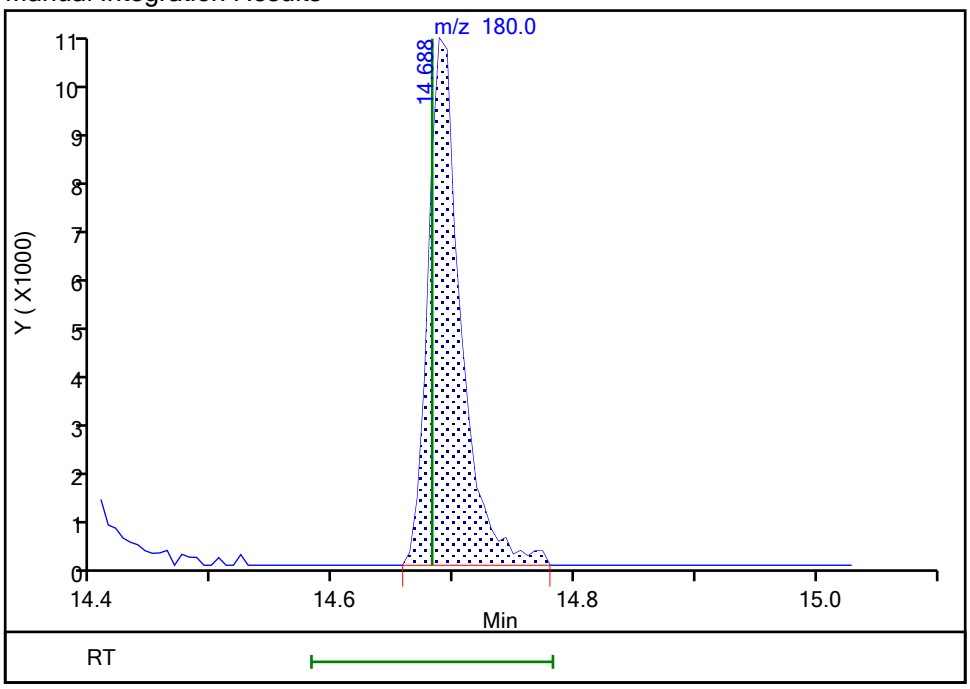
Processing Integration Results

RT: 14.69
Area: 19346
Amount: 0.203346
Amount Units: ug/l



Manual Integration Results

RT: 14.69
Area: 19725
Amount: 0.206741
Amount Units: ug/l



Reviewer: knouses, 12-Mar-2021 12:08:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

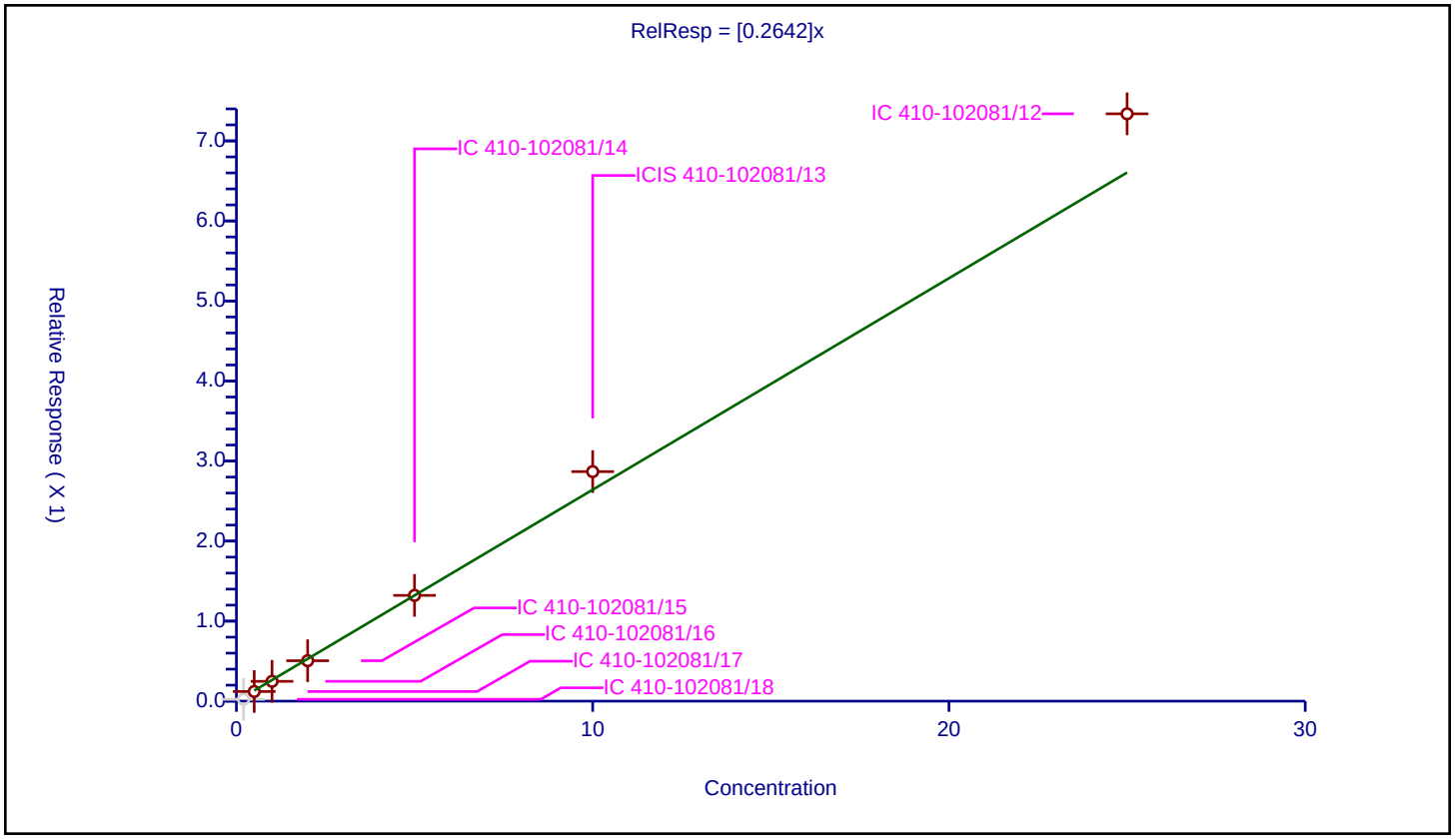
Curve Coefficients

Intercept:	0
Slope:	0.2642

Error Coefficients

Standard Error:	805000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.022842	10.0	2149149.0	0.114208	N
2	IC 410-102081/17	0.5	0.120372	10.0	2186974.0	0.240744	Y
3	IC 410-102081/16	1.0	0.247409	10.0	2195473.0	0.247409	Y
4	IC 410-102081/15	2.0	0.504879	10.0	2201773.0	0.25244	Y
5	IC 410-102081/14	5.0	1.321275	10.0	2225895.0	0.264255	Y
6	ICIS 410-102081/13	10.0	2.867669	10.0	2227977.0	0.286767	Y
7	IC 410-102081/12	25.0	7.338311	10.0	2252002.0	0.293532	Y



7/30/2025
1:47:08 PM

Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

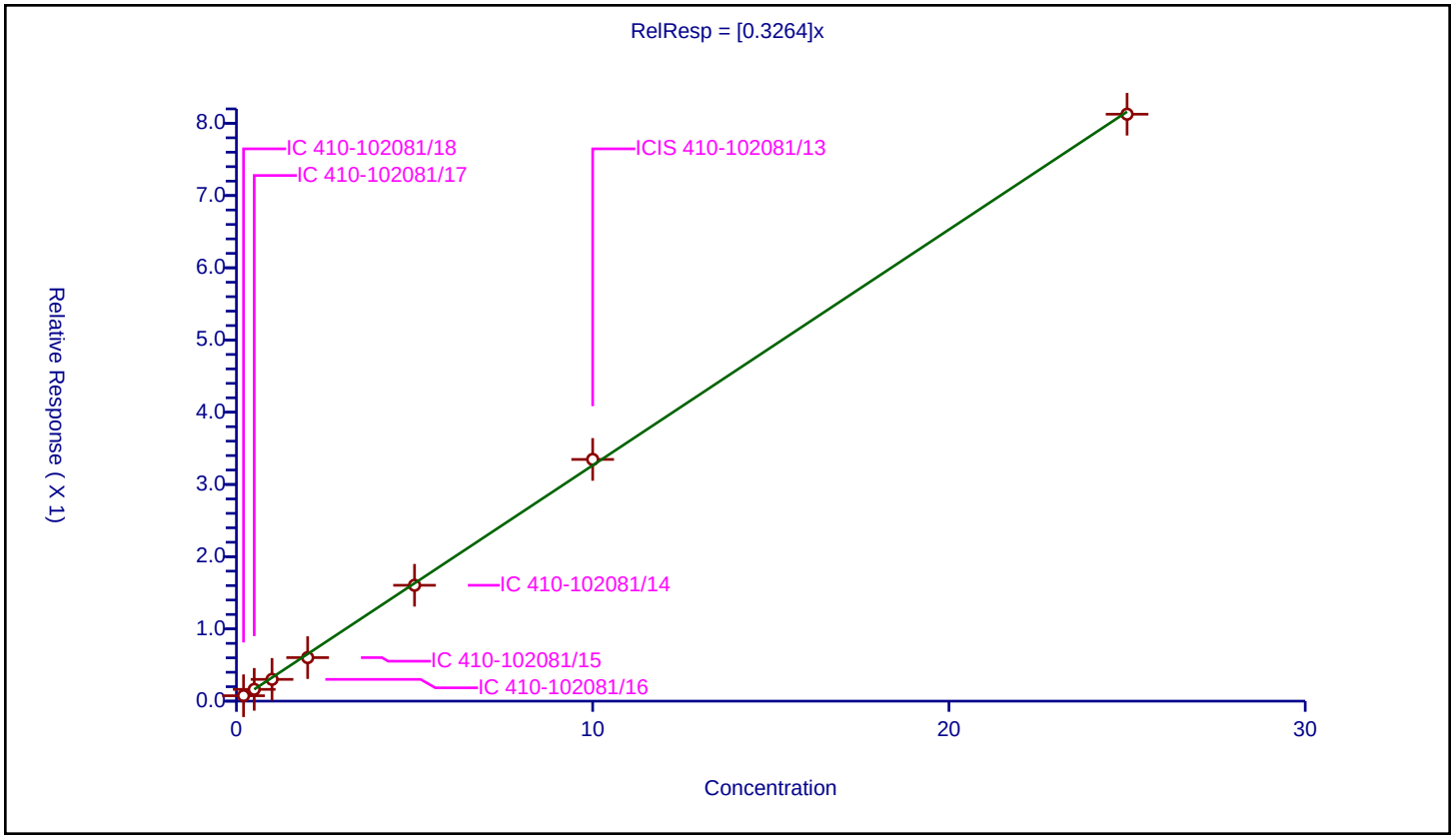
Curve Coefficients

Intercept:	0
Slope:	0.3264

Error Coefficients

Standard Error:	822000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.075039	10.0	2149149.0	0.375195	Y
2	IC 410-102081/17	0.5	0.163244	10.0	2186974.0	0.326488	Y
3	IC 410-102081/16	1.0	0.30137	10.0	2195473.0	0.30137	Y
4	IC 410-102081/15	2.0	0.602701	10.0	2201773.0	0.30135	Y
5	IC 410-102081/14	5.0	1.604469	10.0	2225895.0	0.320894	Y
6	ICIS 410-102081/13	10.0	3.346875	10.0	2227977.0	0.334687	Y
7	IC 410-102081/12	25.0	8.126627	10.0	2252002.0	0.325065	Y



7/30/2025
1:47:08 PM

Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

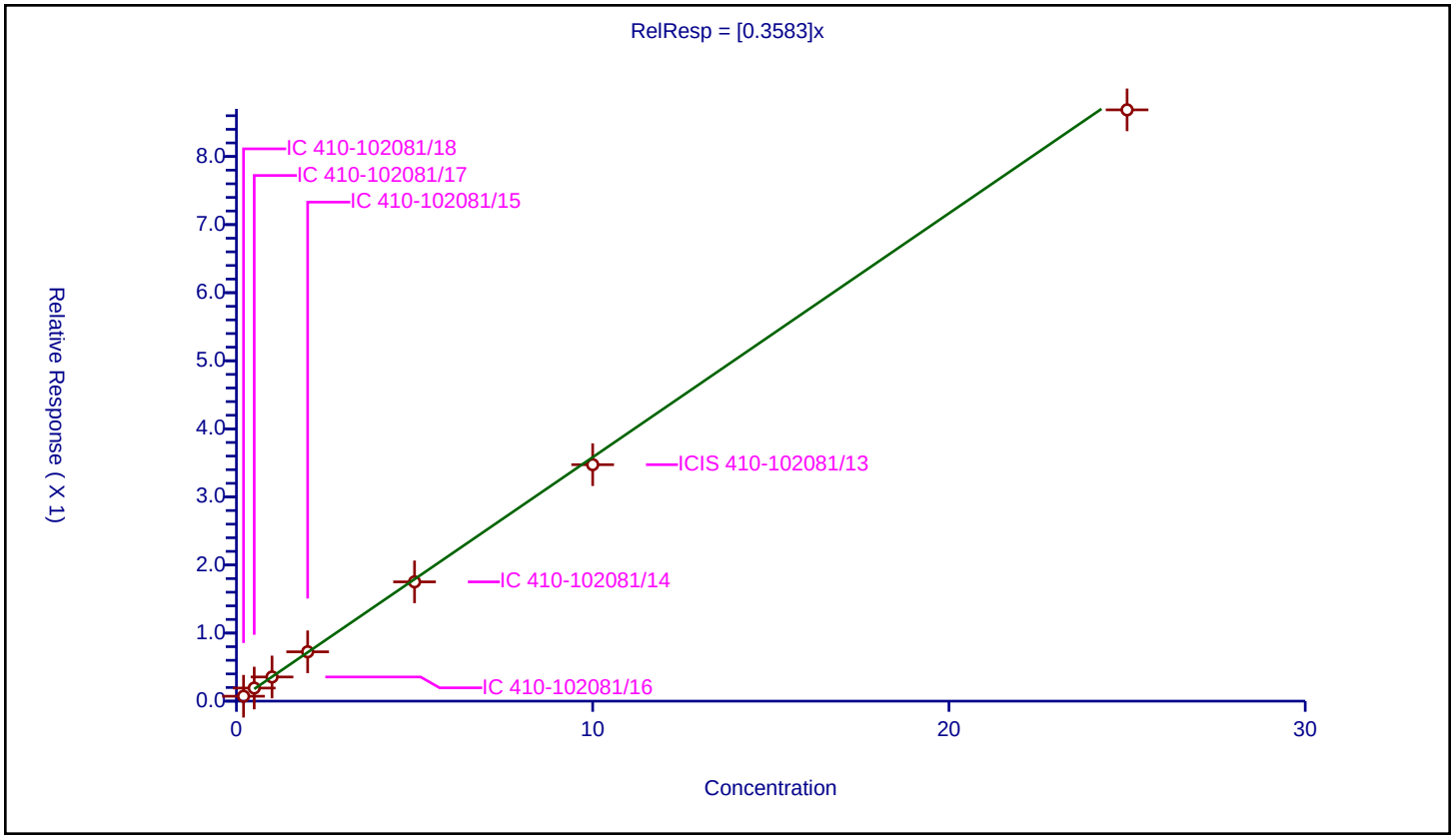
Curve Coefficients

Intercept:	0
Slope:	0.3583

Error Coefficients

Standard Error:	877000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.072108	10.0	2149149.0	0.360538	Y
2	IC 410-102081/17	0.5	0.192302	10.0	2186974.0	0.384604	Y
3	IC 410-102081/16	1.0	0.355249	10.0	2195473.0	0.355249	Y
4	IC 410-102081/15	2.0	0.724734	10.0	2201773.0	0.362367	Y
5	IC 410-102081/14	5.0	1.752279	10.0	2225895.0	0.350456	Y
6	ICIS 410-102081/13	10.0	3.473541	10.0	2227977.0	0.347354	Y
7	IC 410-102081/12	25.0	8.685805	10.0	2252002.0	0.347432	Y



7/30/2025
1:47:08 PM

Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

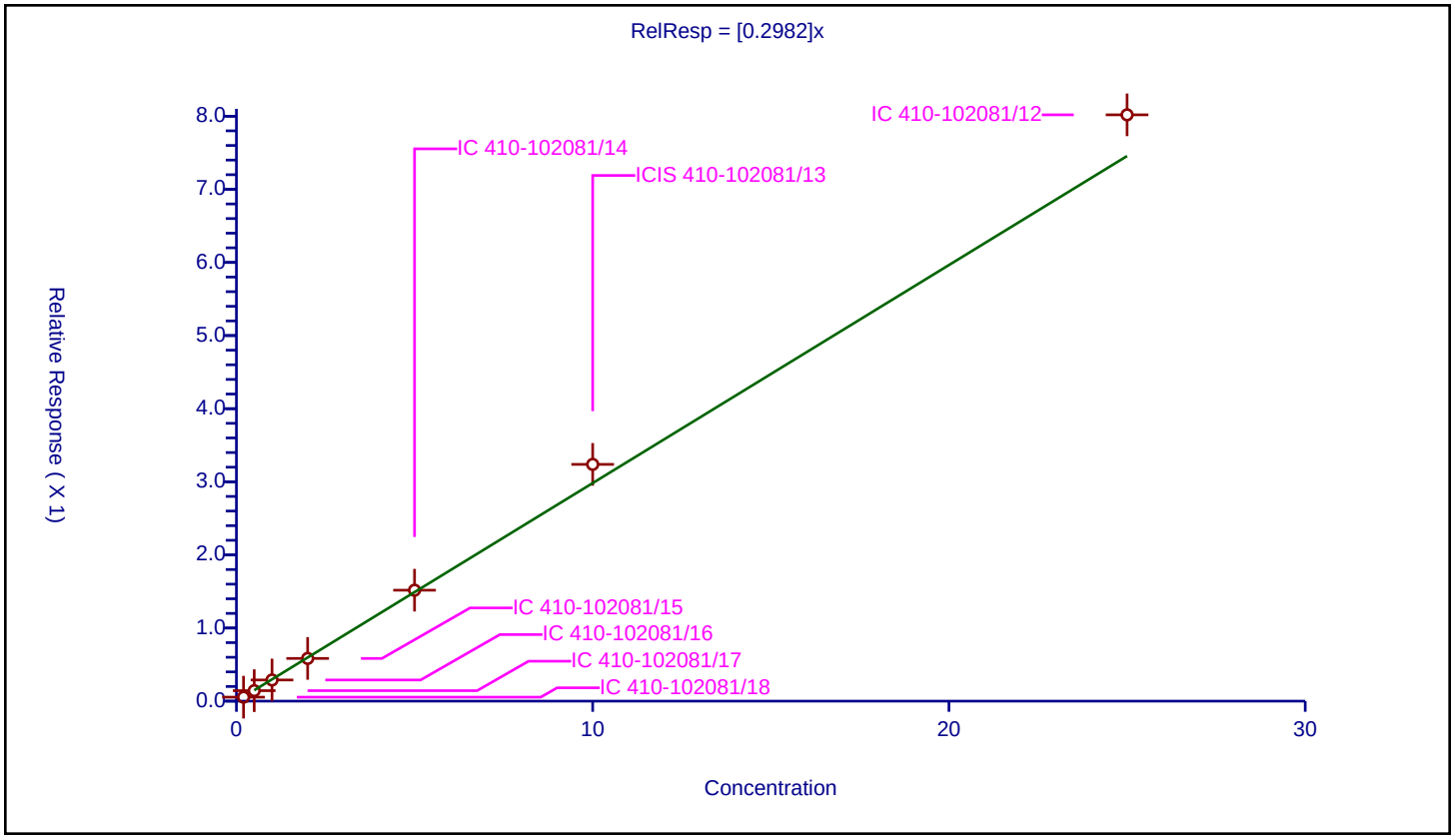
Curve Coefficients

Intercept:	0
Slope:	0.2982

Error Coefficients

Standard Error:	808000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.054305	10.0	2149149.0	0.271526	Y
2	IC 410-102081/17	0.5	0.143239	10.0	2186974.0	0.286478	Y
3	IC 410-102081/16	1.0	0.289373	10.0	2195473.0	0.289373	Y
4	IC 410-102081/15	2.0	0.584197	10.0	2201773.0	0.292099	Y
5	IC 410-102081/14	5.0	1.517354	10.0	2225895.0	0.303471	Y
6	ICIS 410-102081/13	10.0	3.238	10.0	2227977.0	0.3238	Y
7	IC 410-102081/12	25.0	8.018909	10.0	2252002.0	0.320756	Y



7/30/2025
1:47:08 PM

Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

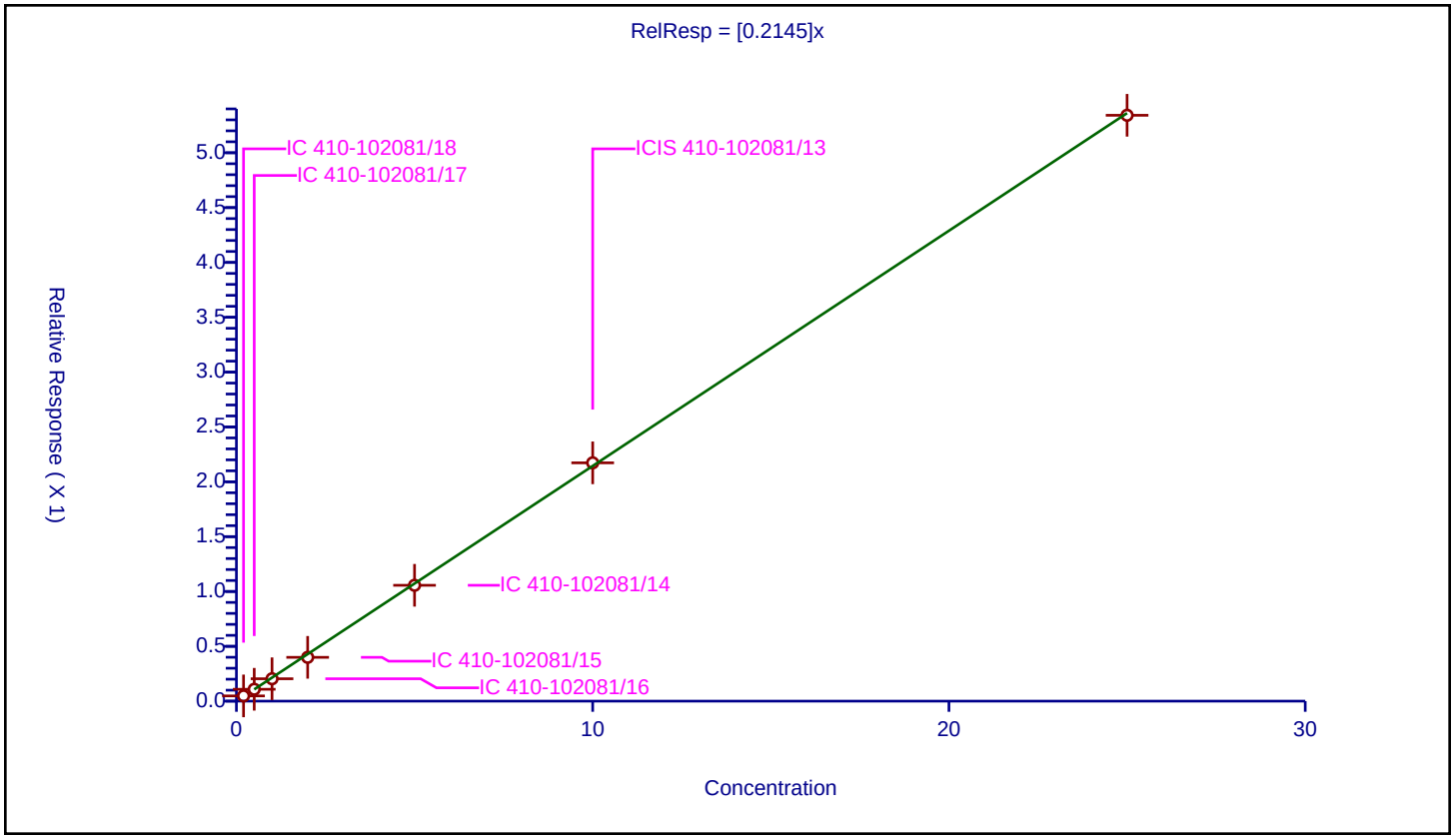
Curve Coefficients

Intercept:	0
Slope:	0.2145

Error Coefficients

Standard Error:	540000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.047754	10.0	2149149.0	0.238769	Y
2	IC 410-102081/17	0.5	0.108232	10.0	2186974.0	0.216463	Y
3	IC 410-102081/16	1.0	0.204029	10.0	2195473.0	0.204029	Y
4	IC 410-102081/15	2.0	0.399424	10.0	2201773.0	0.199712	Y
5	IC 410-102081/14	5.0	1.056285	10.0	2225895.0	0.211257	Y
6	ICIS 410-102081/13	10.0	2.172756	10.0	2227977.0	0.217276	Y
7	IC 410-102081/12	25.0	5.341727	10.0	2252002.0	0.213669	Y



7/30/2025
1:47:08 PM

Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

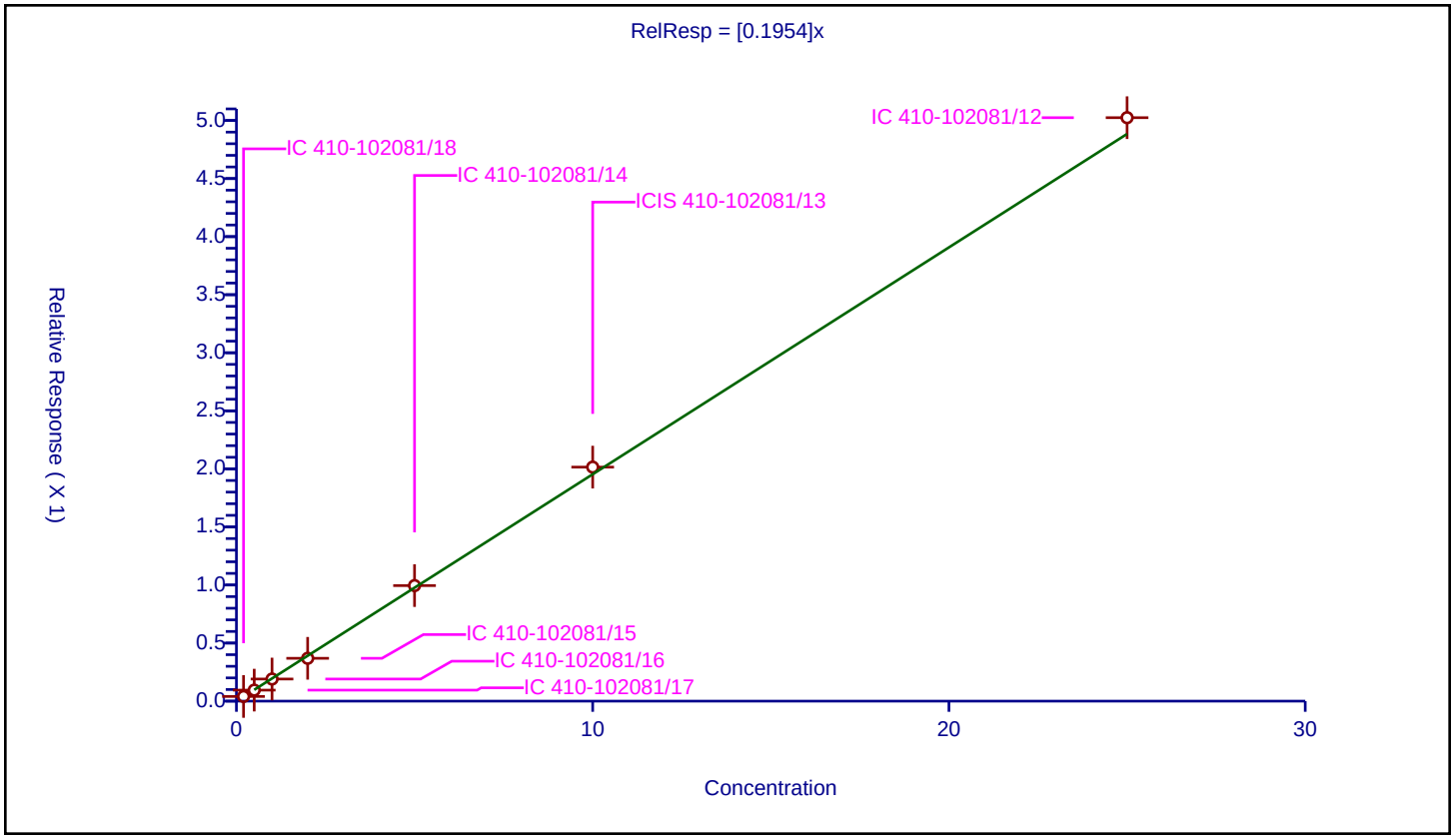
Curve Coefficients

Intercept:	0
Slope:	0.1954

Error Coefficients

Standard Error:	507000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.040253	10.0	2149149.0	0.201266	Y
2	IC 410-102081/17	0.5	0.094917	10.0	2186974.0	0.189833	Y
3	IC 410-102081/16	1.0	0.19051	10.0	2195473.0	0.19051	Y
4	IC 410-102081/15	2.0	0.368894	10.0	2201773.0	0.184447	Y
5	IC 410-102081/14	5.0	0.994948	10.0	2225895.0	0.19899	Y
6	ICIS 410-102081/13	10.0	2.015272	10.0	2227977.0	0.201527	Y
7	IC 410-102081/12	25.0	5.024401	10.0	2252002.0	0.200976	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

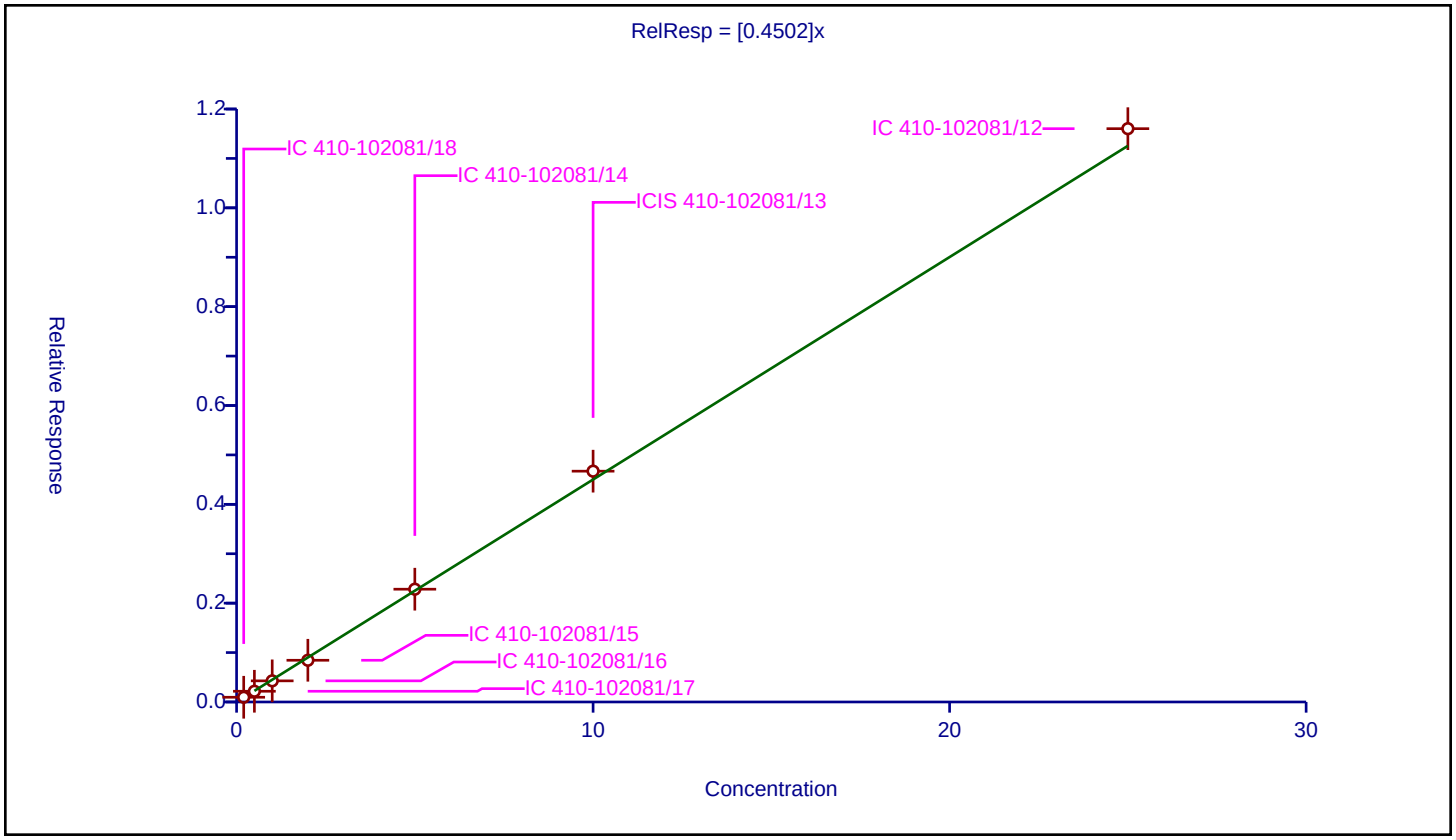
Curve Coefficients

Intercept:	0
Slope:	0.4502

Error Coefficients

Standard Error:	1170000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.095838	10.0	2149149.0	0.47919	Y
2	IC 410-102081/17	0.5	0.217245	10.0	2186974.0	0.434491	Y
3	IC 410-102081/16	1.0	0.42778	10.0	2195473.0	0.42778	Y
4	IC 410-102081/15	2.0	0.844342	10.0	2201773.0	0.422171	Y
5	IC 410-102081/14	5.0	2.282295	10.0	2225895.0	0.456459	Y
6	ICIS 410-102081/13	10.0	4.671229	10.0	2227977.0	0.467123	Y
7	IC 410-102081/12	25.0	11.602334	10.0	2252002.0	0.464093	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

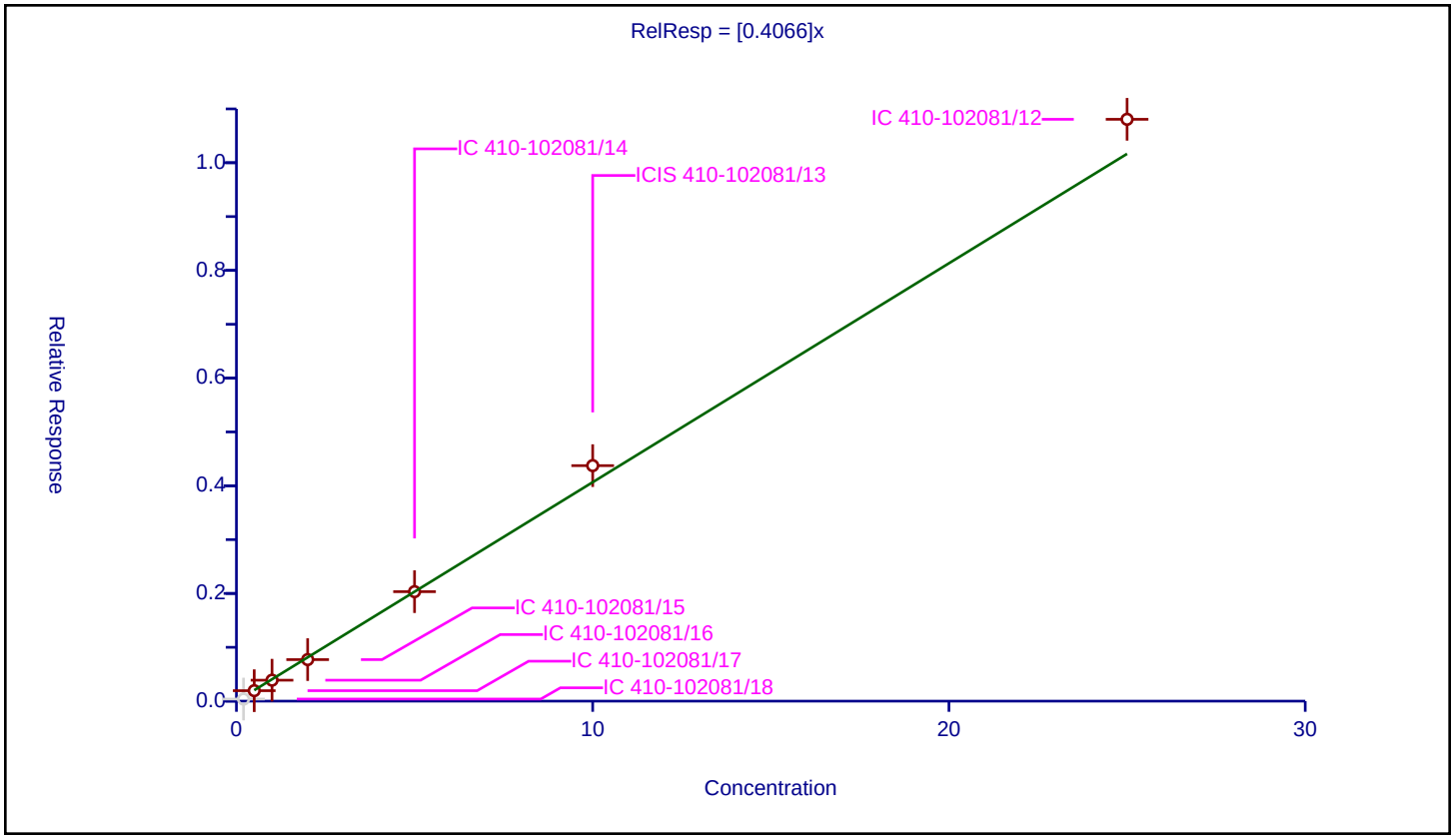
Curve Coefficients

Intercept:	0
Slope:	0.4066

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.038727	10.0	2149149.0	0.193635	N
2	IC 410-102081/17	0.5	0.194195	10.0	2186974.0	0.388391	Y
3	IC 410-102081/16	1.0	0.389114	10.0	2195473.0	0.389114	Y
4	IC 410-102081/15	2.0	0.771655	10.0	2201773.0	0.385828	Y
5	IC 410-102081/14	5.0	2.03351	10.0	2225895.0	0.406702	Y
6	ICIS 410-102081/13	10.0	4.374228	10.0	2227977.0	0.437423	Y
7	IC 410-102081/12	25.0	10.806367	10.0	2252002.0	0.432255	Y



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Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

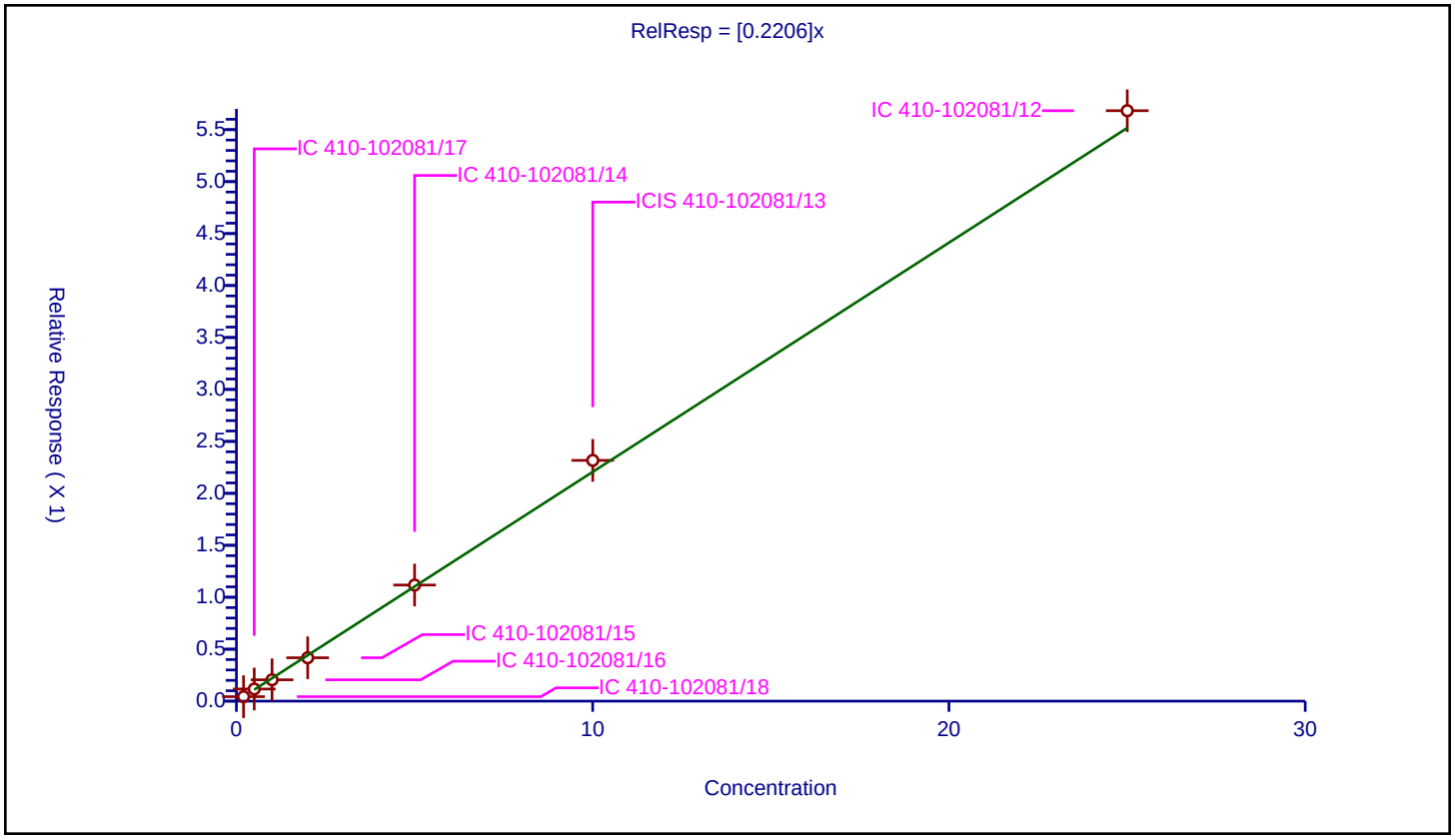
Curve Coefficients

Intercept:	0
Slope:	0.2206

Error Coefficients

Standard Error:	574000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.200043	0.042947	10.0	2149149.0	0.21469	Y
2	IC 410-102081/17	0.500108	0.1167	10.0	2186974.0	0.23335	Y
3	IC 410-102081/16	1.000215	0.205395	10.0	2195473.0	0.205351	Y
4	IC 410-102081/15	2.00043	0.417418	10.0	2201773.0	0.208664	Y
5	IC 410-102081/14	5.001075	1.117146	10.0	2225895.0	0.223381	Y
6	ICIS 410-102081/13	10.00215	2.317196	10.0	2227977.0	0.23167	Y
7	IC 410-102081/12	25.005375	5.682606	10.0	2252002.0	0.227255	Y



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Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

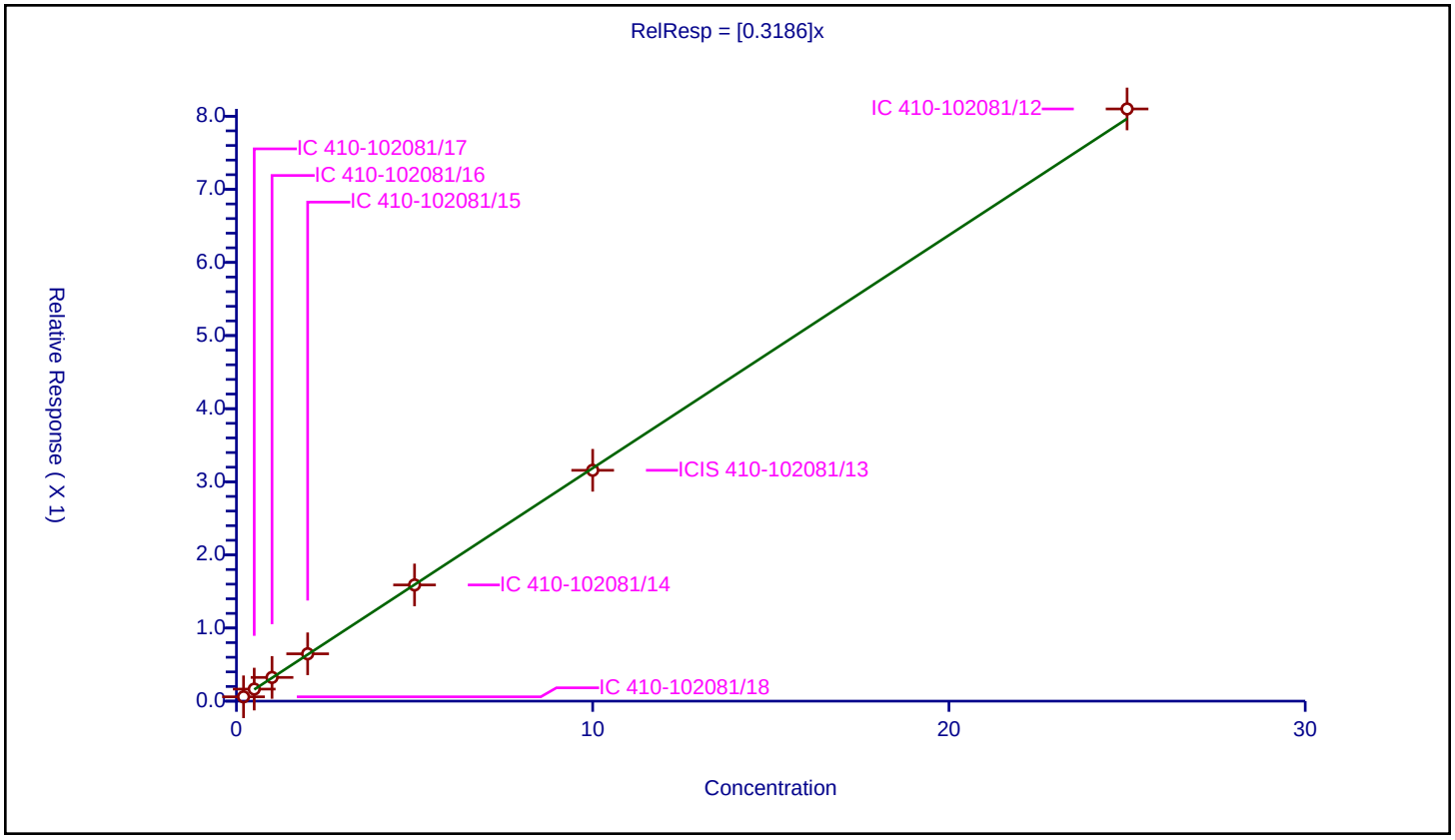
Curve Coefficients

Intercept:	0
Slope:	0.3186

Error Coefficients

Standard Error:	814000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.059056	10.0	2149149.0	0.29528	Y
2	IC 410-102081/17	0.5	0.164734	10.0	2186974.0	0.329469	Y
3	IC 410-102081/16	1.0	0.324486	10.0	2195473.0	0.324486	Y
4	IC 410-102081/15	2.0	0.647419	10.0	2201773.0	0.32371	Y
5	IC 410-102081/14	5.0	1.589145	10.0	2225895.0	0.317829	Y
6	ICIS 410-102081/13	10.0	3.15725	10.0	2227977.0	0.315725	Y
7	IC 410-102081/12	25.0	8.099309	10.0	2252002.0	0.323972	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

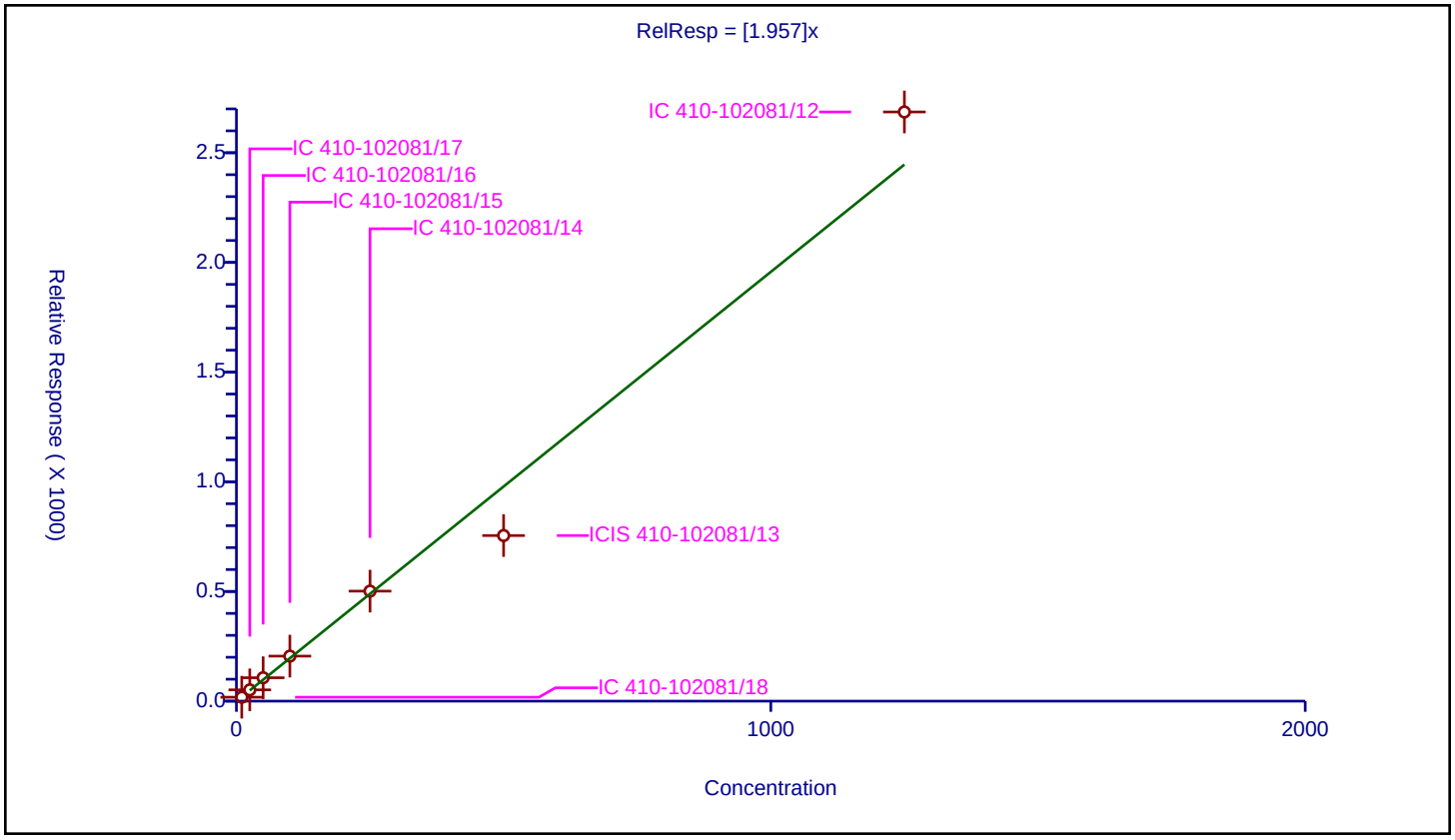
Curve Coefficients

Intercept:	0
Slope:	1.957

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	11.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	9.999544	17.896248	50.0	174165.0	1.789706	Y
2	IC 410-102081/17	24.998861	51.42559	50.0	171087.0	2.057117	Y
3	IC 410-102081/16	49.997722	106.695219	50.0	165663.0	2.134002	Y
4	IC 410-102081/15	99.995444	205.27058	50.0	173036.0	2.052799	Y
5	IC 410-102081/14	249.988611	501.565224	50.0	171477.0	2.006352	Y
6	ICIS 410-102081/13	499.977222	754.887682	50.0	195338.0	1.509844	Y
7	IC 410-102081/12	1249.943055	2686.006028	50.0	155617.0	2.148903	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

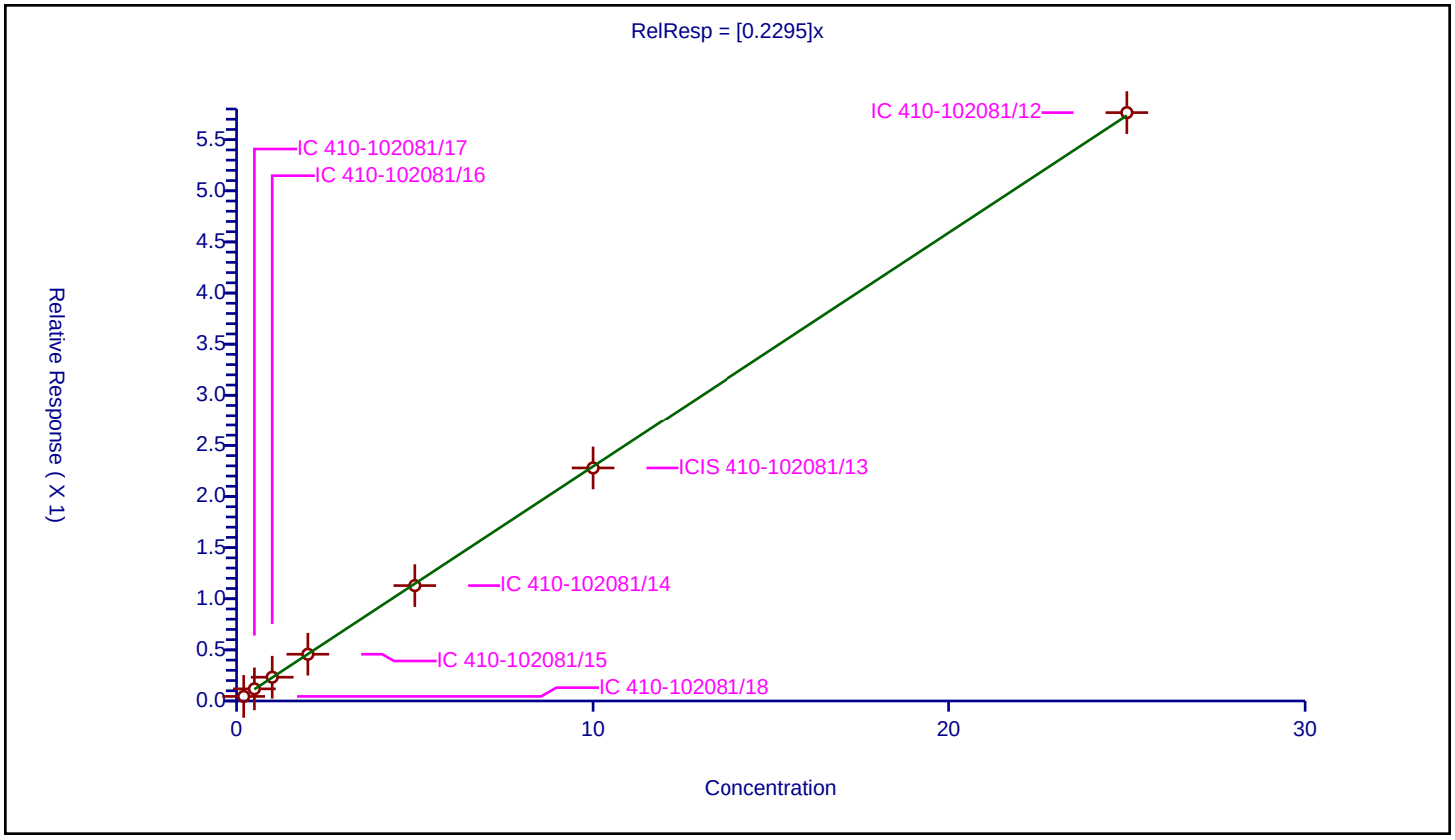
Curve Coefficients

Intercept:	0
Slope:	0.2295

Error Coefficients

Standard Error:	580000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.044799	10.0	2149149.0	0.223996	Y
2	IC 410-102081/17	0.5	0.118465	10.0	2186974.0	0.23693	Y
3	IC 410-102081/16	1.0	0.232437	10.0	2195473.0	0.232437	Y
4	IC 410-102081/15	2.0	0.457313	10.0	2201773.0	0.228657	Y
5	IC 410-102081/14	5.0	1.128661	10.0	2225895.0	0.225732	Y
6	ICIS 410-102081/13	10.0	2.279431	10.0	2227977.0	0.227943	Y
7	IC 410-102081/12	25.0	5.764782	10.0	2252002.0	0.230591	Y



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Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

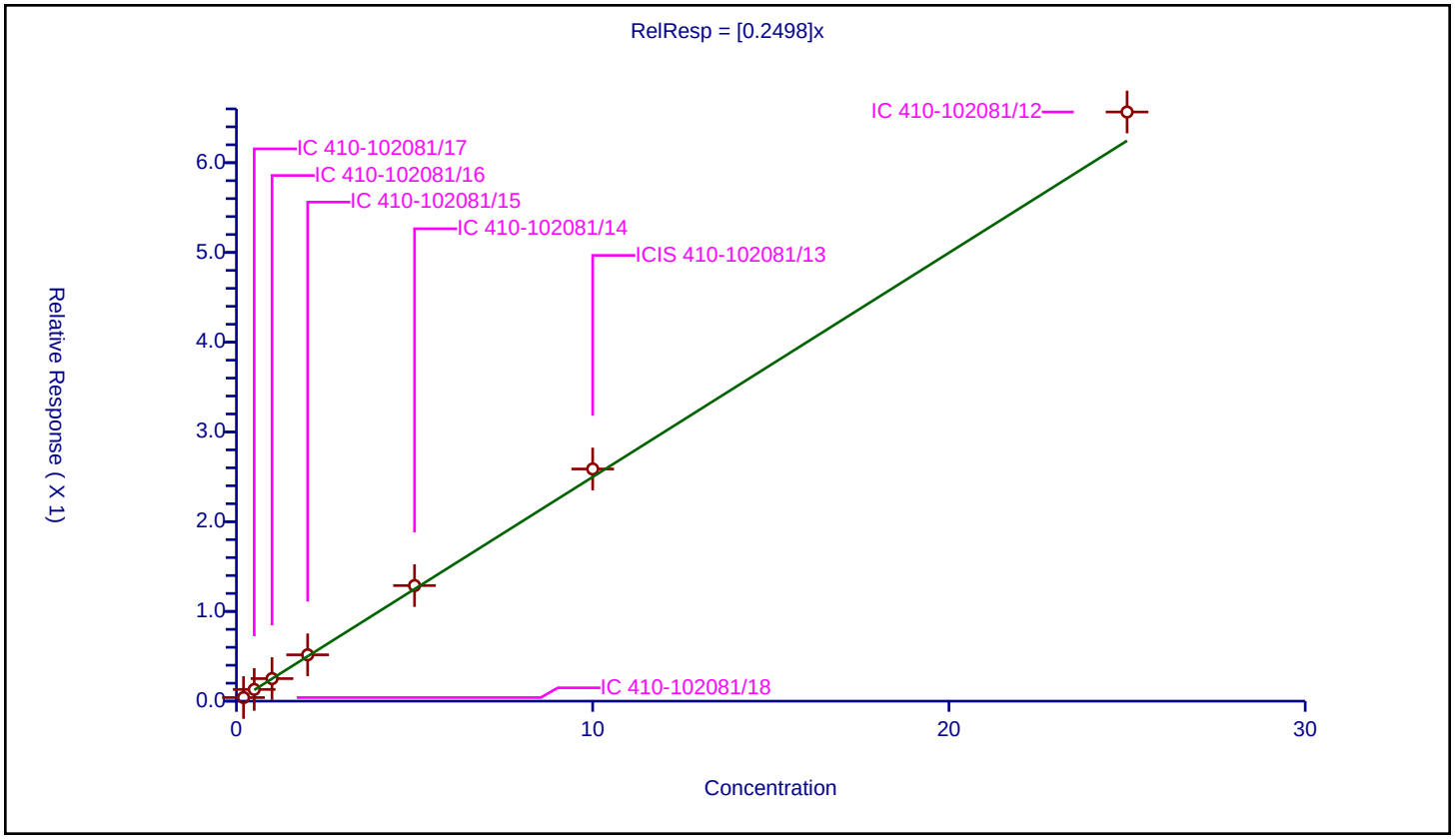
Curve Coefficients

Intercept:	0
Slope:	0.2498

Error Coefficients

Standard Error:	660000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.039858	10.0	2149149.0	0.199288	Y
2	IC 410-102081/17	0.5	0.130523	10.0	2186974.0	0.261046	Y
3	IC 410-102081/16	1.0	0.251294	10.0	2195473.0	0.251294	Y
4	IC 410-102081/15	2.0	0.516348	10.0	2201773.0	0.258174	Y
5	IC 410-102081/14	5.0	1.287904	10.0	2225895.0	0.257581	Y
6	ICIS 410-102081/13	10.0	2.587096	10.0	2227977.0	0.25871	Y
7	IC 410-102081/12	25.0	6.565305	10.0	2252002.0	0.262612	Y



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Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

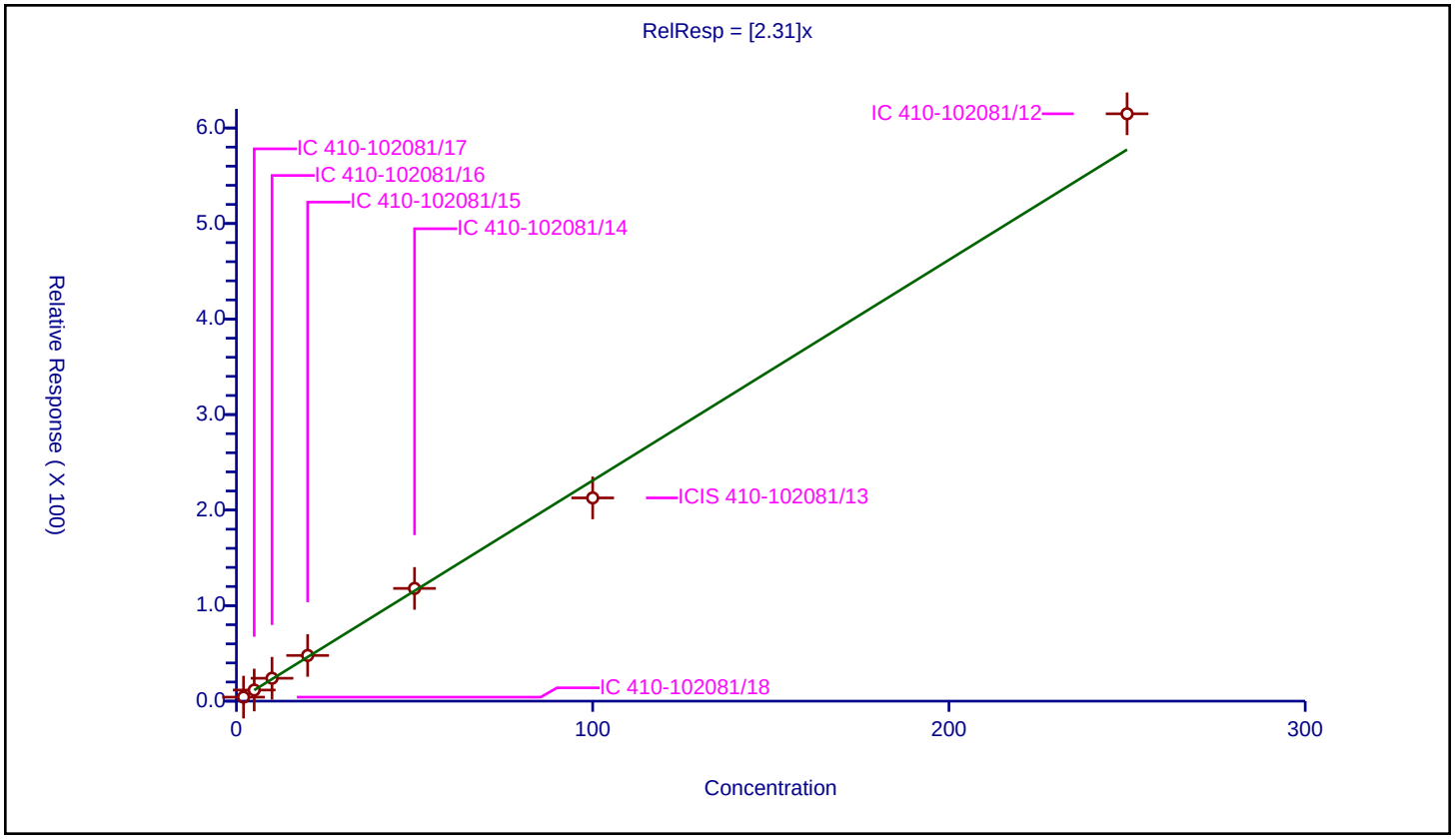
Curve Coefficients

Intercept:	0
Slope:	2.31

Error Coefficients

Standard Error:	871000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	4.207217	50.0	174165.0	2.103609	Y
2	IC 410-102081/17	5.0	11.641153	50.0	171087.0	2.328231	Y
3	IC 410-102081/16	10.0	23.963408	50.0	165663.0	2.396341	Y
4	IC 410-102081/15	20.0	47.828776	50.0	173036.0	2.391439	Y
5	IC 410-102081/14	50.0	118.02195	50.0	171477.0	2.360439	Y
6	ICIS 410-102081/13	100.0	212.76275	50.0	195338.0	2.127627	Y
7	IC 410-102081/12	250.0	614.875945	50.0	155617.0	2.459504	Y



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Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

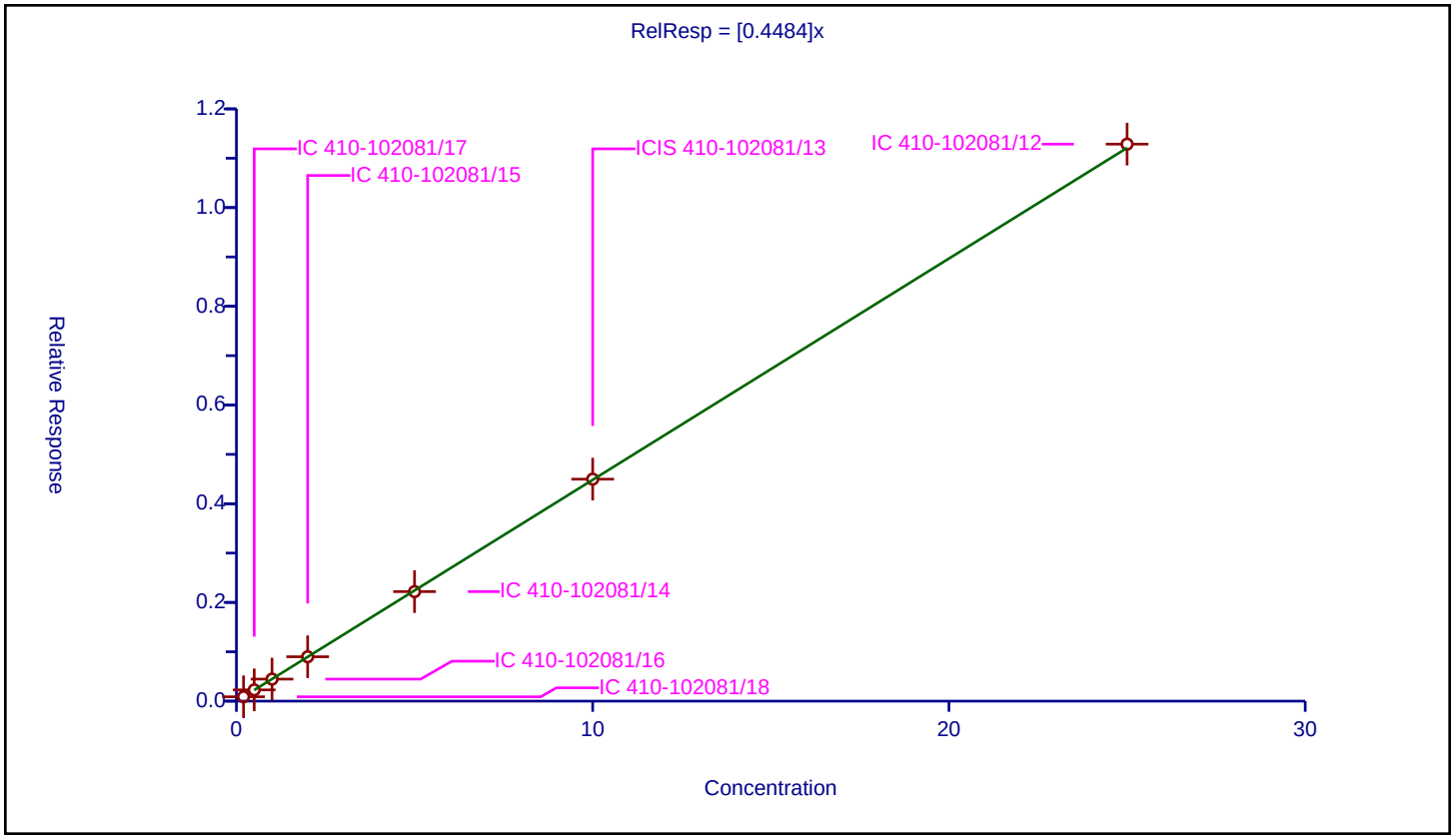
Curve Coefficients

Intercept:	0
Slope:	0.4484

Error Coefficients

Standard Error:	1140000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.088365	10.0	2149149.0	0.441826	Y
2	IC 410-102081/17	0.5	0.227785	10.0	2186974.0	0.45557	Y
3	IC 410-102081/16	1.0	0.446423	10.0	2195473.0	0.446423	Y
4	IC 410-102081/15	2.0	0.899552	10.0	2201773.0	0.449776	Y
5	IC 410-102081/14	5.0	2.219341	10.0	2225895.0	0.443868	Y
6	ICIS 410-102081/13	10.0	4.497834	10.0	2227977.0	0.449783	Y
7	IC 410-102081/12	25.0	11.285807	10.0	2252002.0	0.451432	Y



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Calibration / Ethyl bromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

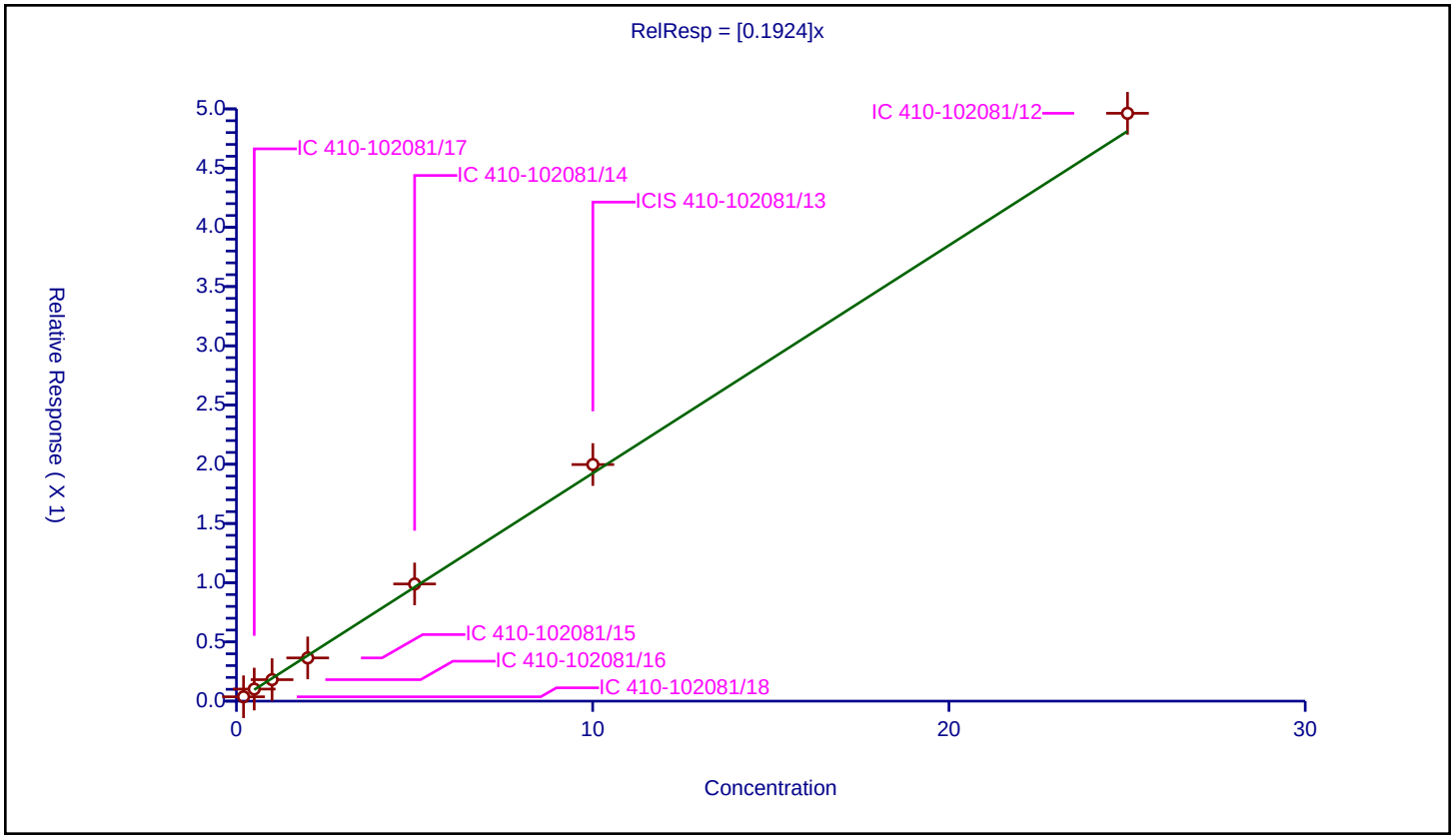
Curve Coefficients

Intercept:	0
Slope:	0.1924

Error Coefficients

Standard Error:	501000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.200096	0.03667	10.0	2149149.0	0.183264	Y
2	IC 410-102081/17	0.50024	0.102077	10.0	2186974.0	0.204056	Y
3	IC 410-102081/16	1.00048	0.181314	10.0	2195473.0	0.181227	Y
4	IC 410-102081/15	2.00096	0.364815	10.0	2201773.0	0.18232	Y
5	IC 410-102081/14	5.0024	0.989189	10.0	2225895.0	0.197743	Y
6	ICIS 410-102081/13	10.0048	1.997606	10.0	2227977.0	0.199665	Y
7	IC 410-102081/12	25.012	4.962784	10.0	2252002.0	0.198416	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

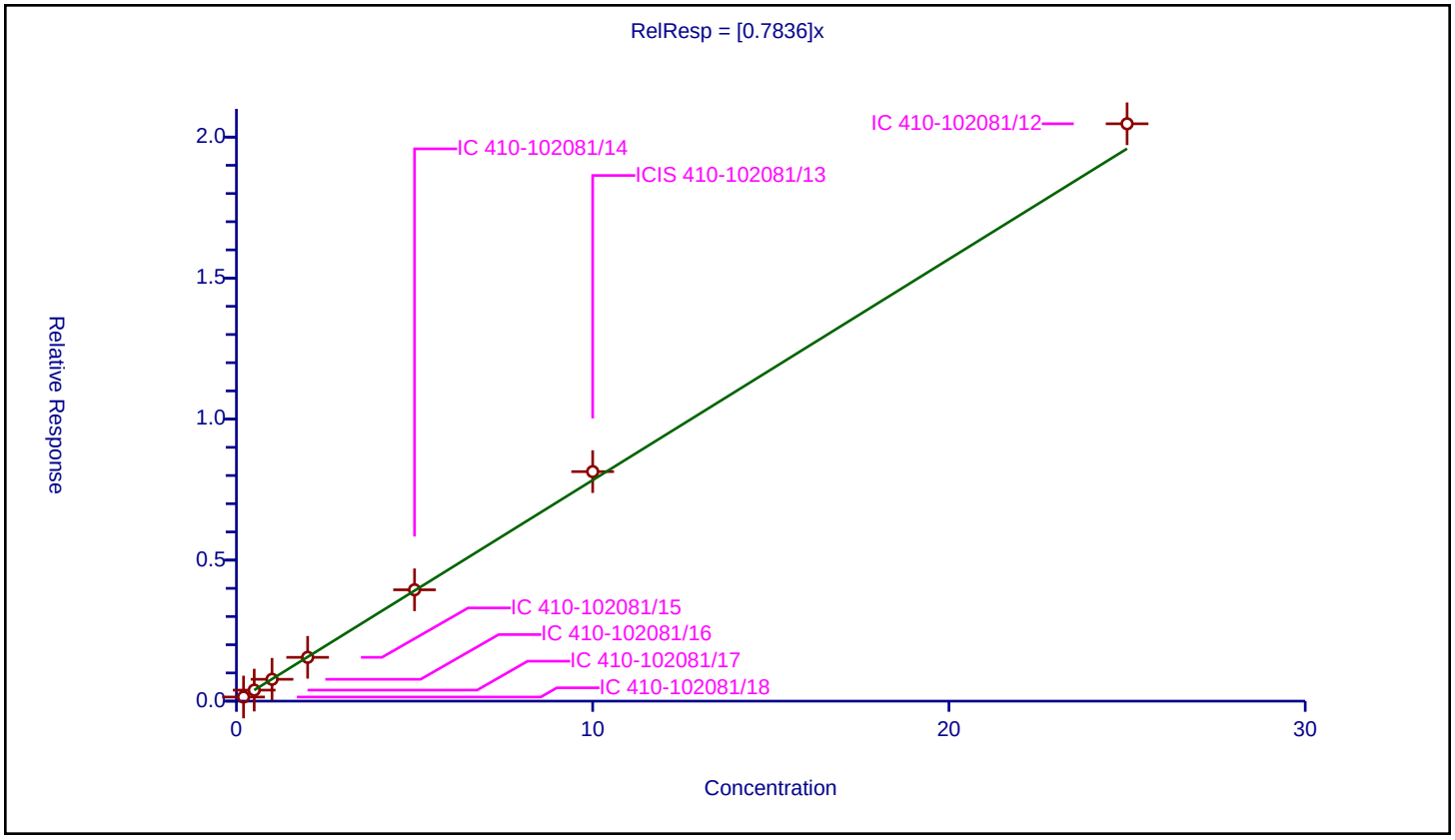
Curve Coefficients

Intercept:	0
Slope:	0.7836

Error Coefficients

Standard Error:	2060000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.145741	10.0	2149149.0	0.728707	Y
2	IC 410-102081/17	0.5	0.391326	10.0	2186974.0	0.782652	Y
3	IC 410-102081/16	1.0	0.77489	10.0	2195473.0	0.77489	Y
4	IC 410-102081/15	2.0	1.553407	10.0	2201773.0	0.776704	Y
5	IC 410-102081/14	5.0	3.948016	10.0	2225895.0	0.789603	Y
6	ICIS 410-102081/13	10.0	8.13863	10.0	2227977.0	0.813863	Y
7	IC 410-102081/12	25.0	20.472264	10.0	2252002.0	0.818891	Y



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Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

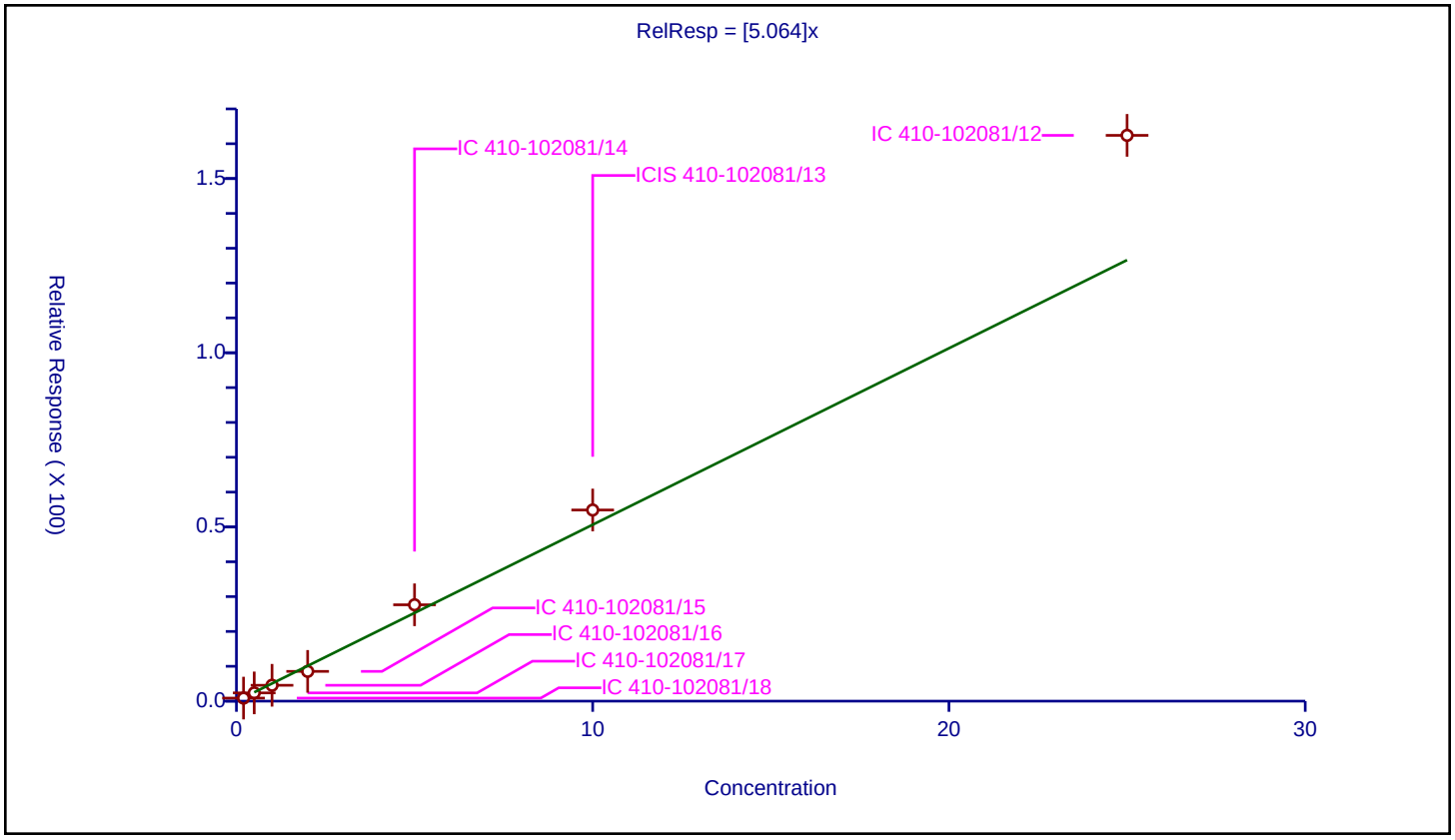
Curve Coefficients

Intercept:	0
Slope:	5.064

Error Coefficients

Standard Error:	228000
Relative Standard Error:	16.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.970

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.874745	50.0	174165.0	4.373726	Y
2	IC 410-102081/17	0.5	2.367801	50.0	171087.0	4.735602	Y
3	IC 410-102081/16	1.0	4.554427	50.0	165663.0	4.554427	Y
4	IC 410-102081/15	2.0	8.544465	50.0	173036.0	4.272232	Y
5	IC 410-102081/14	5.0	27.656479	50.0	171477.0	5.531296	Y
6	ICIS 410-102081/13	10.0	54.861829	50.0	195338.0	5.486183	Y
7	IC 410-102081/12	25.0	162.399674	50.0	155617.0	6.495987	Y



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Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

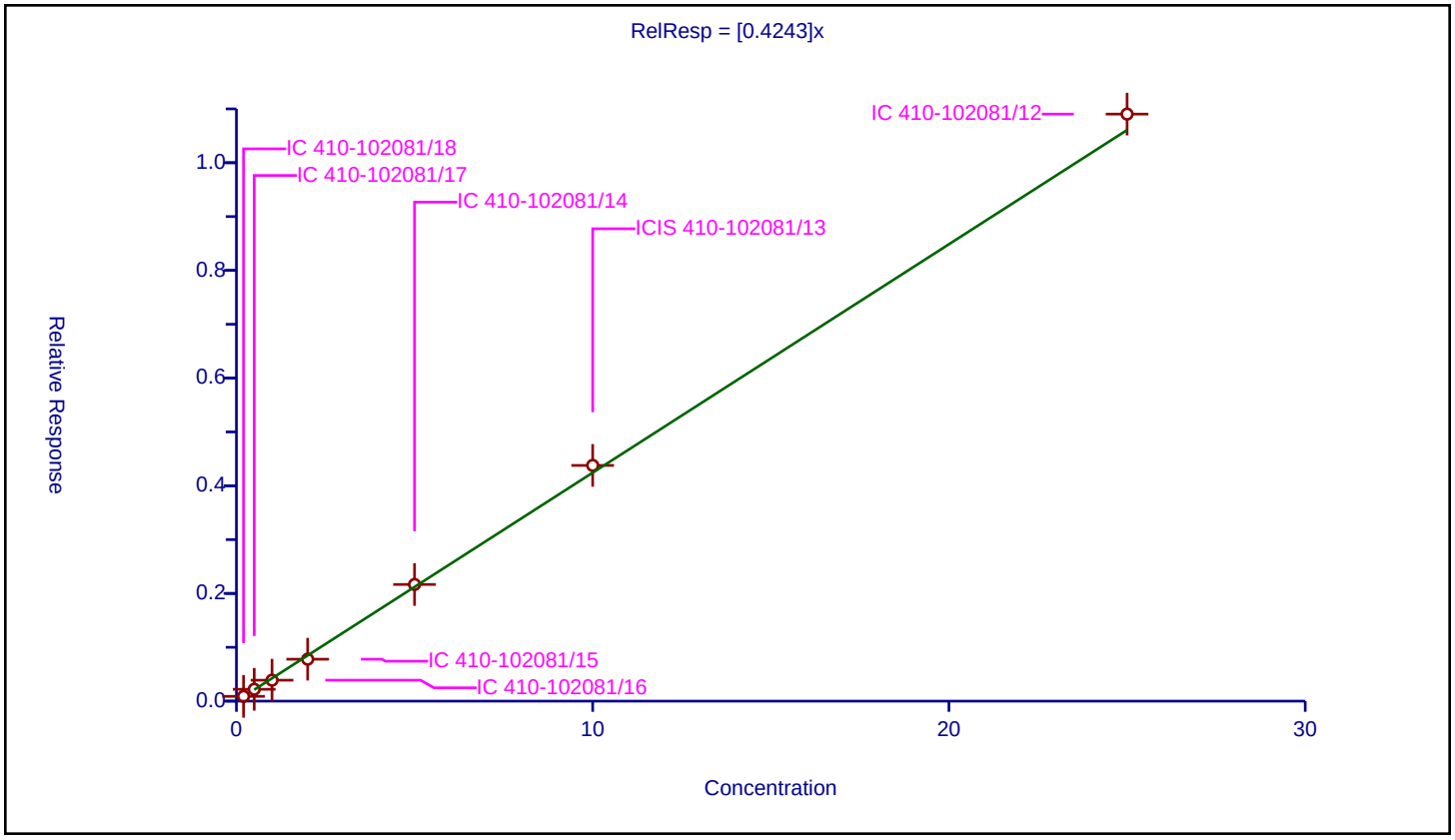
Curve Coefficients

Intercept:	0
Slope:	0.4243

Error Coefficients

Standard Error:	1100000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.08864	10.0	2149149.0	0.443199	Y
2	IC 410-102081/17	0.5	0.2204	10.0	2186974.0	0.440801	Y
3	IC 410-102081/16	1.0	0.389237	10.0	2195473.0	0.389237	Y
4	IC 410-102081/15	2.0	0.779104	10.0	2201773.0	0.389552	Y
5	IC 410-102081/14	5.0	2.166737	10.0	2225895.0	0.433347	Y
6	ICIS 410-102081/13	10.0	4.377994	10.0	2227977.0	0.437799	Y
7	IC 410-102081/12	25.0	10.903538	10.0	2252002.0	0.436142	Y



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Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

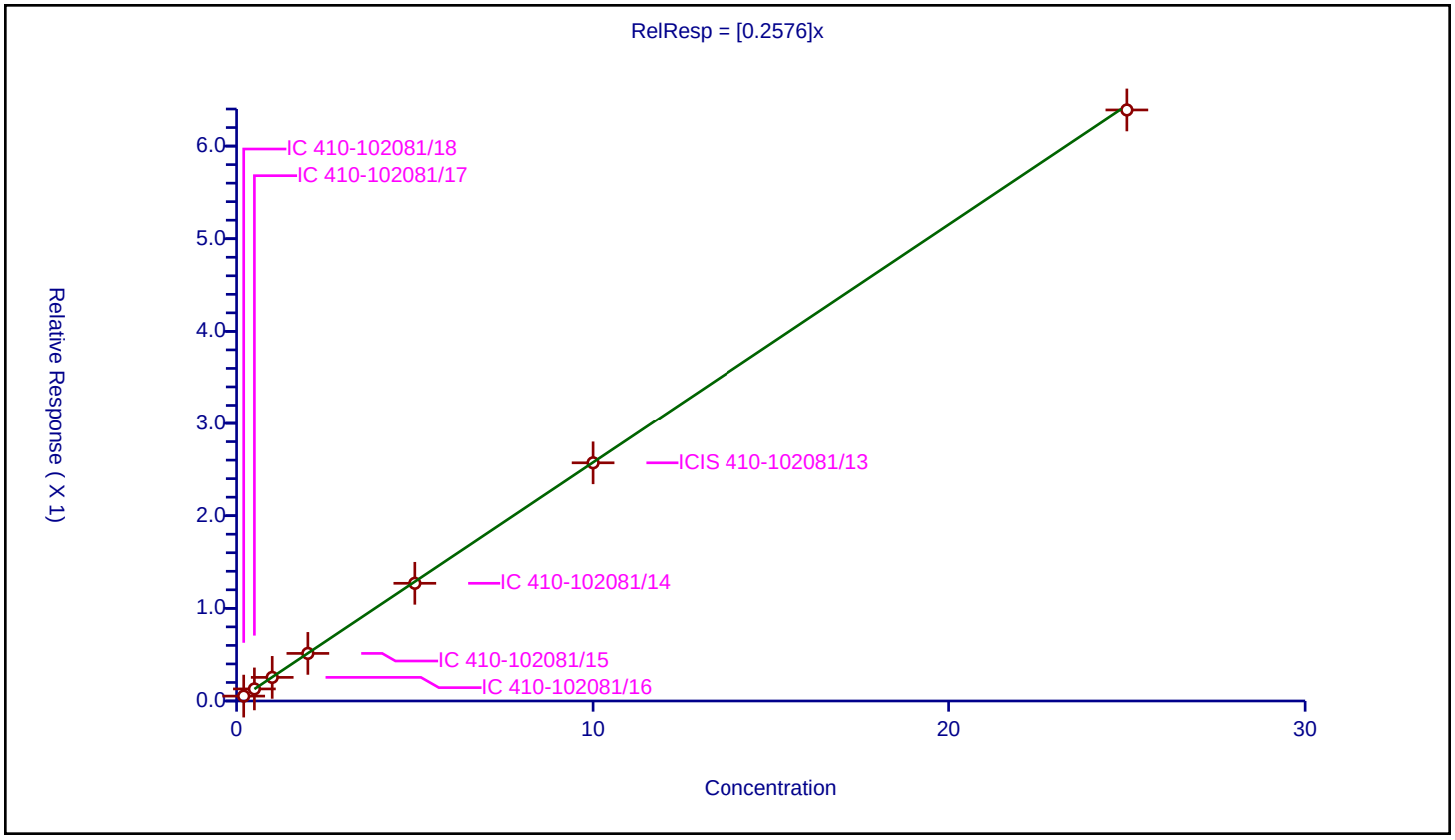
Curve Coefficients

Intercept:	0
Slope:	0.2576

Error Coefficients

Standard Error:	645000
Relative Standard Error:	1.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.052881	10.0	2149149.0	0.264407	Y
2	IC 410-102081/17	0.5	0.130299	10.0	2186974.0	0.260598	Y
3	IC 410-102081/16	1.0	0.254792	10.0	2195473.0	0.254792	Y
4	IC 410-102081/15	2.0	0.513504	10.0	2201773.0	0.256752	Y
5	IC 410-102081/14	5.0	1.270379	10.0	2225895.0	0.254076	Y
6	ICIS 410-102081/13	10.0	2.570866	10.0	2227977.0	0.257087	Y
7	IC 410-102081/12	25.0	6.389834	10.0	2252002.0	0.255593	Y



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Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

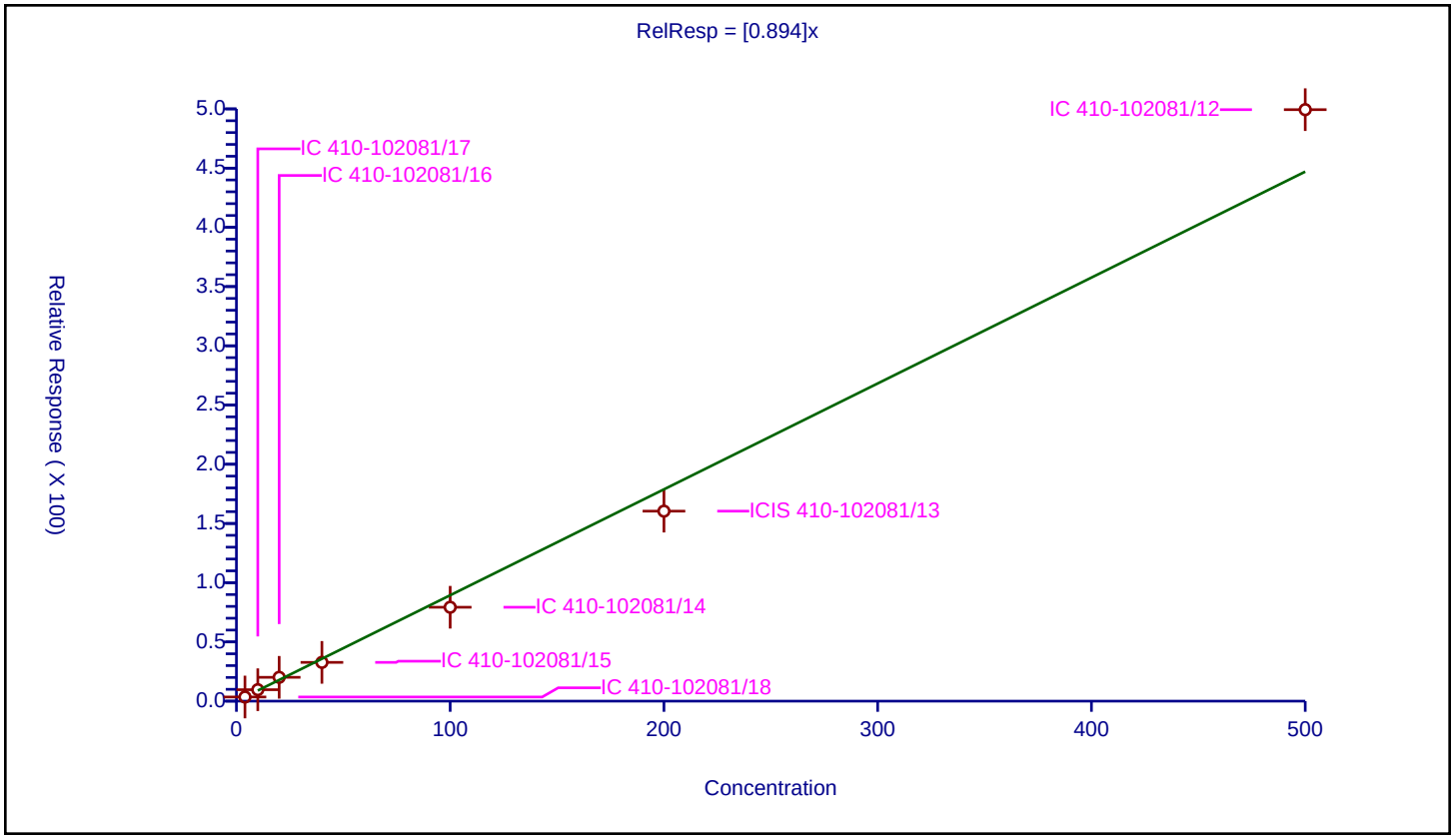
Curve Coefficients

Intercept:	0
Slope:	0.894

Error Coefficients

Standard Error:	695000
Relative Standard Error:	10.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	4.0	3.50099	50.0	174165.0	0.875248	Y
2	IC 410-102081/17	10.0	9.650646	50.0	171087.0	0.965065	Y
3	IC 410-102081/16	20.0	20.11463	50.0	165663.0	1.005732	Y
4	IC 410-102081/15	40.0	32.737696	50.0	173036.0	0.818442	Y
5	IC 410-102081/14	100.0	79.273022	50.0	171477.0	0.79273	Y
6	ICIS 410-102081/13	200.0	160.394547	50.0	195338.0	0.801973	Y
7	IC 410-102081/12	500.0	499.345187	50.0	155617.0	0.99869	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

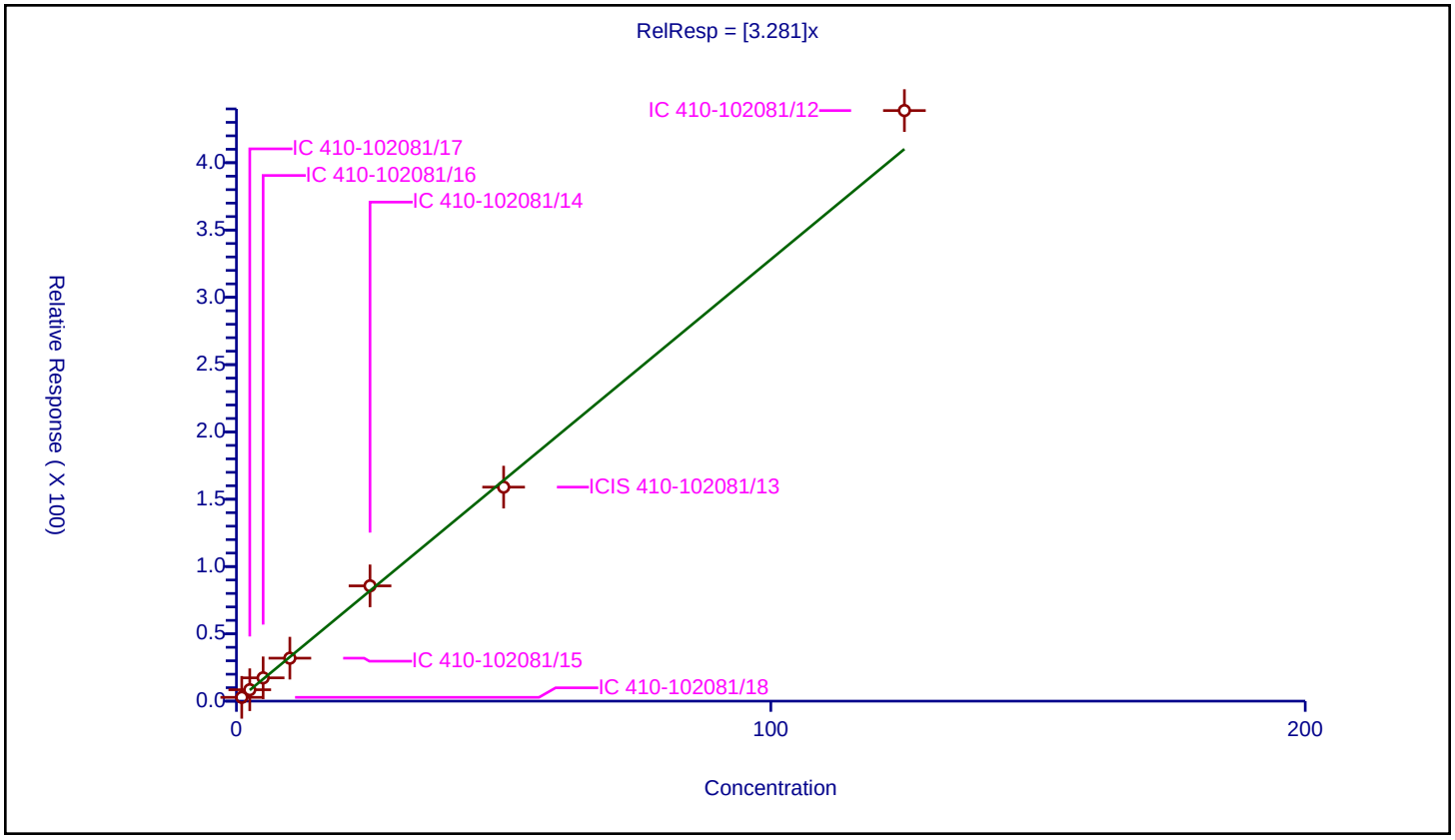
Curve Coefficients

Intercept:	0
Slope:	3.281

Error Coefficients

Standard Error:	626000
Relative Standard Error:	7.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	1.0	2.811127	50.0	174165.0	2.811127	Y
2	IC 410-102081/17	2.5	8.470836	50.0	171087.0	3.388335	Y
3	IC 410-102081/16	5.0	17.30652	50.0	165663.0	3.461304	Y
4	IC 410-102081/15	10.0	31.918214	50.0	173036.0	3.191821	Y
5	IC 410-102081/14	25.0	85.654344	50.0	171477.0	3.426174	Y
6	ICIS 410-102081/13	50.0	158.994666	50.0	195338.0	3.179893	Y
7	IC 410-102081/12	125.0	438.757012	50.0	155617.0	3.510056	Y



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Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

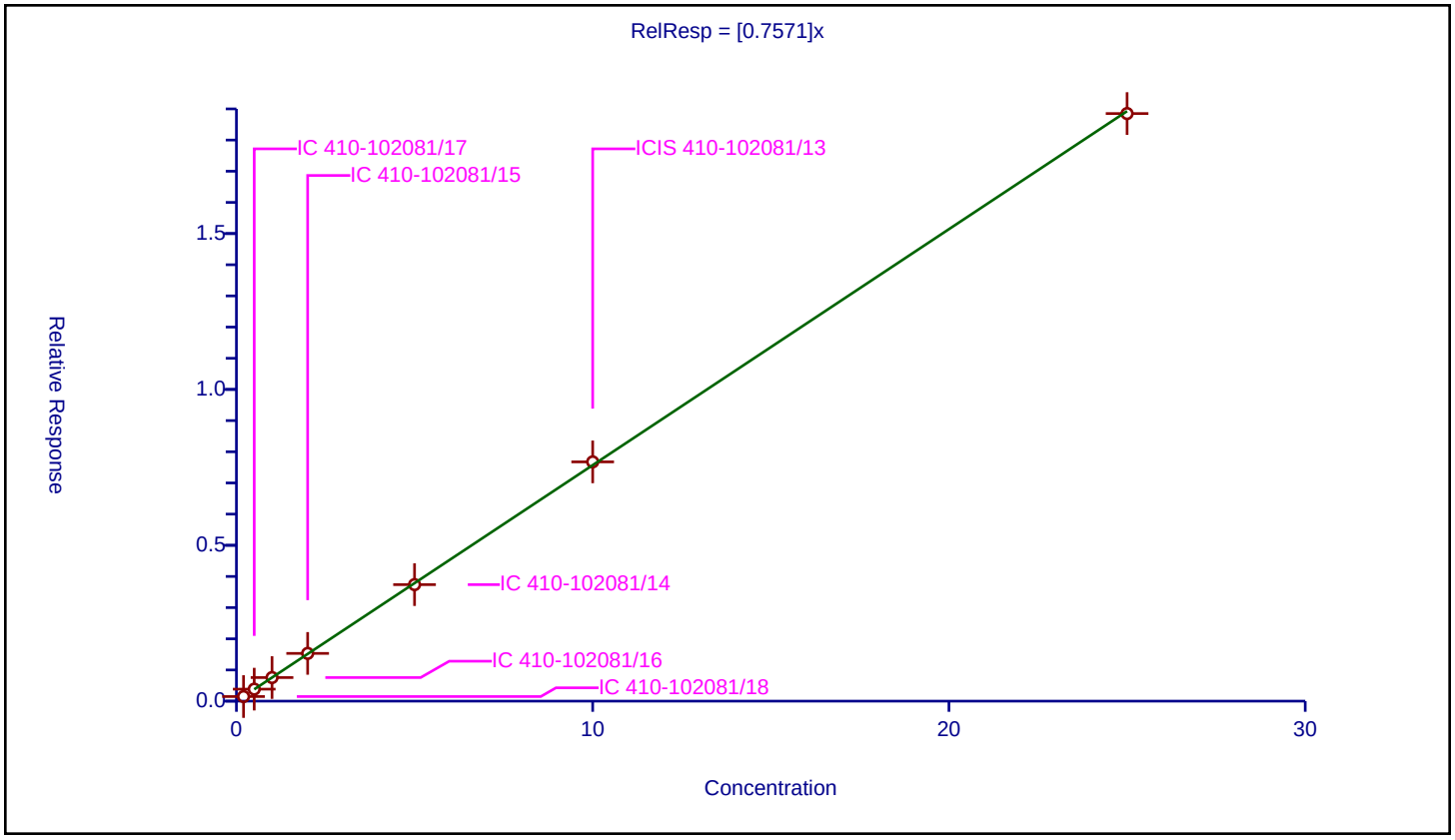
Curve Coefficients

Intercept:	0
Slope:	0.7571

Error Coefficients

Standard Error:	1910000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.147696	10.0	2149149.0	0.738478	Y
2	IC 410-102081/17	0.5	0.384842	10.0	2186974.0	0.769685	Y
3	IC 410-102081/16	1.0	0.756297	10.0	2195473.0	0.756297	Y
4	IC 410-102081/15	2.0	1.531961	10.0	2201773.0	0.76598	Y
5	IC 410-102081/14	5.0	3.737413	10.0	2225895.0	0.747483	Y
6	ICIS 410-102081/13	10.0	7.676323	10.0	2227977.0	0.767632	Y
7	IC 410-102081/12	25.0	18.850196	10.0	2252002.0	0.754008	Y



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Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

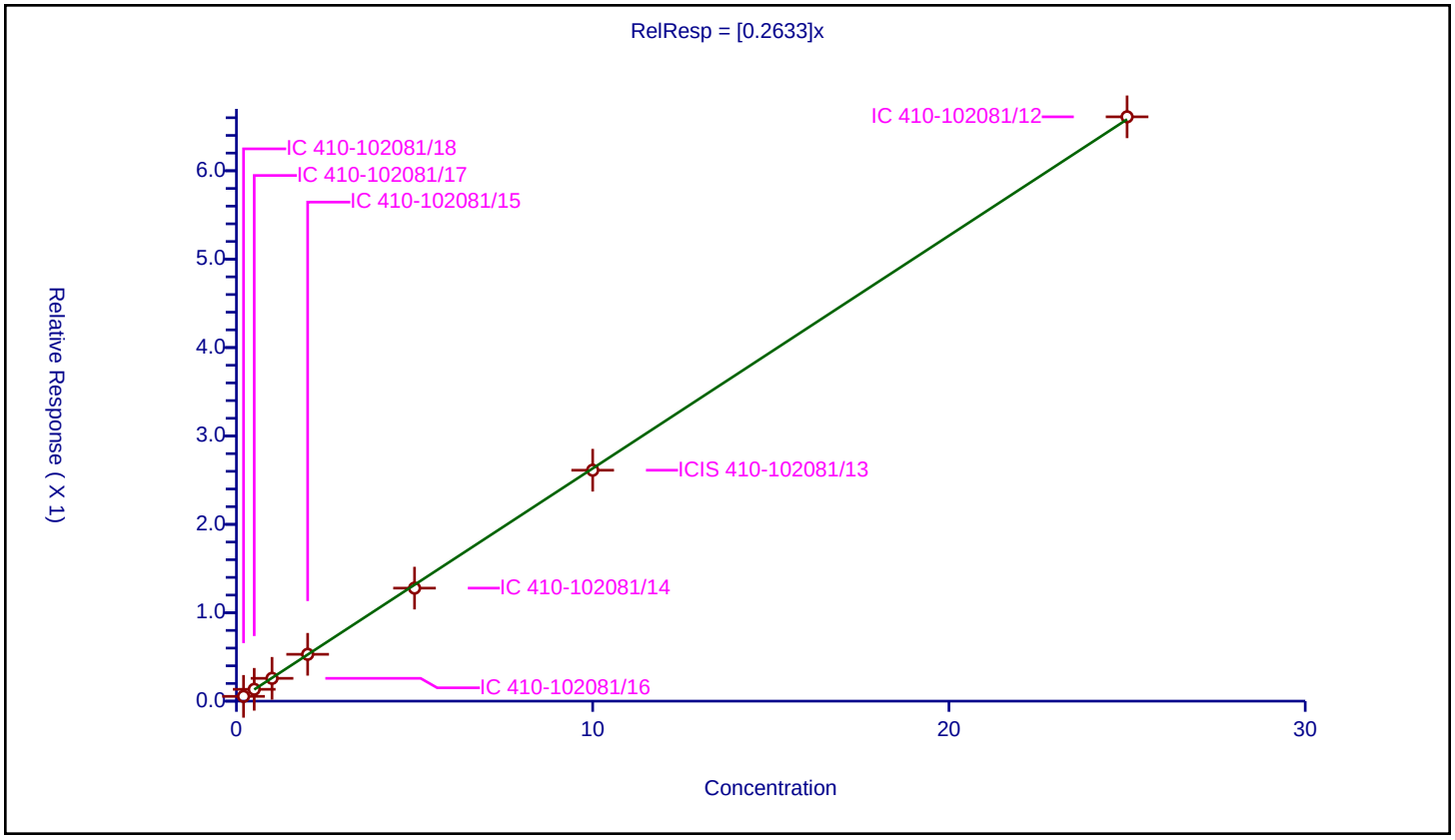
Curve Coefficients

Intercept:	0
Slope:	0.2633

Error Coefficients

Standard Error:	665000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.054105	10.0	2149149.0	0.270526	Y
2	IC 410-102081/17	0.5	0.133993	10.0	2186974.0	0.267987	Y
3	IC 410-102081/16	1.0	0.258199	10.0	2195473.0	0.258199	Y
4	IC 410-102081/15	2.0	0.529746	10.0	2201773.0	0.264873	Y
5	IC 410-102081/14	5.0	1.278461	10.0	2225895.0	0.255692	Y
6	ICIS 410-102081/13	10.0	2.612383	10.0	2227977.0	0.261238	Y
7	IC 410-102081/12	25.0	6.610198	10.0	2252002.0	0.264408	Y



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Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

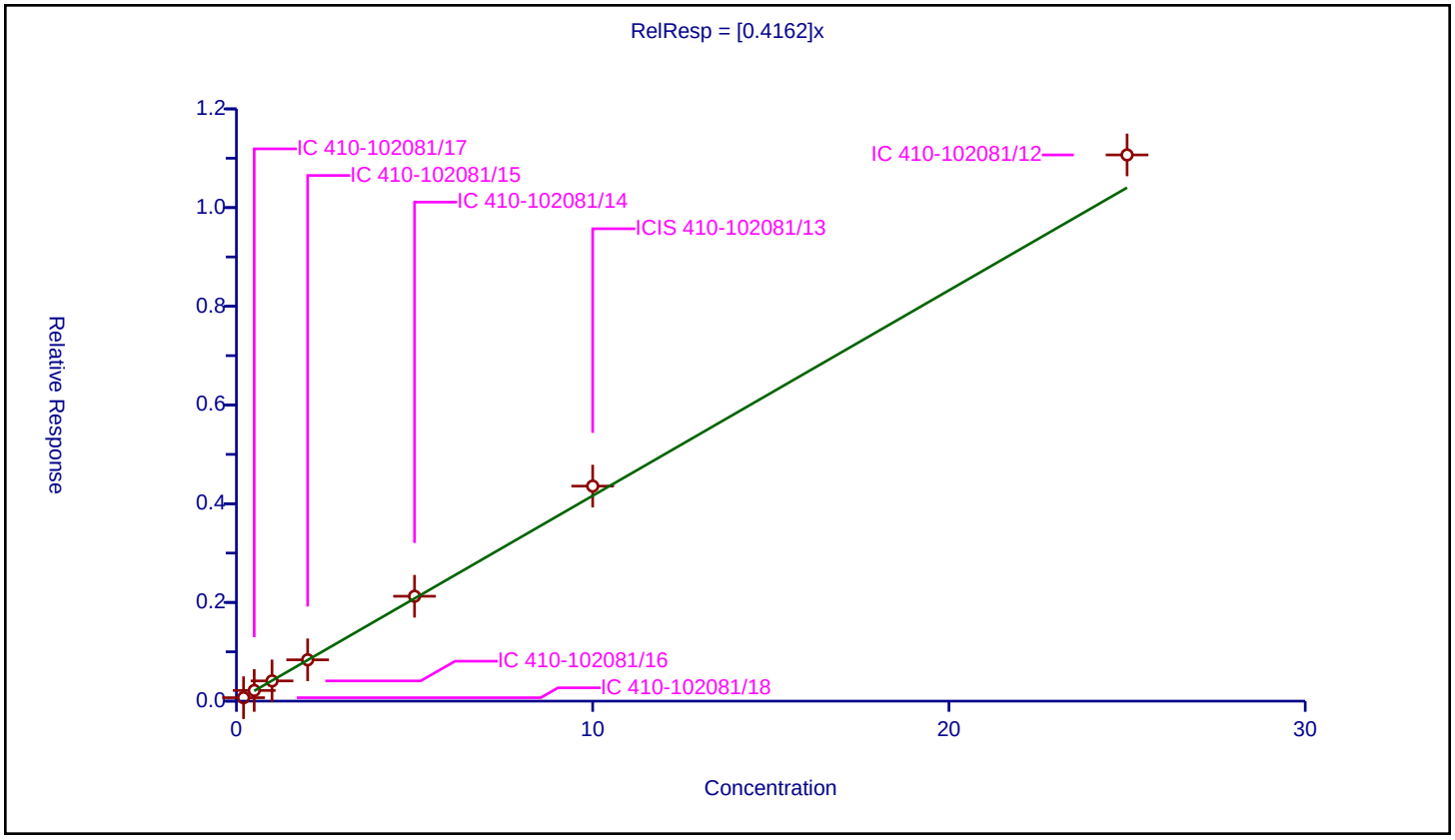
Curve Coefficients

Intercept:	0
Slope:	0.4162

Error Coefficients

Standard Error:	1110000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.069707	10.0	2149149.0	0.348533	Y
2	IC 410-102081/17	0.5	0.216372	10.0	2186974.0	0.432744	Y
3	IC 410-102081/16	1.0	0.409834	10.0	2195473.0	0.409834	Y
4	IC 410-102081/15	2.0	0.837362	10.0	2201773.0	0.418681	Y
5	IC 410-102081/14	5.0	2.125168	10.0	2225895.0	0.425034	Y
6	ICIS 410-102081/13	10.0	4.357006	10.0	2227977.0	0.435701	Y
7	IC 410-102081/12	25.0	11.067304	10.0	2252002.0	0.442692	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

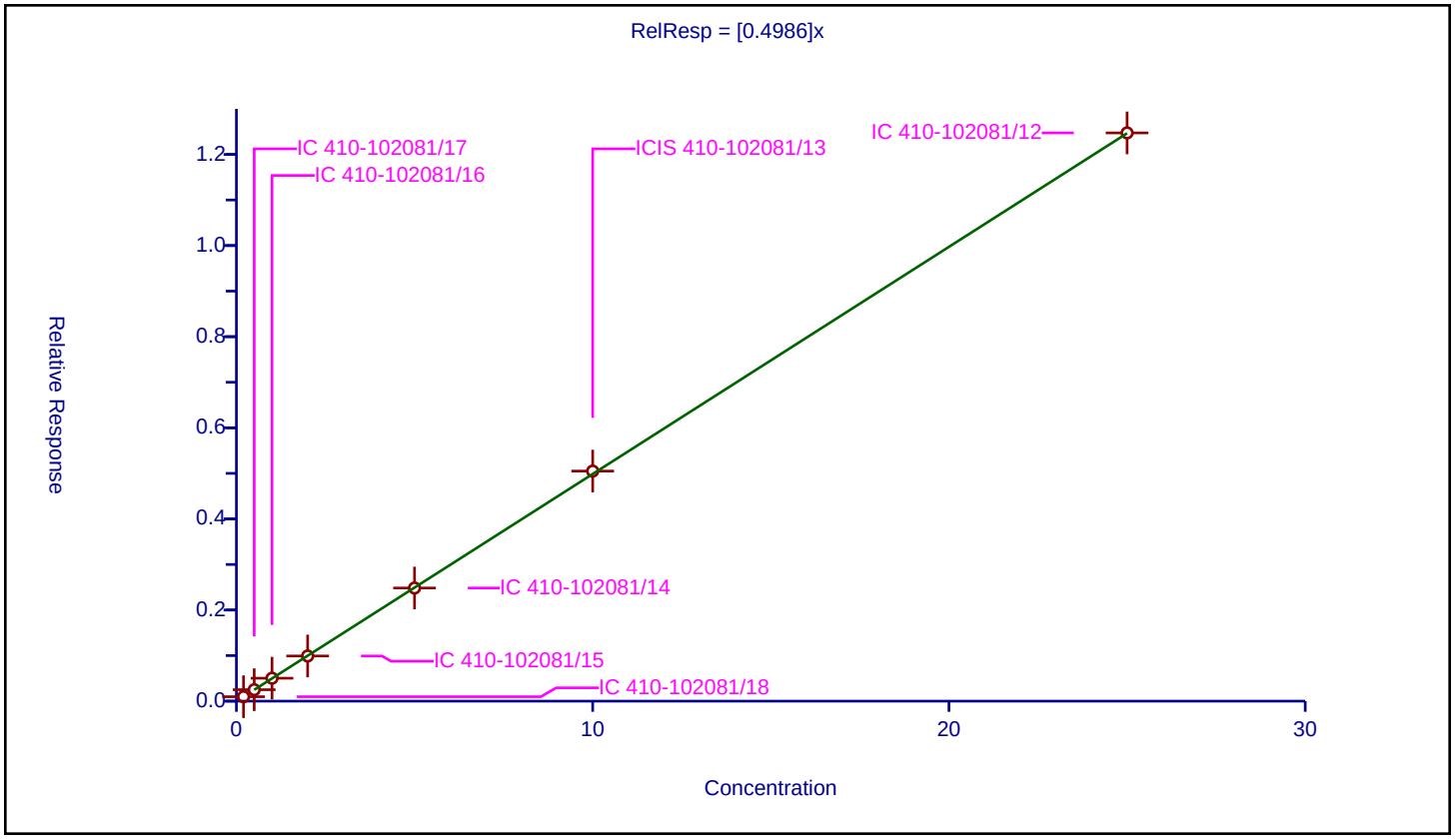
Curve Coefficients

Intercept:	0
Slope:	0.4986

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	1.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.097597	10.0	2149149.0	0.487984	Y
2	IC 410-102081/17	0.5	0.251059	10.0	2186974.0	0.502118	Y
3	IC 410-102081/16	1.0	0.503673	10.0	2195473.0	0.503673	Y
4	IC 410-102081/15	2.0	0.991437	10.0	2201773.0	0.495719	Y
5	IC 410-102081/14	5.0	2.483203	10.0	2225895.0	0.496641	Y
6	ICIS 410-102081/13	10.0	5.049518	10.0	2227977.0	0.504952	Y
7	IC 410-102081/12	25.0	12.472413	10.0	2252002.0	0.498897	Y



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Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

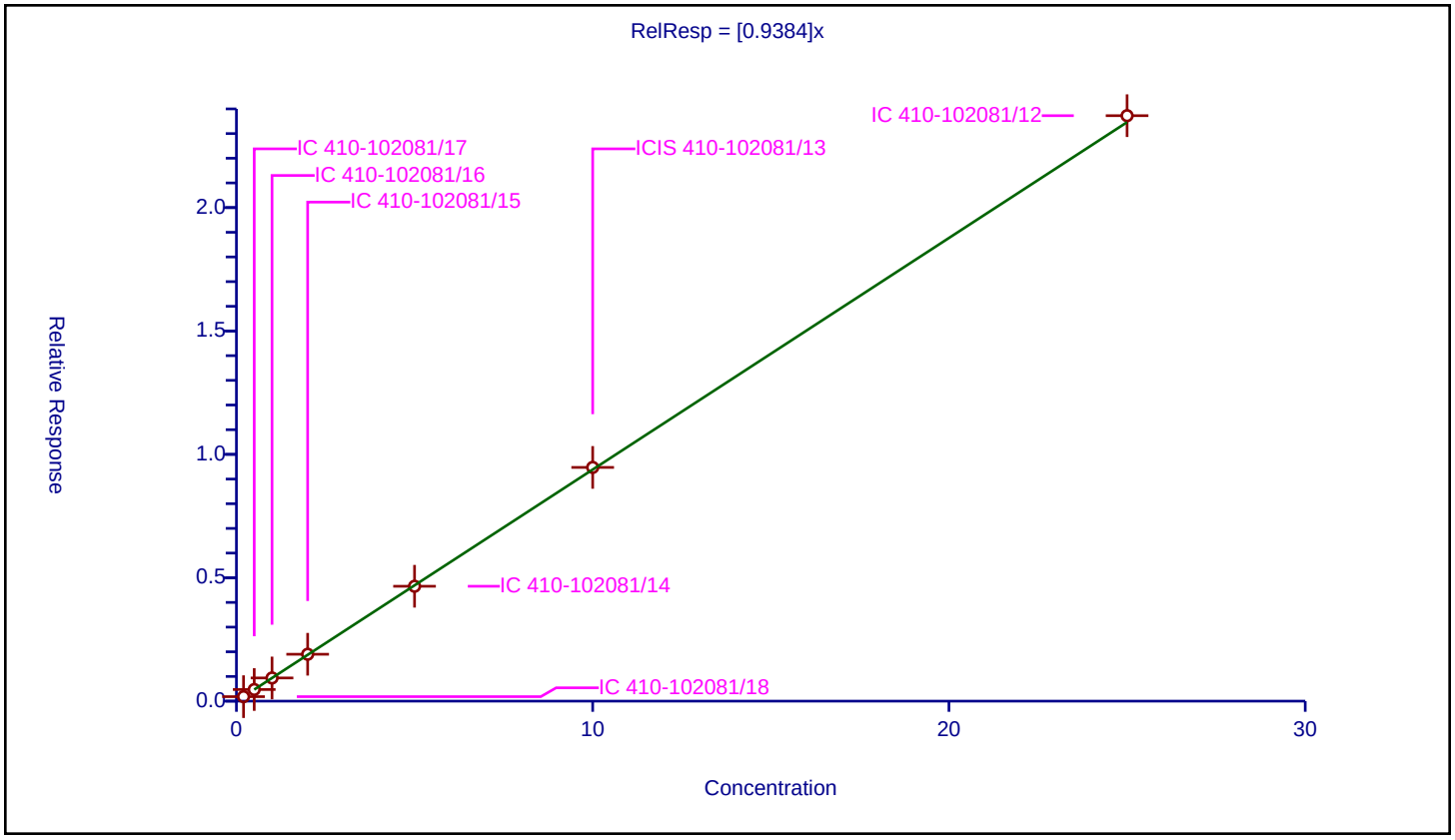
Curve Coefficients

Intercept:	0
Slope:	0.9384

Error Coefficients

Standard Error:	2390000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.181872	10.0	2149149.0	0.90936	Y
2	IC 410-102081/17	0.5	0.471341	10.0	2186974.0	0.942682	Y
3	IC 410-102081/16	1.0	0.939588	10.0	2195473.0	0.939588	Y
4	IC 410-102081/15	2.0	1.90045	10.0	2201773.0	0.950225	Y
5	IC 410-102081/14	5.0	4.655296	10.0	2225895.0	0.931059	Y
6	ICIS 410-102081/13	10.0	9.471251	10.0	2227977.0	0.947125	Y
7	IC 410-102081/12	25.0	23.724806	10.0	2252002.0	0.948992	Y



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Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

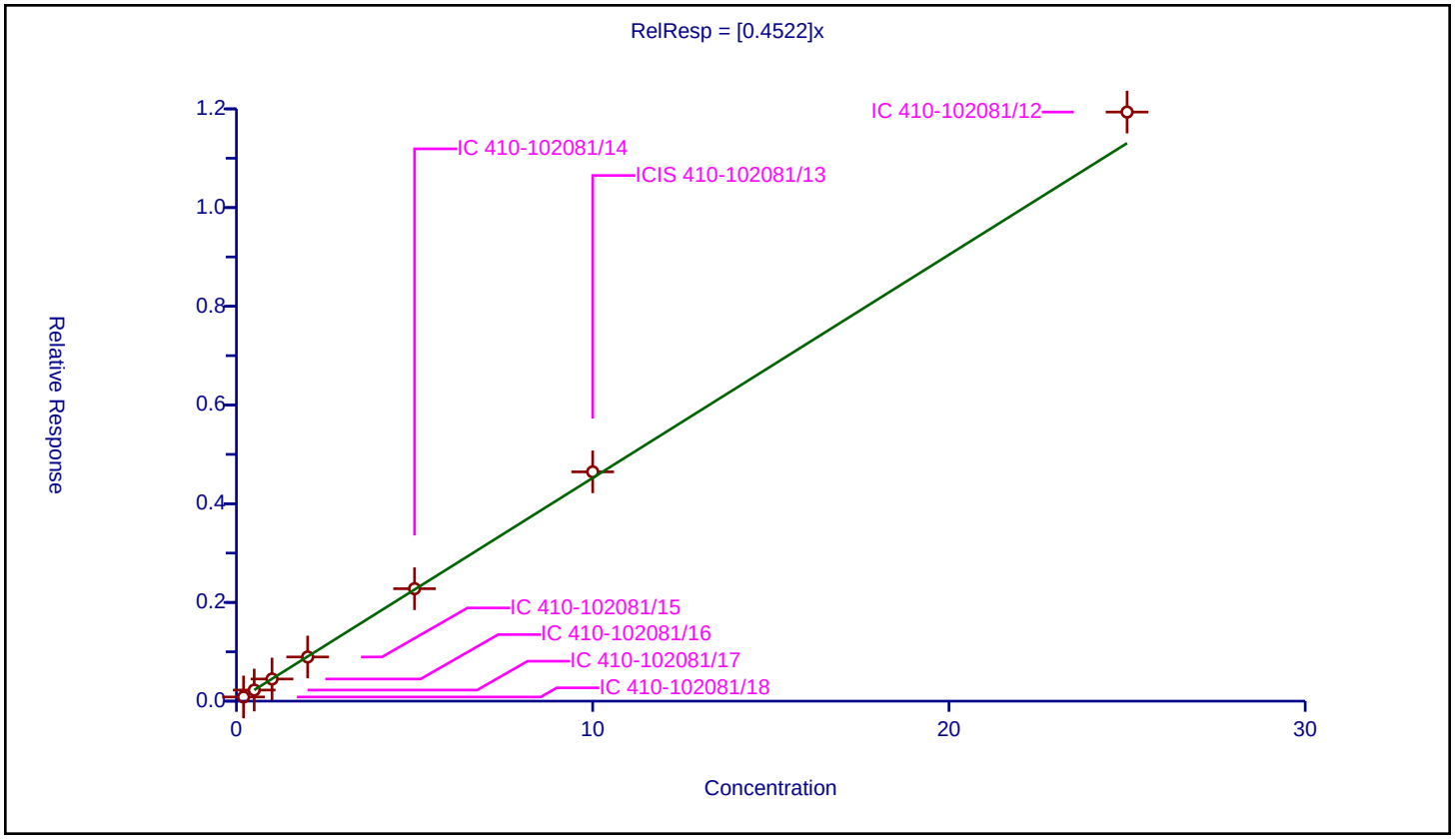
Curve Coefficients

Intercept:	0
Slope:	0.4522

Error Coefficients

Standard Error:	1200000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.08441	10.0	2149149.0	0.422051	Y
2	IC 410-102081/17	0.5	0.224758	10.0	2186974.0	0.449516	Y
3	IC 410-102081/16	1.0	0.448614	10.0	2195473.0	0.448614	Y
4	IC 410-102081/15	2.0	0.895233	10.0	2201773.0	0.447617	Y
5	IC 410-102081/14	5.0	2.27832	10.0	2225895.0	0.455664	Y
6	ICIS 410-102081/13	10.0	4.645658	10.0	2227977.0	0.464566	Y
7	IC 410-102081/12	25.0	11.935935	10.0	2252002.0	0.477437	Y



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Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

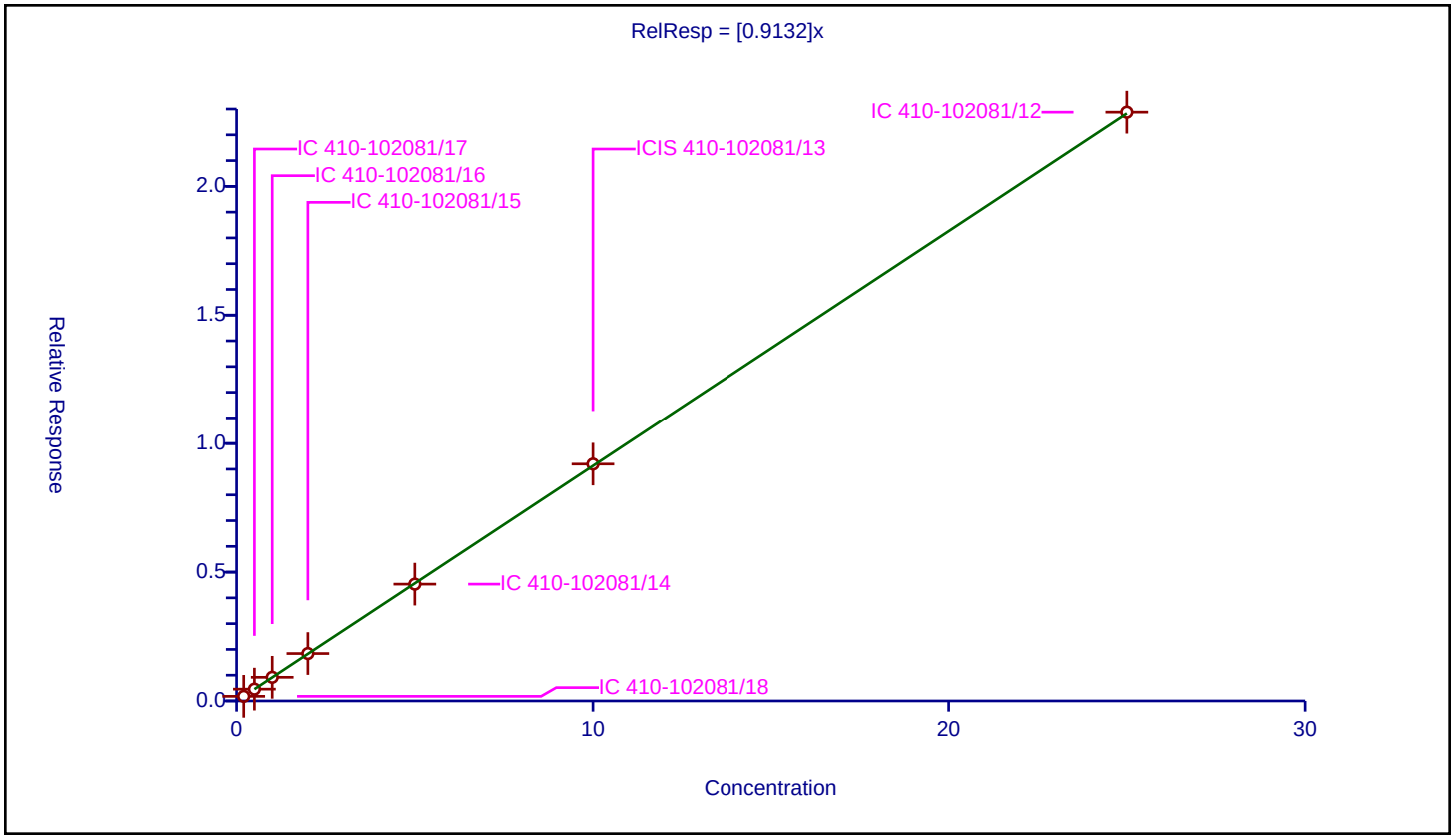
Curve Coefficients

Intercept:	0
Slope:	0.9132

Error Coefficients

Standard Error:	2310000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.179062	10.0	2149149.0	0.895308	Y
2	IC 410-102081/17	0.5	0.458323	10.0	2186974.0	0.916646	Y
3	IC 410-102081/16	1.0	0.918381	10.0	2195473.0	0.918381	Y
4	IC 410-102081/15	2.0	1.839404	10.0	2201773.0	0.919702	Y
5	IC 410-102081/14	5.0	4.534288	10.0	2225895.0	0.906858	Y
6	ICIS 410-102081/13	10.0	9.201091	10.0	2227977.0	0.920109	Y
7	IC 410-102081/12	25.0	22.878057	10.0	2252002.0	0.915122	Y



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Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

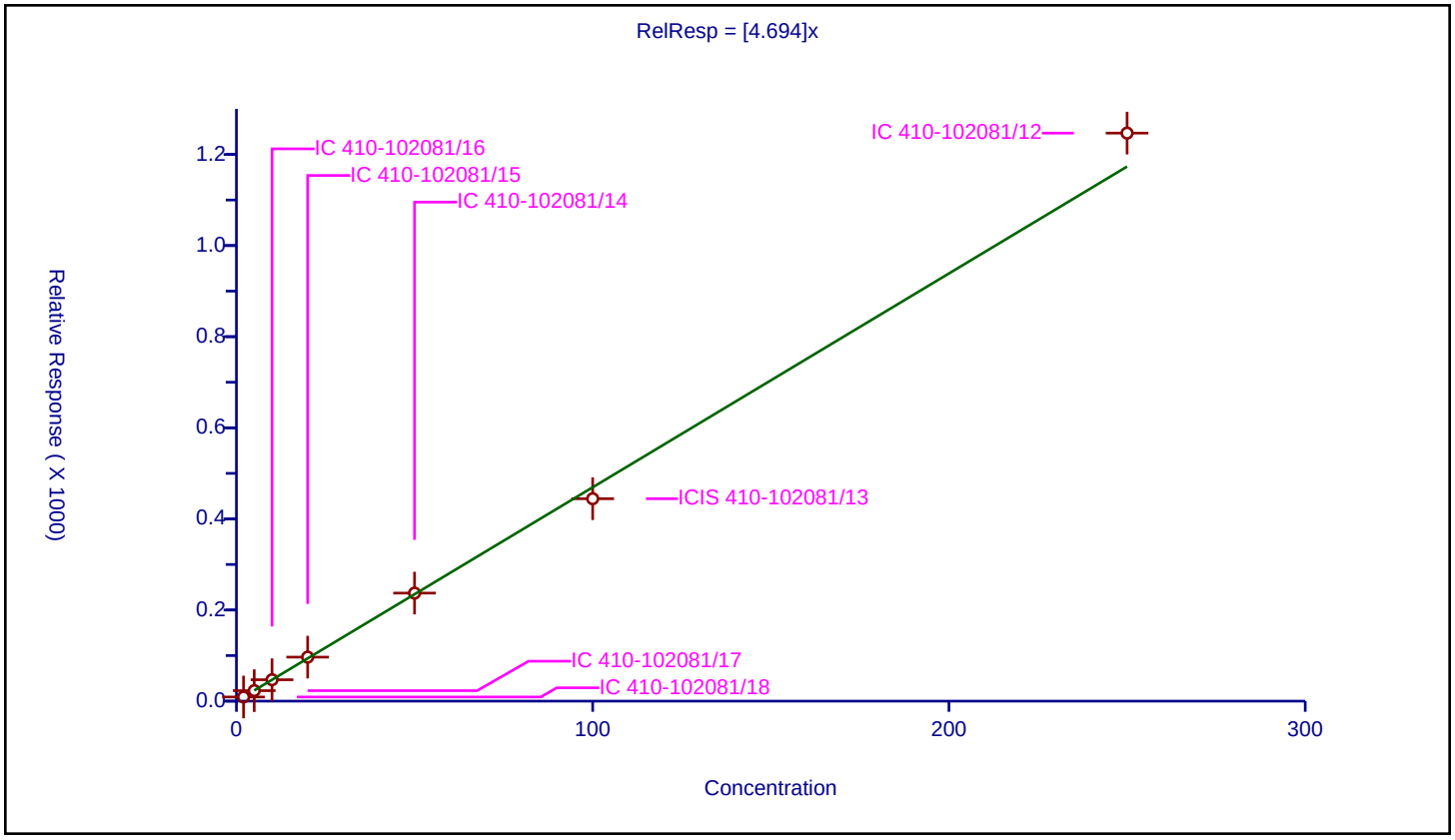
Curve Coefficients

Intercept:	0
Slope:	4.694

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	3.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	9.098556	50.0	174165.0	4.549278	Y
2	IC 410-102081/17	5.0	23.030096	50.0	171087.0	4.606019	Y
3	IC 410-102081/16	10.0	46.973977	50.0	165663.0	4.697398	Y
4	IC 410-102081/15	20.0	96.587993	50.0	173036.0	4.8294	Y
5	IC 410-102081/14	50.0	237.147839	50.0	171477.0	4.742957	Y
6	ICIS 410-102081/13	100.0	444.358497	50.0	195338.0	4.443585	Y
7	IC 410-102081/12	250.0	1246.880161	50.0	155617.0	4.987521	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

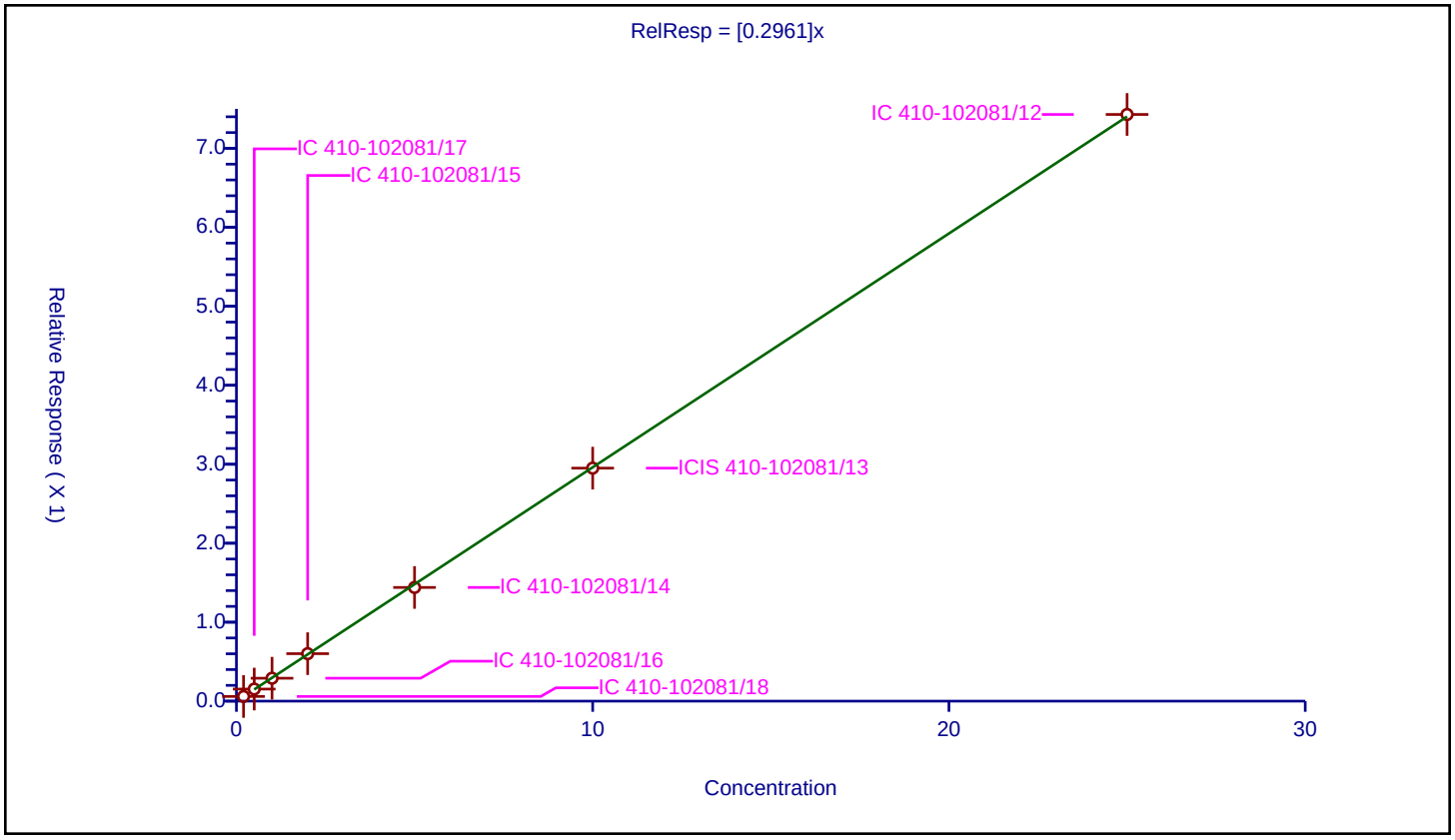
Curve Coefficients

Intercept:	0
Slope:	0.2961

Error Coefficients

Standard Error:	748000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.059126	10.0	2149149.0	0.295629	Y
2	IC 410-102081/17	0.5	0.153033	10.0	2186974.0	0.306067	Y
3	IC 410-102081/16	1.0	0.290243	10.0	2195473.0	0.290243	Y
4	IC 410-102081/15	2.0	0.601352	10.0	2201773.0	0.300676	Y
5	IC 410-102081/14	5.0	1.439619	10.0	2225895.0	0.287924	Y
6	ICIS 410-102081/13	10.0	2.950762	10.0	2227977.0	0.295076	Y
7	IC 410-102081/12	25.0	7.429389	10.0	2252002.0	0.297176	Y



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

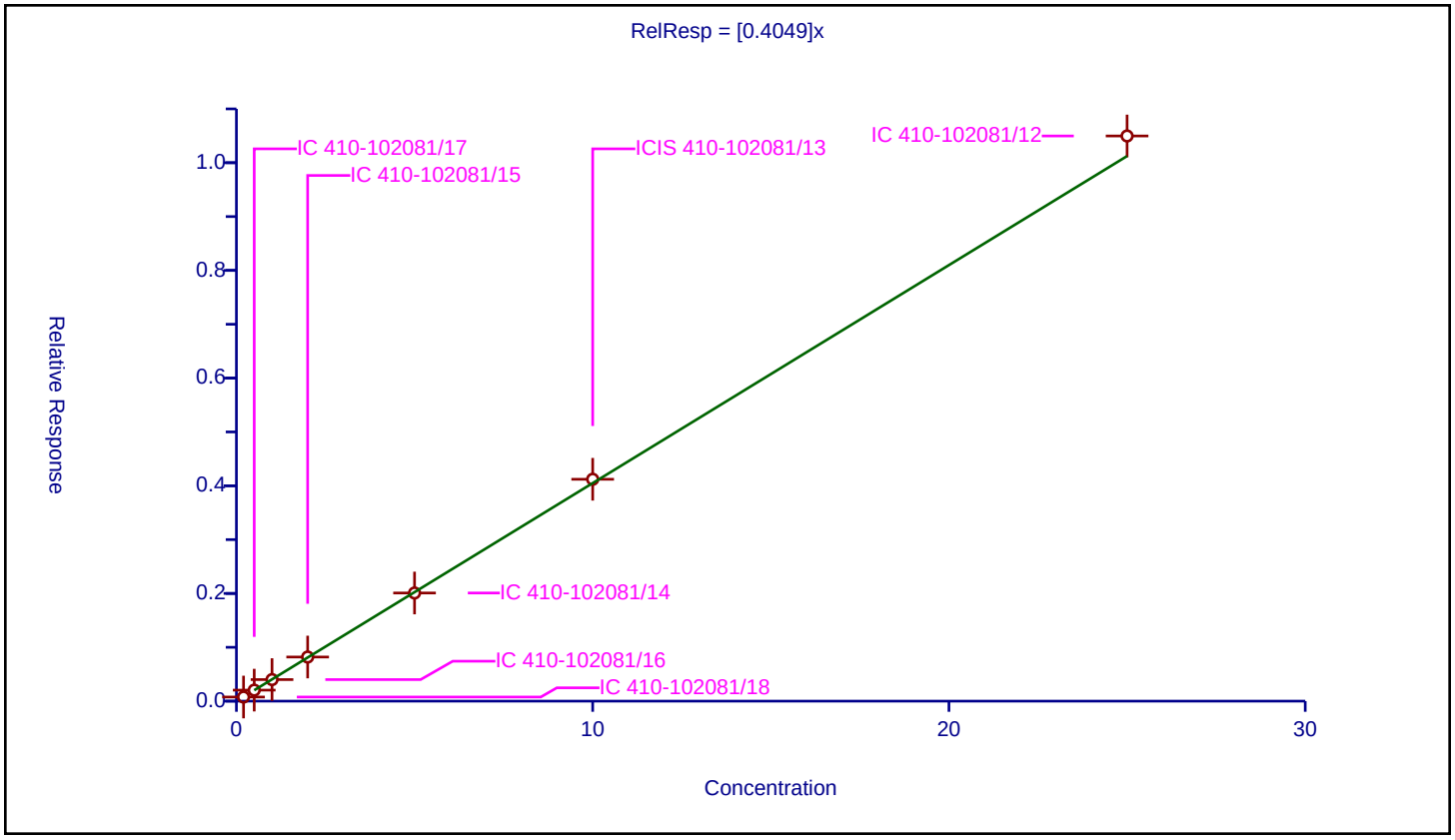
Curve Coefficients

Intercept:	0
Slope:	0.4049

Error Coefficients

Standard Error:	1050000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.076412	10.0	2149149.0	0.382058	Y
2	IC 410-102081/17	0.5	0.204351	10.0	2186974.0	0.408702	Y
3	IC 410-102081/16	1.0	0.400278	10.0	2195473.0	0.400278	Y
4	IC 410-102081/15	2.0	0.819485	10.0	2201773.0	0.409743	Y
5	IC 410-102081/14	5.0	2.008841	10.0	2225895.0	0.401768	Y
6	ICIS 410-102081/13	10.0	4.120783	10.0	2227977.0	0.412078	Y
7	IC 410-102081/12	25.0	10.497064	10.0	2252002.0	0.419883	Y



Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

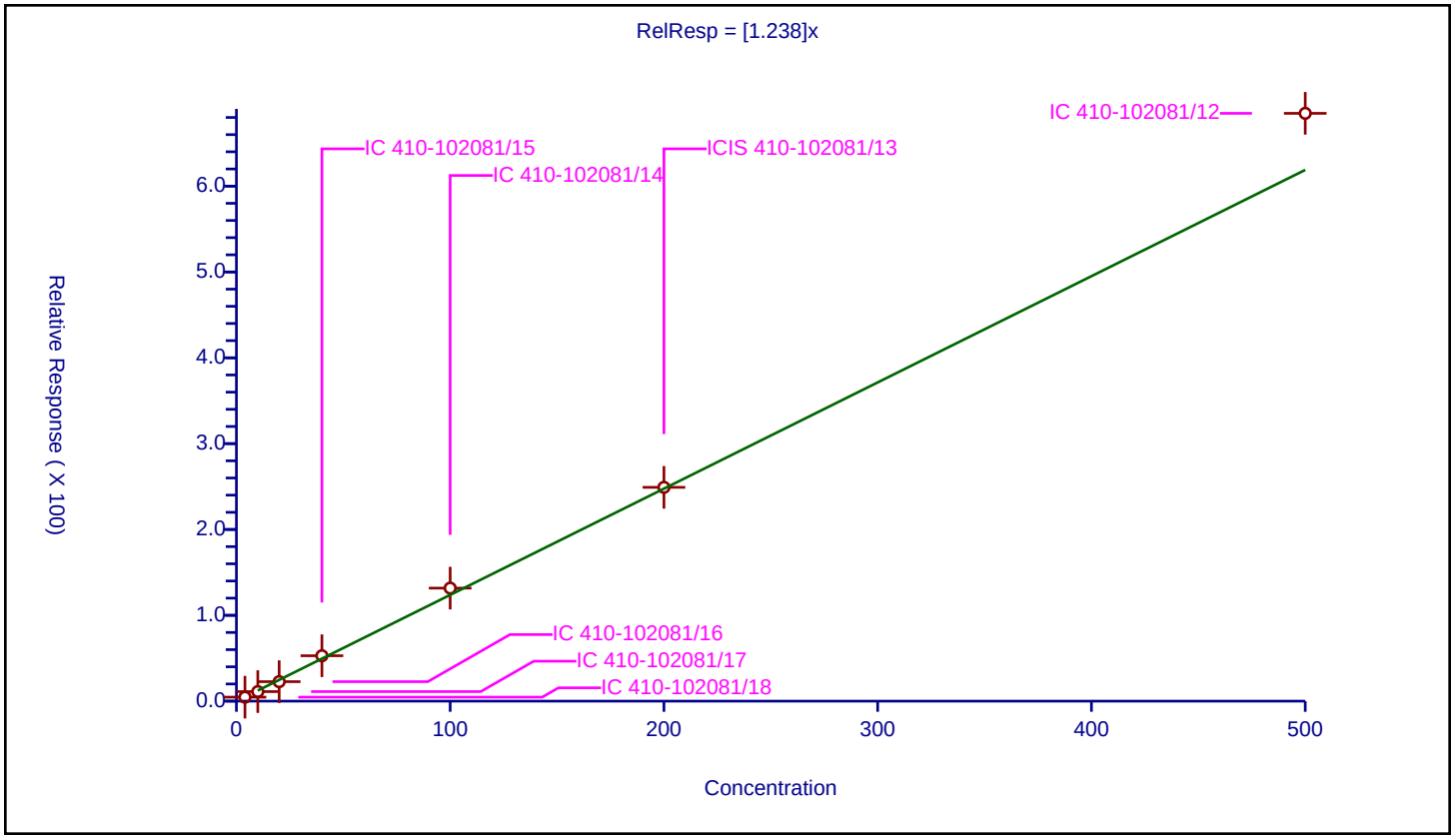
Curve Coefficients

Intercept:	0
Slope:	1.238

Error Coefficients

Standard Error:	977000
Relative Standard Error:	8.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	4.0	4.645882	50.0	174165.0	1.16147	Y
2	IC 410-102081/17	10.0	11.134686	50.0	171087.0	1.113469	Y
3	IC 410-102081/16	20.0	22.703018	50.0	165663.0	1.135151	Y
4	IC 410-102081/15	40.0	52.882348	50.0	173036.0	1.322059	Y
5	IC 410-102081/14	100.0	131.681508	50.0	171477.0	1.316815	Y
6	ICIS 410-102081/13	200.0	249.105653	50.0	195338.0	1.245528	Y
7	IC 410-102081/12	500.0	684.825887	50.0	155617.0	1.369652	Y



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Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

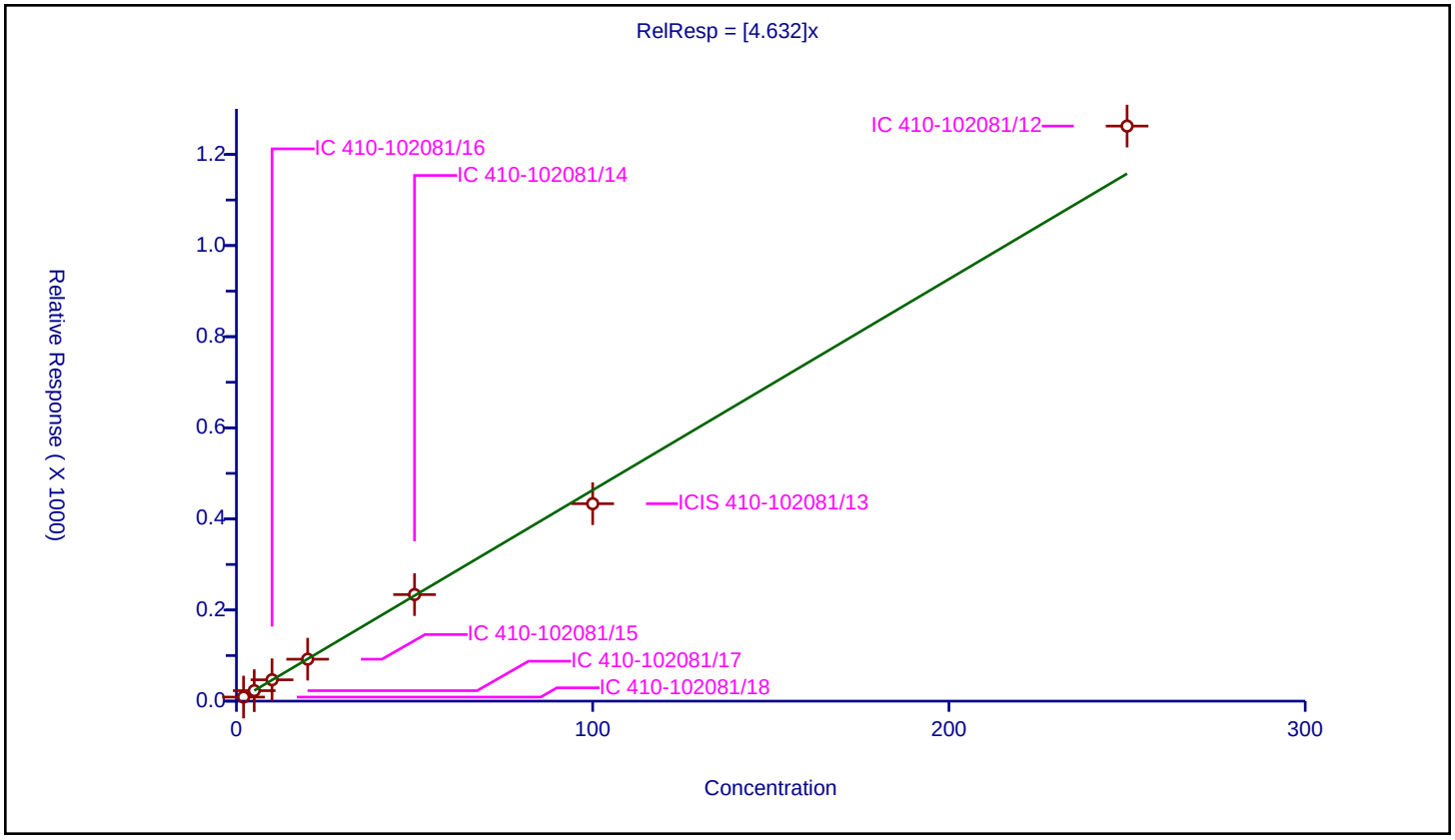
Curve Coefficients

Intercept:	0
Slope:	4.632

Error Coefficients

Standard Error:	1780000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	8.934631	50.0	174165.0	4.467315	Y
2	IC 410-102081/17	5.0	23.016068	50.0	171087.0	4.603214	Y
3	IC 410-102081/16	10.0	46.879508	50.0	165663.0	4.687951	Y
4	IC 410-102081/15	20.0	92.04992	50.0	173036.0	4.602496	Y
5	IC 410-102081/14	50.0	233.877138	50.0	171477.0	4.677543	Y
6	ICIS 410-102081/13	100.0	433.343231	50.0	195338.0	4.333432	Y
7	IC 410-102081/12	250.0	1262.265048	50.0	155617.0	5.04906	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

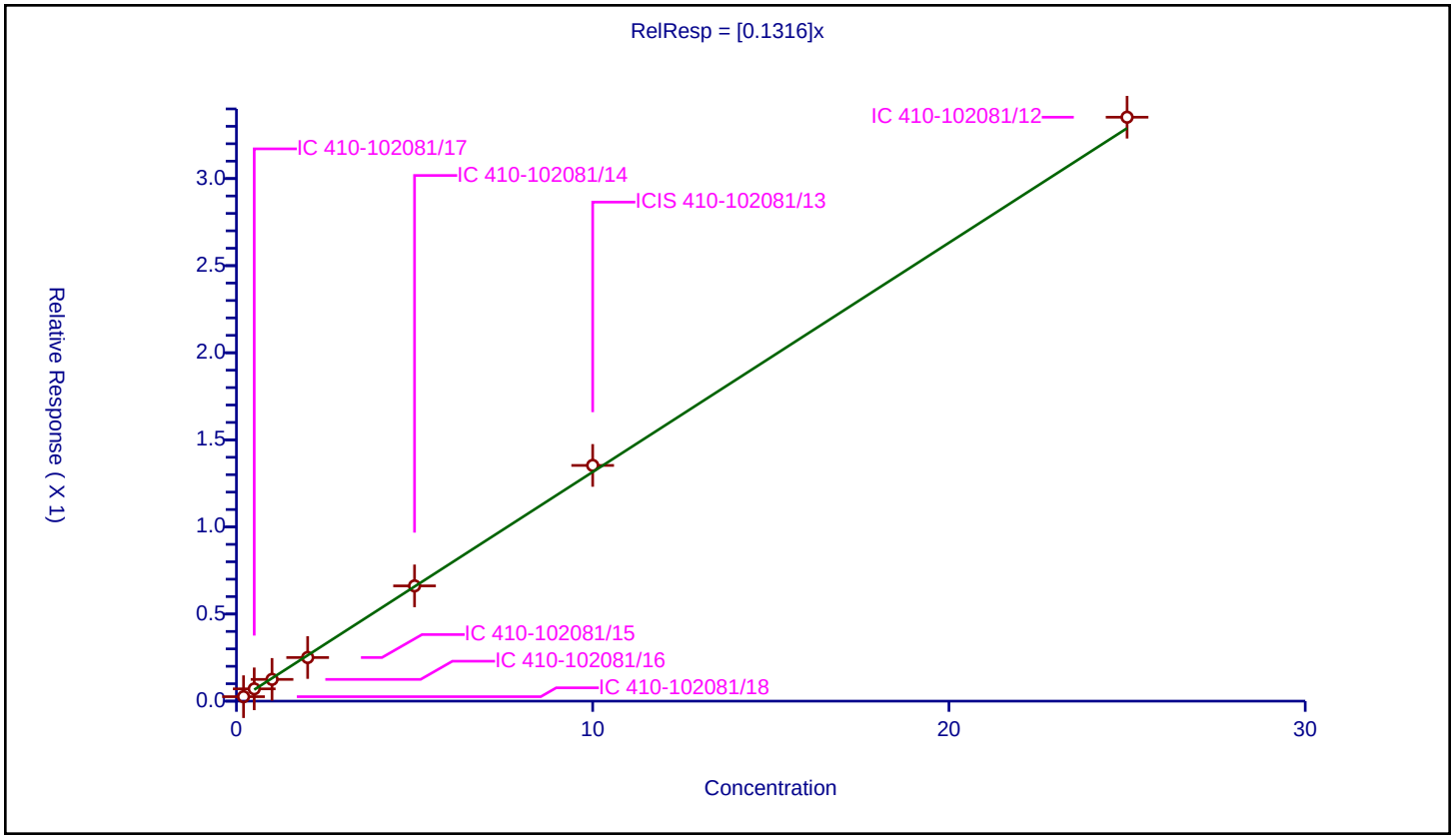
Curve Coefficients

Intercept:	0
Slope:	0.1316

Error Coefficients

Standard Error:	338000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.025596	10.0	2149149.0	0.127981	Y
2	IC 410-102081/17	0.5	0.070568	10.0	2186974.0	0.141136	Y
3	IC 410-102081/16	1.0	0.124889	10.0	2195473.0	0.124889	Y
4	IC 410-102081/15	2.0	0.250421	10.0	2201773.0	0.12521	Y
5	IC 410-102081/14	5.0	0.661617	10.0	2225895.0	0.132323	Y
6	ICIS 410-102081/13	10.0	1.353322	10.0	2227977.0	0.135332	Y
7	IC 410-102081/12	25.0	3.352284	10.0	2252002.0	0.134091	Y



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Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

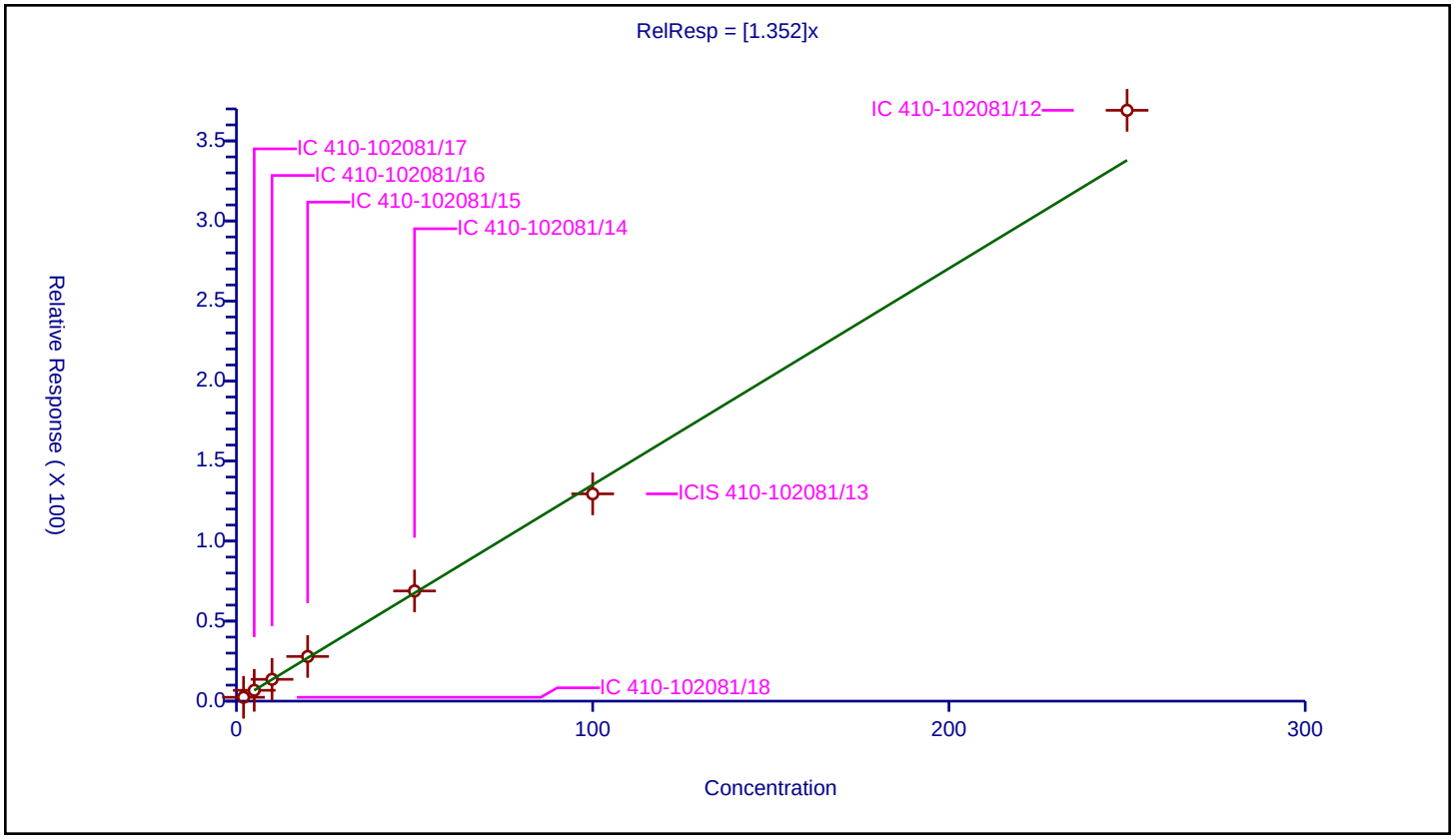
Curve Coefficients

Intercept:	0
Slope:	1.352

Error Coefficients

Standard Error:	523000
Relative Standard Error:	6.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	2.404042	50.0	174165.0	1.202021	Y
2	IC 410-102081/17	5.0	6.767317	50.0	171087.0	1.353463	Y
3	IC 410-102081/16	10.0	13.623742	50.0	165663.0	1.362374	Y
4	IC 410-102081/15	20.0	27.919335	50.0	173036.0	1.395967	Y
5	IC 410-102081/14	50.0	68.8206	50.0	171477.0	1.376412	Y
6	ICIS 410-102081/13	100.0	129.500916	50.0	195338.0	1.295009	Y
7	IC 410-102081/12	250.0	369.126124	50.0	155617.0	1.476504	Y



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Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

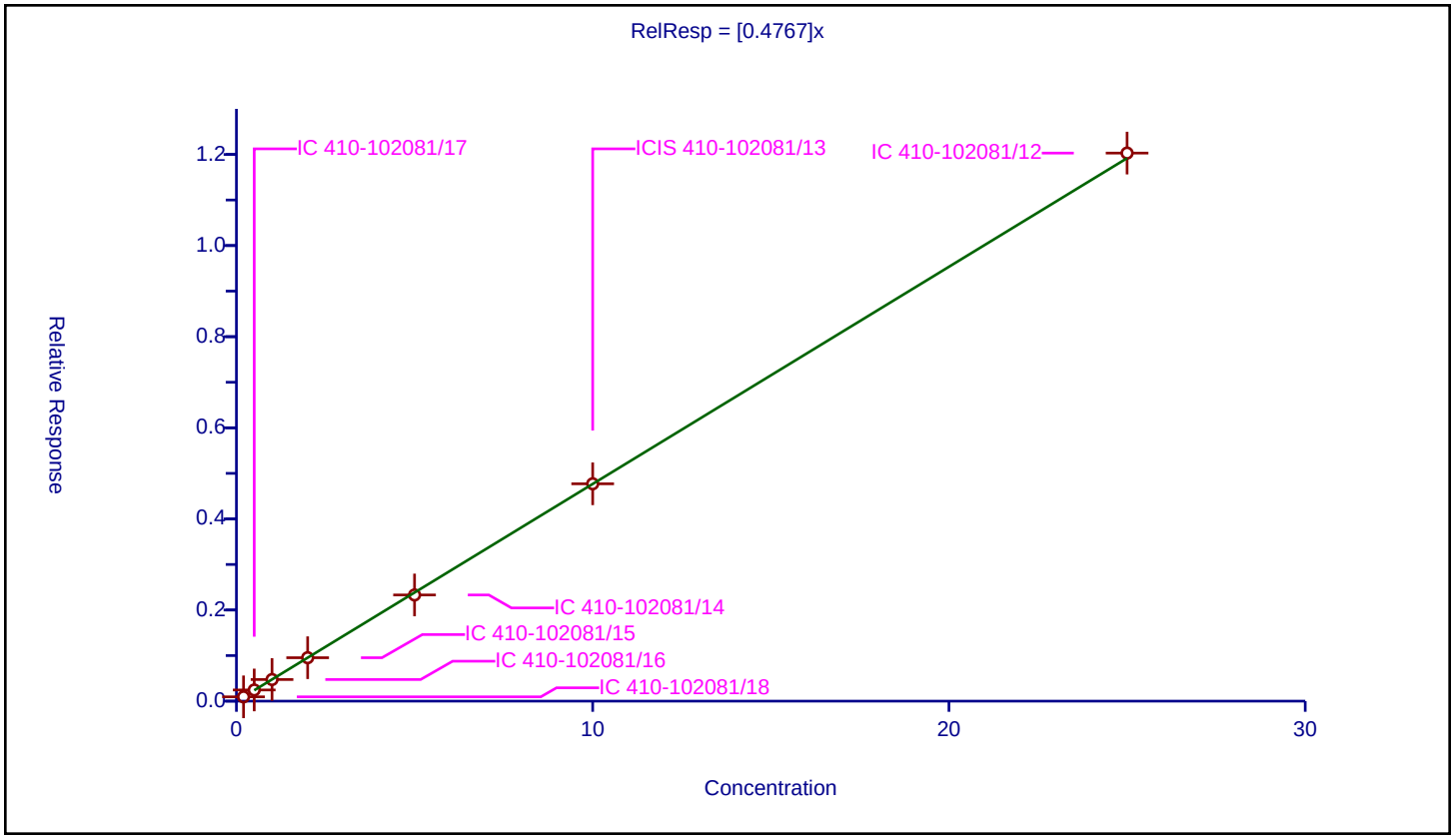
Curve Coefficients

Intercept:	0
Slope:	0.4767

Error Coefficients

Standard Error:	1210000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.094312	10.0	2149149.0	0.471559	Y
2	IC 410-102081/17	0.5	0.244982	10.0	2186974.0	0.489965	Y
3	IC 410-102081/16	1.0	0.474358	10.0	2195473.0	0.474358	Y
4	IC 410-102081/15	2.0	0.953273	10.0	2201773.0	0.476636	Y
5	IC 410-102081/14	5.0	2.330856	10.0	2225895.0	0.466171	Y
6	ICIS 410-102081/13	10.0	4.771019	10.0	2227977.0	0.477102	Y
7	IC 410-102081/12	25.0	12.029954	10.0	2252002.0	0.481198	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

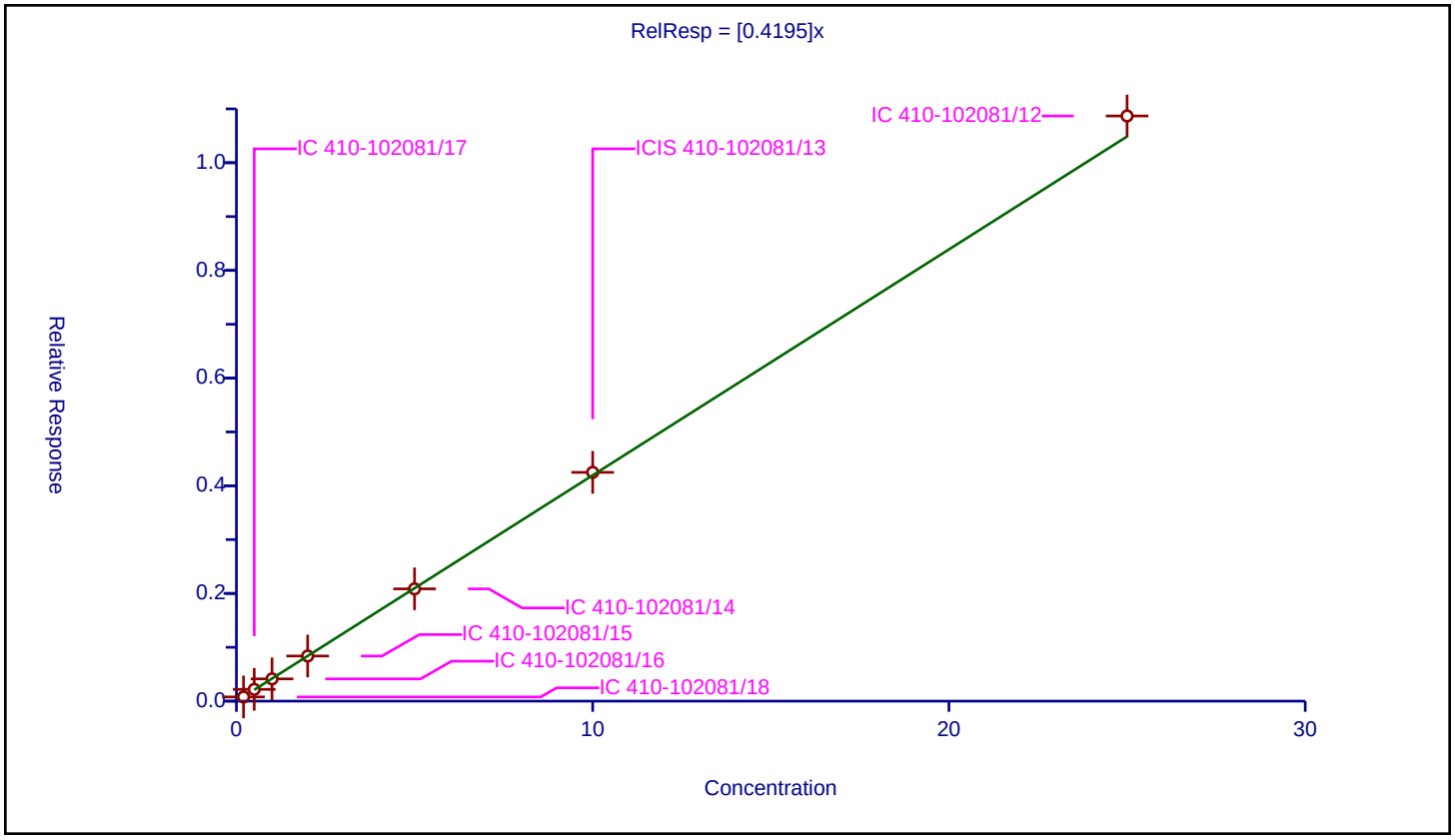
Curve Coefficients

Intercept:	0
Slope:	0.4195

Error Coefficients

Standard Error:	1090000
Relative Standard Error:	3.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.077803	10.0	2149149.0	0.389014	Y
2	IC 410-102081/17	0.5	0.219134	10.0	2186974.0	0.438268	Y
3	IC 410-102081/16	1.0	0.413355	10.0	2195473.0	0.413355	Y
4	IC 410-102081/15	2.0	0.83832	10.0	2201773.0	0.41916	Y
5	IC 410-102081/14	5.0	2.085094	10.0	2225895.0	0.417019	Y
6	ICIS 410-102081/13	10.0	4.249043	10.0	2227977.0	0.424904	Y
7	IC 410-102081/12	25.0	10.868201	10.0	2252002.0	0.434728	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

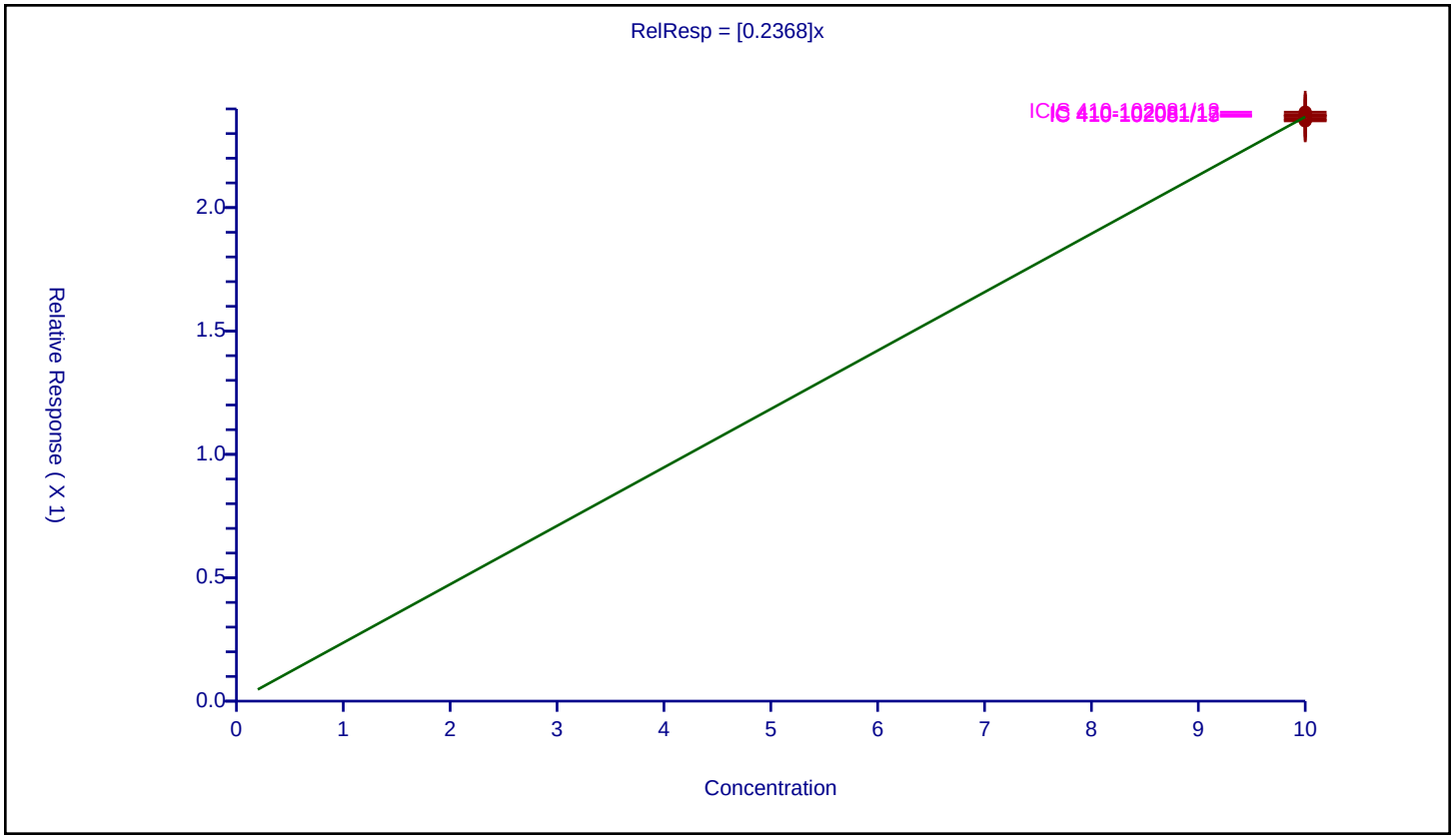
Curve Coefficients

Intercept:	0
Slope:	0.2368

Error Coefficients

Standard Error:	564000
Relative Standard Error:	0.5
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	2.376992	10.0	2252002.0	0.237699	Y
2	ICIS 410-102081/13	10.0	2.386793	10.0	2227977.0	0.238679	Y
3	IC 410-102081/14	10.0	2.351391	10.0	2225895.0	0.235139	Y
4	IC 410-102081/15	10.0	2.372211	10.0	2201773.0	0.237221	Y
5	IC 410-102081/16	10.0	2.361596	10.0	2195473.0	0.23616	Y
6	IC 410-102081/17	10.0	2.370408	10.0	2186974.0	0.237041	Y
7	IC 410-102081/18	10.0	2.354853	10.0	2149149.0	0.235485	Y



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Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

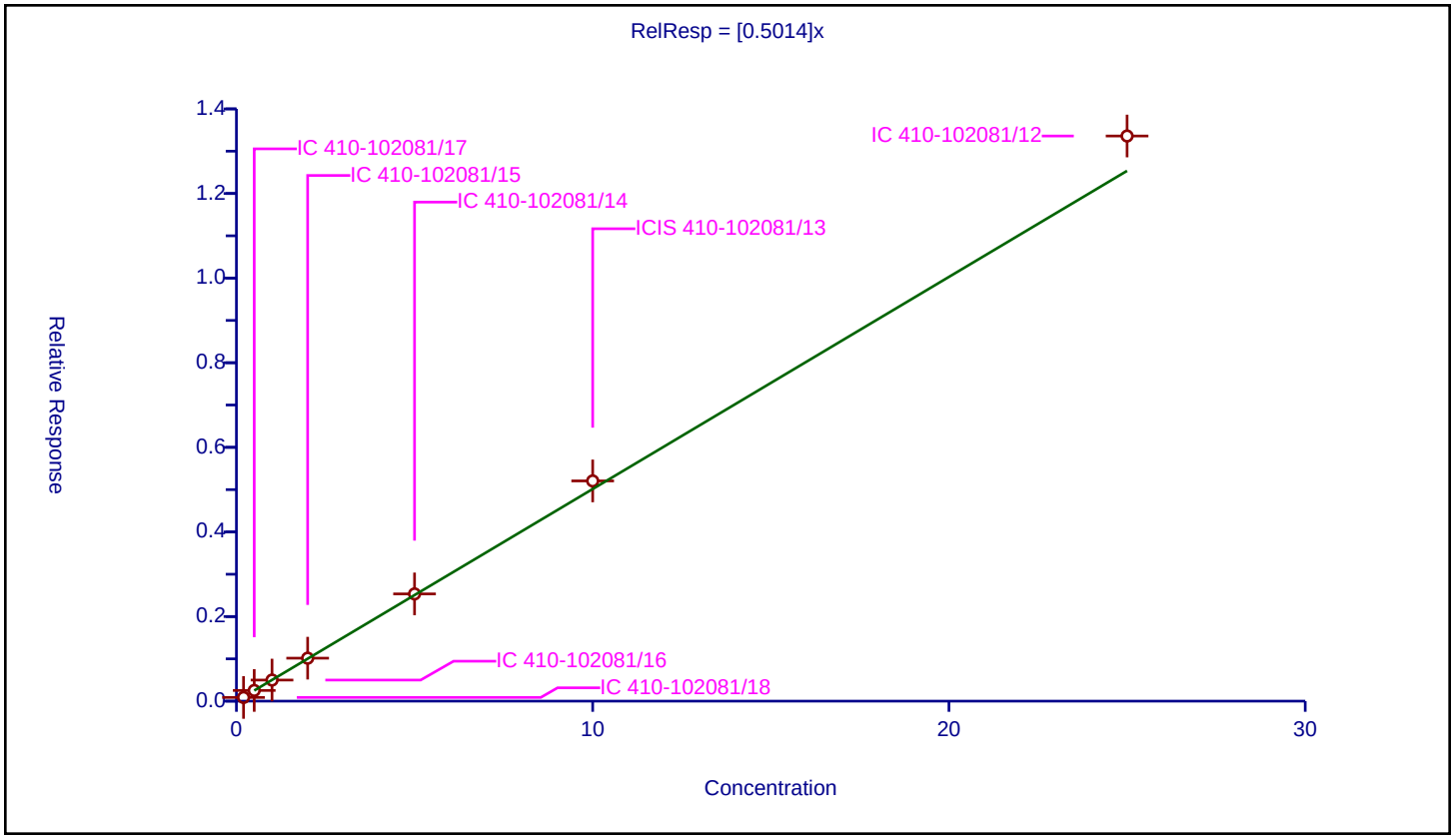
Curve Coefficients

Intercept:	0
Slope:	0.5014

Error Coefficients

Standard Error:	1340000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.087346	10.0	2149149.0	0.436731	Y
2	IC 410-102081/17	0.5	0.25249	10.0	2186974.0	0.504981	Y
3	IC 410-102081/16	1.0	0.498489	10.0	2195473.0	0.498489	Y
4	IC 410-102081/15	2.0	1.015663	10.0	2201773.0	0.507832	Y
5	IC 410-102081/14	5.0	2.534751	10.0	2225895.0	0.50695	Y
6	ICIS 410-102081/13	10.0	5.205767	10.0	2227977.0	0.520577	Y
7	IC 410-102081/12	25.0	13.359047	10.0	2252002.0	0.534362	Y



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Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

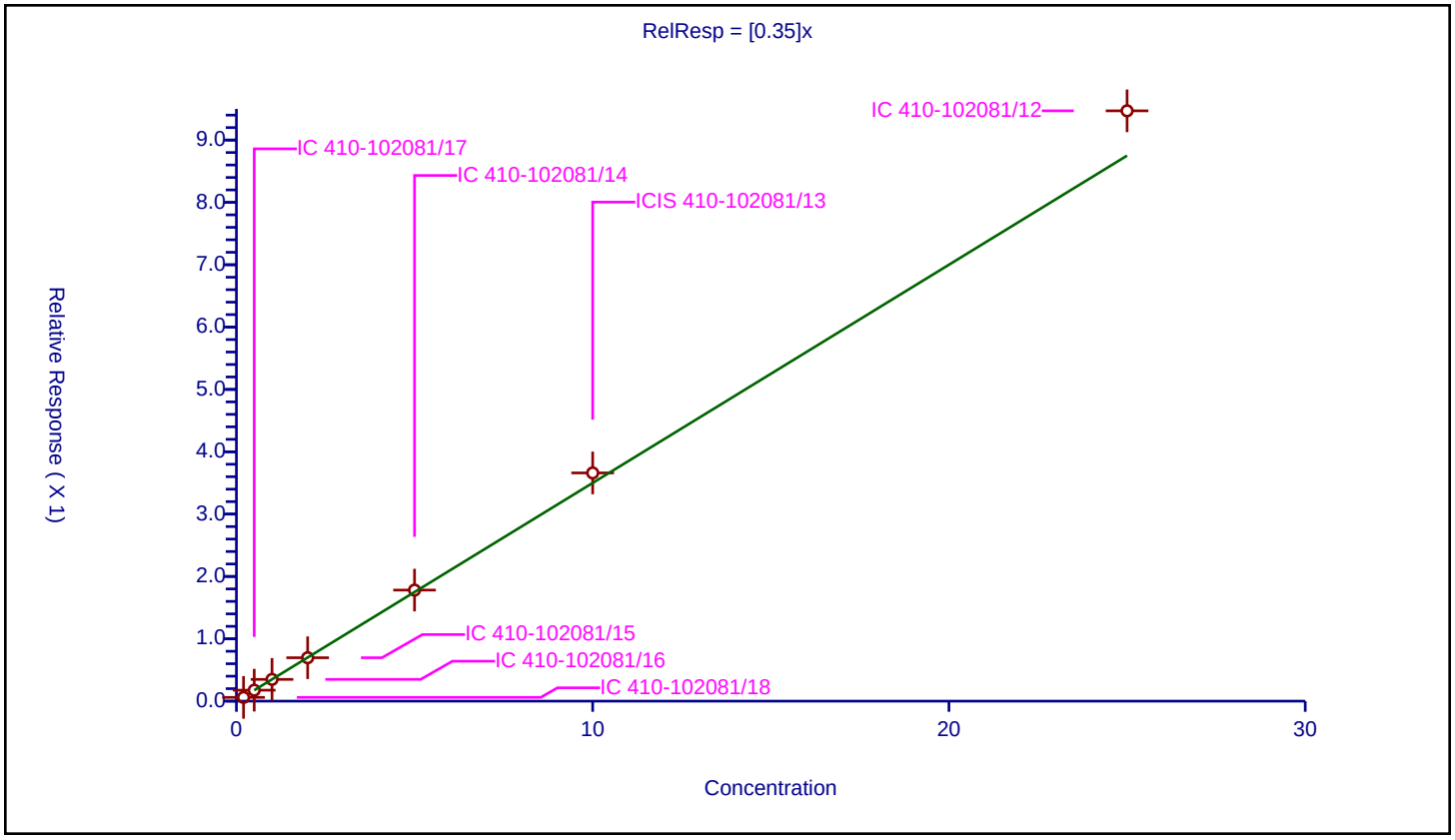
Curve Coefficients

Intercept:	0
Slope:	0.35

Error Coefficients

Standard Error:	949000
Relative Standard Error:	7.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.060094	10.0	2149149.0	0.300468	Y
2	IC 410-102081/17	0.5	0.175741	10.0	2186974.0	0.351481	Y
3	IC 410-102081/16	1.0	0.348772	10.0	2195473.0	0.348772	Y
4	IC 410-102081/15	2.0	0.696325	10.0	2201773.0	0.348163	Y
5	IC 410-102081/14	5.0	1.781468	10.0	2225895.0	0.356294	Y
6	ICIS 410-102081/13	10.0	3.660873	10.0	2227977.0	0.366087	Y
7	IC 410-102081/12	25.0	9.468917	10.0	2252002.0	0.378757	Y



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Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

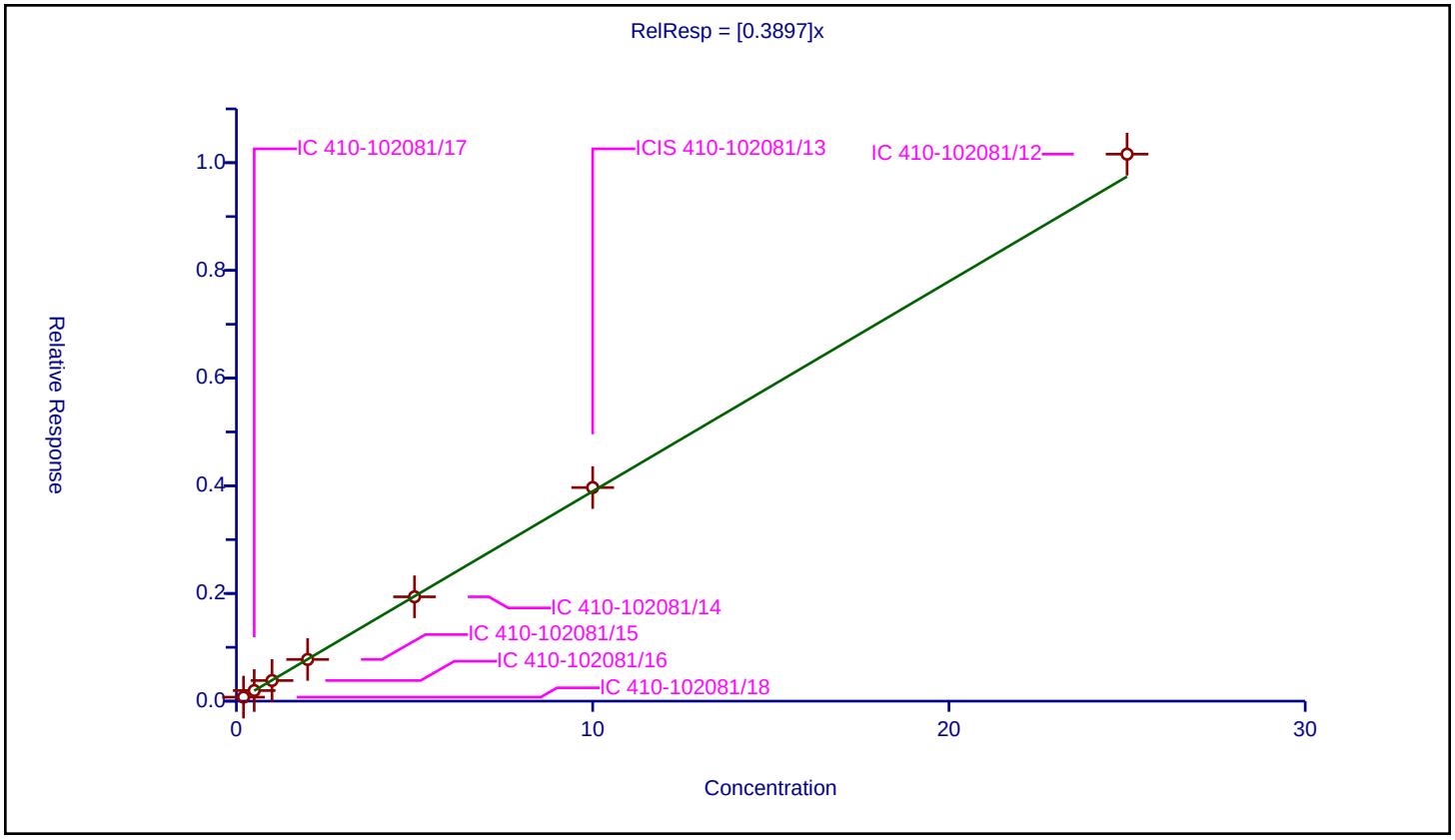
Curve Coefficients

Intercept:	0
Slope:	0.3897

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.07455	10.0	2149149.0	0.372752	Y
2	IC 410-102081/17	0.5	0.197145	10.0	2186974.0	0.394289	Y
3	IC 410-102081/16	1.0	0.383289	10.0	2195473.0	0.383289	Y
4	IC 410-102081/15	2.0	0.774312	10.0	2201773.0	0.387156	Y
5	IC 410-102081/14	5.0	1.937962	10.0	2225895.0	0.387592	Y
6	ICIS 410-102081/13	10.0	3.967133	10.0	2227977.0	0.396713	Y
7	IC 410-102081/12	25.0	10.159014	10.0	2252002.0	0.406361	Y



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Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

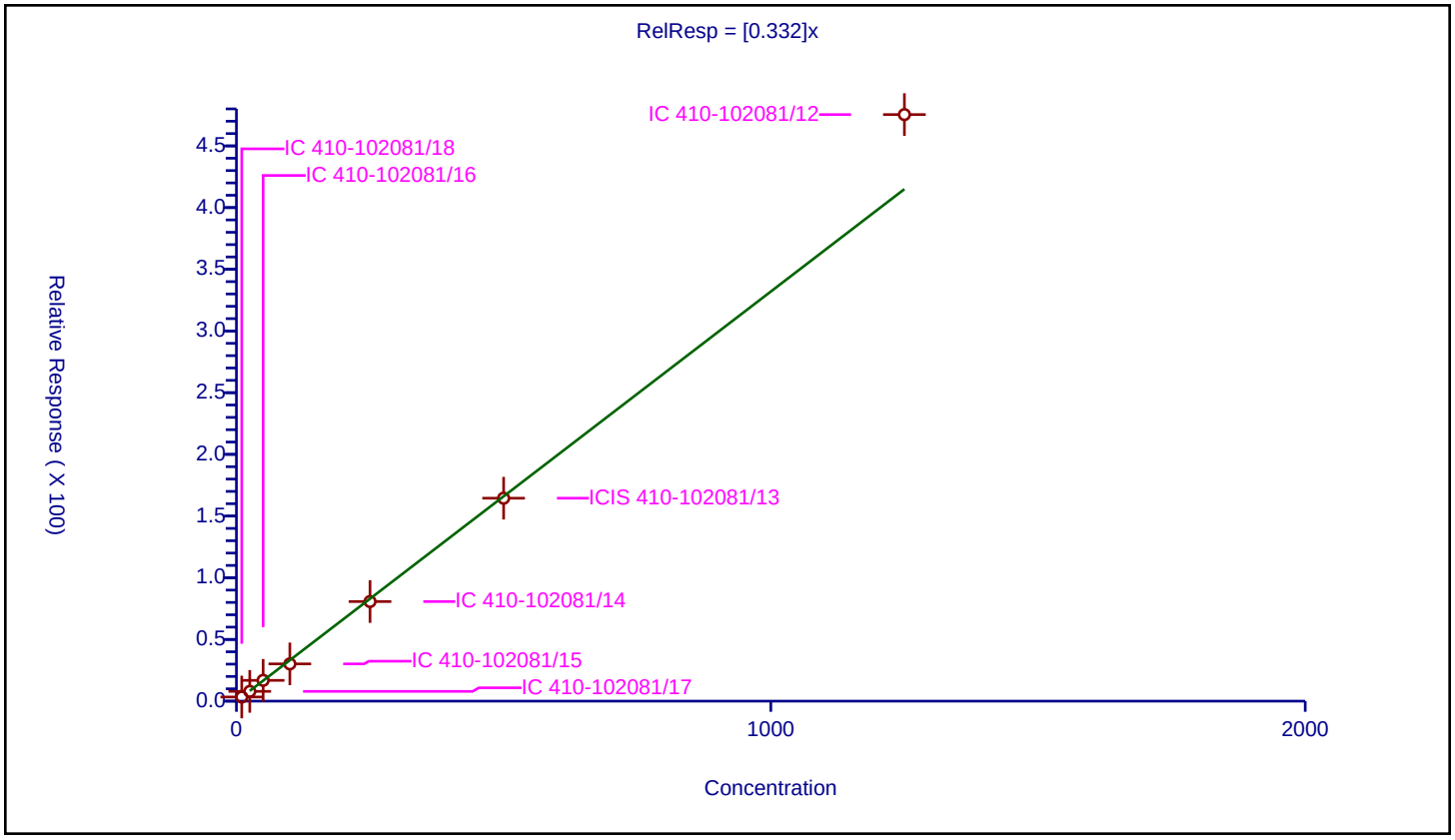
Curve Coefficients

Intercept:	0
Slope:	0.332

Error Coefficients

Standard Error:	670000
Relative Standard Error:	7.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	10.0	3.362903	50.0	174165.0	0.33629	Y
2	IC 410-102081/17	25.0	7.910303	50.0	171087.0	0.316412	Y
3	IC 410-102081/16	50.0	16.852284	50.0	165663.0	0.337046	Y
4	IC 410-102081/15	100.0	30.189672	50.0	173036.0	0.301897	Y
5	IC 410-102081/14	250.0	80.726278	50.0	171477.0	0.322905	Y
6	ICIS 410-102081/13	500.0	164.470047	50.0	195338.0	0.32894	Y
7	IC 410-102081/12	1250.0	475.389257	50.0	155617.0	0.380311	Y



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Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

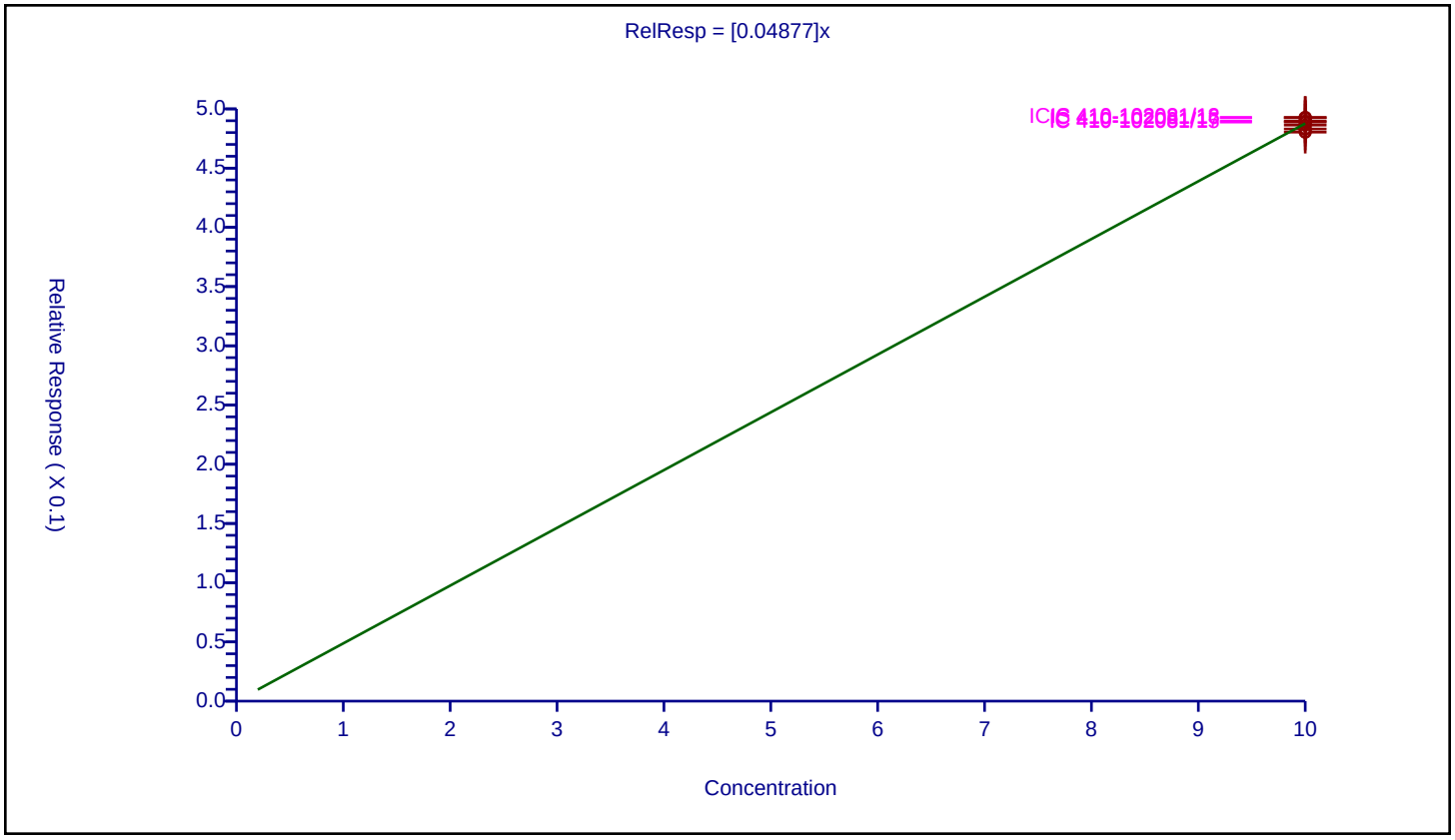
Curve Coefficients

Intercept:	0
Slope:	0.04877

Error Coefficients

Standard Error:	116000
Relative Standard Error:	1.0
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	0.480364	10.0	2252002.0	0.048036	Y
2	ICIS 410-102081/13	10.0	0.492761	10.0	2227977.0	0.049276	Y
3	IC 410-102081/14	10.0	0.483051	10.0	2225895.0	0.048305	Y
4	IC 410-102081/15	10.0	0.488861	10.0	2201773.0	0.048886	Y
5	IC 410-102081/16	10.0	0.492527	10.0	2195473.0	0.049253	Y
6	IC 410-102081/17	10.0	0.489704	10.0	2186974.0	0.04897	Y
7	IC 410-102081/18	10.0	0.486299	10.0	2149149.0	0.04863	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

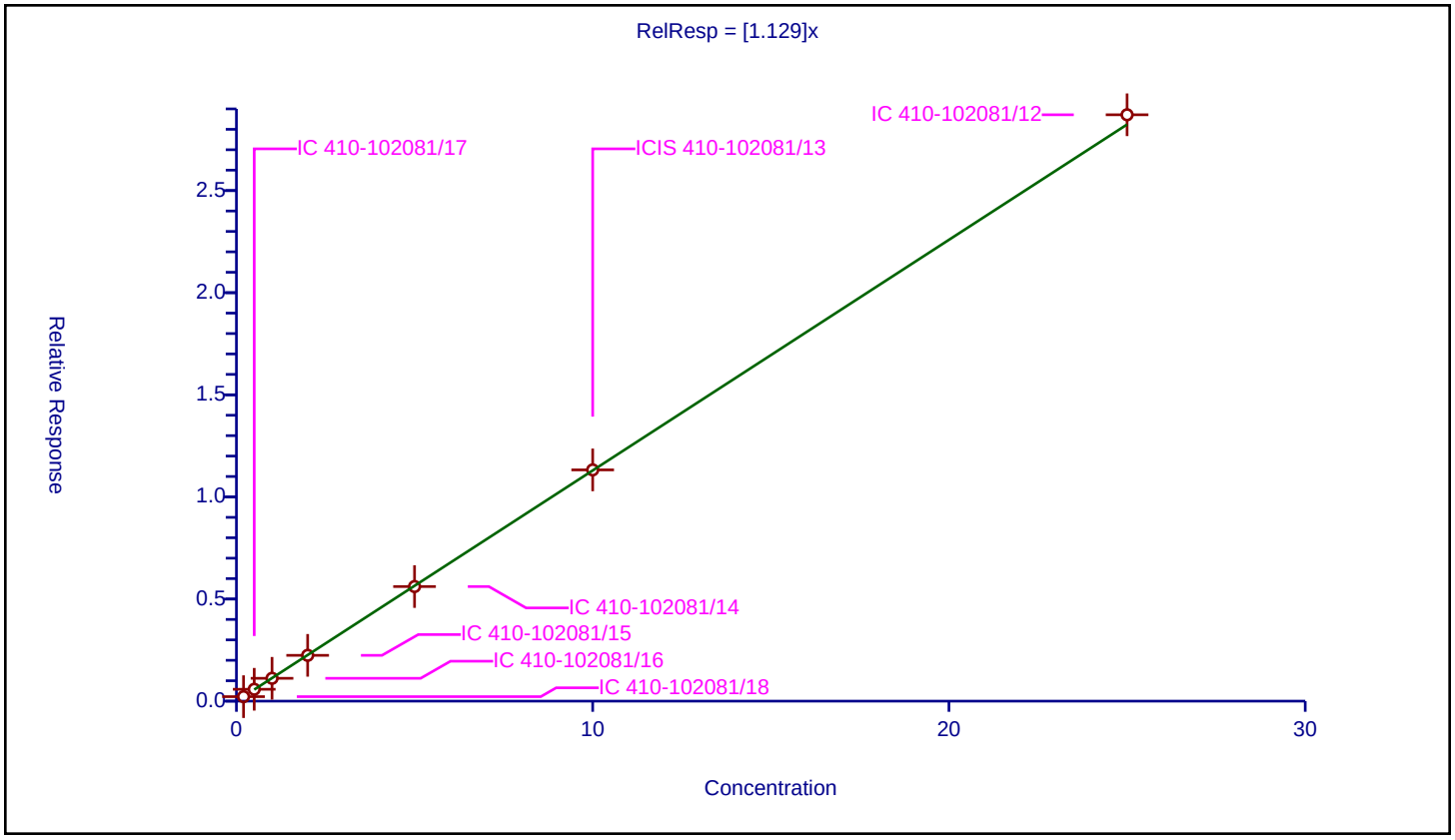
Curve Coefficients

Intercept:	0
Slope:	1.129

Error Coefficients

Standard Error:	2890000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.22011	10.0	2149149.0	1.100552	Y
2	IC 410-102081/17	0.5	0.581466	10.0	2186974.0	1.162931	Y
3	IC 410-102081/16	1.0	1.118219	10.0	2195473.0	1.118219	Y
4	IC 410-102081/15	2.0	2.242361	10.0	2201773.0	1.121181	Y
5	IC 410-102081/14	5.0	5.610943	10.0	2225895.0	1.122189	Y
6	ICIS 410-102081/13	10.0	11.323299	10.0	2227977.0	1.13233	Y
7	IC 410-102081/12	25.0	28.712195	10.0	2252002.0	1.148488	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

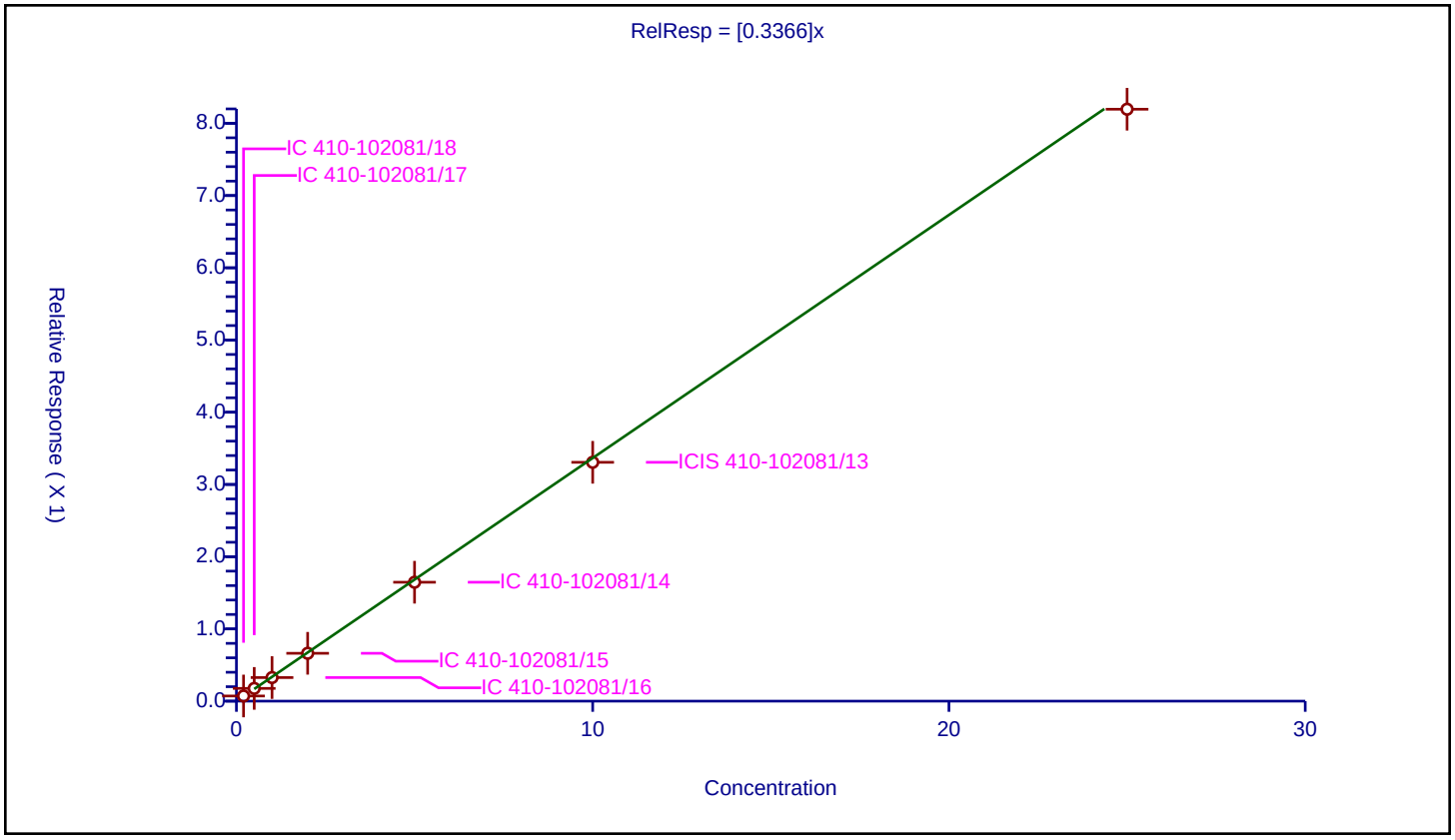
Curve Coefficients

Intercept:	0
Slope:	0.3366

Error Coefficients

Standard Error:	828000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.071498	10.0	2149149.0	0.35749	Y
2	IC 410-102081/17	0.5	0.176532	10.0	2186974.0	0.353063	Y
3	IC 410-102081/16	1.0	0.326431	10.0	2195473.0	0.326431	Y
4	IC 410-102081/15	2.0	0.662598	10.0	2201773.0	0.331299	Y
5	IC 410-102081/14	5.0	1.646461	10.0	2225895.0	0.329292	Y
6	ICIS 410-102081/13	10.0	3.307013	10.0	2227977.0	0.330701	Y
7	IC 410-102081/12	25.0	8.19553	10.0	2252002.0	0.327821	Y



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Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

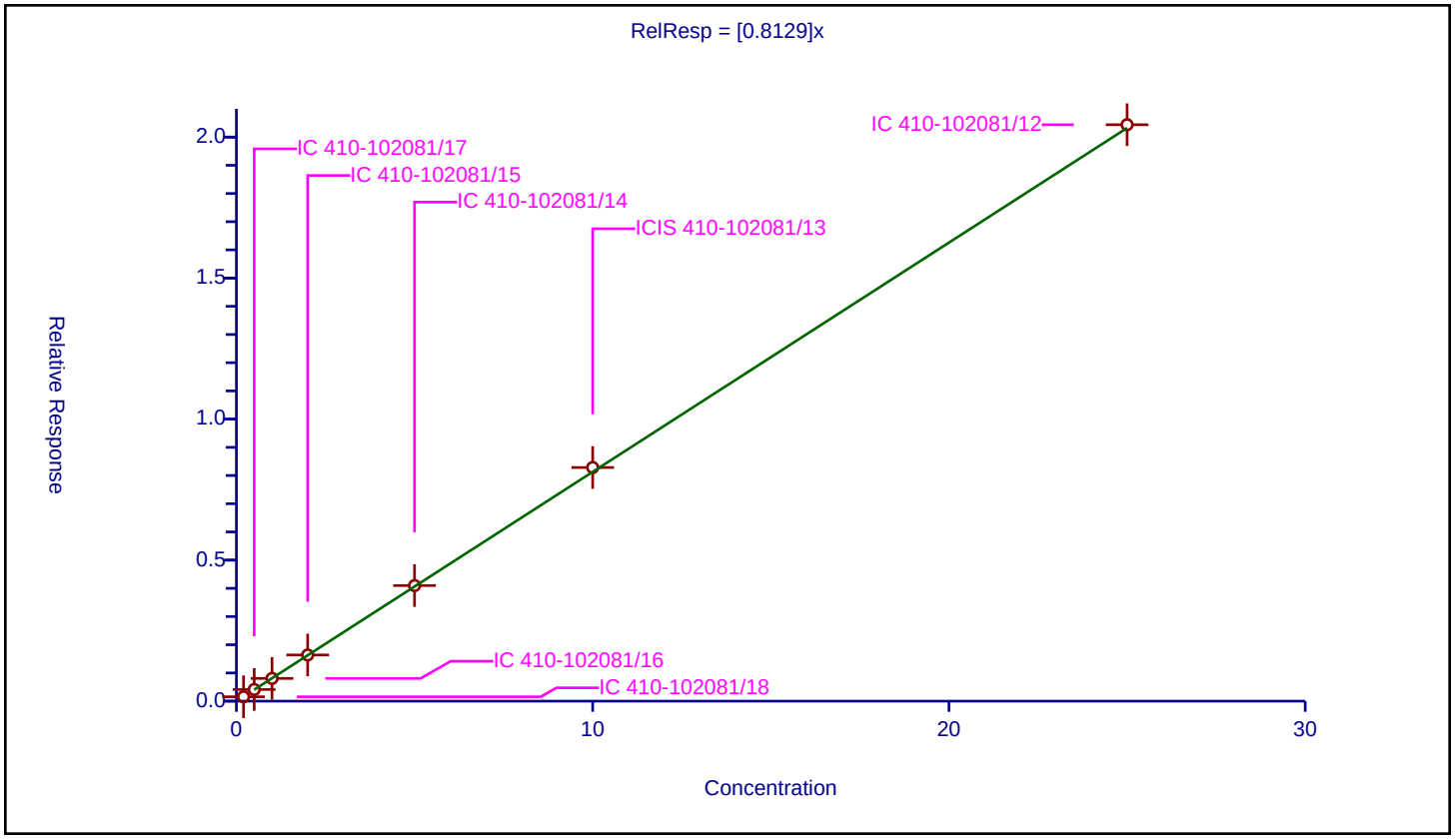
Curve Coefficients

Intercept:	0
Slope:	0.8129

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.154782	10.0	2149149.0	0.773911	Y
2	IC 410-102081/17	0.5	0.413466	10.0	2186974.0	0.826933	Y
3	IC 410-102081/16	1.0	0.805653	10.0	2195473.0	0.805653	Y
4	IC 410-102081/15	2.0	1.636686	10.0	2201773.0	0.818343	Y
5	IC 410-102081/14	5.0	4.09788	10.0	2225895.0	0.819576	Y
6	ICIS 410-102081/13	10.0	8.283945	10.0	2227977.0	0.828395	Y
7	IC 410-102081/12	25.0	20.438321	10.0	2252002.0	0.817533	Y



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Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

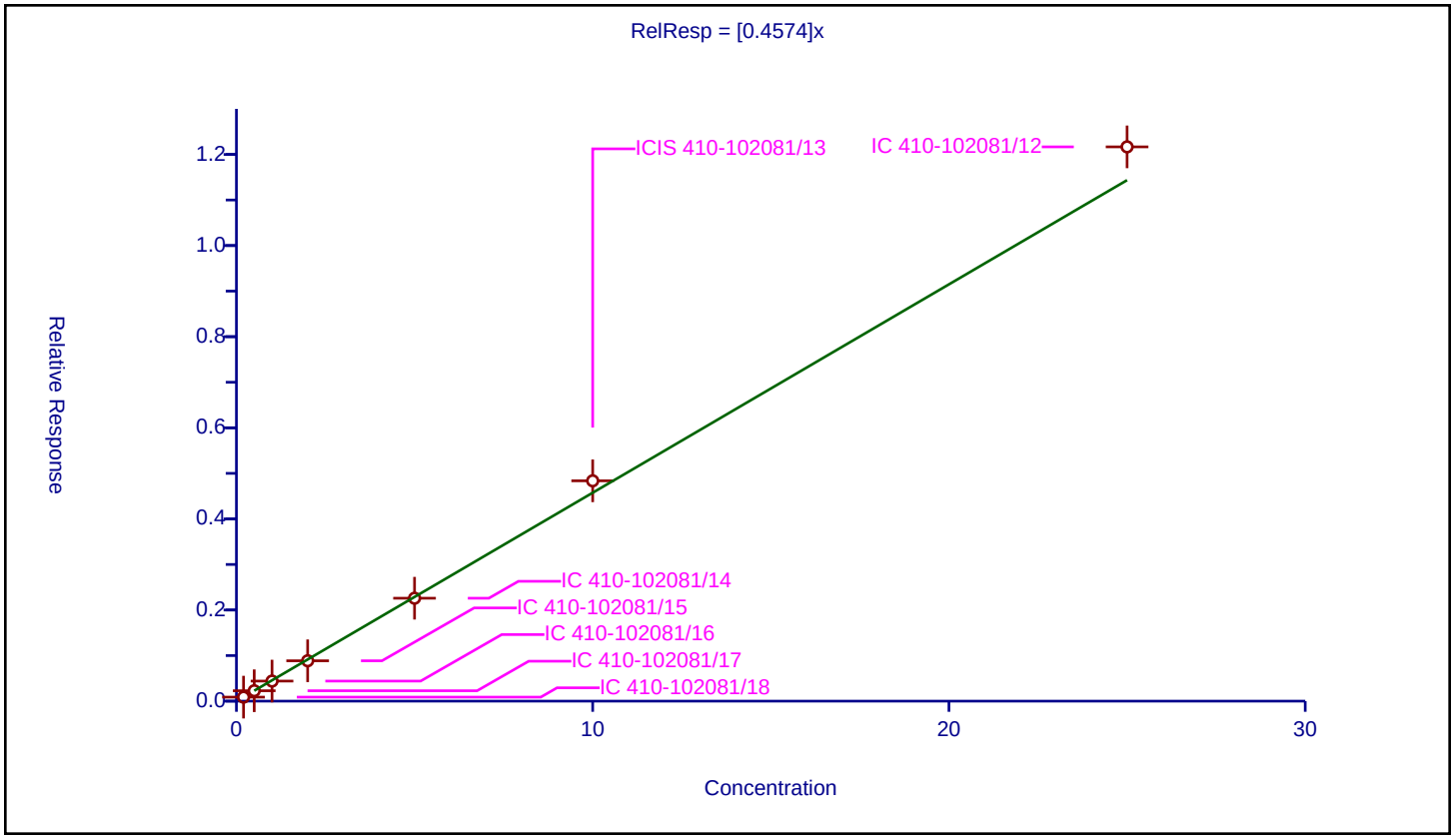
Curve Coefficients

Intercept:	0
Slope:	0.4574

Error Coefficients

Standard Error:	1220000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.087984	10.0	2149149.0	0.439918	Y
2	IC 410-102081/17	0.5	0.228087	10.0	2186974.0	0.456174	Y
3	IC 410-102081/16	1.0	0.44073	10.0	2195473.0	0.44073	Y
4	IC 410-102081/15	2.0	0.886209	10.0	2201773.0	0.443104	Y
5	IC 410-102081/14	5.0	2.259015	10.0	2225895.0	0.451803	Y
6	ICIS 410-102081/13	10.0	4.836185	10.0	2227977.0	0.483619	Y
7	IC 410-102081/12	25.0	12.166468	10.0	2252002.0	0.486659	Y



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Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

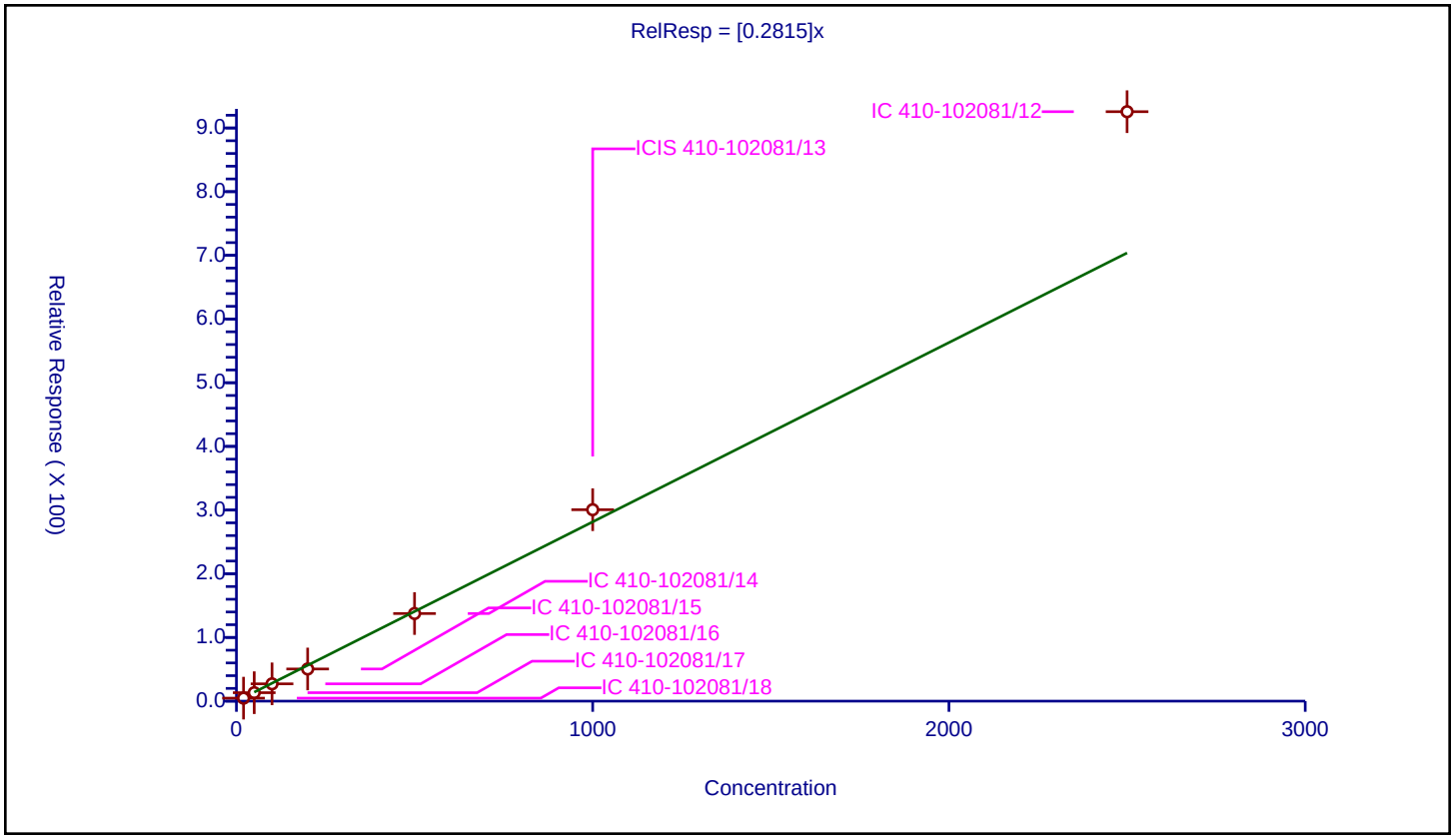
Curve Coefficients

Intercept:	0
Slope:	0.2815

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	15.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.971

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	20.0	4.698992	50.0	174165.0	0.23495	Y
2	IC 410-102081/17	50.0	13.285346	50.0	171087.0	0.265707	Y
3	IC 410-102081/16	100.0	27.16207	50.0	165663.0	0.271621	Y
4	IC 410-102081/15	200.0	50.48776	50.0	173036.0	0.252439	Y
5	IC 410-102081/14	500.0	137.578509	50.0	171477.0	0.275157	Y
6	ICIS 410-102081/13	1000.0	300.596146	50.0	195338.0	0.300596	Y
7	IC 410-102081/12	2500.0	925.607742	50.0	155617.0	0.370243	Y



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Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

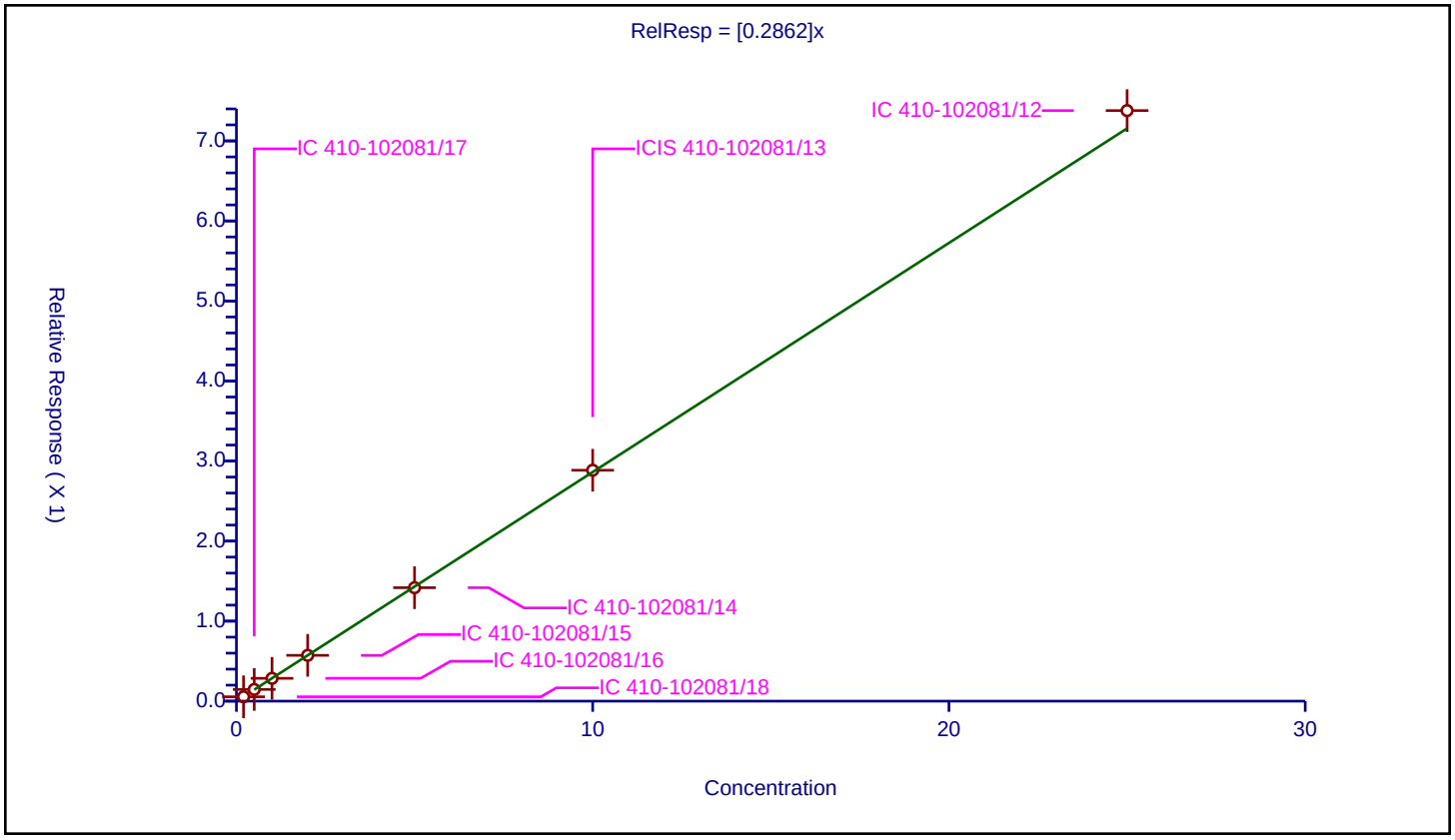
Curve Coefficients

Intercept:	0
Slope:	0.2862

Error Coefficients

Standard Error:	741000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.054538	10.0	2149149.0	0.272689	Y
2	IC 410-102081/17	0.5	0.146275	10.0	2186974.0	0.29255	Y
3	IC 410-102081/16	1.0	0.285182	10.0	2195473.0	0.285182	Y
4	IC 410-102081/15	2.0	0.57218	10.0	2201773.0	0.28609	Y
5	IC 410-102081/14	5.0	1.417452	10.0	2225895.0	0.28349	Y
6	ICIS 410-102081/13	10.0	2.885093	10.0	2227977.0	0.288509	Y
7	IC 410-102081/12	25.0	7.378568	10.0	2252002.0	0.295143	Y



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Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

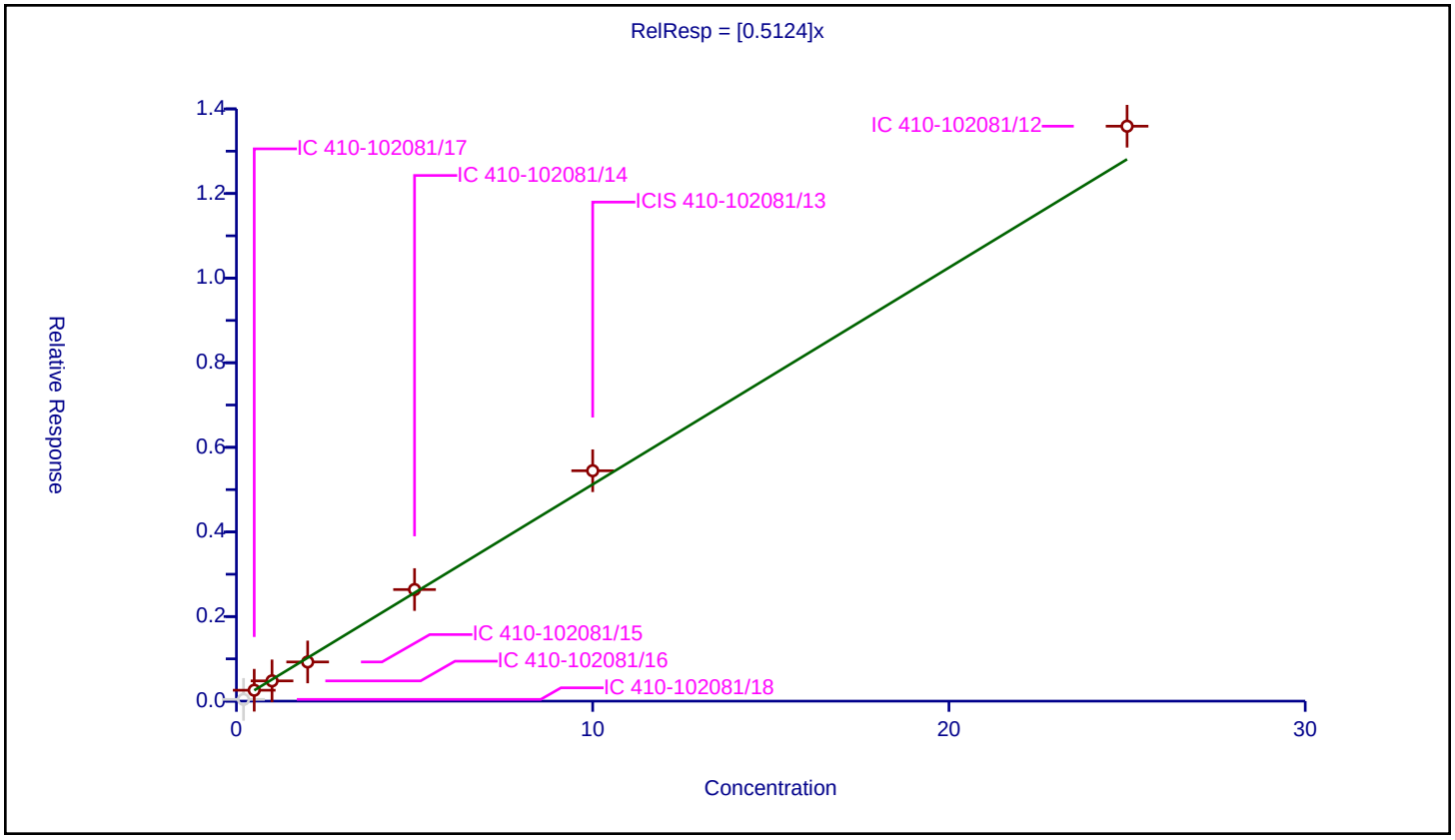
Curve Coefficients

Intercept:	0
Slope:	0.5124

Error Coefficients

Standard Error:	1500000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.041072	10.0	2149149.0	0.20536	N
2	IC 410-102081/17	0.5	0.258051	10.0	2186974.0	0.516101	Y
3	IC 410-102081/16	1.0	0.479095	10.0	2195473.0	0.479095	Y
4	IC 410-102081/15	2.0	0.926408	10.0	2201773.0	0.463204	Y
5	IC 410-102081/14	5.0	2.637806	10.0	2225895.0	0.527561	Y
6	ICIS 410-102081/13	10.0	5.446322	10.0	2227977.0	0.544632	Y
7	IC 410-102081/12	25.0	13.590694	10.0	2252002.0	0.543628	Y



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Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

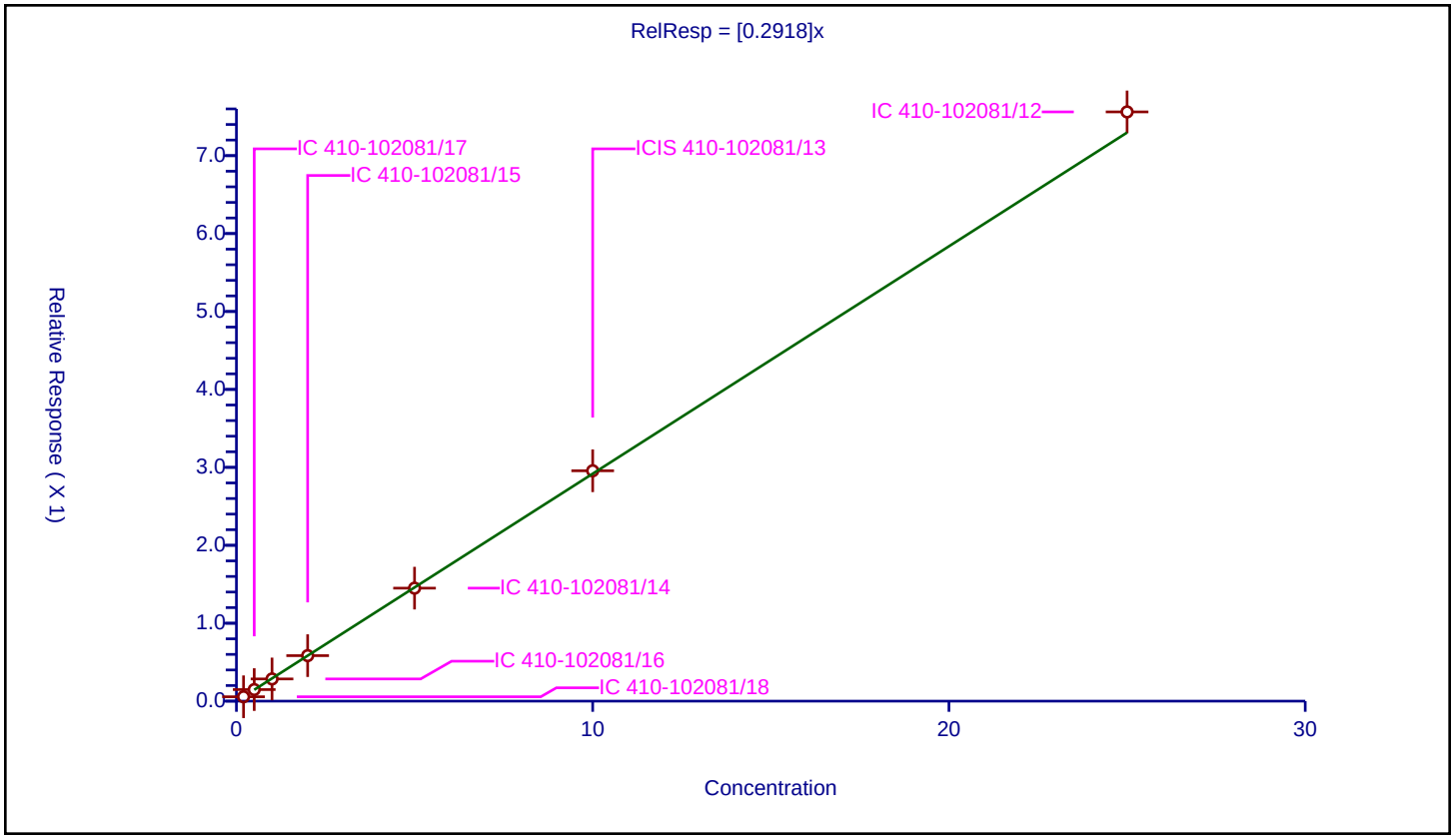
Curve Coefficients

Intercept:	0
Slope:	0.2918

Error Coefficients

Standard Error:	759000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.056162	10.0	2149149.0	0.280809	Y
2	IC 410-102081/17	0.5	0.148493	10.0	2186974.0	0.296986	Y
3	IC 410-102081/16	1.0	0.285014	10.0	2195473.0	0.285014	Y
4	IC 410-102081/15	2.0	0.584066	10.0	2201773.0	0.292033	Y
5	IC 410-102081/14	5.0	1.449875	10.0	2225895.0	0.289975	Y
6	ICIS 410-102081/13	10.0	2.956157	10.0	2227977.0	0.295616	Y
7	IC 410-102081/12	25.0	7.561294	10.0	2252002.0	0.302452	Y



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Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

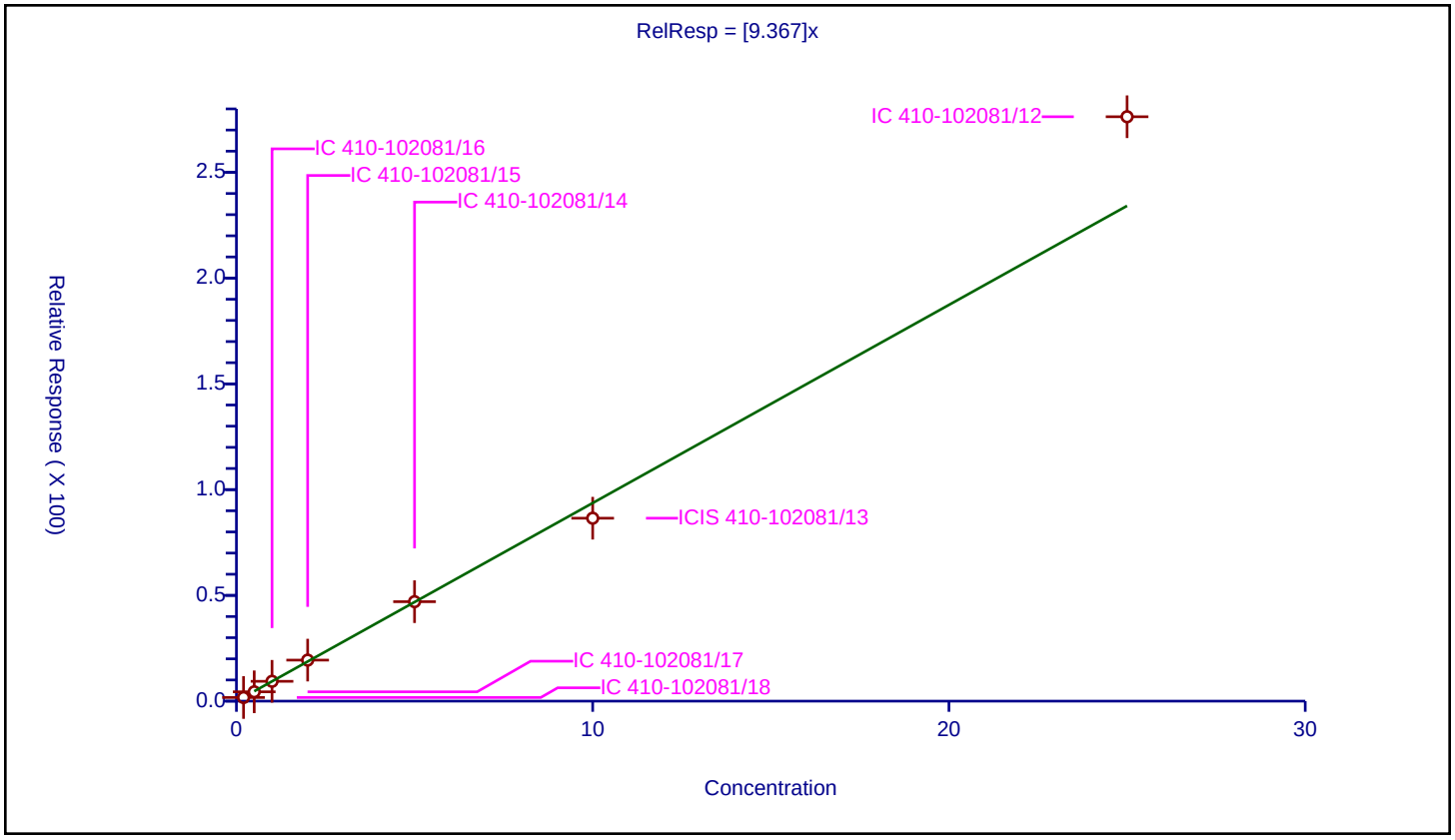
Curve Coefficients

Intercept:	0
Slope:	9.367

Error Coefficients

Standard Error:	384000
Relative Standard Error:	9.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	1.713318	50.0	174165.0	8.566589	Y
2	IC 410-102081/17	0.5	4.412667	50.0	171087.0	8.825334	Y
3	IC 410-102081/16	1.0	9.37234	50.0	165663.0	9.37234	Y
4	IC 410-102081/15	2.0	19.391629	50.0	173036.0	9.695815	Y
5	IC 410-102081/14	5.0	47.029922	50.0	171477.0	9.405984	Y
6	ICIS 410-102081/13	10.0	86.493411	50.0	195338.0	8.649341	Y
7	IC 410-102081/12	25.0	276.286974	50.0	155617.0	11.051479	Y



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Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

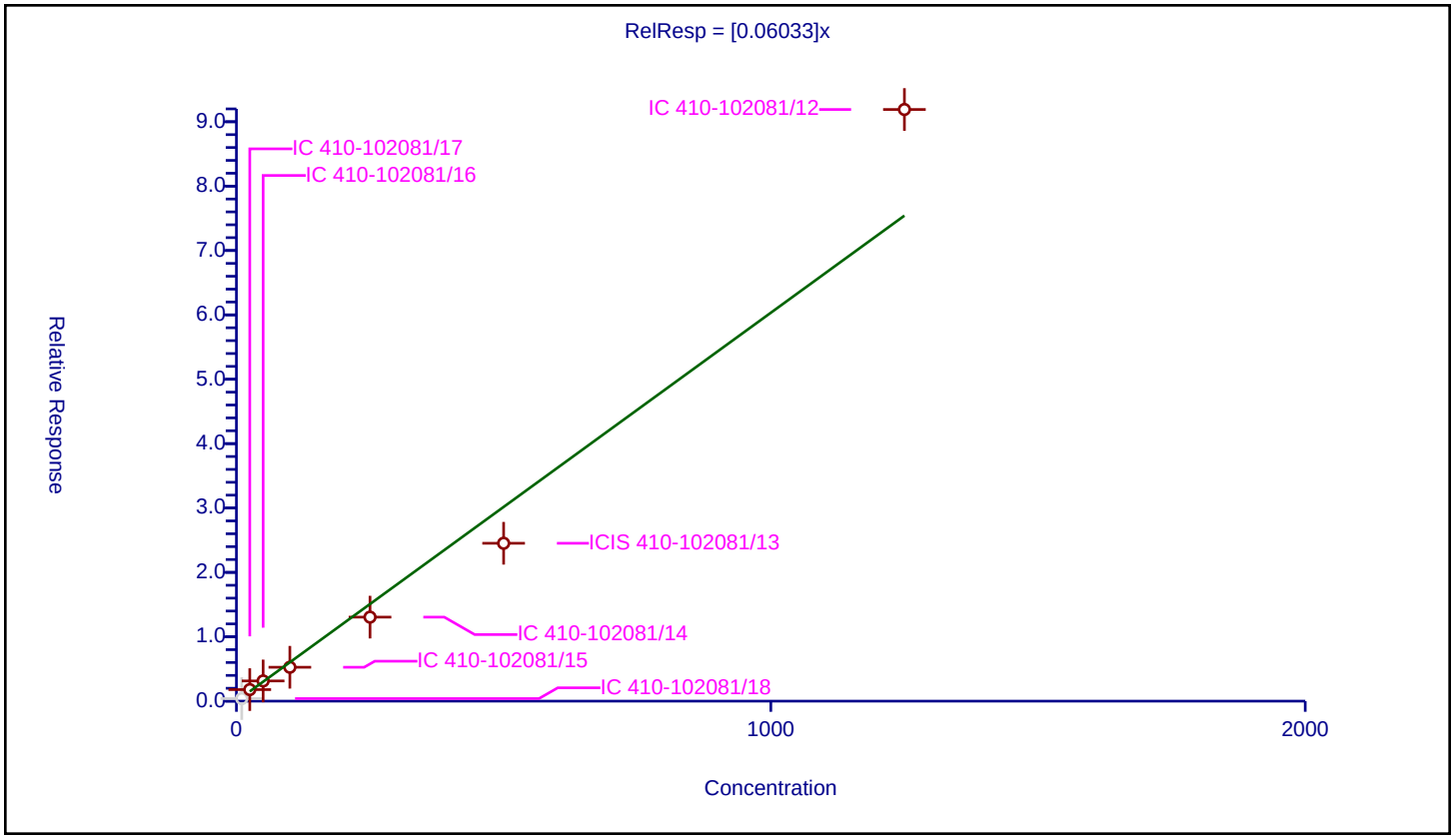
Curve Coefficients

Intercept:	0
Slope:	0.06033

Error Coefficients

Standard Error:	137000
Relative Standard Error:	17.6
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.946

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	10.0	0.397324	50.0	174165.0	0.039732	N
2	IC 410-102081/17	25.0	1.794701	50.0	171087.0	0.071788	Y
3	IC 410-102081/16	50.0	3.139506	50.0	165663.0	0.06279	Y
4	IC 410-102081/15	100.0	5.263645	50.0	173036.0	0.052636	Y
5	IC 410-102081/14	250.0	13.05073	50.0	171477.0	0.052203	Y
6	ICIS 410-102081/13	500.0	24.524926	50.0	195338.0	0.04905	Y
7	IC 410-102081/12	1250.0	91.90609	50.0	155617.0	0.073525	Y



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Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

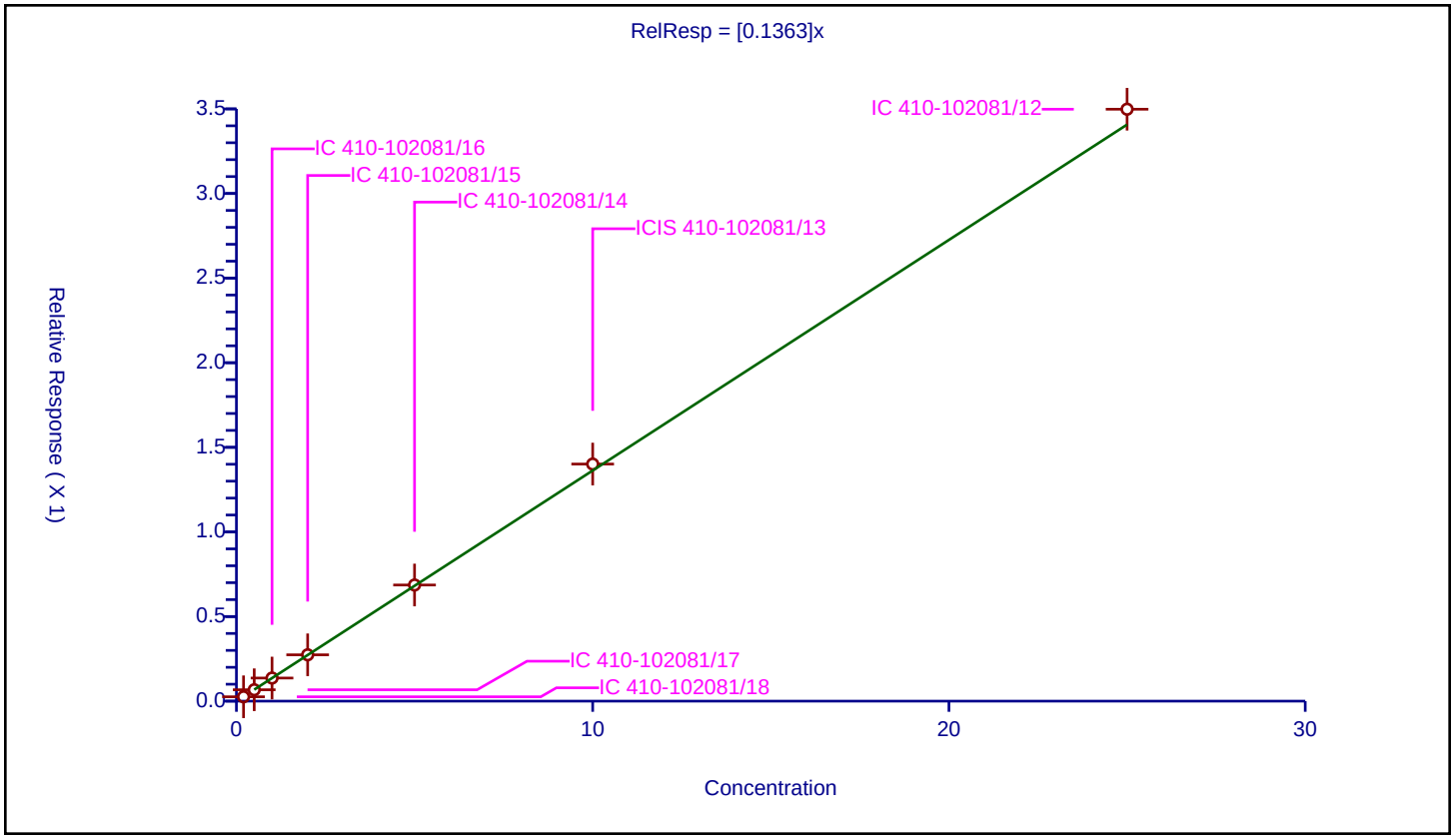
Curve Coefficients

Intercept:	0
Slope:	0.1363

Error Coefficients

Standard Error:	353000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.025745	10.0	2149149.0	0.128725	Y
2	IC 410-102081/17	0.5	0.067225	10.0	2186974.0	0.134451	Y
3	IC 410-102081/16	1.0	0.136617	10.0	2195473.0	0.136617	Y
4	IC 410-102081/15	2.0	0.273802	10.0	2201773.0	0.136901	Y
5	IC 410-102081/14	5.0	0.68638	10.0	2225895.0	0.137276	Y
6	ICIS 410-102081/13	10.0	1.401092	10.0	2227977.0	0.140109	Y
7	IC 410-102081/12	25.0	3.498061	10.0	2252002.0	0.139922	Y



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Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

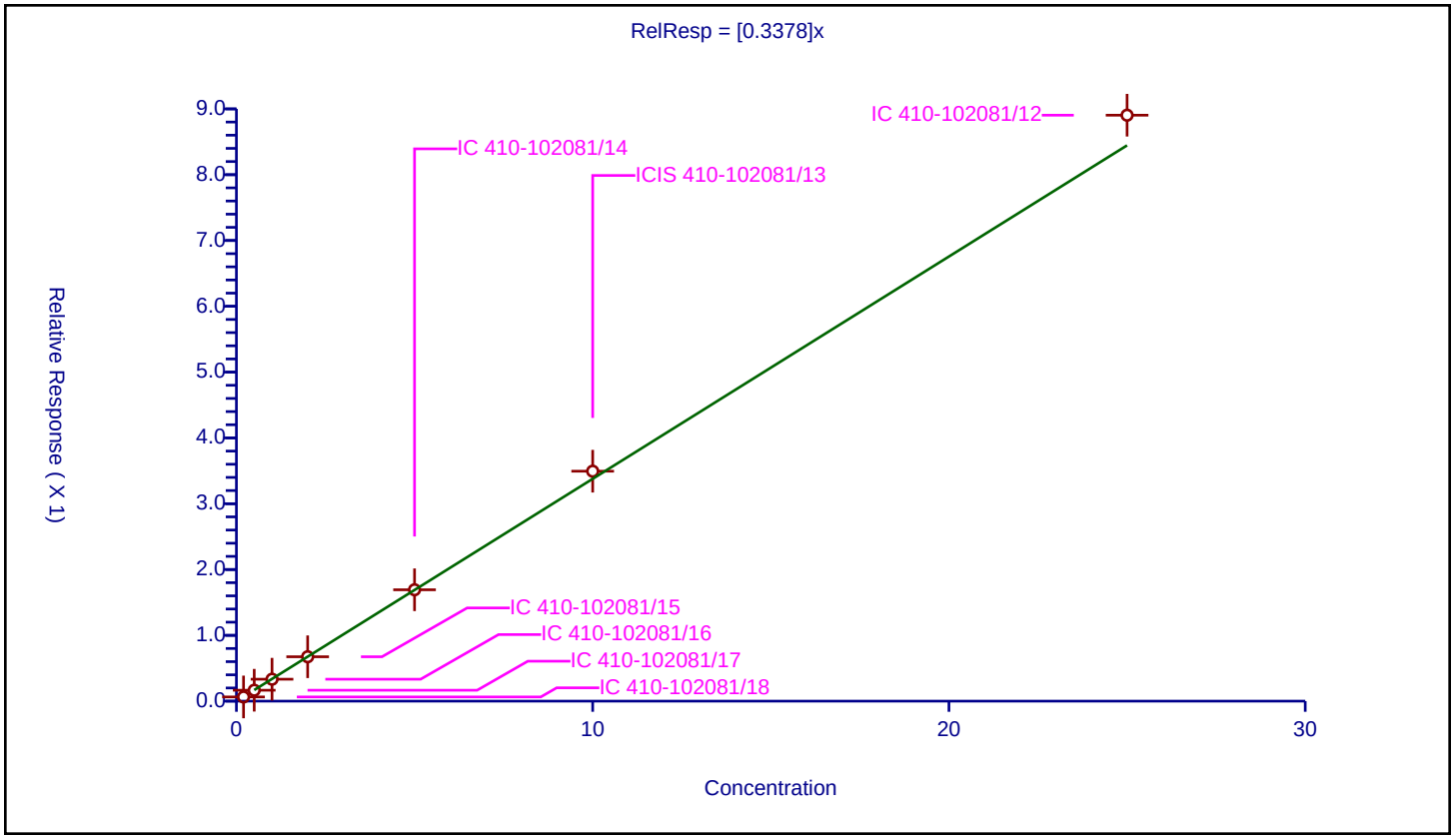
Curve Coefficients

Intercept:	0
Slope:	0.3378

Error Coefficients

Standard Error:	894000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.063746	10.0	2149149.0	0.318731	Y
2	IC 410-102081/17	0.5	0.165731	10.0	2186974.0	0.331463	Y
3	IC 410-102081/16	1.0	0.333199	10.0	2195473.0	0.333199	Y
4	IC 410-102081/15	2.0	0.67462	10.0	2201773.0	0.33731	Y
5	IC 410-102081/14	5.0	1.692492	10.0	2225895.0	0.338498	Y
6	ICIS 410-102081/13	10.0	3.494269	10.0	2227977.0	0.349427	Y
7	IC 410-102081/12	25.0	8.903882	10.0	2252002.0	0.356155	Y



Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

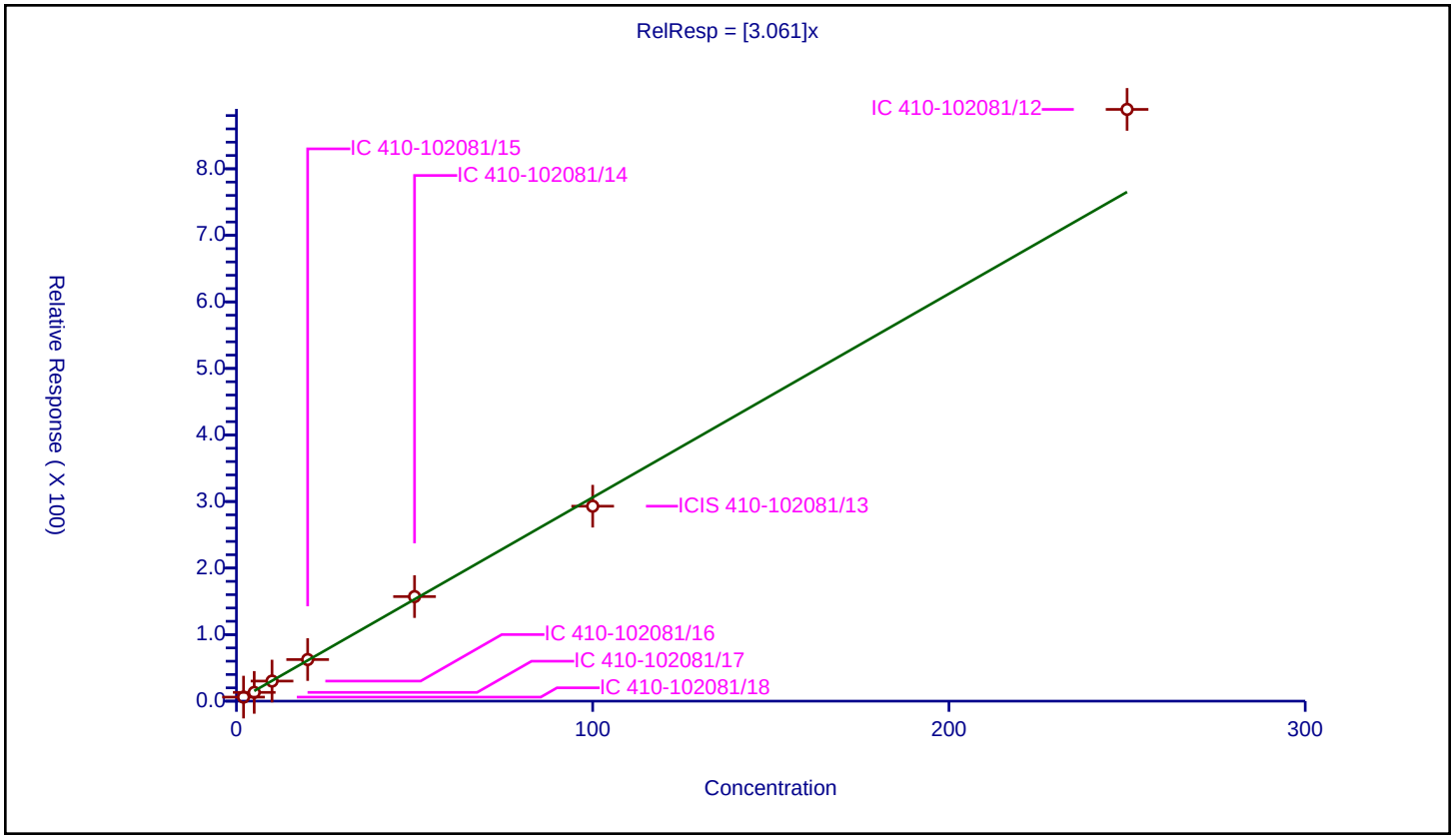
Curve Coefficients

Intercept:	0
Slope:	3.061

Error Coefficients

Standard Error:	1250000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	6.045417	50.0	174165.0	3.022708	Y
2	IC 410-102081/17	5.0	13.166693	50.0	171087.0	2.633339	Y
3	IC 410-102081/16	10.0	30.167871	50.0	165663.0	3.016787	Y
4	IC 410-102081/15	20.0	62.485263	50.0	173036.0	3.124263	Y
5	IC 410-102081/14	50.0	157.108534	50.0	171477.0	3.142171	Y
6	ICIS 410-102081/13	100.0	292.956568	50.0	195338.0	2.929566	Y
7	IC 410-102081/12	250.0	889.243142	50.0	155617.0	3.556973	Y



Calibration / 1-Bromo-2-chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

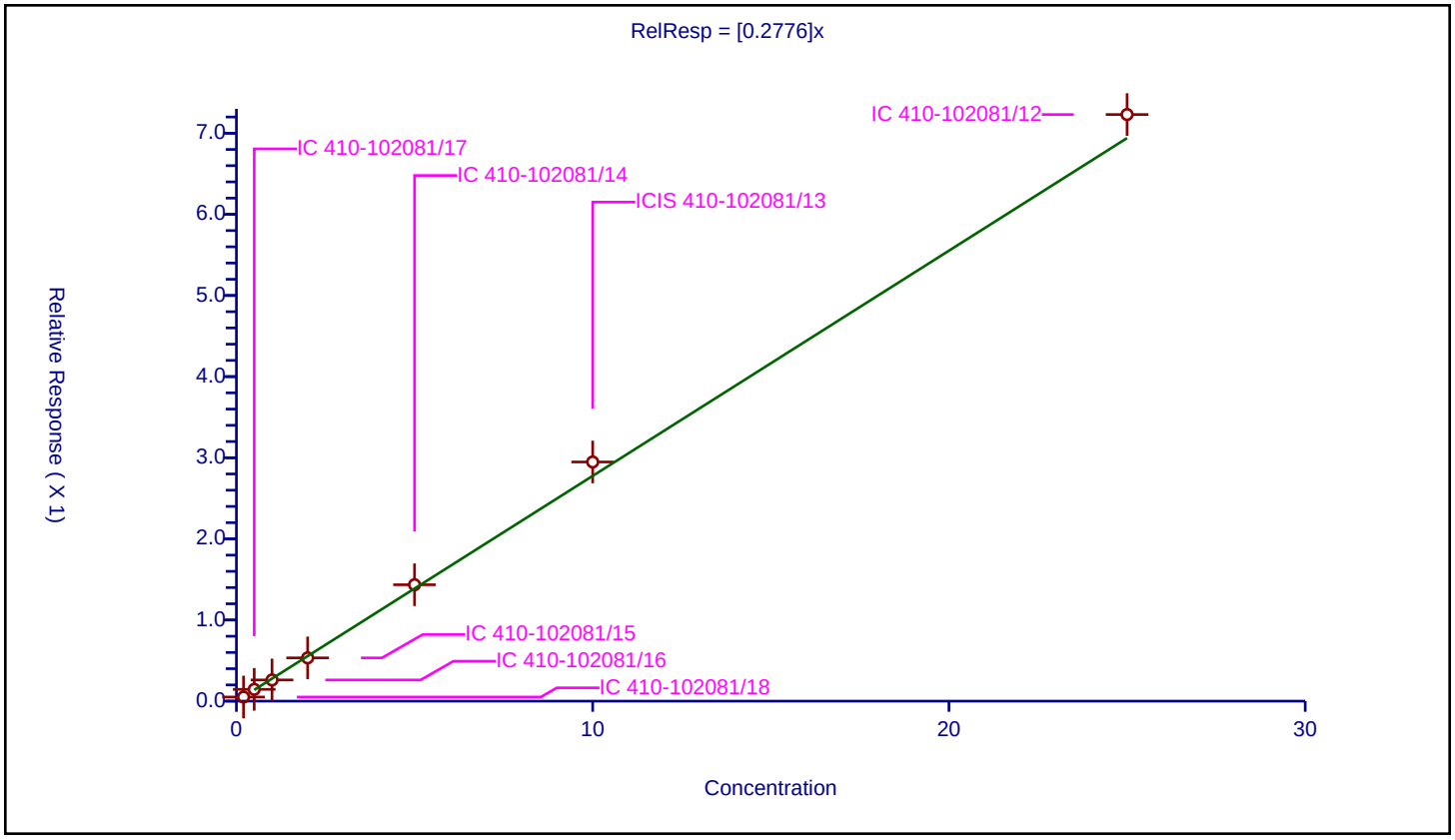
Curve Coefficients

Intercept:	0
Slope:	0.2776

Error Coefficients

Standard Error:	731000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.050736	10.0	2149149.0	0.253682	Y
2	IC 410-102081/17	0.5	0.145406	10.0	2186974.0	0.290813	Y
3	IC 410-102081/16	1.0	0.261069	10.0	2195473.0	0.261069	Y
4	IC 410-102081/15	2.0	0.533438	10.0	2201773.0	0.266719	Y
5	IC 410-102081/14	5.0	1.43474	10.0	2225895.0	0.286948	Y
6	ICIS 410-102081/13	10.0	2.947966	10.0	2227977.0	0.294797	Y
7	IC 410-102081/12	25.0	7.230455	10.0	2252002.0	0.289218	Y



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Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

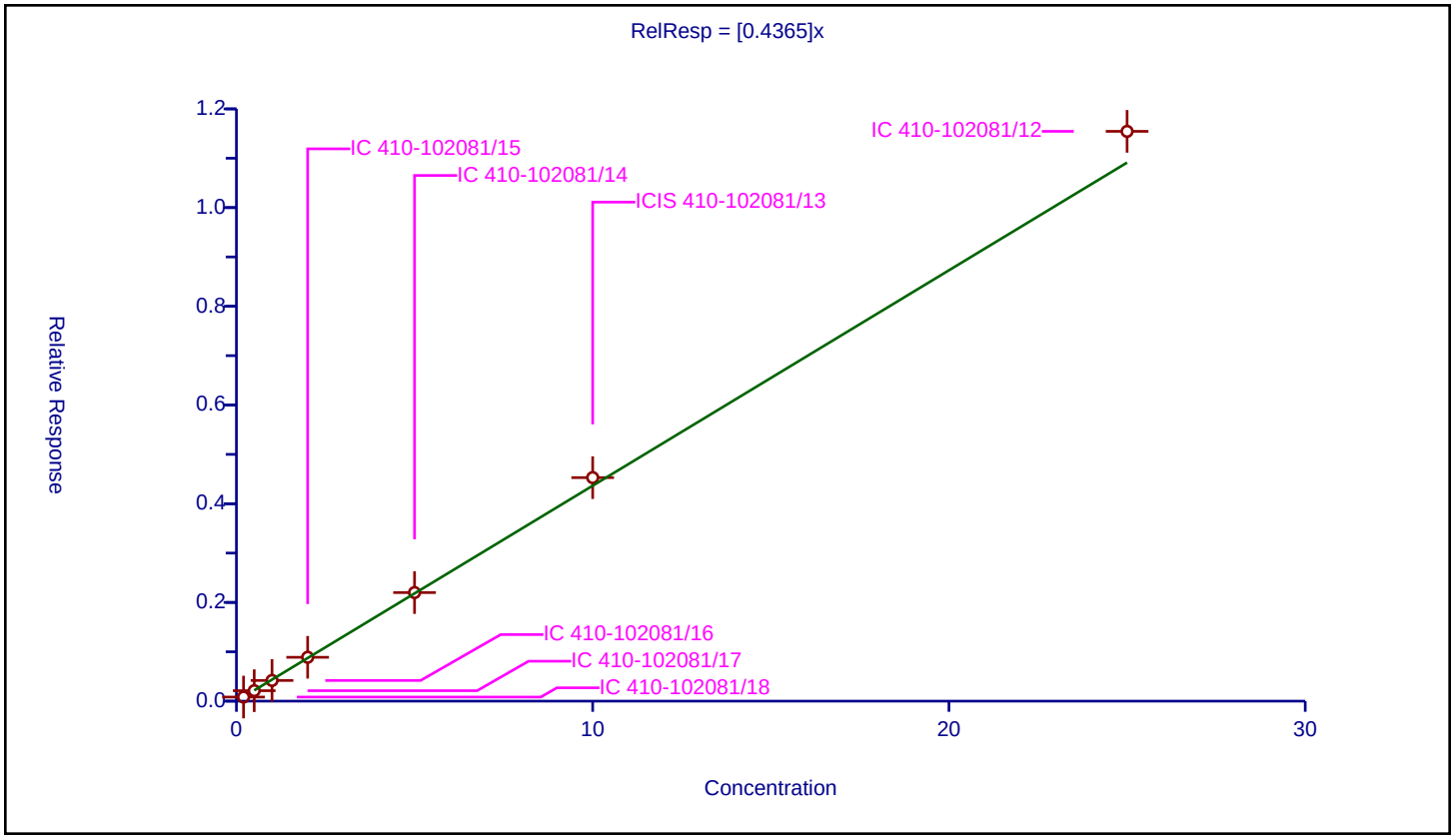
Curve Coefficients

Intercept:	0
Slope:	0.4365

Error Coefficients

Standard Error:	1160000
Relative Standard Error:	4.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.082763	10.0	2149149.0	0.413815	Y
2	IC 410-102081/17	0.5	0.211928	10.0	2186974.0	0.423855	Y
3	IC 410-102081/16	1.0	0.418789	10.0	2195473.0	0.418789	Y
4	IC 410-102081/15	2.0	0.888425	10.0	2201773.0	0.444212	Y
5	IC 410-102081/14	5.0	2.199785	10.0	2225895.0	0.439957	Y
6	ICIS 410-102081/13	10.0	4.529185	10.0	2227977.0	0.452918	Y
7	IC 410-102081/12	25.0	11.544799	10.0	2252002.0	0.461792	Y



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Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

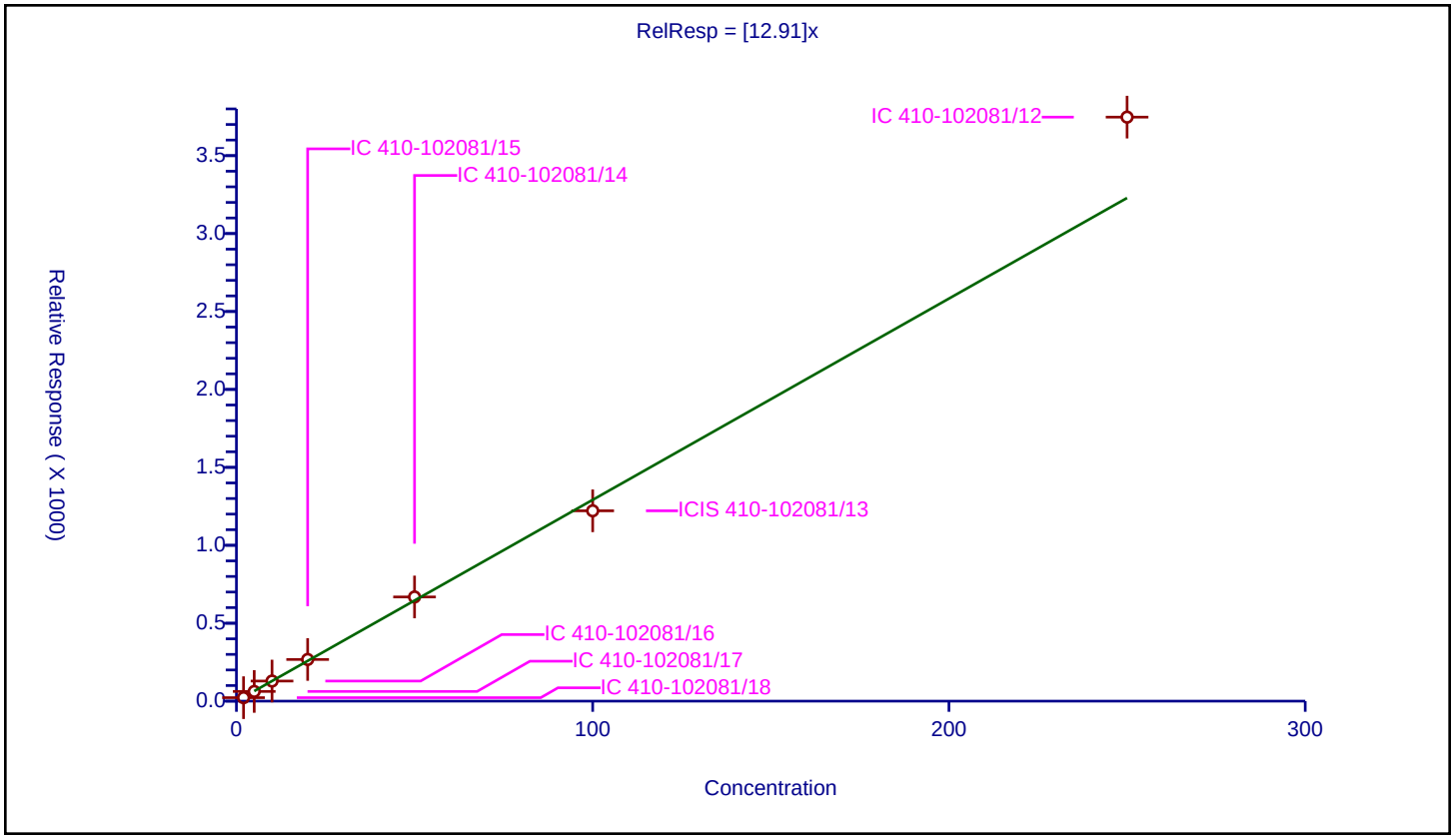
Curve Coefficients

Intercept:	0
Slope:	12.91

Error Coefficients

Standard Error:	5240000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	22.2516	50.0	174165.0	11.1258	Y
2	IC 410-102081/17	5.0	62.245816	50.0	171087.0	12.449163	Y
3	IC 410-102081/16	10.0	128.896615	50.0	165663.0	12.889662	Y
4	IC 410-102081/15	20.0	267.34928	50.0	173036.0	13.367464	Y
5	IC 410-102081/14	50.0	668.358147	50.0	171477.0	13.367163	Y
6	ICIS 410-102081/13	100.0	1221.320736	50.0	195338.0	12.213207	Y
7	IC 410-102081/12	250.0	3747.132383	50.0	155617.0	14.98853	Y



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Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

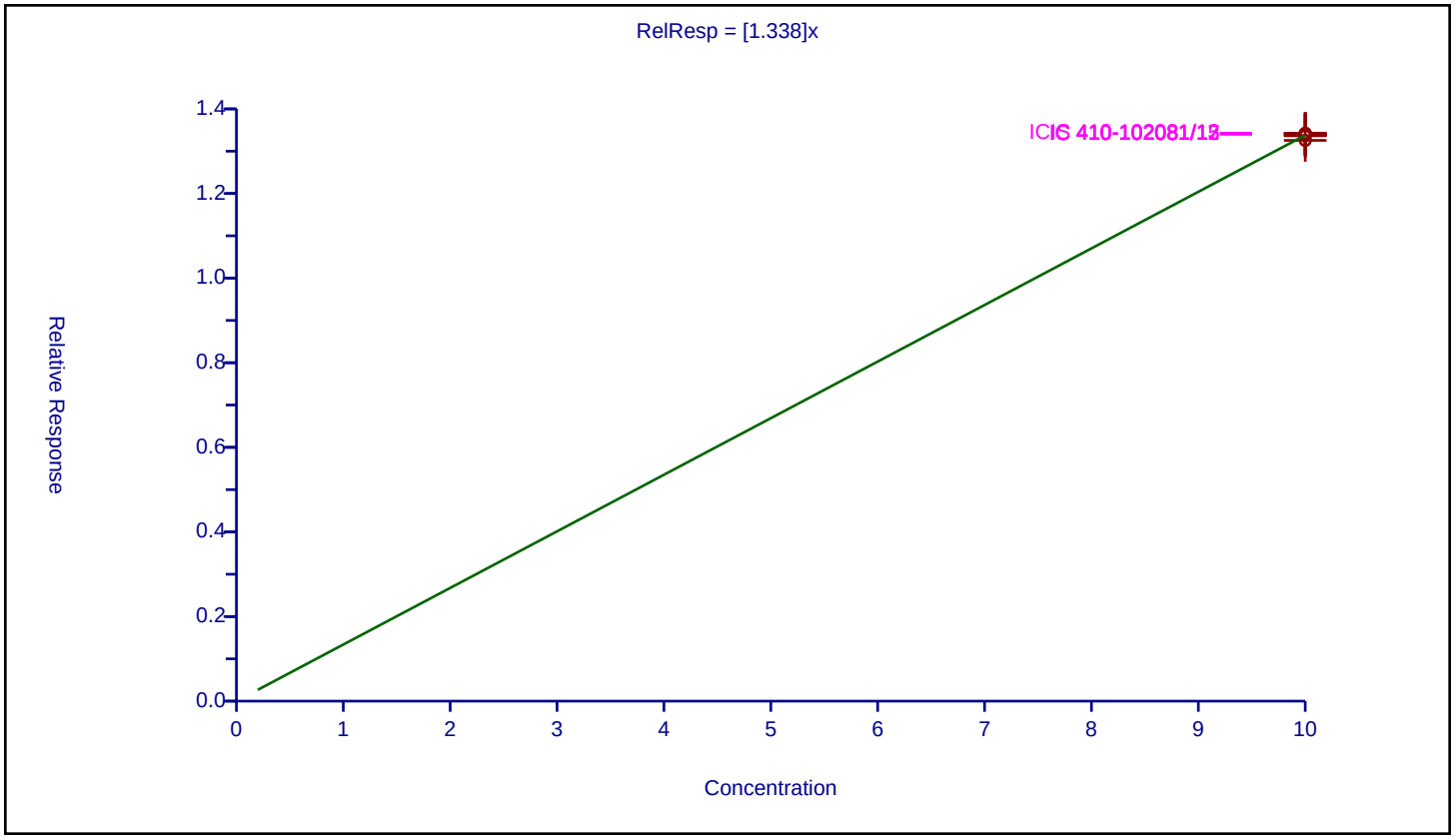
Curve Coefficients

Intercept:	0
Slope:	1.338

Error Coefficients

Standard Error:	2350000
Relative Standard Error:	0.4
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	13.415011	10.0	1650800.0	1.341501	Y
2	ICIS 410-102081/13	10.0	13.42376	10.0	1638044.0	1.342376	Y
3	IC 410-102081/14	10.0	13.371223	10.0	1639832.0	1.337122	Y
4	IC 410-102081/15	10.0	13.406207	10.0	1624493.0	1.340621	Y
5	IC 410-102081/16	10.0	13.256045	10.0	1619173.0	1.325604	Y
6	IC 410-102081/17	10.0	13.407224	10.0	1612013.0	1.340722	Y
7	IC 410-102081/18	10.0	13.363332	10.0	1589174.0	1.336333	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

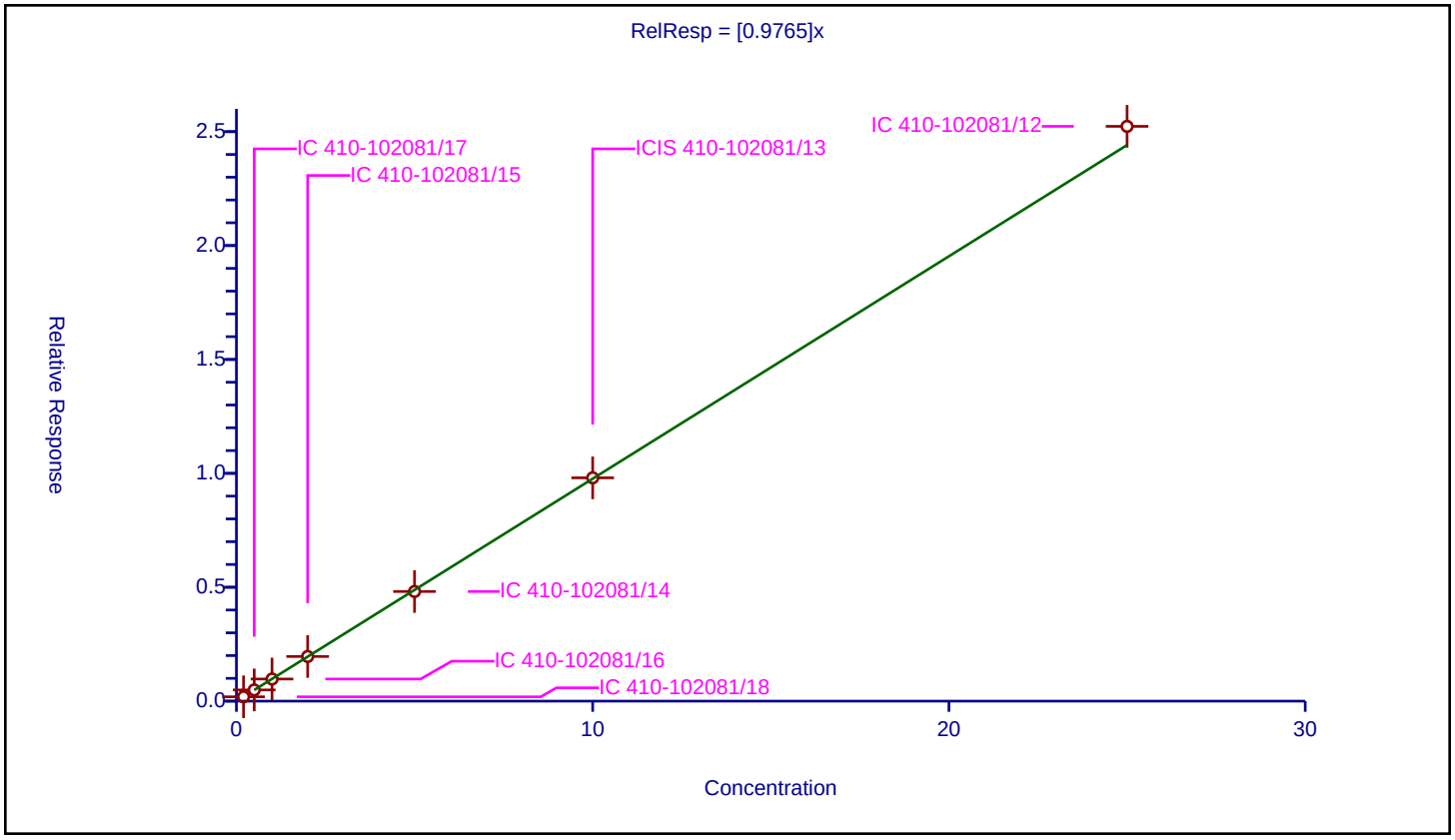
Curve Coefficients

Intercept:	0
Slope:	0.9765

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	2.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.189658	10.0	1589174.0	0.948291	Y
2	IC 410-102081/17	0.5	0.491851	10.0	1612013.0	0.983702	Y
3	IC 410-102081/16	1.0	0.970798	10.0	1619173.0	0.970798	Y
4	IC 410-102081/15	2.0	1.960464	10.0	1624493.0	0.980232	Y
5	IC 410-102081/14	5.0	4.813487	10.0	1639832.0	0.962697	Y
6	ICIS 410-102081/13	10.0	9.803992	10.0	1638044.0	0.980399	Y
7	IC 410-102081/12	25.0	25.233553	10.0	1650800.0	1.009342	Y



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Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

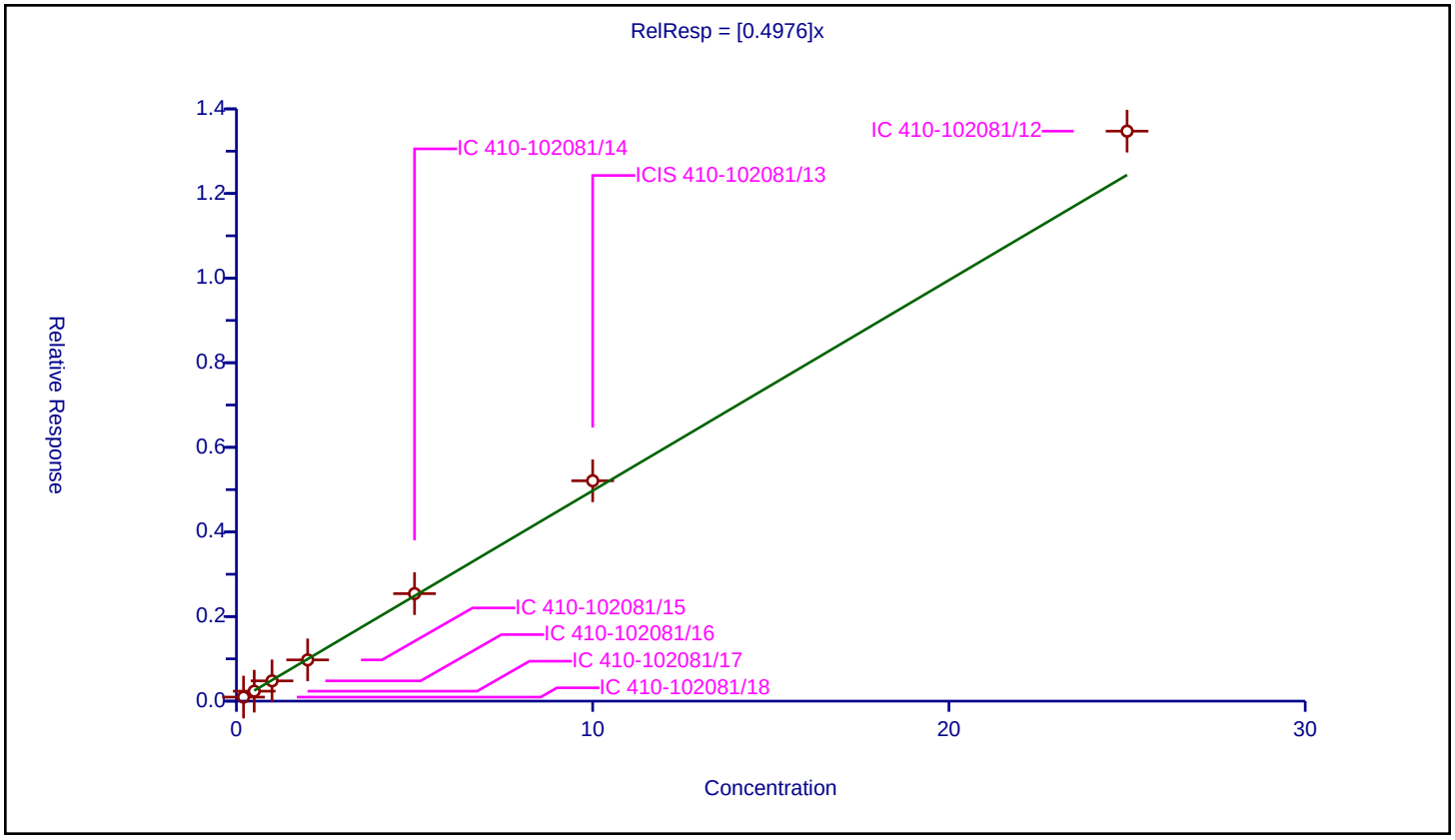
Curve Coefficients

Intercept:	0
Slope:	0.4976

Error Coefficients

Standard Error:	990000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.095546	10.0	1589174.0	0.477732	Y
2	IC 410-102081/17	0.5	0.235612	10.0	1612013.0	0.471224	Y
3	IC 410-102081/16	1.0	0.478516	10.0	1619173.0	0.478516	Y
4	IC 410-102081/15	2.0	0.97463	10.0	1624493.0	0.487315	Y
5	IC 410-102081/14	5.0	2.541449	10.0	1639832.0	0.50829	Y
6	ICIS 410-102081/13	10.0	5.209164	10.0	1638044.0	0.520916	Y
7	IC 410-102081/12	25.0	13.474376	10.0	1650800.0	0.538975	Y



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Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

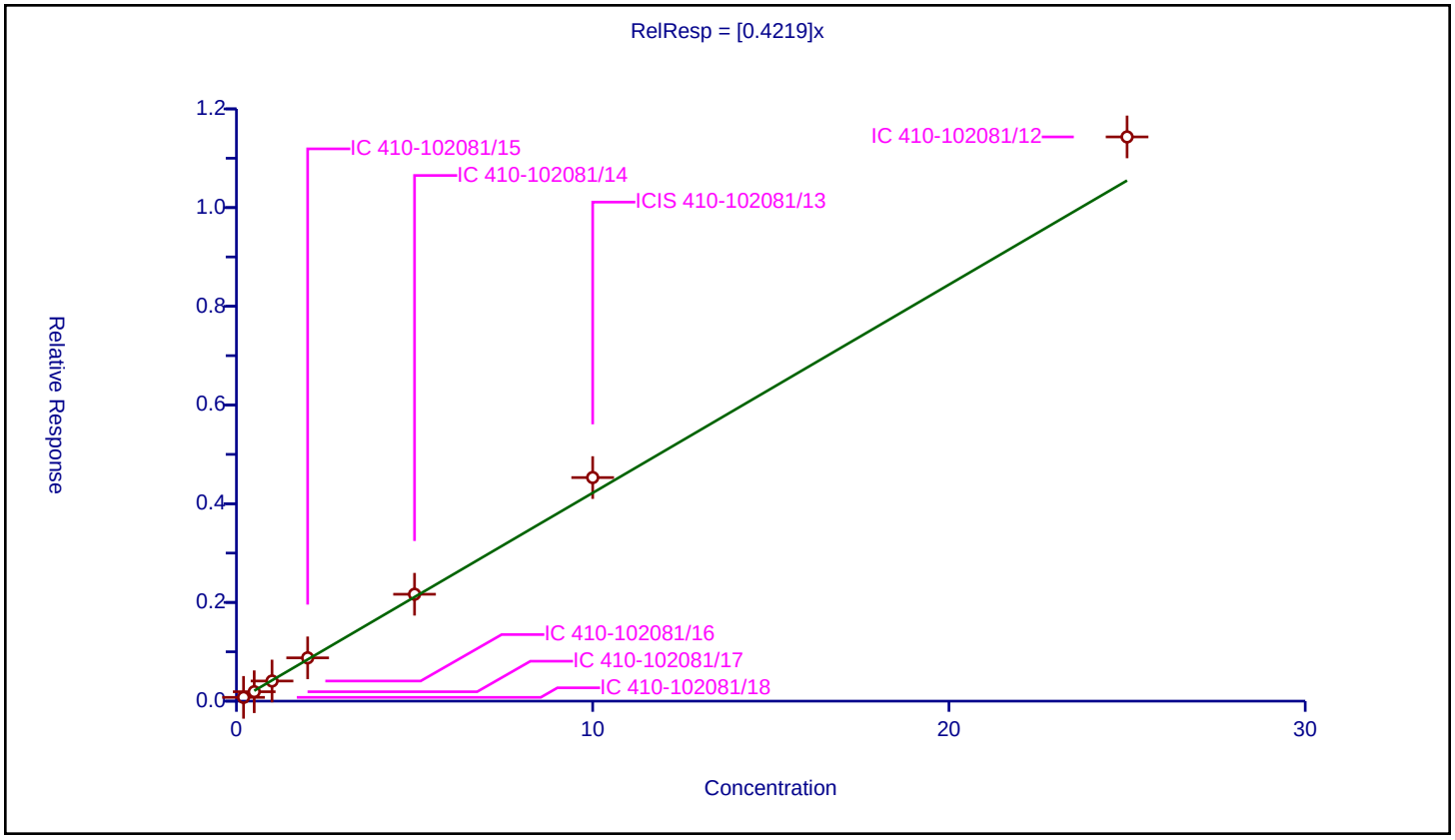
Curve Coefficients

Intercept:	0
Slope:	0.4219

Error Coefficients

Standard Error:	843000
Relative Standard Error:	7.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.076323	10.0	1589174.0	0.381613	Y
2	IC 410-102081/17	0.5	0.190979	10.0	1612013.0	0.381957	Y
3	IC 410-102081/16	1.0	0.40785	10.0	1619173.0	0.40785	Y
4	IC 410-102081/15	2.0	0.877363	10.0	1624493.0	0.438681	Y
5	IC 410-102081/14	5.0	2.165935	10.0	1639832.0	0.433187	Y
6	ICIS 410-102081/13	10.0	4.530318	10.0	1638044.0	0.453032	Y
7	IC 410-102081/12	25.0	11.43253	10.0	1650800.0	0.457301	Y



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Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

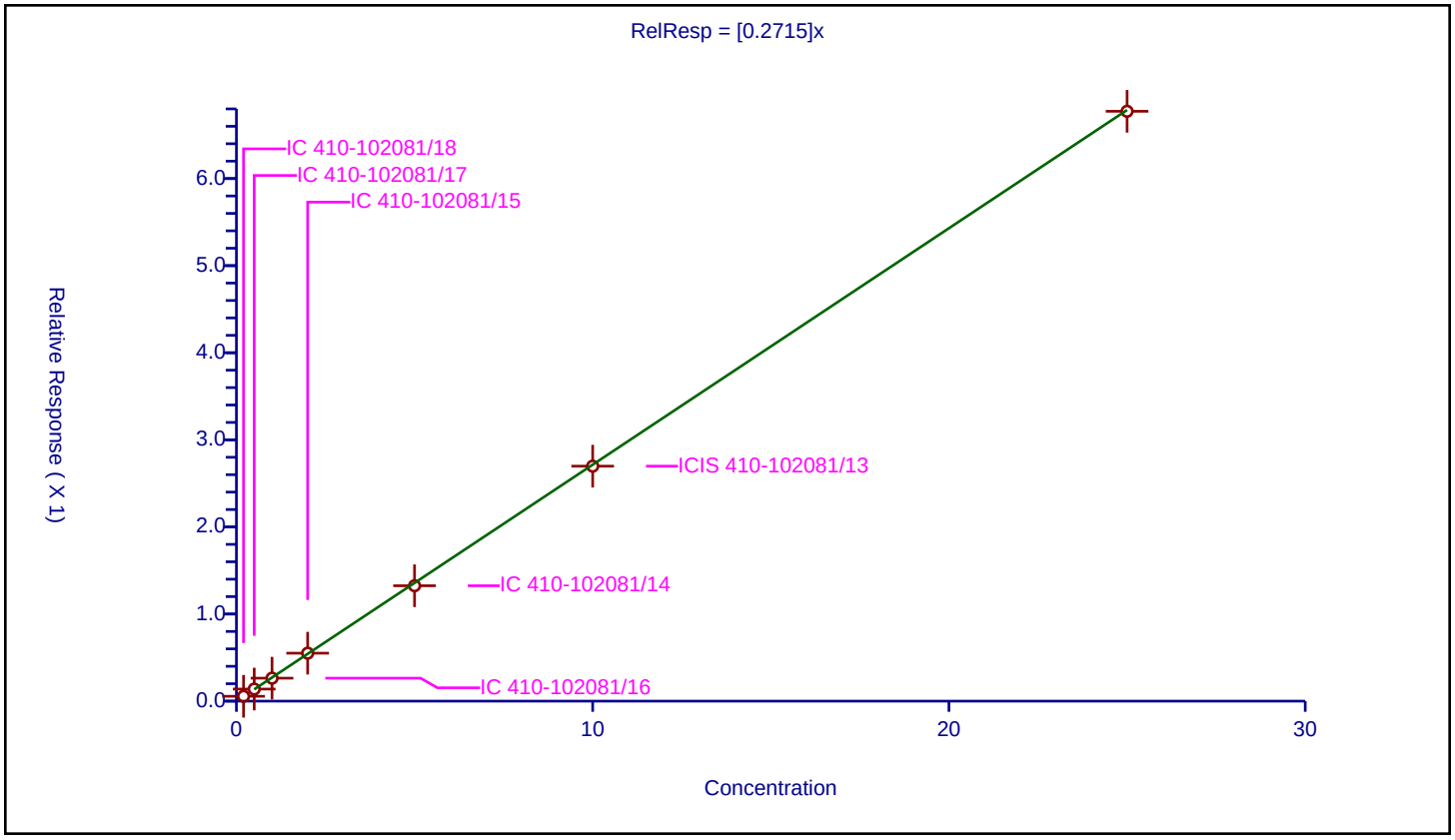
Curve Coefficients

Intercept:	0
Slope:	0.2715

Error Coefficients

Standard Error:	500000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.055765	10.0	1589174.0	0.278824	Y
2	IC 410-102081/17	0.5	0.138535	10.0	1612013.0	0.27707	Y
3	IC 410-102081/16	1.0	0.263641	10.0	1619173.0	0.263641	Y
4	IC 410-102081/15	2.0	0.550449	10.0	1624493.0	0.275224	Y
5	IC 410-102081/14	5.0	1.324867	10.0	1639832.0	0.264973	Y
6	ICIS 410-102081/13	10.0	2.697809	10.0	1638044.0	0.269781	Y
7	IC 410-102081/12	25.0	6.772329	10.0	1650800.0	0.270893	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

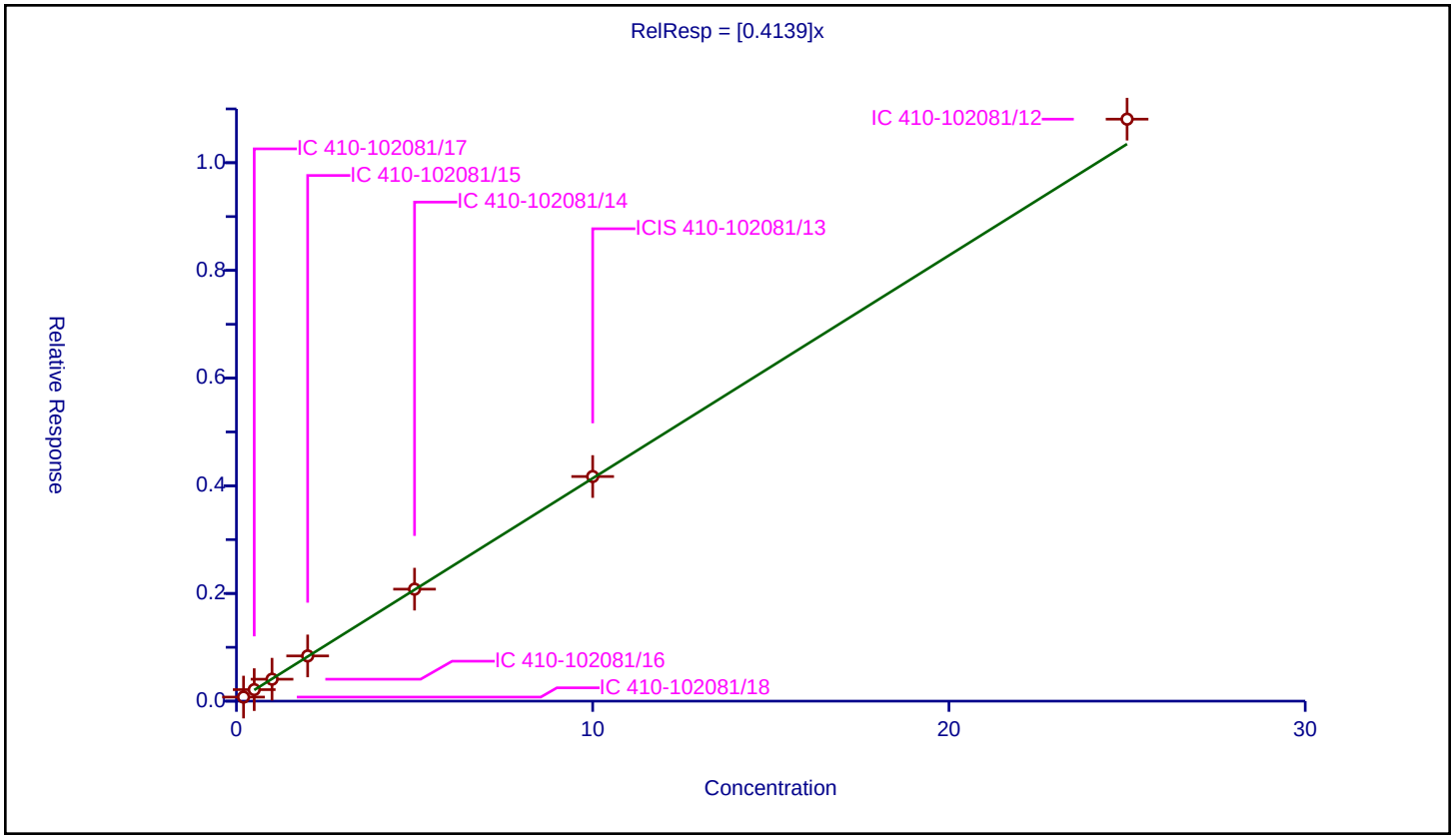
Curve Coefficients

Intercept:	0
Slope:	0.4139

Error Coefficients

Standard Error:	795000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.075385	10.0	1589174.0	0.376925	Y
2	IC 410-102081/17	0.5	0.213931	10.0	1612013.0	0.427863	Y
3	IC 410-102081/16	1.0	0.407301	10.0	1619173.0	0.407301	Y
4	IC 410-102081/15	2.0	0.839487	10.0	1624493.0	0.419743	Y
5	IC 410-102081/14	5.0	2.079963	10.0	1639832.0	0.415993	Y
6	ICIS 410-102081/13	10.0	4.171817	10.0	1638044.0	0.417182	Y
7	IC 410-102081/12	25.0	10.809523	10.0	1650800.0	0.432381	Y



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Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

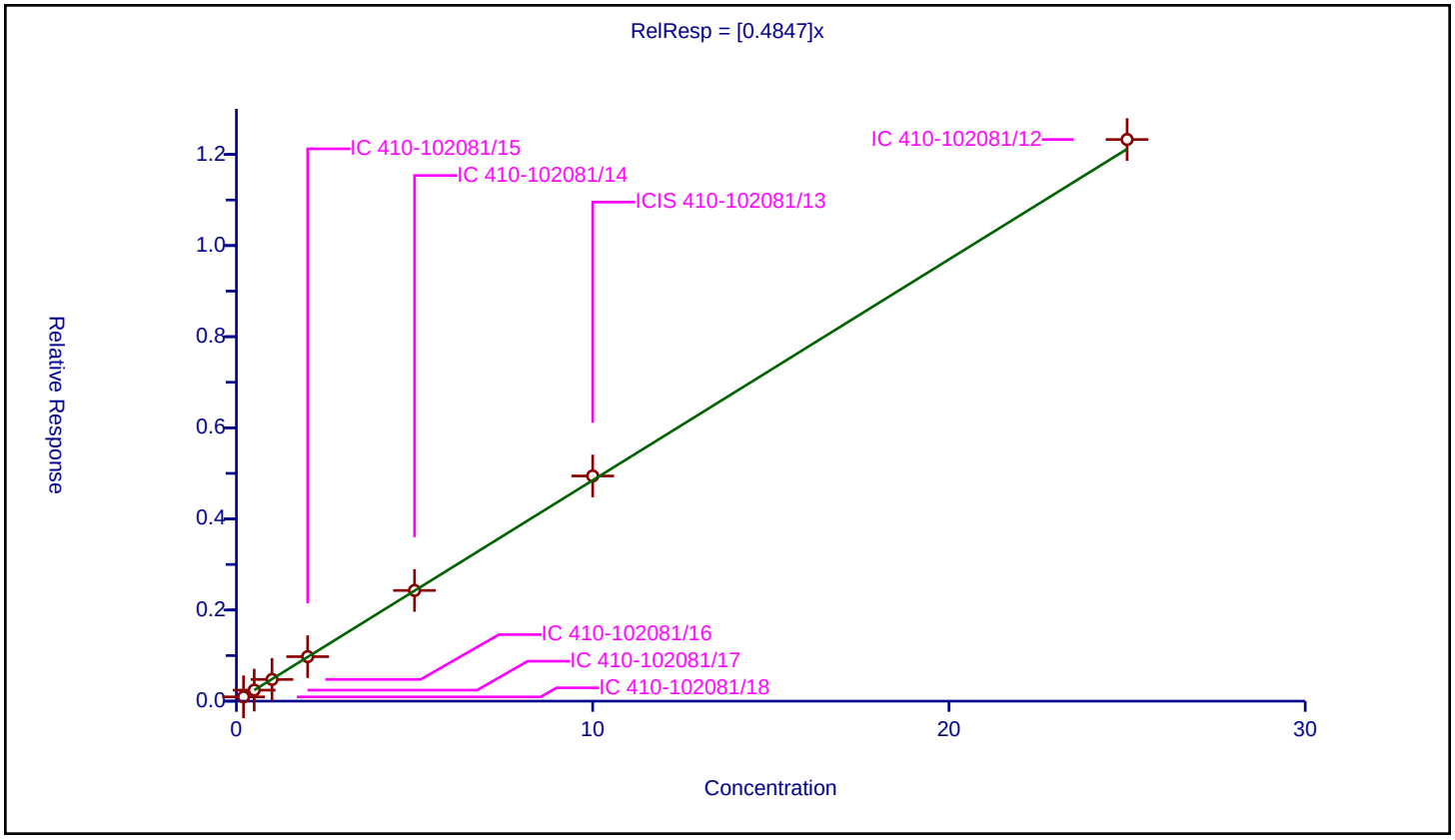
Curve Coefficients

Intercept:	0
Slope:	0.4847

Error Coefficients

Standard Error:	912000
Relative Standard Error:	1.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.094087	10.0	1589174.0	0.470433	Y
2	IC 410-102081/17	0.5	0.242331	10.0	1612013.0	0.484661	Y
3	IC 410-102081/16	1.0	0.476367	10.0	1619173.0	0.476367	Y
4	IC 410-102081/15	2.0	0.976736	10.0	1624493.0	0.488368	Y
5	IC 410-102081/14	5.0	2.42984	10.0	1639832.0	0.485968	Y
6	ICIS 410-102081/13	10.0	4.942798	10.0	1638044.0	0.49428	Y
7	IC 410-102081/12	25.0	12.327962	10.0	1650800.0	0.493118	Y



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Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

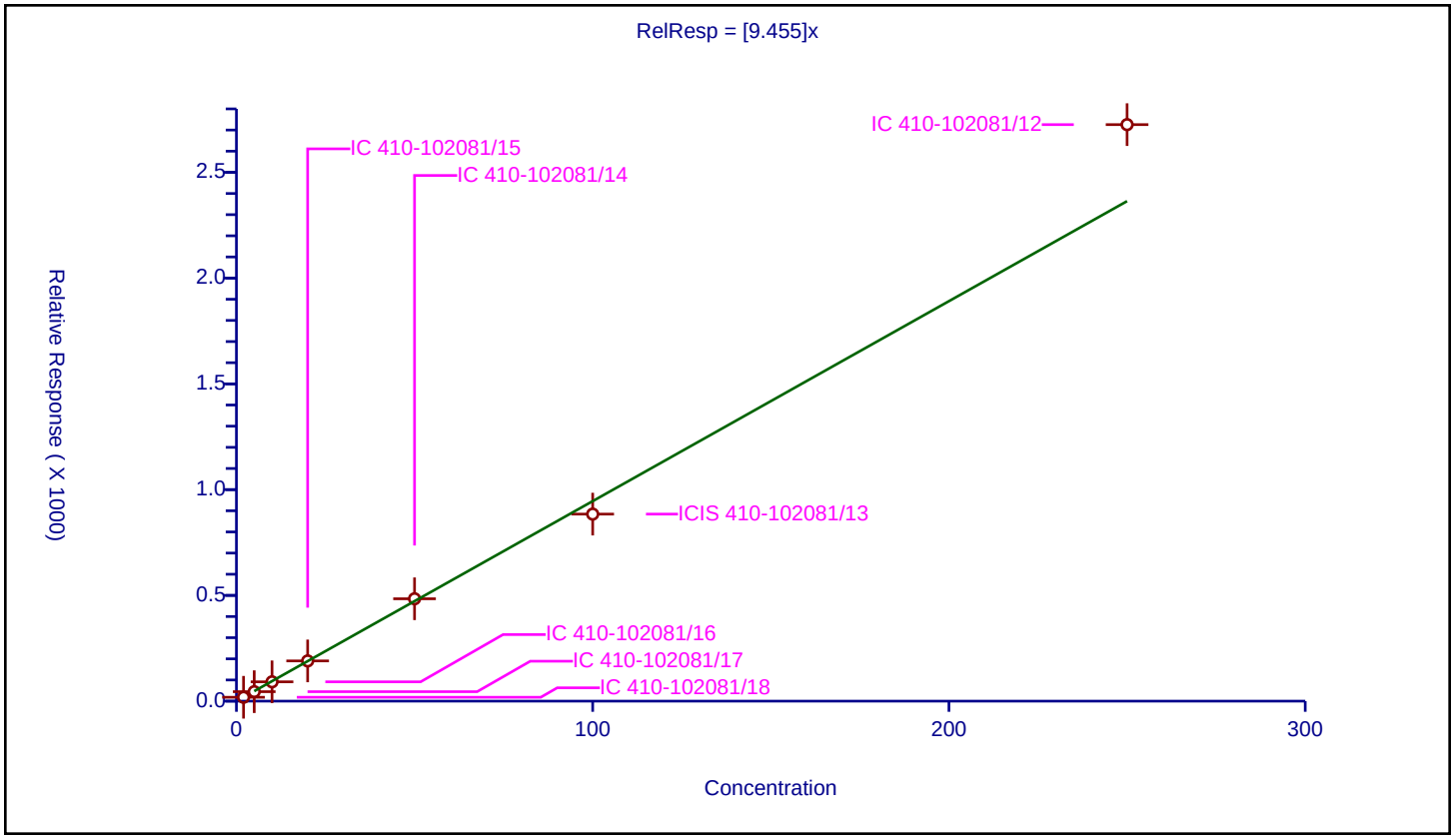
Curve Coefficients

Intercept:	0
Slope:	9.455

Error Coefficients

Standard Error:	3810000
Relative Standard Error:	7.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	18.315678	50.0	174165.0	9.157839	Y
2	IC 410-102081/17	5.0	44.801768	50.0	171087.0	8.960354	Y
3	IC 410-102081/16	10.0	91.32516	50.0	165663.0	9.132516	Y
4	IC 410-102081/15	20.0	190.205795	50.0	173036.0	9.51029	Y
5	IC 410-102081/14	50.0	483.991148	50.0	171477.0	9.679823	Y
6	ICIS 410-102081/13	100.0	884.245769	50.0	195338.0	8.842458	Y
7	IC 410-102081/12	250.0	2725.588785	50.0	155617.0	10.902355	Y



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Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

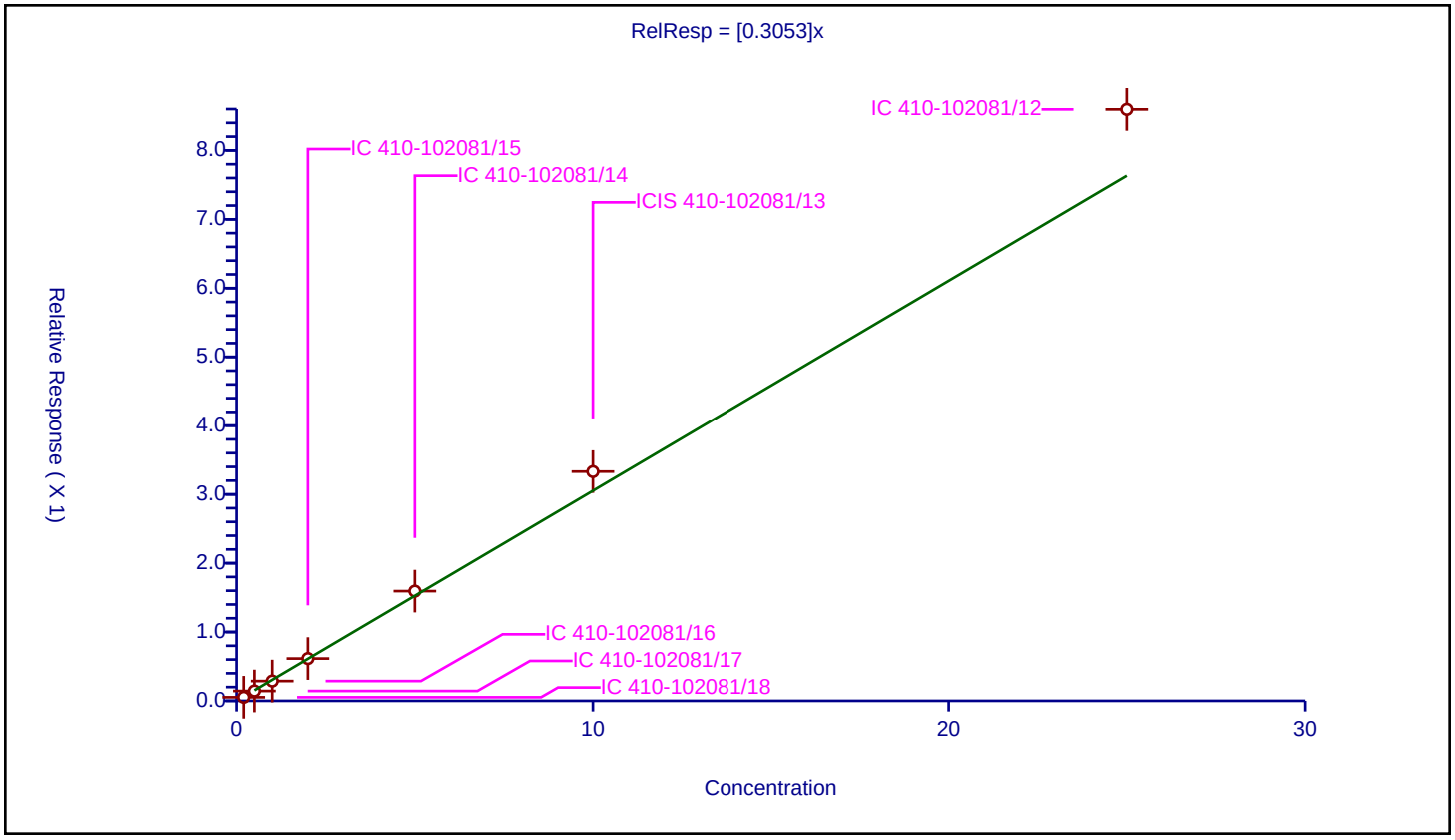
Curve Coefficients

Intercept:	0
Slope:	0.3053

Error Coefficients

Standard Error:	631000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.052115	10.0	1589174.0	0.260576	Y
2	IC 410-102081/17	0.5	0.143101	10.0	1612013.0	0.286201	Y
3	IC 410-102081/16	1.0	0.287492	10.0	1619173.0	0.287492	Y
4	IC 410-102081/15	2.0	0.614204	10.0	1624493.0	0.307102	Y
5	IC 410-102081/14	5.0	1.594535	10.0	1639832.0	0.318907	Y
6	ICIS 410-102081/13	10.0	3.331889	10.0	1638044.0	0.333189	Y
7	IC 410-102081/12	25.0	8.595487	10.0	1650800.0	0.343819	Y



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Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

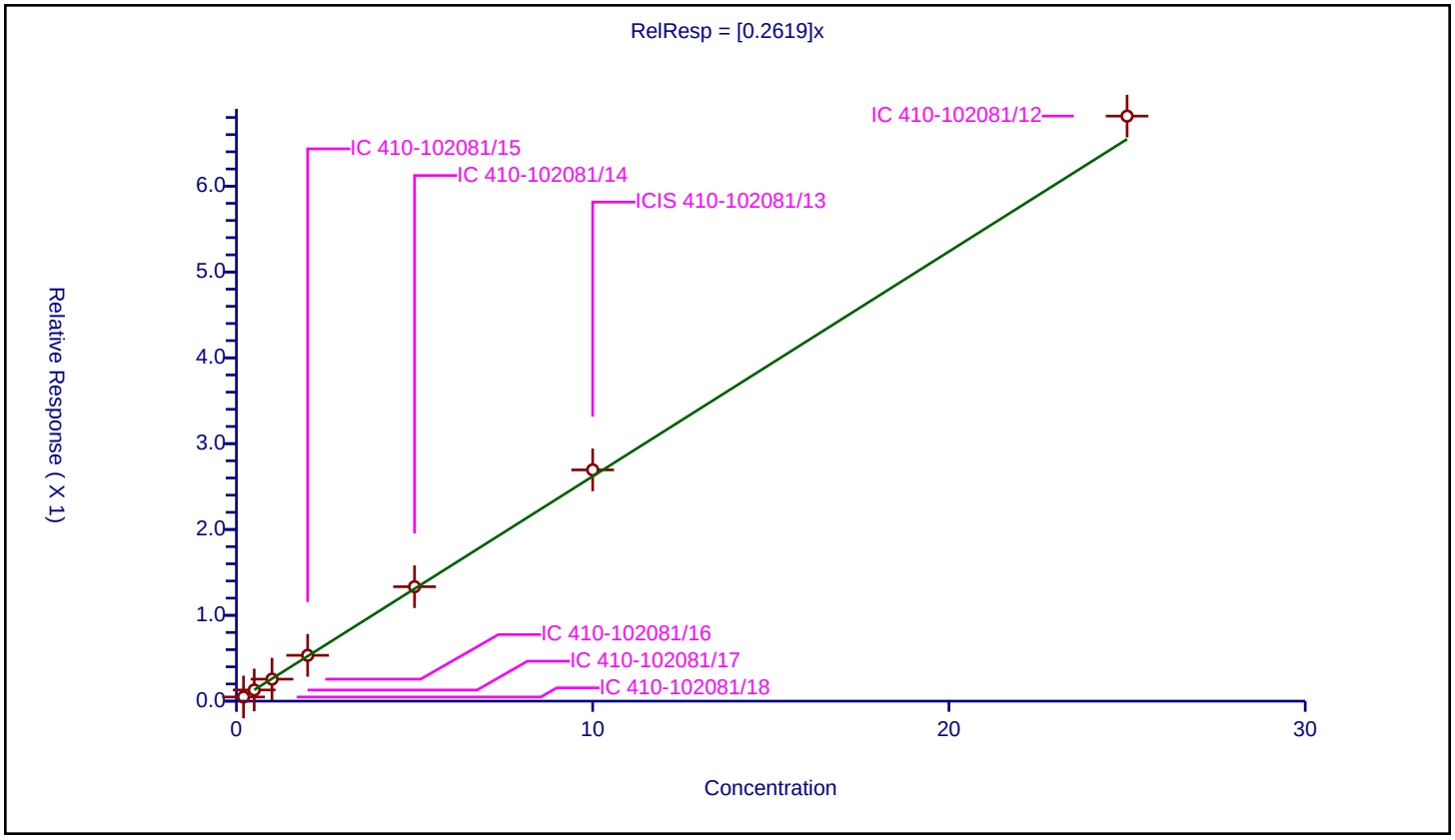
Curve Coefficients

Intercept:	0
Slope:	0.2619

Error Coefficients

Standard Error:	503000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.04822	10.0	1589174.0	0.2411	Y
2	IC 410-102081/17	0.5	0.13003	10.0	1612013.0	0.26006	Y
3	IC 410-102081/16	1.0	0.256545	10.0	1619173.0	0.256545	Y
4	IC 410-102081/15	2.0	0.533859	10.0	1624493.0	0.266929	Y
5	IC 410-102081/14	5.0	1.333051	10.0	1639832.0	0.26661	Y
6	ICIS 410-102081/13	10.0	2.694287	10.0	1638044.0	0.269429	Y
7	IC 410-102081/12	25.0	6.815871	10.0	1650800.0	0.272635	Y



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Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

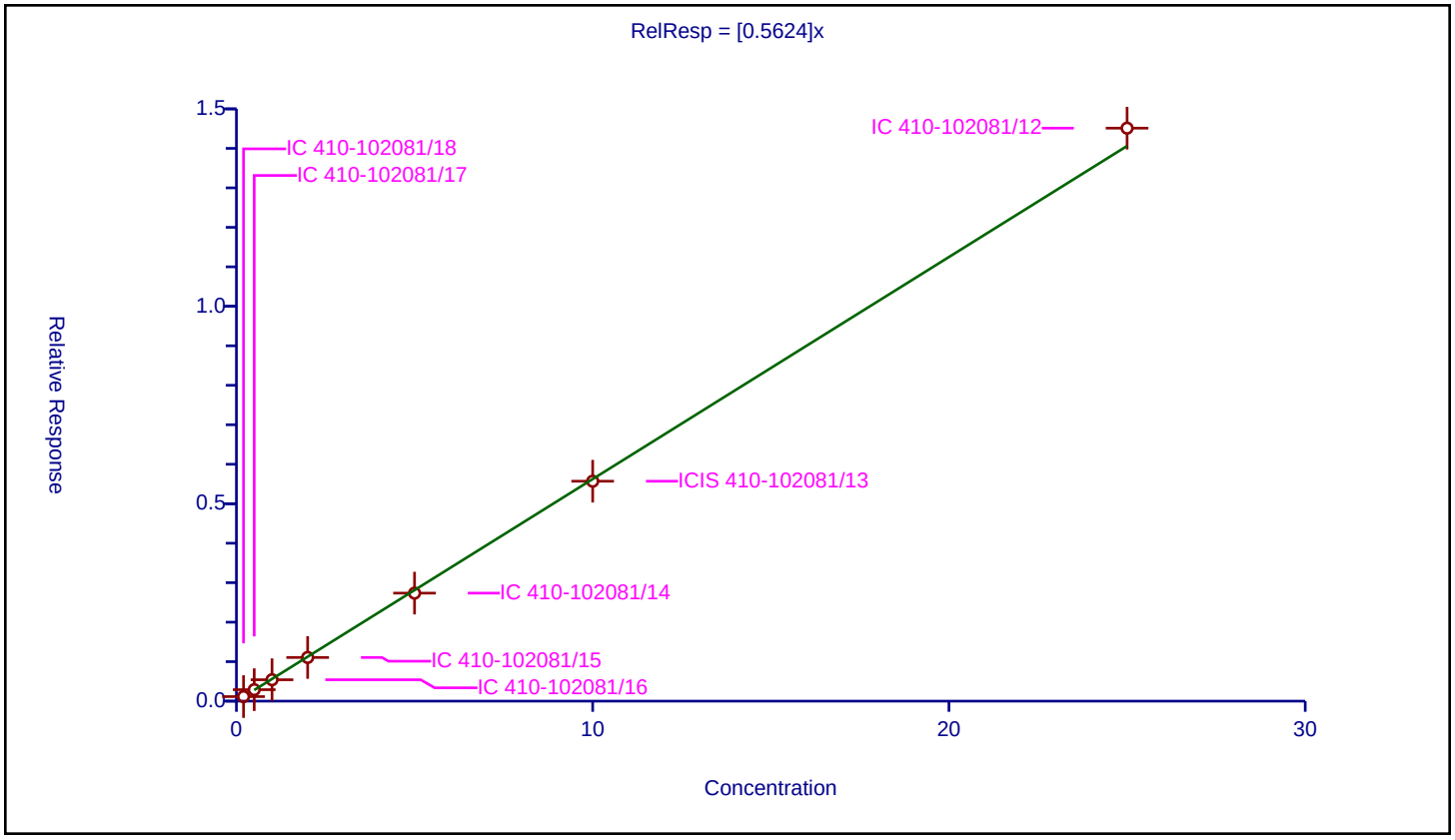
Curve Coefficients

Intercept:	0
Slope:	0.5624

Error Coefficients

Standard Error:	1070000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.115091	10.0	1589174.0	0.575456	Y
2	IC 410-102081/17	0.5	0.290692	10.0	1612013.0	0.581385	Y
3	IC 410-102081/16	1.0	0.542339	10.0	1619173.0	0.542339	Y
4	IC 410-102081/15	2.0	1.106025	10.0	1624493.0	0.553013	Y
5	IC 410-102081/14	5.0	2.735524	10.0	1639832.0	0.547105	Y
6	ICIS 410-102081/13	10.0	5.570198	10.0	1638044.0	0.55702	Y
7	IC 410-102081/12	25.0	14.5122	10.0	1650800.0	0.580488	Y



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Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

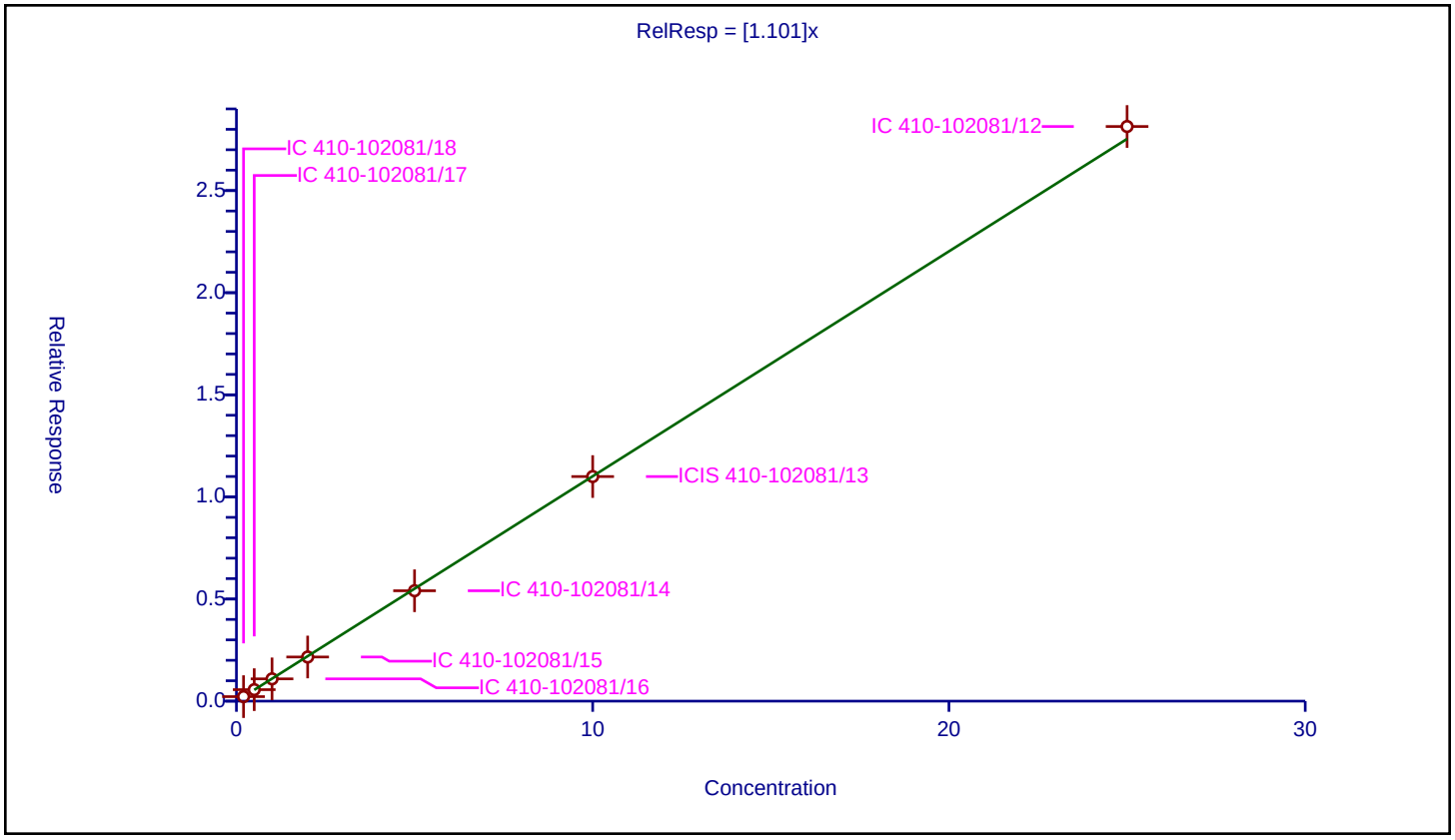
Curve Coefficients

Intercept:	0
Slope:	1.101

Error Coefficients

Standard Error:	2070000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.220788	10.0	1589174.0	1.103938	Y
2	IC 410-102081/17	0.5	0.563383	10.0	1612013.0	1.126765	Y
3	IC 410-102081/16	1.0	1.090804	10.0	1619173.0	1.090804	Y
4	IC 410-102081/15	2.0	2.161659	10.0	1624493.0	1.08083	Y
5	IC 410-102081/14	5.0	5.40517	10.0	1639832.0	1.081034	Y
6	ICIS 410-102081/13	10.0	10.996683	10.0	1638044.0	1.099668	Y
7	IC 410-102081/12	25.0	28.137727	10.0	1650800.0	1.125509	Y



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Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

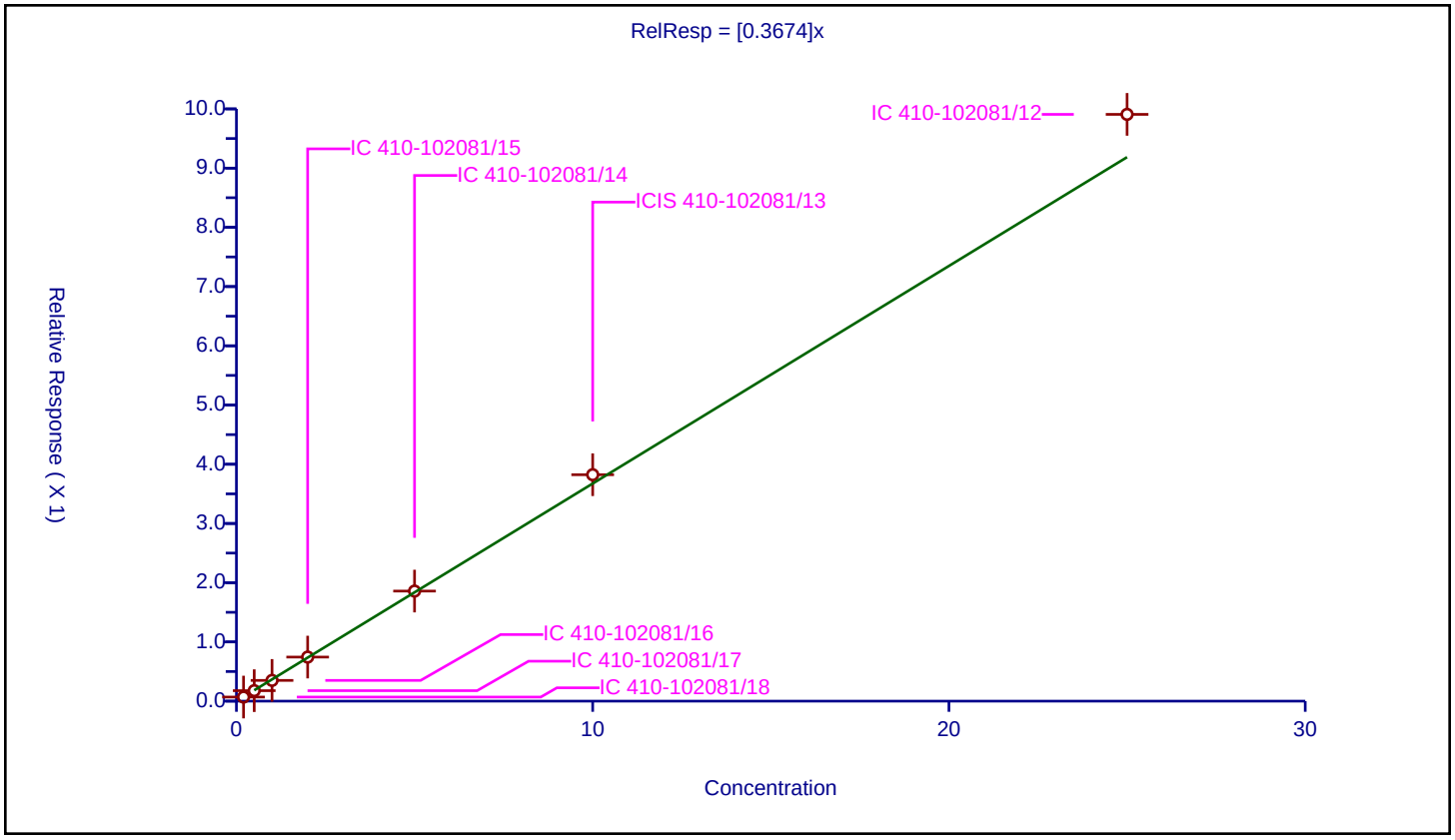
Curve Coefficients

Intercept:	0
Slope:	0.3674

Error Coefficients

Standard Error:	728000
Relative Standard Error:	5.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.069004	10.0	1589174.0	0.345022	Y
2	IC 410-102081/17	0.5	0.177114	10.0	1612013.0	0.354228	Y
3	IC 410-102081/16	1.0	0.350296	10.0	1619173.0	0.350296	Y
4	IC 410-102081/15	2.0	0.744041	10.0	1624493.0	0.372021	Y
5	IC 410-102081/14	5.0	1.858209	10.0	1639832.0	0.371642	Y
6	ICIS 410-102081/13	10.0	3.823389	10.0	1638044.0	0.382339	Y
7	IC 410-102081/12	25.0	9.90736	10.0	1650800.0	0.396294	Y



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Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

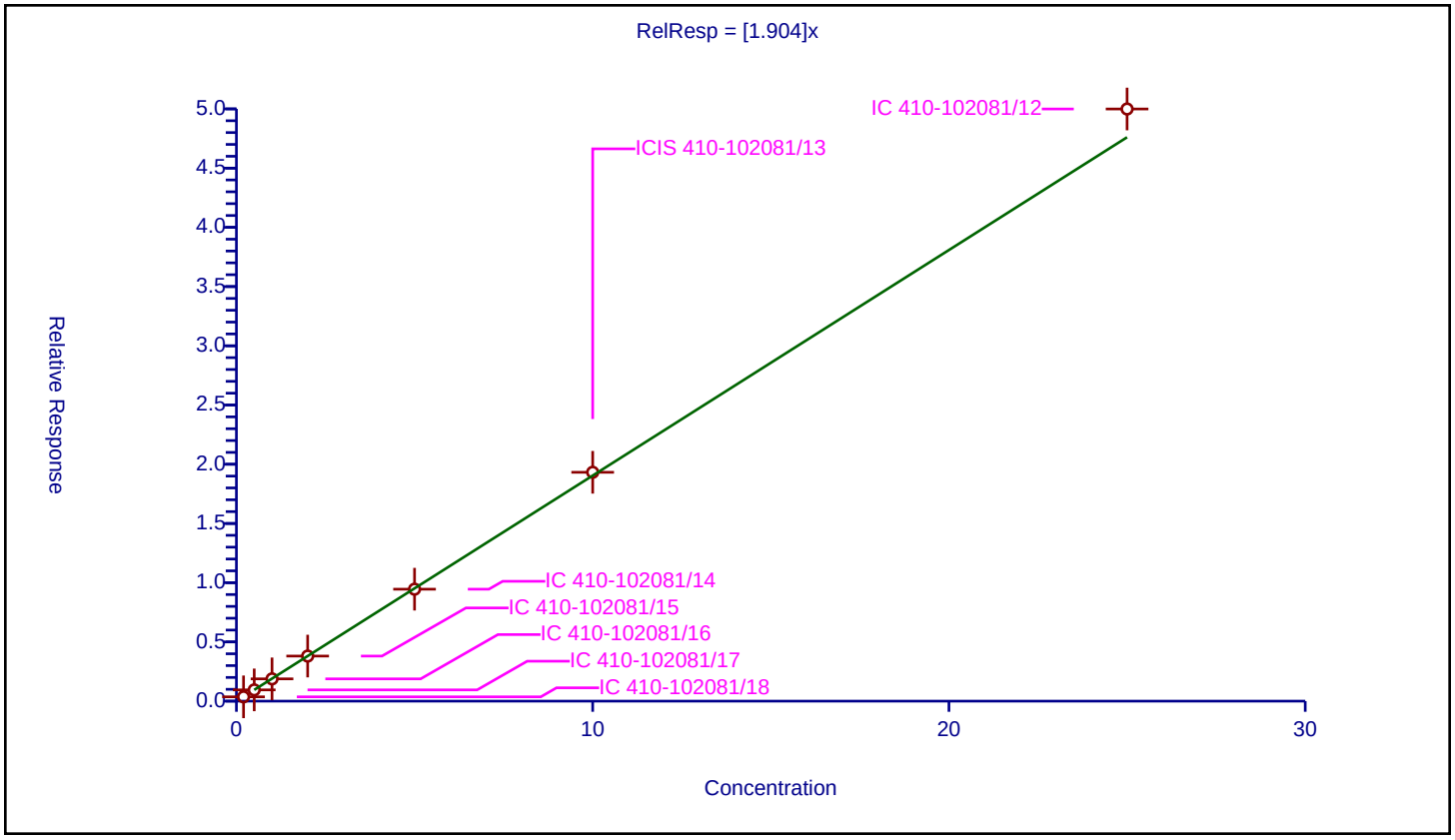
Curve Coefficients

Intercept:	0
Slope:	1.904

Error Coefficients

Standard Error:	3670000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.364195	10.0	1589174.0	1.820977	Y
2	IC 410-102081/17	0.5	0.950985	10.0	1612013.0	1.90197	Y
3	IC 410-102081/16	1.0	1.881837	10.0	1619173.0	1.881837	Y
4	IC 410-102081/15	2.0	3.806012	10.0	1624493.0	1.903006	Y
5	IC 410-102081/14	5.0	9.451346	10.0	1639832.0	1.890269	Y
6	ICIS 410-102081/13	10.0	19.320146	10.0	1638044.0	1.932015	Y
7	IC 410-102081/12	25.0	49.990417	10.0	1650800.0	1.999617	Y



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Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

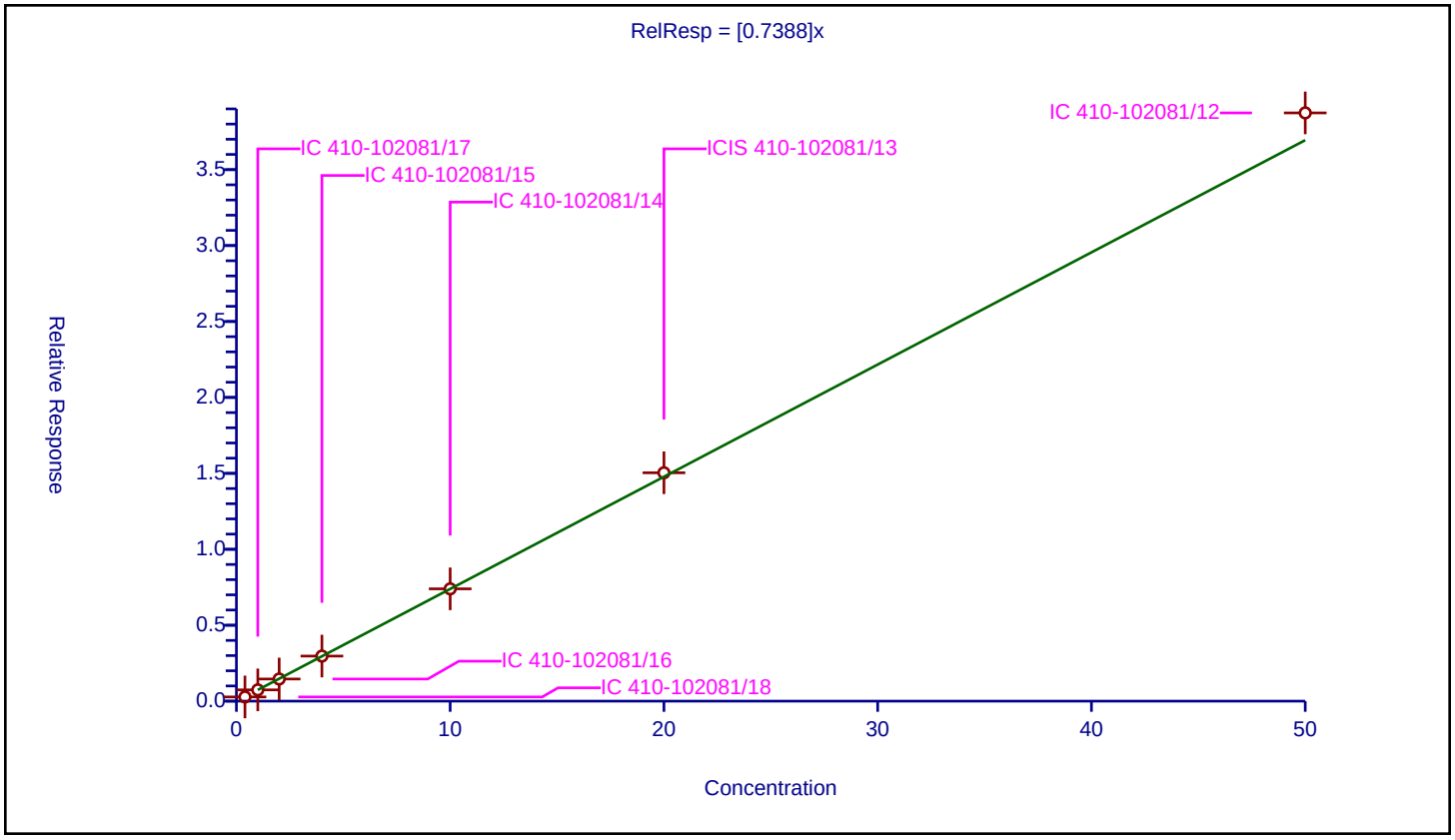
Curve Coefficients

Intercept:	0
Slope:	0.7388

Error Coefficients

Standard Error:	2850000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.4	0.276955	10.0	1589174.0	0.692388	Y
2	IC 410-102081/17	1.0	0.742085	10.0	1612013.0	0.742085	Y
3	IC 410-102081/16	2.0	1.457899	10.0	1619173.0	0.728949	Y
4	IC 410-102081/15	4.0	2.968342	10.0	1624493.0	0.742085	Y
5	IC 410-102081/14	10.0	7.394355	10.0	1639832.0	0.739436	Y
6	ICIS 410-102081/13	20.0	15.03832	10.0	1638044.0	0.751916	Y
7	IC 410-102081/12	50.0	38.734759	10.0	1650800.0	0.774695	Y



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Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

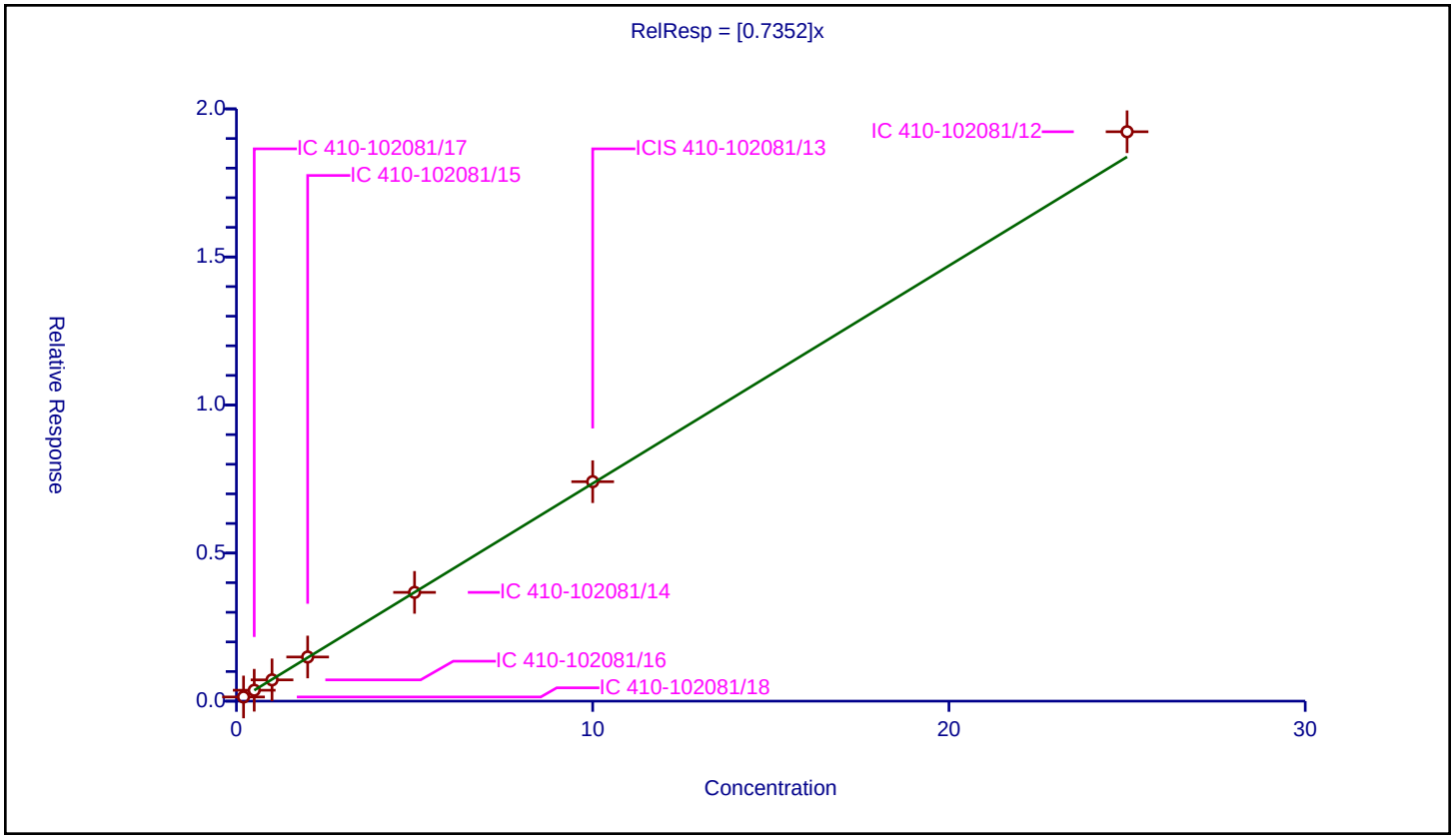
Curve Coefficients

Intercept:	0
Slope:	0.7352

Error Coefficients

Standard Error:	1410000
Relative Standard Error:	2.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.140394	10.0	1589174.0	0.701968	Y
2	IC 410-102081/17	0.5	0.368204	10.0	1612013.0	0.736408	Y
3	IC 410-102081/16	1.0	0.718064	10.0	1619173.0	0.718064	Y
4	IC 410-102081/15	2.0	1.490902	10.0	1624493.0	0.745451	Y
5	IC 410-102081/14	5.0	3.672645	10.0	1639832.0	0.734529	Y
6	ICIS 410-102081/13	10.0	7.410735	10.0	1638044.0	0.741073	Y
7	IC 410-102081/12	25.0	19.22838	10.0	1650800.0	0.769135	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

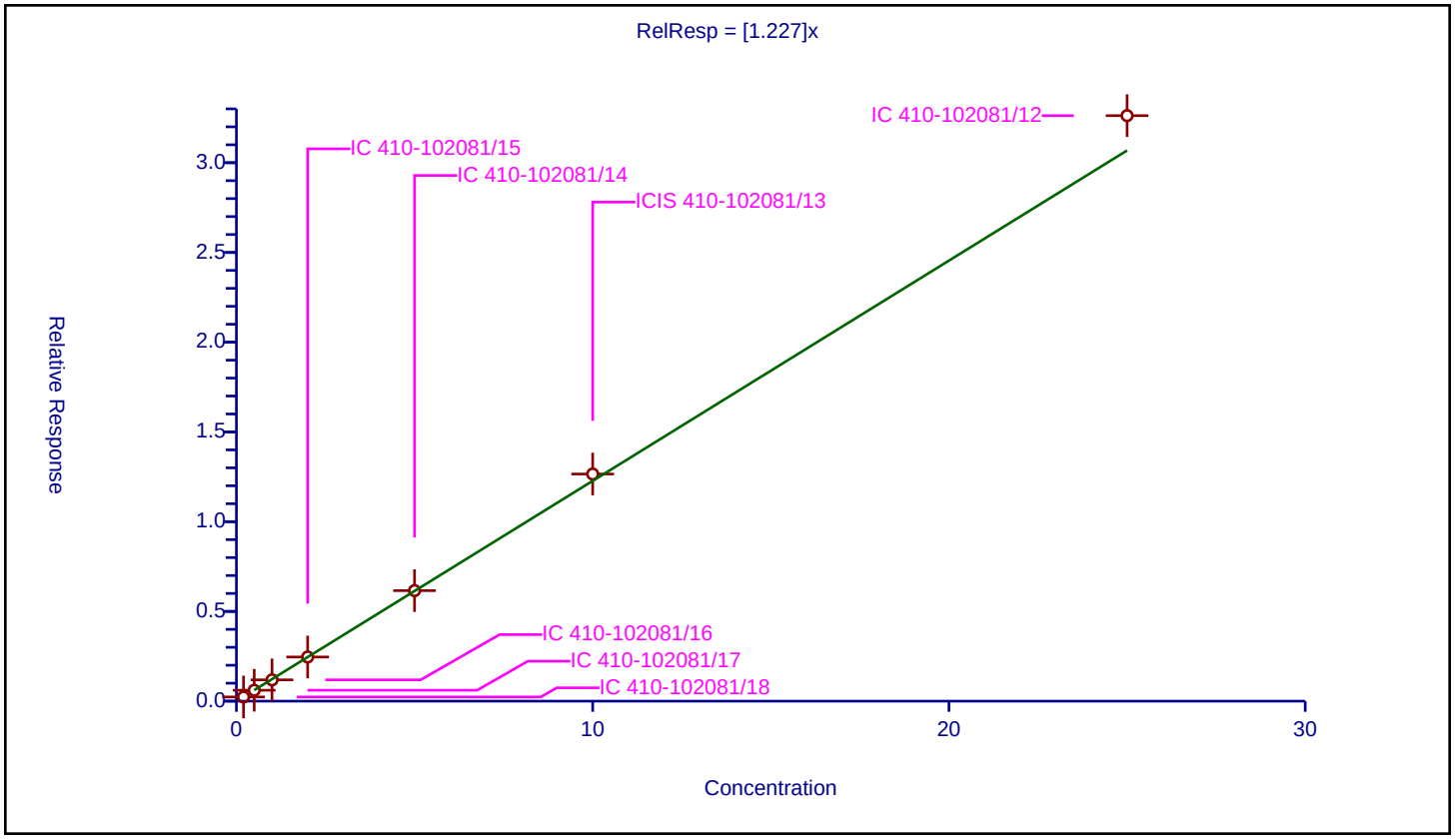
Curve Coefficients

Intercept:	0
Slope:	1.227

Error Coefficients

Standard Error:	2400000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.231668	10.0	1589174.0	1.158338	Y
2	IC 410-102081/17	0.5	0.607396	10.0	1612013.0	1.214792	Y
3	IC 410-102081/16	1.0	1.185994	10.0	1619173.0	1.185994	Y
4	IC 410-102081/15	2.0	2.459346	10.0	1624493.0	1.229673	Y
5	IC 410-102081/14	5.0	6.158698	10.0	1639832.0	1.23174	Y
6	ICIS 410-102081/13	10.0	12.655844	10.0	1638044.0	1.265584	Y
7	IC 410-102081/12	25.0	32.623074	10.0	1650800.0	1.304923	Y



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Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

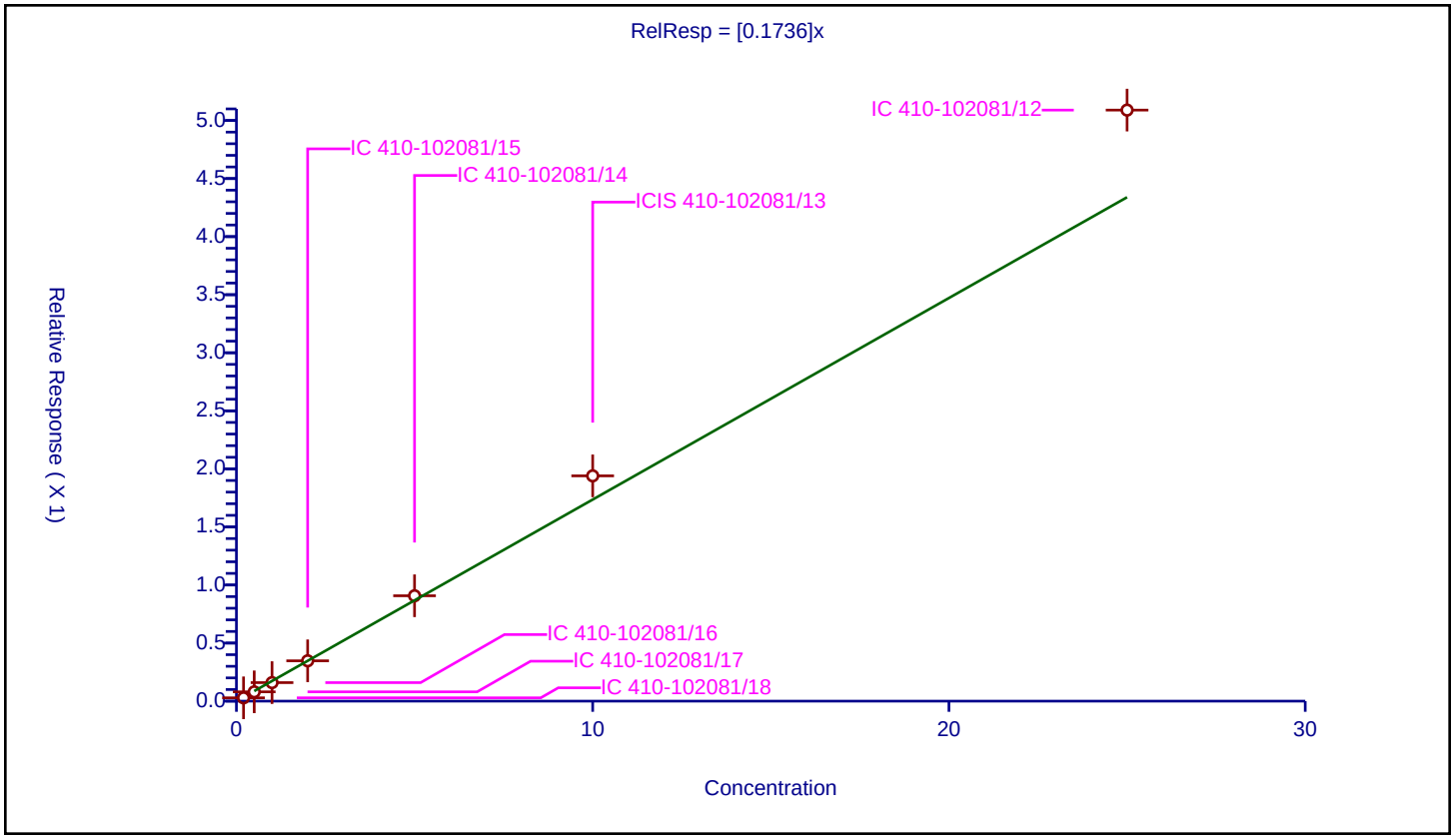
Curve Coefficients

Intercept:	0
Slope:	0.1736

Error Coefficients

Standard Error:	373000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.028449	10.0	1589174.0	0.142244	Y
2	IC 410-102081/17	0.5	0.080204	10.0	1612013.0	0.160408	Y
3	IC 410-102081/16	1.0	0.159526	10.0	1619173.0	0.159526	Y
4	IC 410-102081/15	2.0	0.347462	10.0	1624493.0	0.173731	Y
5	IC 410-102081/14	5.0	0.907532	10.0	1639832.0	0.181506	Y
6	ICIS 410-102081/13	10.0	1.939887	10.0	1638044.0	0.193989	Y
7	IC 410-102081/12	25.0	5.089581	10.0	1650800.0	0.203583	Y



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Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

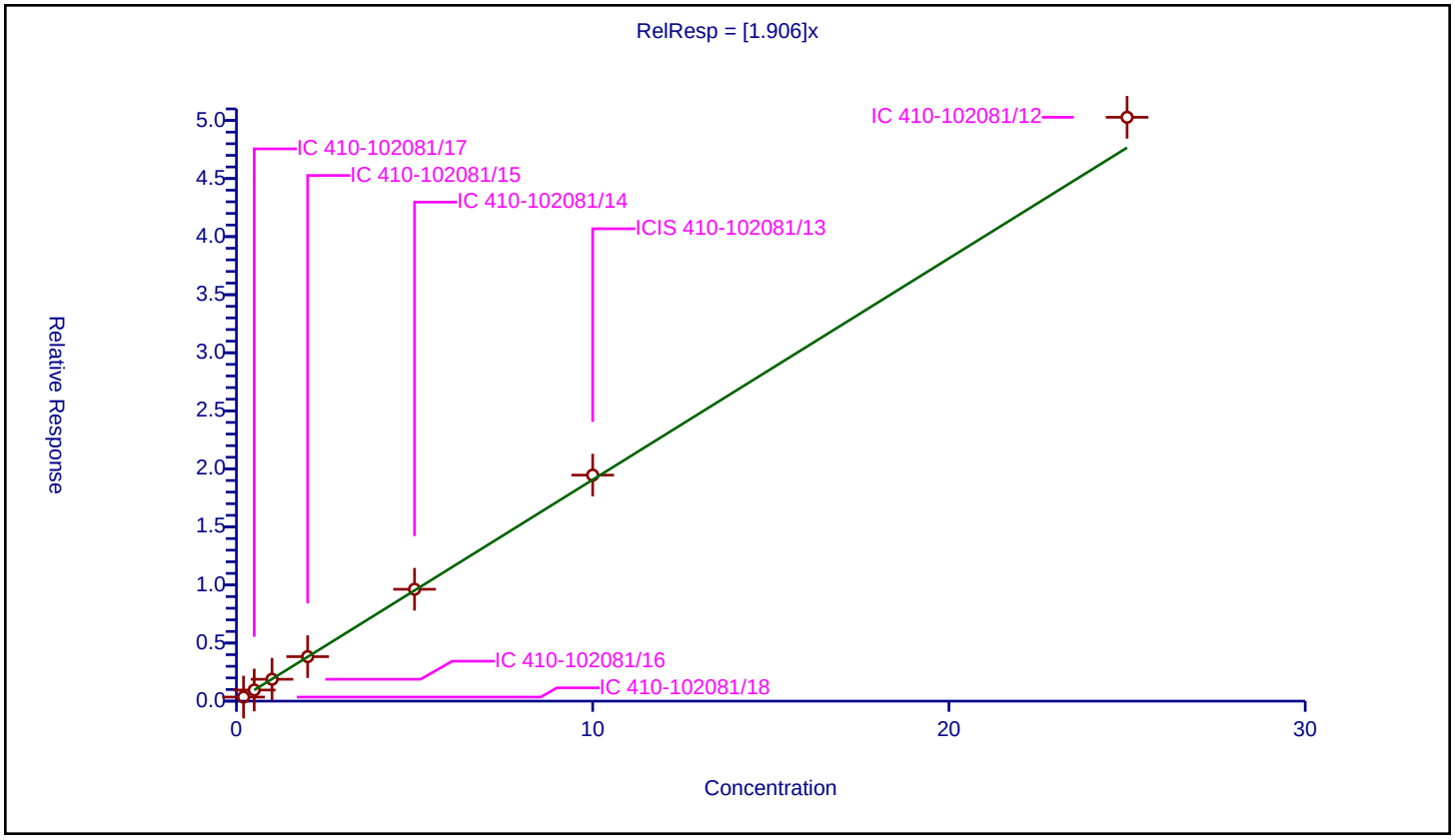
Curve Coefficients

Intercept:	0
Slope:	1.906

Error Coefficients

Standard Error:	3700000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.34898	10.0	1589174.0	1.7449	Y
2	IC 410-102081/17	0.5	0.958156	10.0	1612013.0	1.916312	Y
3	IC 410-102081/16	1.0	1.883276	10.0	1619173.0	1.883276	Y
4	IC 410-102081/15	2.0	3.832445	10.0	1624493.0	1.916222	Y
5	IC 410-102081/14	5.0	9.634737	10.0	1639832.0	1.926947	Y
6	ICIS 410-102081/13	10.0	19.46477	10.0	1638044.0	1.946477	Y
7	IC 410-102081/12	25.0	50.276793	10.0	1650800.0	2.011072	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

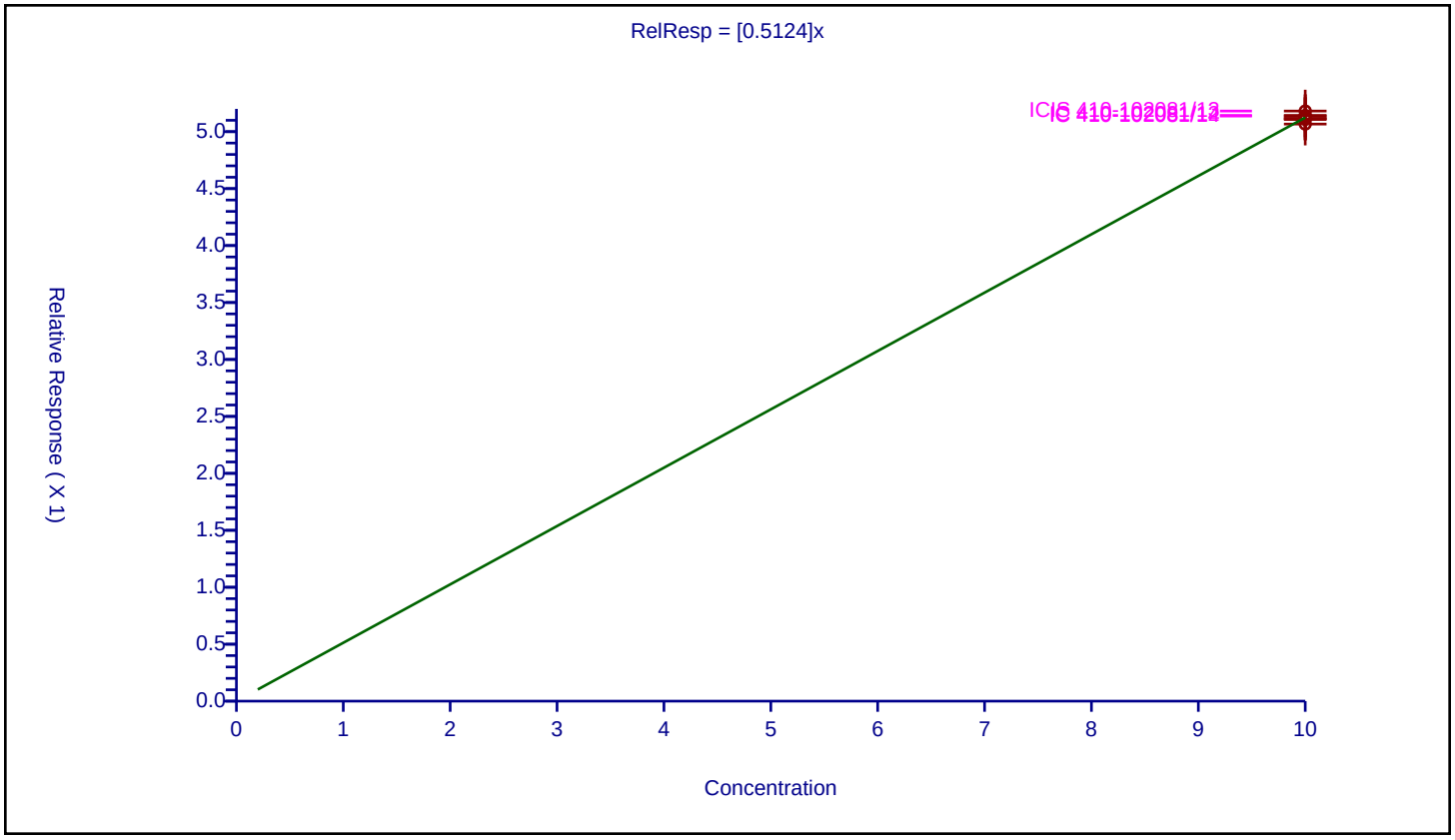
Curve Coefficients

Intercept:	0
Slope:	0.5124

Error Coefficients

Standard Error:	899000
Relative Standard Error:	0.7
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0.000000000000000333

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/12	10.0	5.142731	10.0	1650800.0	0.514273	Y
2	ICIS 410-102081/13	10.0	5.181118	10.0	1638044.0	0.518112	Y
3	IC 410-102081/14	10.0	5.137032	10.0	1639832.0	0.513703	Y
4	IC 410-102081/15	10.0	5.116532	10.0	1624493.0	0.511653	Y
5	IC 410-102081/16	10.0	5.066735	10.0	1619173.0	0.506673	Y
6	IC 410-102081/17	10.0	5.114891	10.0	1612013.0	0.511489	Y
7	IC 410-102081/18	10.0	5.10681	10.0	1589174.0	0.510681	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

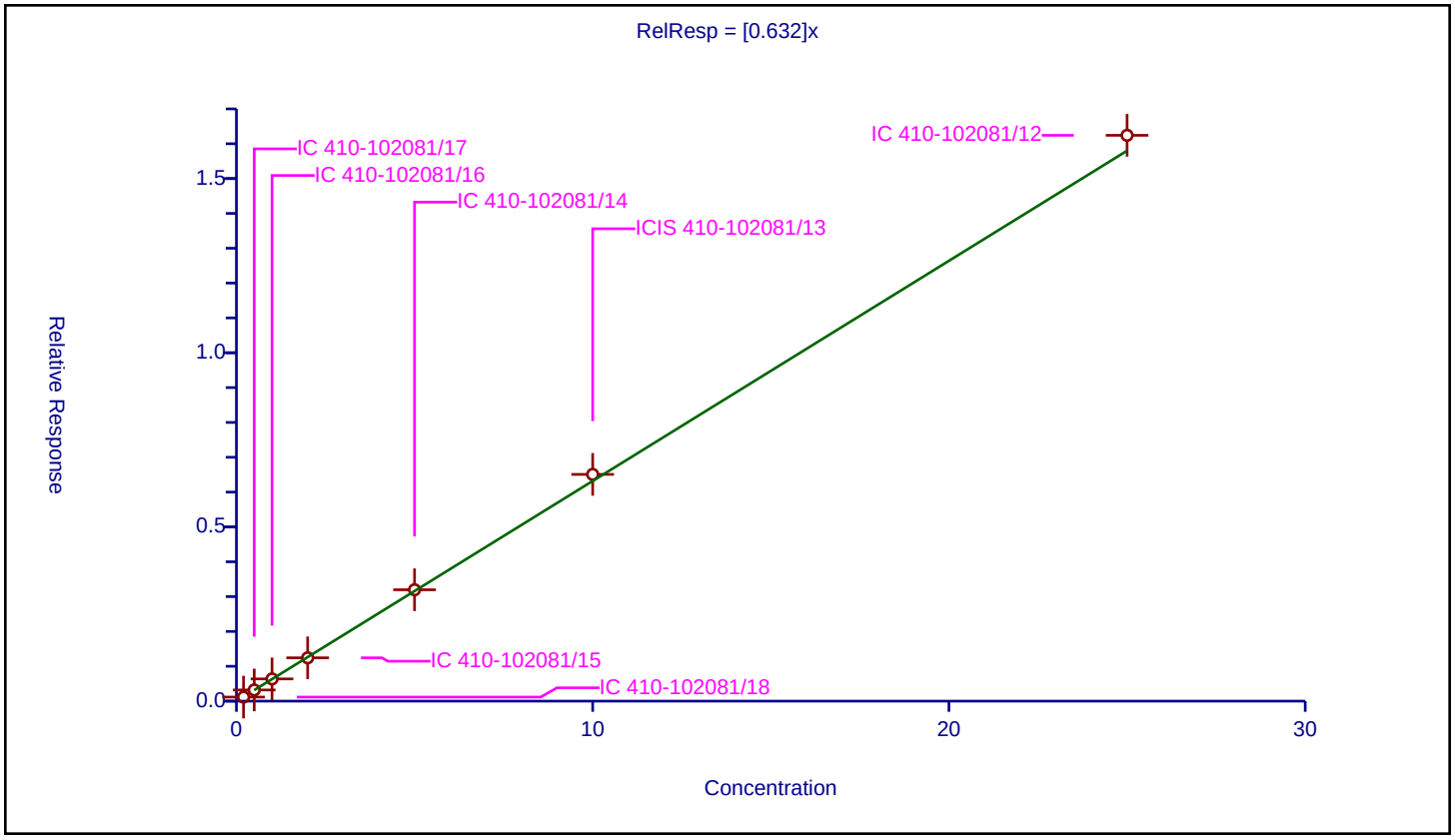
Curve Coefficients

Intercept:	0
Slope:	0.632

Error Coefficients

Standard Error:	668000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.116461	10.0	866469.0	0.582306	Y
2	IC 410-102081/17	0.5	0.320918	10.0	872465.0	0.641837	Y
3	IC 410-102081/16	1.0	0.638171	10.0	873073.0	0.638171	Y
4	IC 410-102081/15	2.0	1.243176	10.0	891523.0	0.621588	Y
5	IC 410-102081/14	5.0	3.196541	10.0	894811.0	0.639308	Y
6	ICIS 410-102081/13	10.0	6.508265	10.0	910957.0	0.650827	Y
7	IC 410-102081/12	25.0	16.241433	10.0	918475.0	0.649657	Y



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Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

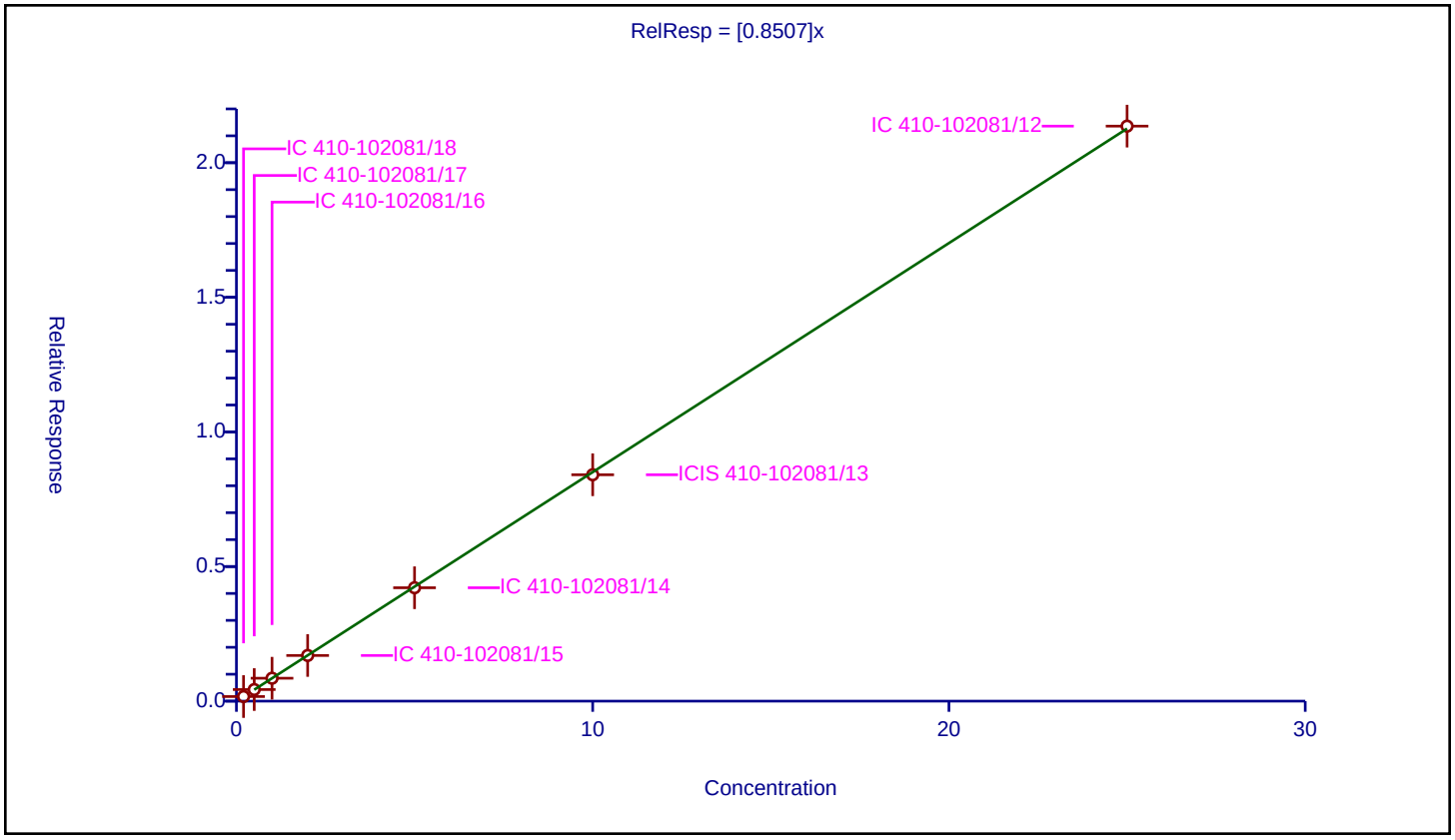
Curve Coefficients

Intercept:	0
Slope:	0.8507

Error Coefficients

Standard Error:	876000
Relative Standard Error:	0.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.170947	10.0	866469.0	0.854733	Y
2	IC 410-102081/17	0.5	0.43133	10.0	872465.0	0.862659	Y
3	IC 410-102081/16	1.0	0.85151	10.0	873073.0	0.85151	Y
4	IC 410-102081/15	2.0	1.696714	10.0	891523.0	0.848357	Y
5	IC 410-102081/14	5.0	4.212331	10.0	894811.0	0.842466	Y
6	ICIS 410-102081/13	10.0	8.409222	10.0	910957.0	0.840922	Y
7	IC 410-102081/12	25.0	21.359591	10.0	918475.0	0.854384	Y



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Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

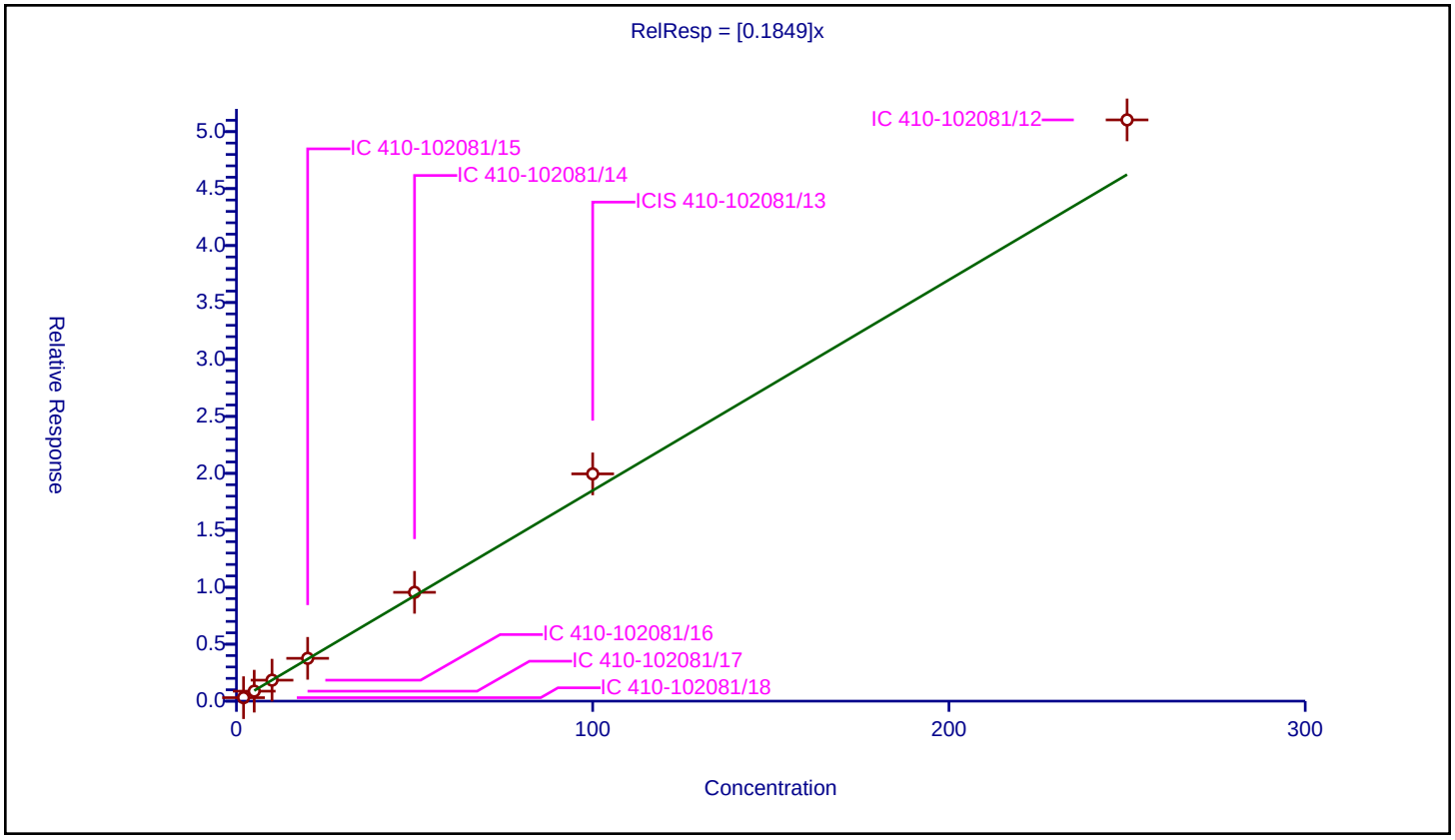
Curve Coefficients

Intercept:	0
Slope:	0.1849

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	9.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	2.0	0.305216	10.0	866469.0	0.152608	Y
2	IC 410-102081/17	5.0	0.87529	10.0	872465.0	0.175058	Y
3	IC 410-102081/16	10.0	1.841965	10.0	873073.0	0.184197	Y
4	IC 410-102081/15	20.0	3.759881	10.0	891523.0	0.187994	Y
5	IC 410-102081/14	50.0	9.553381	10.0	894811.0	0.191068	Y
6	ICIS 410-102081/13	100.0	19.953807	10.0	910957.0	0.199538	Y
7	IC 410-102081/12	250.0	51.033038	10.0	918475.0	0.204132	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

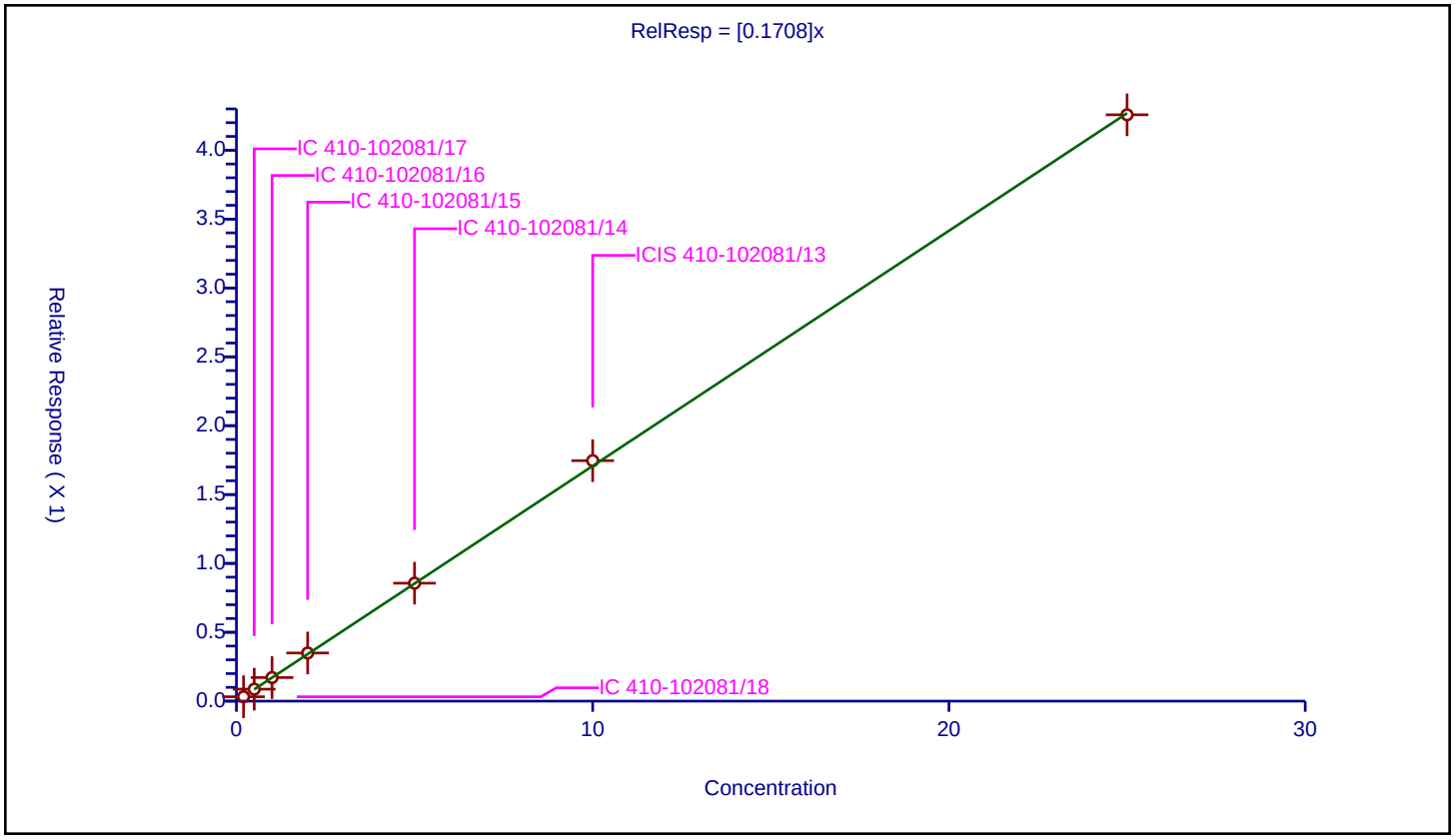
Curve Coefficients

Intercept:	0
Slope:	0.1708

Error Coefficients

Standard Error:	176000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.031877	10.0	866469.0	0.159383	Y
2	IC 410-102081/17	0.5	0.086869	10.0	872465.0	0.173738	Y
3	IC 410-102081/16	1.0	0.1712	10.0	873073.0	0.1712	Y
4	IC 410-102081/15	2.0	0.349582	10.0	891523.0	0.174791	Y
5	IC 410-102081/14	5.0	0.85627	10.0	894811.0	0.171254	Y
6	ICIS 410-102081/13	10.0	1.746109	10.0	910957.0	0.174611	Y
7	IC 410-102081/12	25.0	4.257176	10.0	918475.0	0.170287	Y



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Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

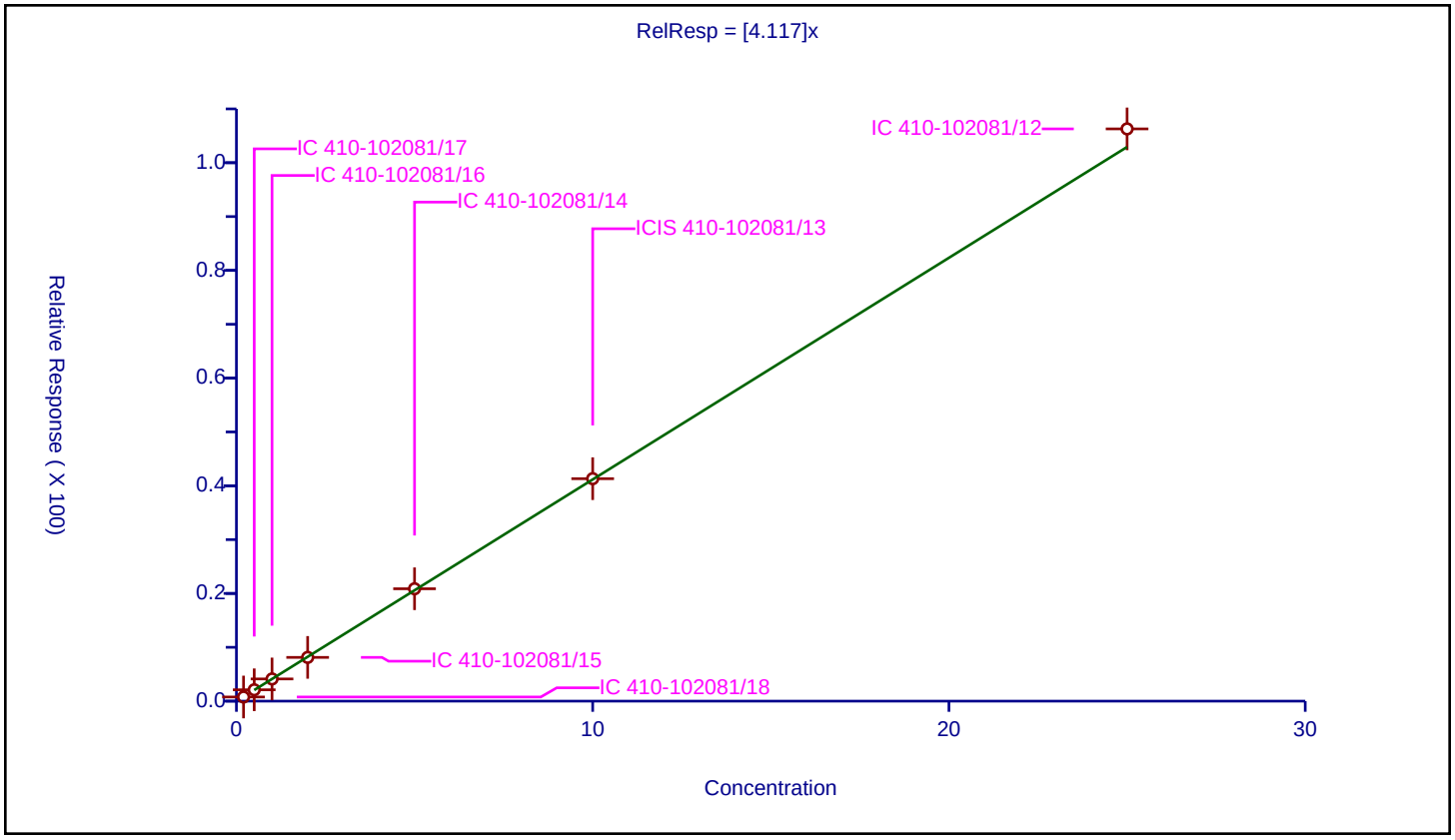
Curve Coefficients

Intercept:	0
Slope:	4.117

Error Coefficients

Standard Error:	4350000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.771176	10.0	866469.0	3.855879	Y
2	IC 410-102081/17	0.5	2.111156	10.0	872465.0	4.222313	Y
3	IC 410-102081/16	1.0	4.121225	10.0	873073.0	4.121225	Y
4	IC 410-102081/15	2.0	8.124636	10.0	891523.0	4.062318	Y
5	IC 410-102081/14	5.0	20.872374	10.0	894811.0	4.174475	Y
6	ICIS 410-102081/13	10.0	41.319151	10.0	910957.0	4.131915	Y
7	IC 410-102081/12	25.0	106.287095	10.0	918475.0	4.251484	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

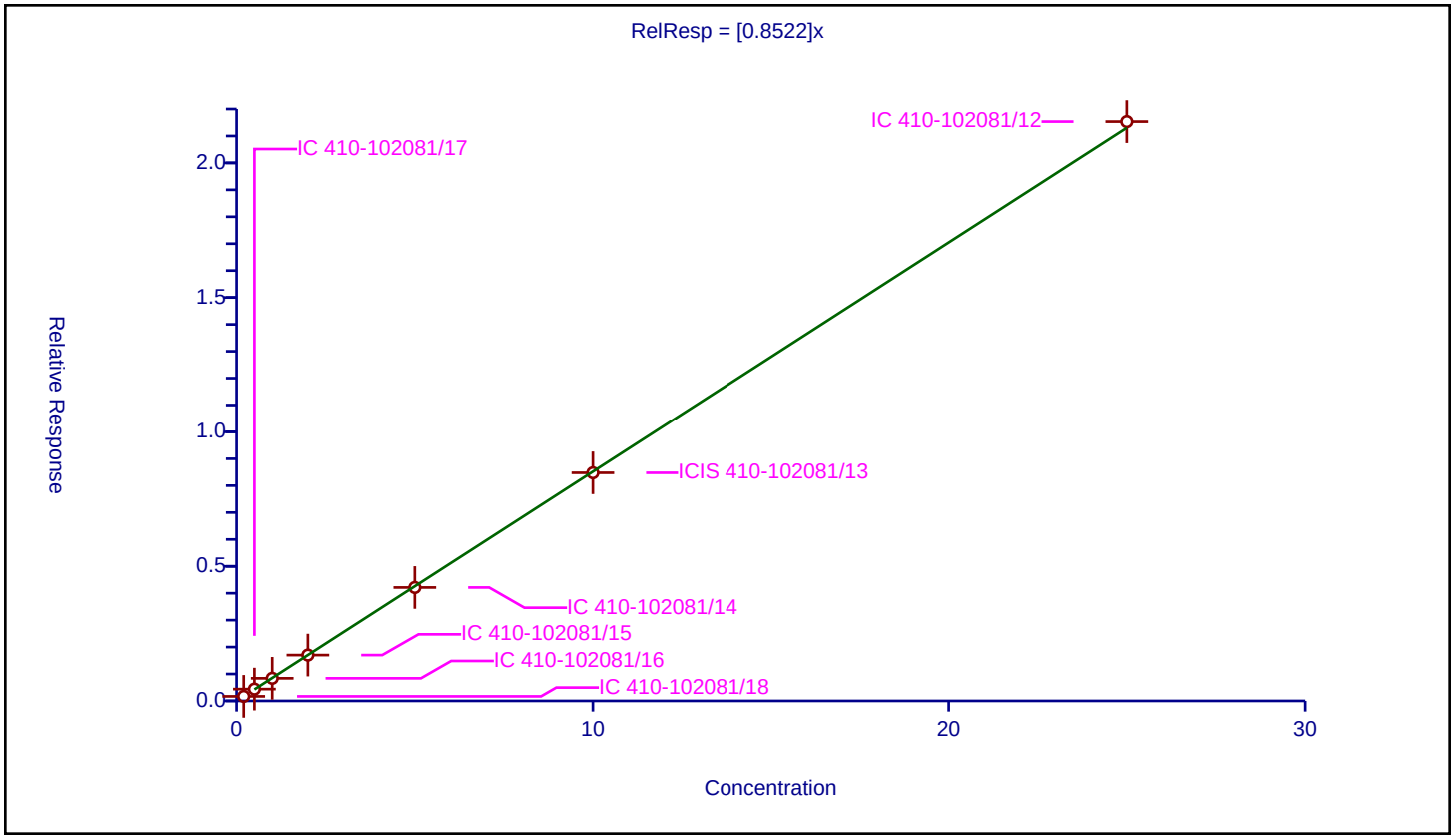
Curve Coefficients

Intercept:	0
Slope:	0.8522

Error Coefficients

Standard Error:	883000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.169008	10.0	866469.0	0.845039	Y
2	IC 410-102081/17	0.5	0.438757	10.0	872465.0	0.877514	Y
3	IC 410-102081/16	1.0	0.839724	10.0	873073.0	0.839724	Y
4	IC 410-102081/15	2.0	1.702457	10.0	891523.0	0.851229	Y
5	IC 410-102081/14	5.0	4.213806	10.0	894811.0	0.842761	Y
6	ICIS 410-102081/13	10.0	8.478457	10.0	910957.0	0.847846	Y
7	IC 410-102081/12	25.0	21.533738	10.0	918475.0	0.86135	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

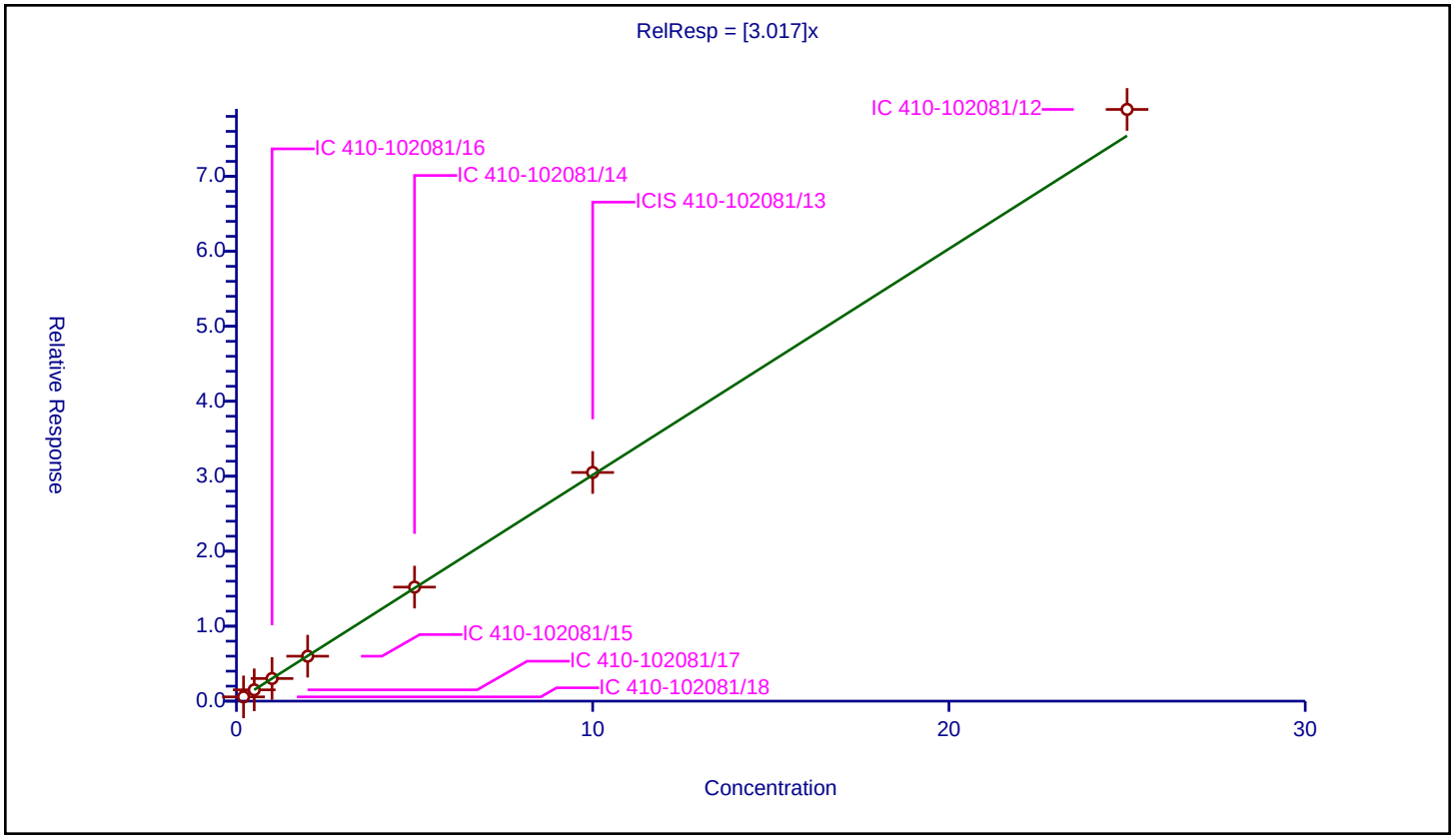
Curve Coefficients

Intercept:	0
Slope:	3.017

Error Coefficients

Standard Error:	3230000
Relative Standard Error:	3.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.567649	10.0	866469.0	2.838243	Y
2	IC 410-102081/17	0.5	1.506765	10.0	872465.0	3.013531	Y
3	IC 410-102081/16	1.0	3.01898	10.0	873073.0	3.01898	Y
4	IC 410-102081/15	2.0	5.993878	10.0	891523.0	2.996939	Y
5	IC 410-102081/14	5.0	15.211067	10.0	894811.0	3.042213	Y
6	ICIS 410-102081/13	10.0	30.501066	10.0	910957.0	3.050107	Y
7	IC 410-102081/12	25.0	78.929116	10.0	918475.0	3.157165	Y



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Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

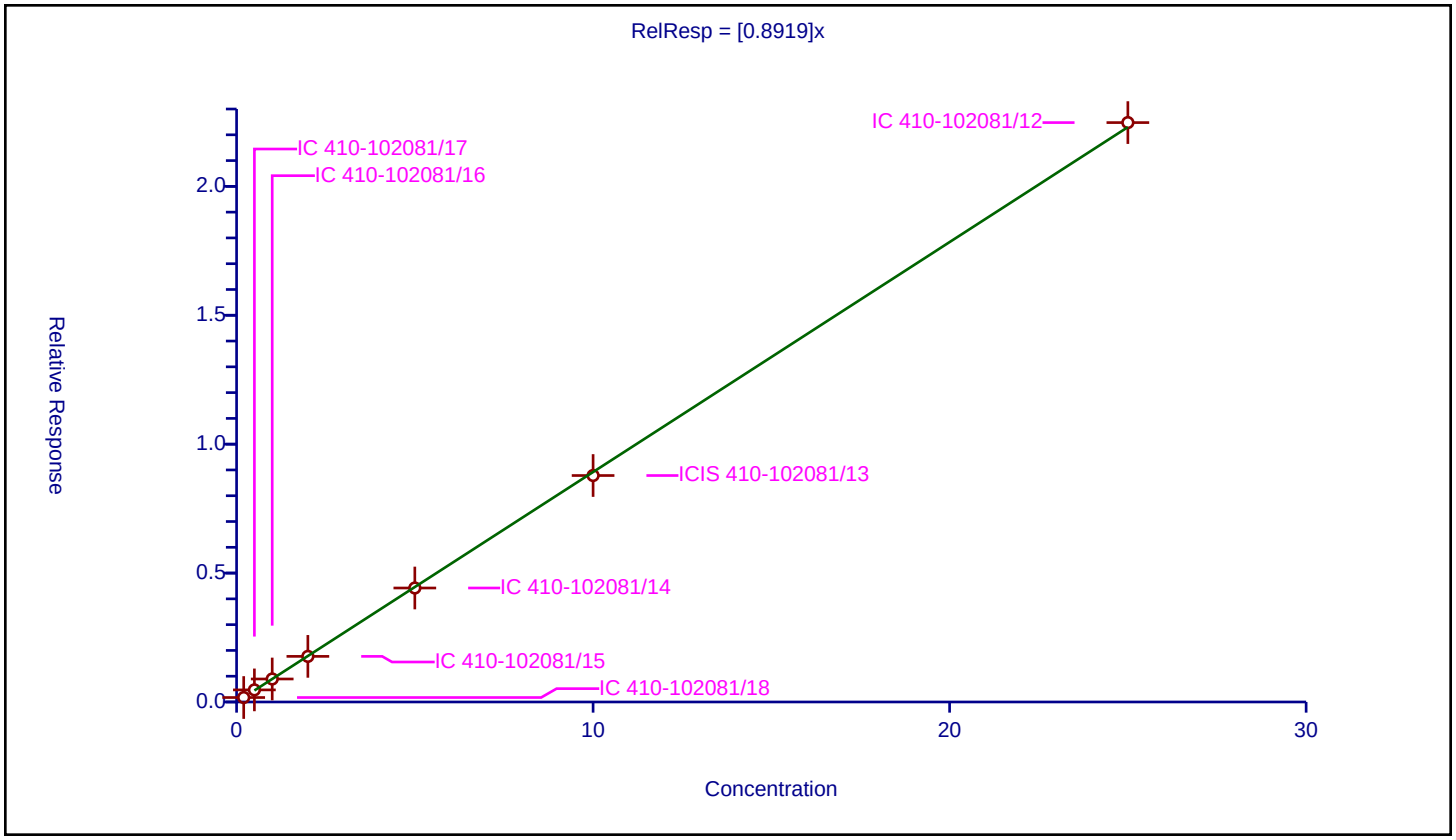
Curve Coefficients

Intercept:	0
Slope:	0.8919

Error Coefficients

Standard Error:	921000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.173393	10.0	866469.0	0.866967	Y
2	IC 410-102081/17	0.5	0.468764	10.0	872465.0	0.937528	Y
3	IC 410-102081/16	1.0	0.892434	10.0	873073.0	0.892434	Y
4	IC 410-102081/15	2.0	1.769702	10.0	891523.0	0.884851	Y
5	IC 410-102081/14	5.0	4.421325	10.0	894811.0	0.884265	Y
6	ICIS 410-102081/13	10.0	8.784169	10.0	910957.0	0.878417	Y
7	IC 410-102081/12	25.0	22.473099	10.0	918475.0	0.898924	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

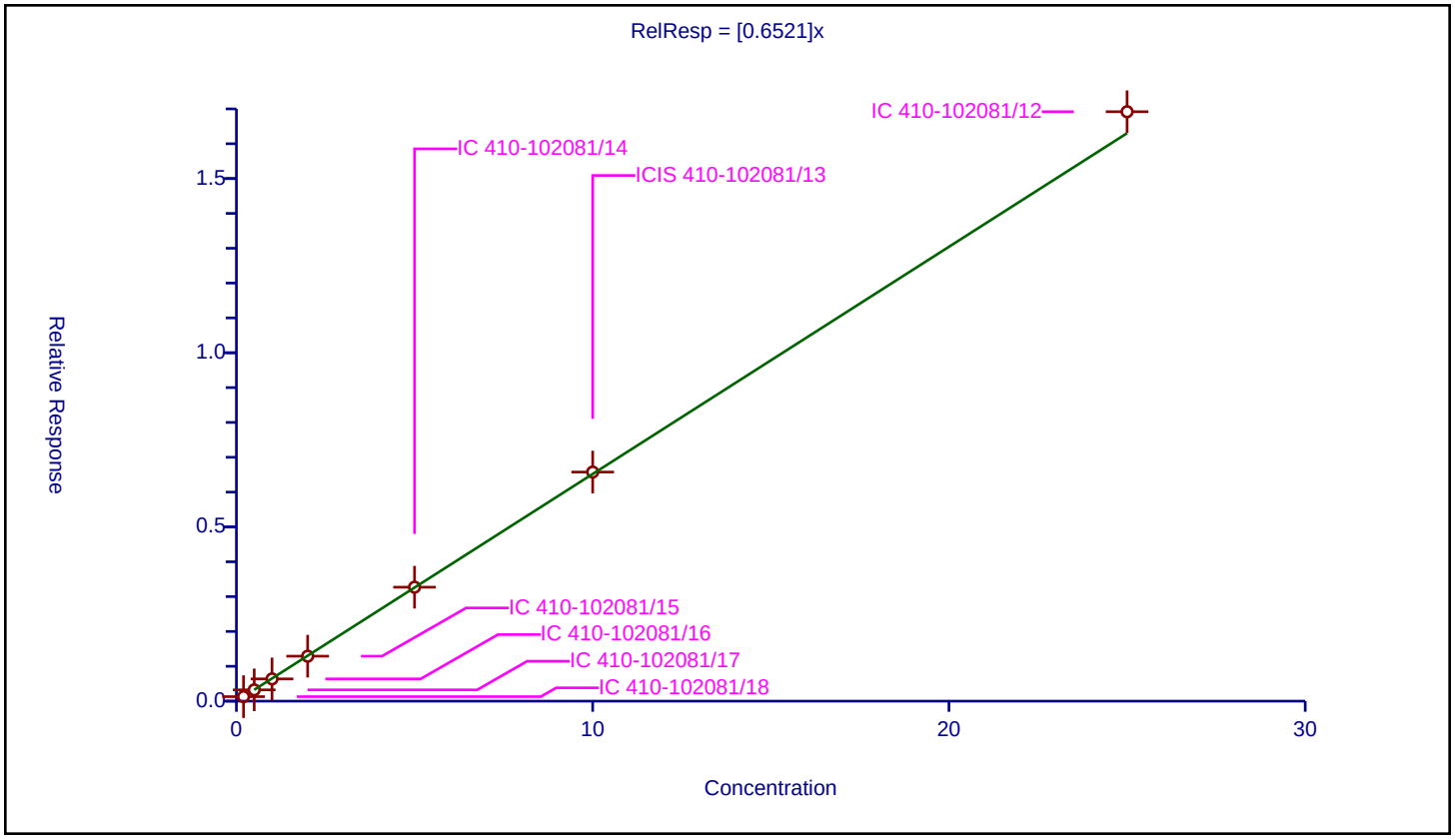
Curve Coefficients

Intercept:	0
Slope:	0.6521

Error Coefficients

Standard Error:	692000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.12881	10.0	866469.0	0.644051	Y
2	IC 410-102081/17	0.5	0.323921	10.0	872465.0	0.647843	Y
3	IC 410-102081/16	1.0	0.638744	10.0	873073.0	0.638744	Y
4	IC 410-102081/15	2.0	1.290724	10.0	891523.0	0.645362	Y
5	IC 410-102081/14	5.0	3.270881	10.0	894811.0	0.654176	Y
6	ICIS 410-102081/13	10.0	6.576128	10.0	910957.0	0.657613	Y
7	IC 410-102081/12	25.0	16.918751	10.0	918475.0	0.67675	Y



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Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

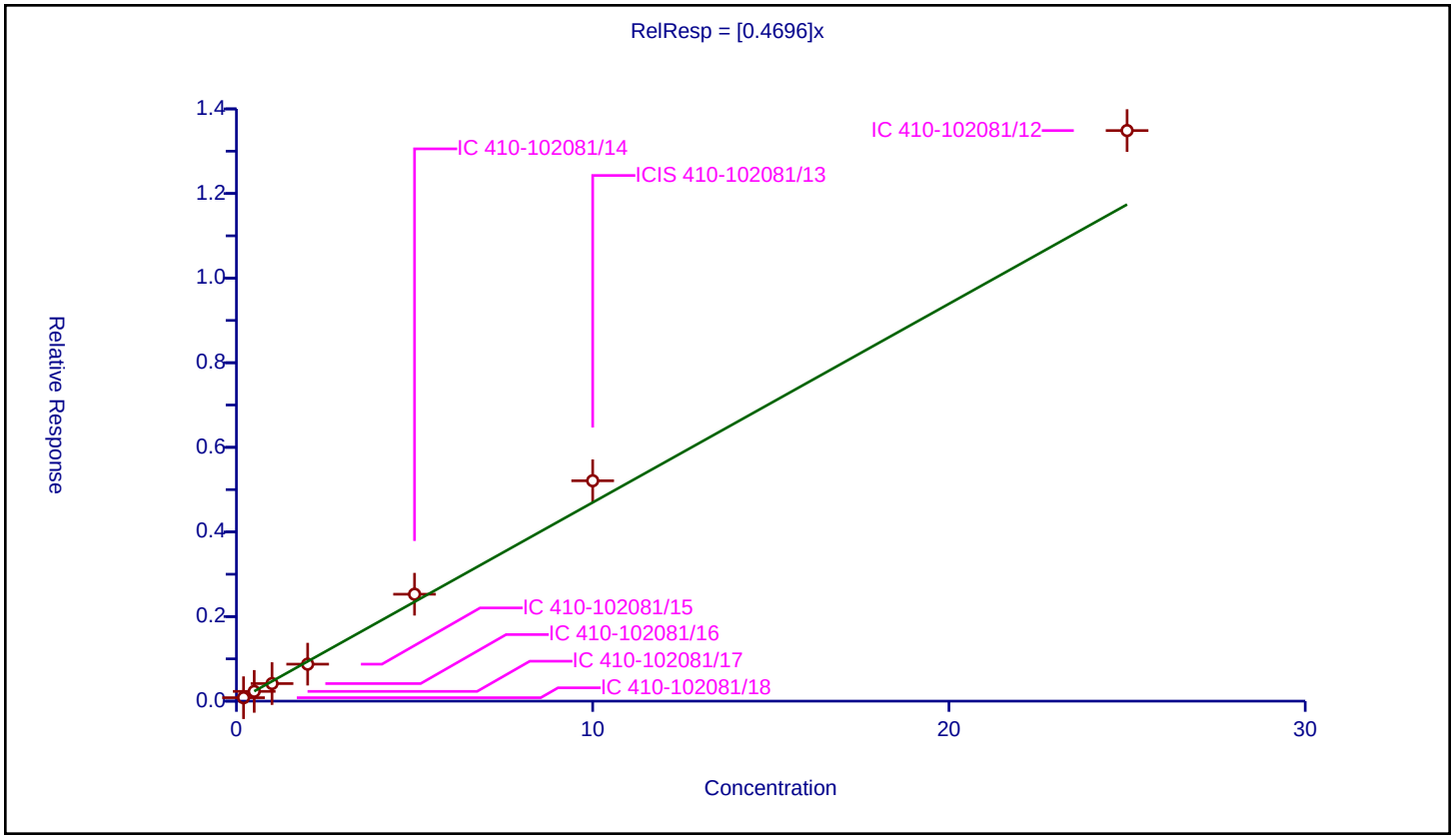
Curve Coefficients

Intercept:	0
Slope:	0.4696

Error Coefficients

Standard Error:	551000
Relative Standard Error:	11.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.081422	10.0	866469.0	0.407112	Y
2	IC 410-102081/17	0.5	0.230875	10.0	872465.0	0.461749	Y
3	IC 410-102081/16	1.0	0.415441	10.0	873073.0	0.415441	Y
4	IC 410-102081/15	2.0	0.874021	10.0	891523.0	0.437011	Y
5	IC 410-102081/14	5.0	2.527584	10.0	894811.0	0.505517	Y
6	ICIS 410-102081/13	10.0	5.209686	10.0	910957.0	0.520969	Y
7	IC 410-102081/12	25.0	13.487248	10.0	918475.0	0.53949	Y



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Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

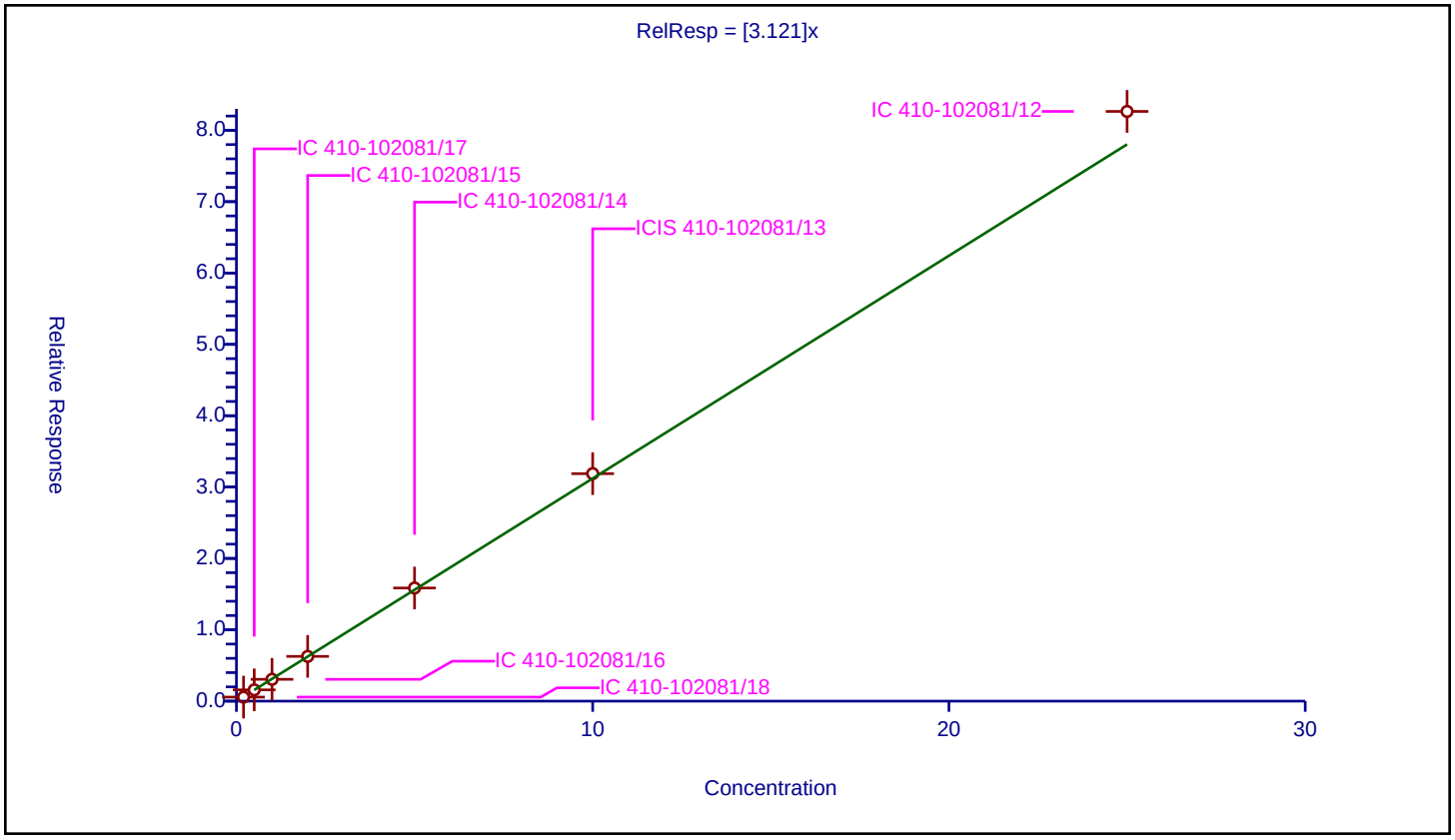
Curve Coefficients

Intercept:	0
Slope:	3.121

Error Coefficients

Standard Error:	3380000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.565571	10.0	866469.0	2.827857	Y
2	IC 410-102081/17	0.5	1.580018	10.0	872465.0	3.160035	Y
3	IC 410-102081/16	1.0	3.05806	10.0	873073.0	3.05806	Y
4	IC 410-102081/15	2.0	6.273085	10.0	891523.0	3.136543	Y
5	IC 410-102081/14	5.0	15.85584	10.0	894811.0	3.171168	Y
6	ICIS 410-102081/13	10.0	31.882185	10.0	910957.0	3.188219	Y
7	IC 410-102081/12	25.0	82.646354	10.0	918475.0	3.305854	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

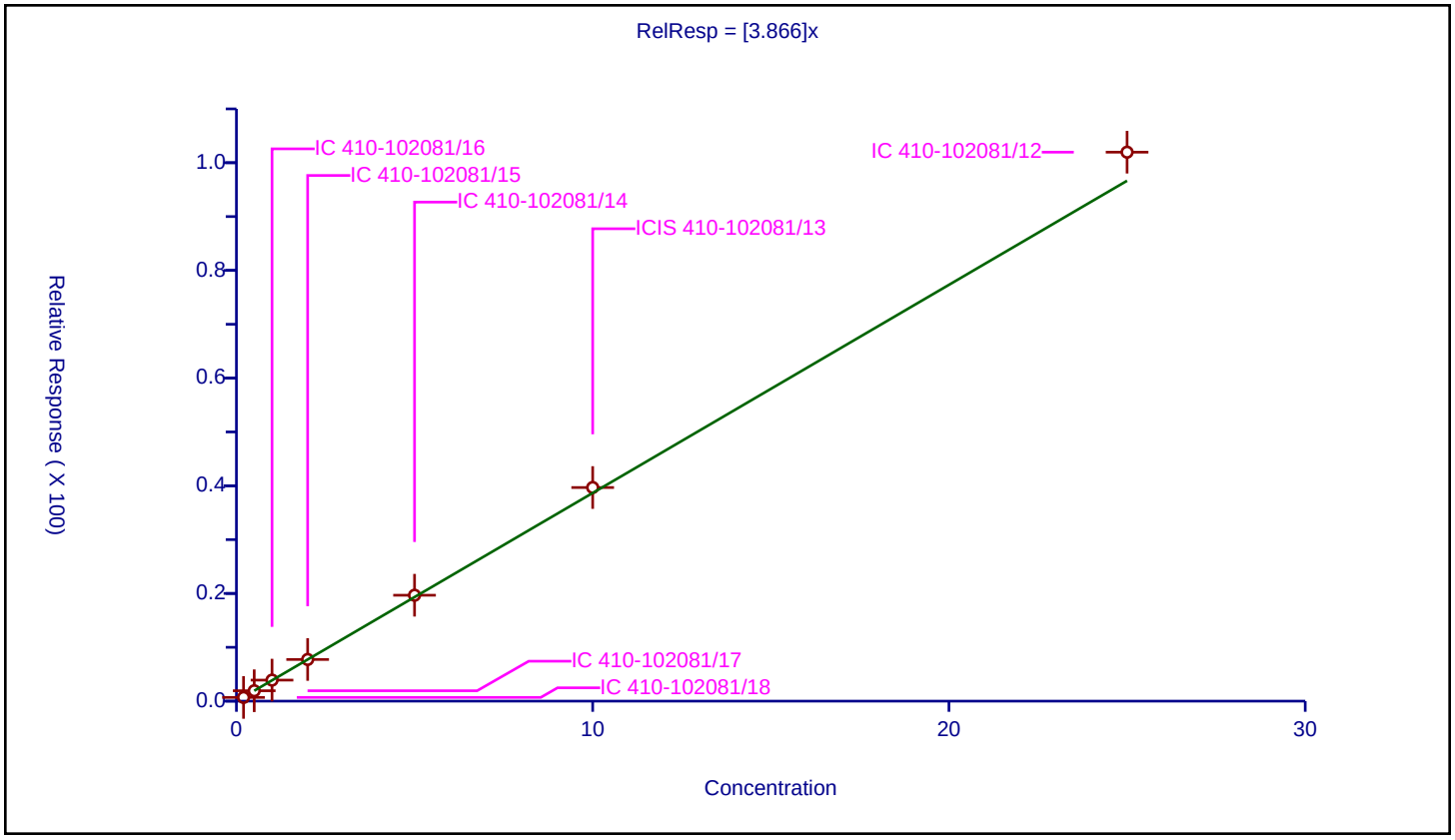
Curve Coefficients

Intercept:	0
Slope:	3.866

Error Coefficients

Standard Error:	4170000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.690088	10.0	866469.0	3.450441	Y
2	IC 410-102081/17	0.5	1.929235	10.0	872465.0	3.85847	Y
3	IC 410-102081/16	1.0	3.905366	10.0	873073.0	3.905366	Y
4	IC 410-102081/15	2.0	7.738634	10.0	891523.0	3.869317	Y
5	IC 410-102081/14	5.0	19.66879	10.0	894811.0	3.933758	Y
6	ICIS 410-102081/13	10.0	39.67364	10.0	910957.0	3.967364	Y
7	IC 410-102081/12	25.0	101.960456	10.0	918475.0	4.078418	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

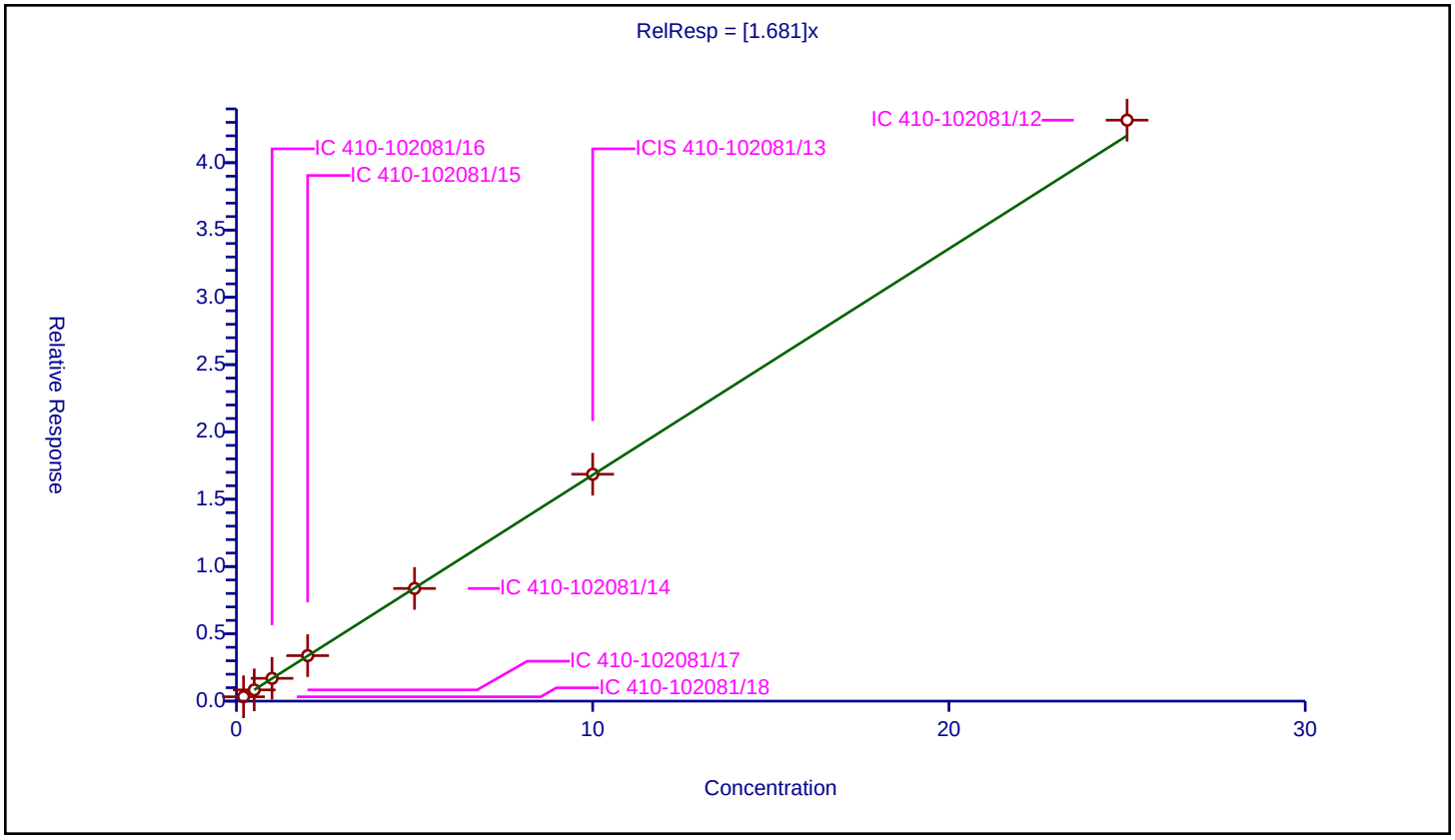
Curve Coefficients

Intercept:	0
Slope:	1.681

Error Coefficients

Standard Error:	1770000
Relative Standard Error:	1.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.324028	10.0	866469.0	1.620139	Y
2	IC 410-102081/17	0.5	0.835896	10.0	872465.0	1.671792	Y
3	IC 410-102081/16	1.0	1.69483	10.0	873073.0	1.69483	Y
4	IC 410-102081/15	2.0	3.380451	10.0	891523.0	1.690226	Y
5	IC 410-102081/14	5.0	8.371567	10.0	894811.0	1.674313	Y
6	ICIS 410-102081/13	10.0	16.85871	10.0	910957.0	1.685871	Y
7	IC 410-102081/12	25.0	43.162492	10.0	918475.0	1.7265	Y



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Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

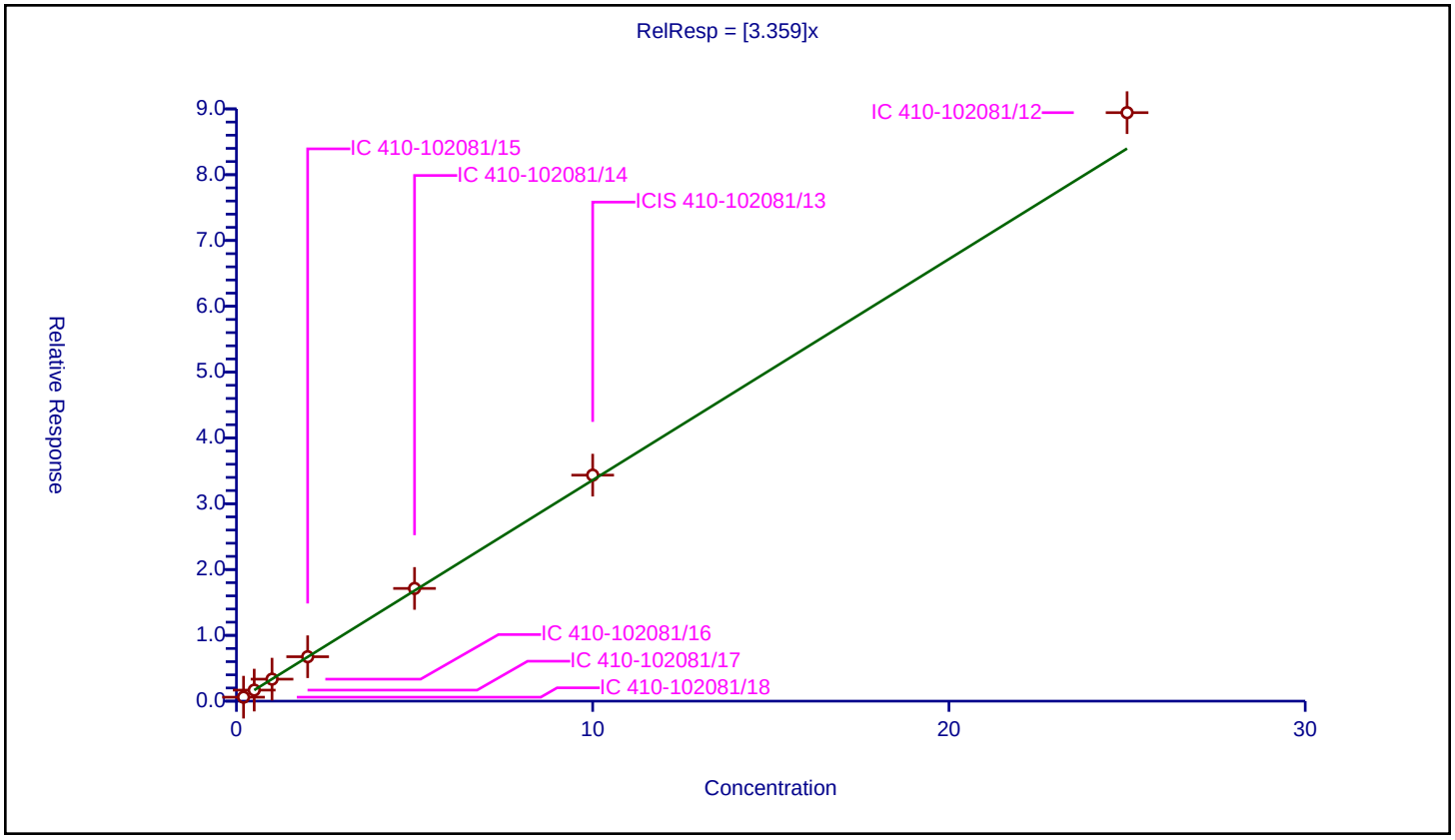
Curve Coefficients

Intercept:	0
Slope:	3.359

Error Coefficients

Standard Error:	3650000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.600483	10.0	866469.0	3.002416	Y
2	IC 410-102081/17	0.5	1.678463	10.0	872465.0	3.356925	Y
3	IC 410-102081/16	1.0	3.341576	10.0	873073.0	3.341576	Y
4	IC 410-102081/15	2.0	6.749349	10.0	891523.0	3.374675	Y
5	IC 410-102081/14	5.0	17.125996	10.0	894811.0	3.425199	Y
6	ICIS 410-102081/13	10.0	34.342971	10.0	910957.0	3.434297	Y
7	IC 410-102081/12	25.0	89.430044	10.0	918475.0	3.577202	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

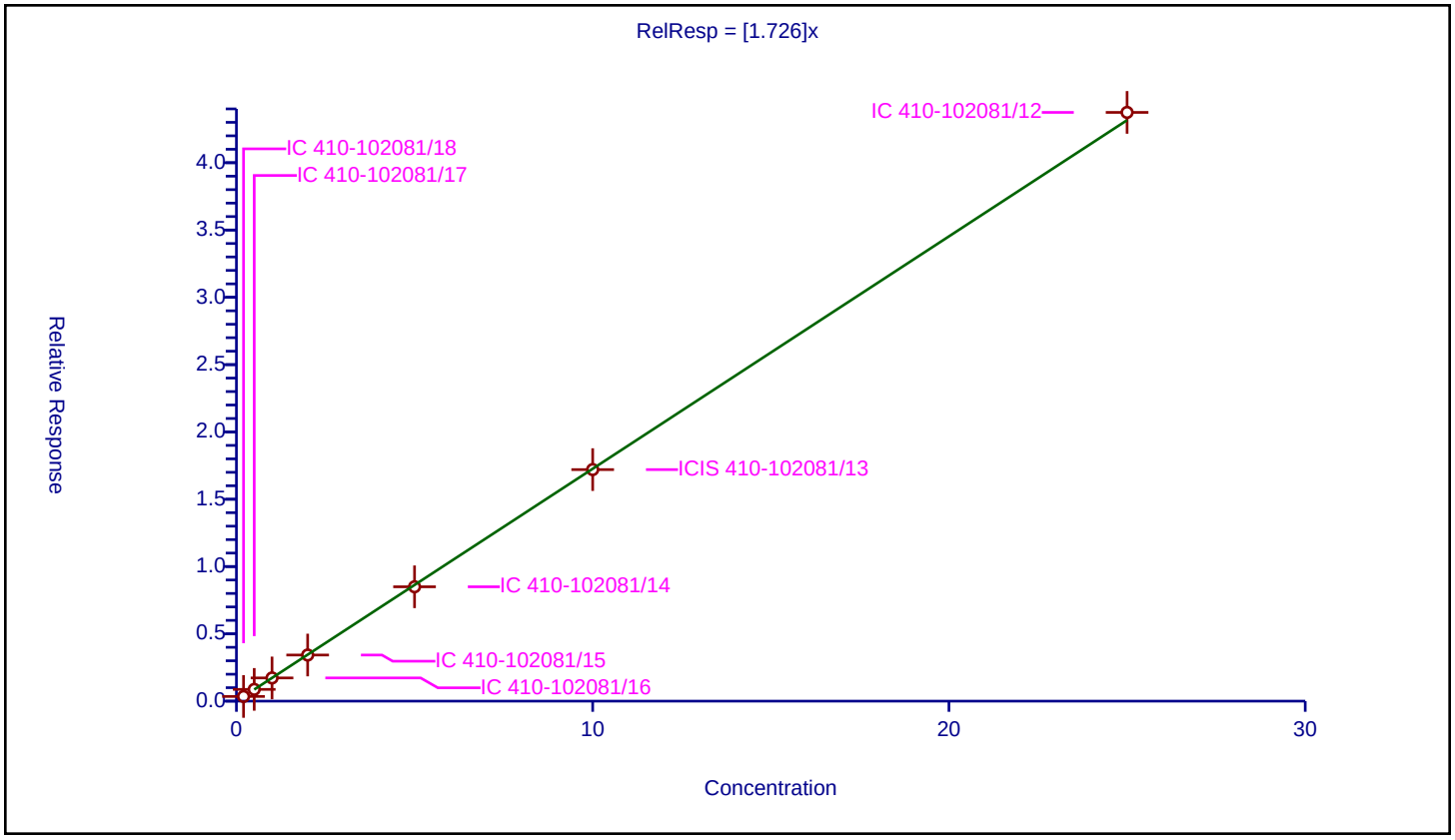
Curve Coefficients

Intercept:	0
Slope:	1.726

Error Coefficients

Standard Error:	1790000
Relative Standard Error:	1.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.346383	10.0	866469.0	1.731914	Y
2	IC 410-102081/17	0.5	0.87364	10.0	872465.0	1.747279	Y
3	IC 410-102081/16	1.0	1.724071	10.0	873073.0	1.724071	Y
4	IC 410-102081/15	2.0	3.425621	10.0	891523.0	1.712811	Y
5	IC 410-102081/14	5.0	8.496141	10.0	894811.0	1.699228	Y
6	ICIS 410-102081/13	10.0	17.20225	10.0	910957.0	1.720225	Y
7	IC 410-102081/12	25.0	43.738501	10.0	918475.0	1.74954	Y



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Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

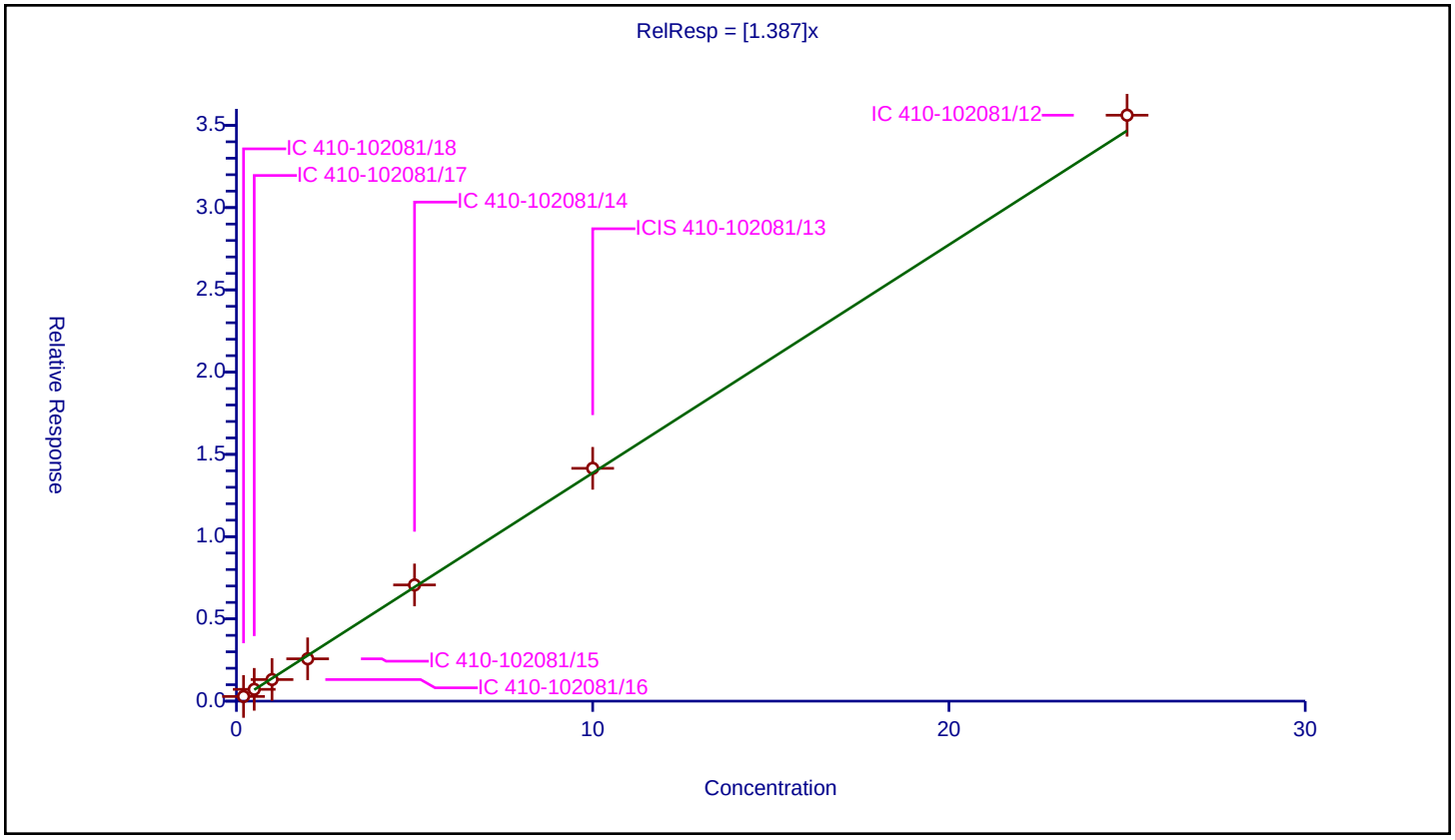
Curve Coefficients

Intercept:	0
Slope:	1.387

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.284199	10.0	866469.0	1.420997	Y
2	IC 410-102081/17	0.5	0.717897	10.0	872465.0	1.435794	Y
3	IC 410-102081/16	1.0	1.312846	10.0	873073.0	1.312846	Y
4	IC 410-102081/15	2.0	2.573484	10.0	891523.0	1.286742	Y
5	IC 410-102081/14	5.0	7.064263	10.0	894811.0	1.412853	Y
6	ICIS 410-102081/13	10.0	14.152765	10.0	910957.0	1.415276	Y
7	IC 410-102081/12	25.0	35.615548	10.0	918475.0	1.424622	Y



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Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

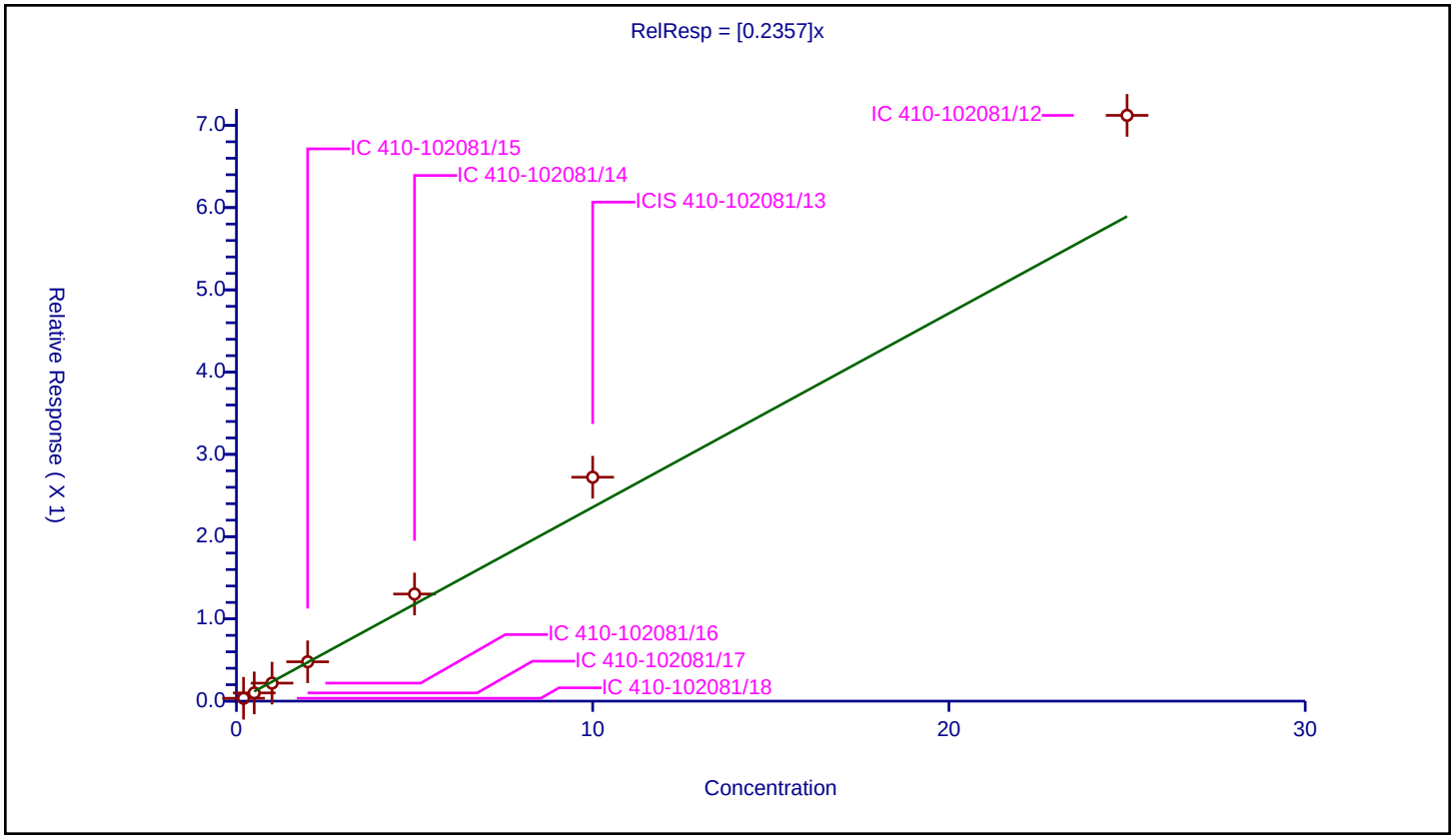
Curve Coefficients

Intercept:	0
Slope:	0.2357

Error Coefficients

Standard Error:	290000
Relative Standard Error:	17.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.968

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.0349	10.0	866469.0	0.174501	Y
2	IC 410-102081/17	0.5	0.099855	10.0	872465.0	0.19971	Y
3	IC 410-102081/16	1.0	0.219134	10.0	873073.0	0.219134	Y
4	IC 410-102081/15	2.0	0.478406	10.0	891523.0	0.239203	Y
5	IC 410-102081/14	5.0	1.302275	10.0	894811.0	0.260455	Y
6	ICIS 410-102081/13	10.0	2.722401	10.0	910957.0	0.27224	Y
7	IC 410-102081/12	25.0	7.12125	10.0	918475.0	0.28485	Y



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Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

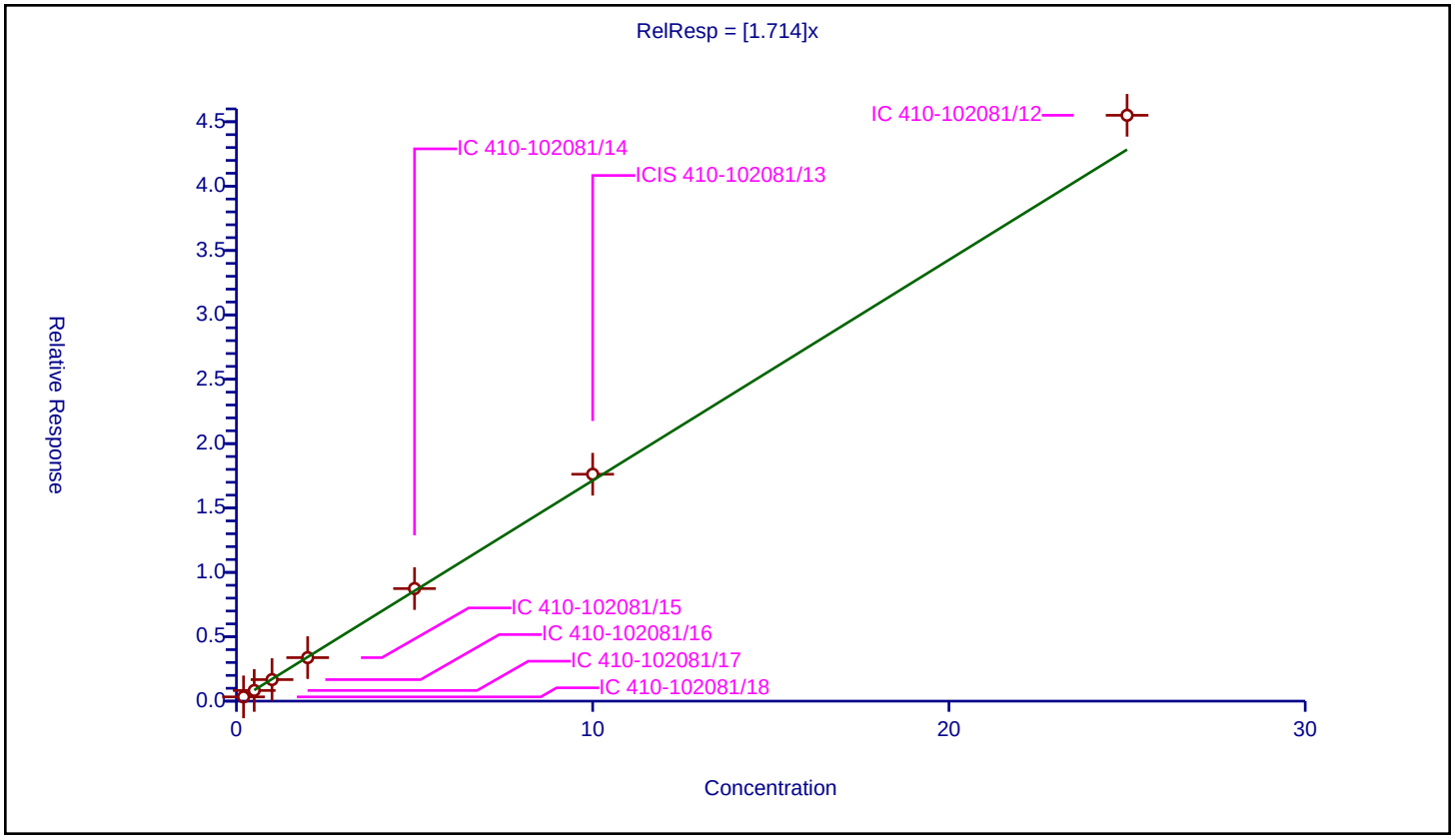
Curve Coefficients

Intercept:	0
Slope:	1.714

Error Coefficients

Standard Error:	1860000
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.329129	10.0	866469.0	1.645645	Y
2	IC 410-102081/17	0.5	0.828285	10.0	872465.0	1.656571	Y
3	IC 410-102081/16	1.0	1.672449	10.0	873073.0	1.672449	Y
4	IC 410-102081/15	2.0	3.379049	10.0	891523.0	1.689525	Y
5	IC 410-102081/14	5.0	8.743601	10.0	894811.0	1.74872	Y
6	ICIS 410-102081/13	10.0	17.624641	10.0	910957.0	1.762464	Y
7	IC 410-102081/12	25.0	45.503078	10.0	918475.0	1.820123	Y



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Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

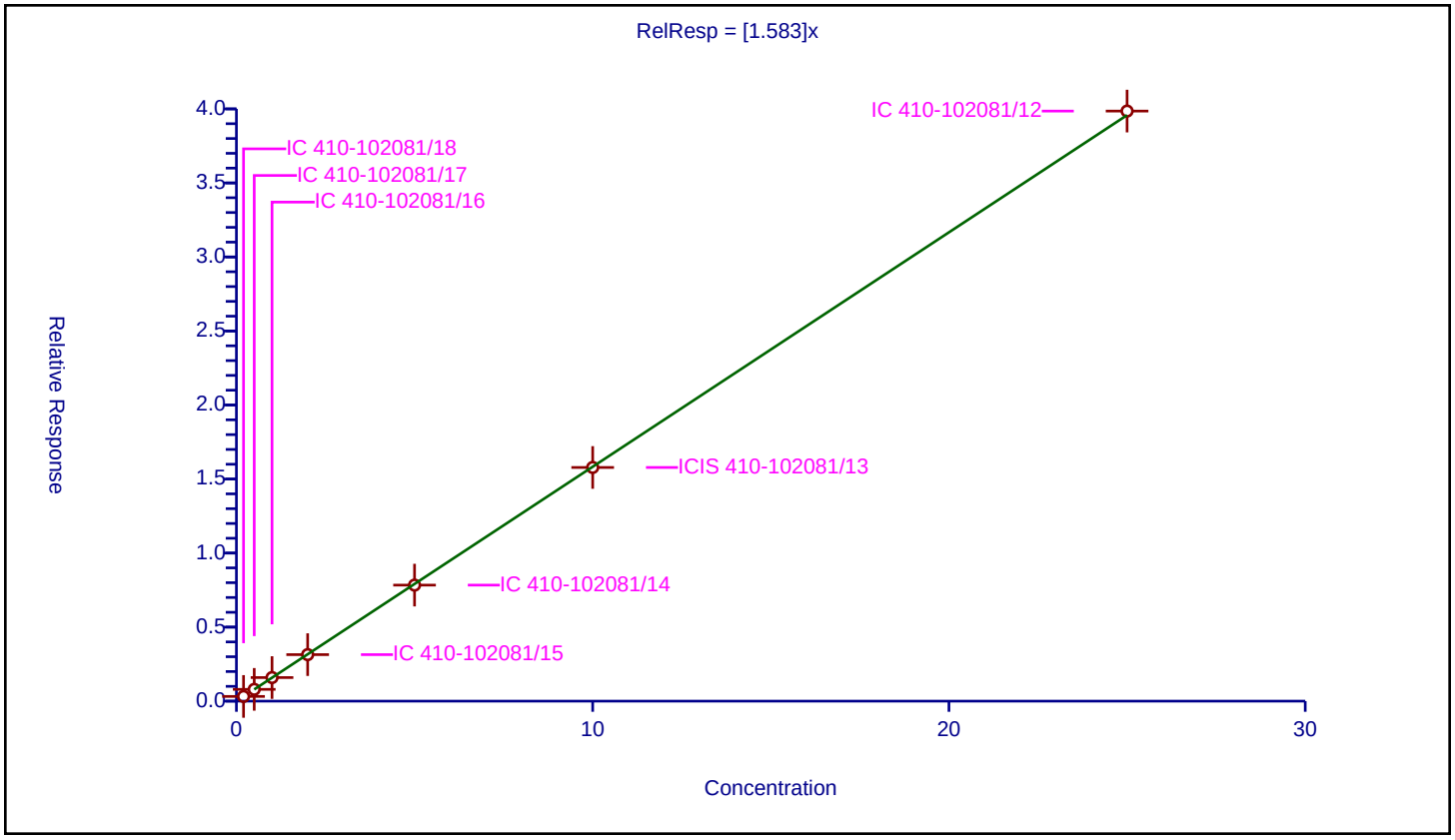
Curve Coefficients

Intercept:	0
Slope:	1.583

Error Coefficients

Standard Error:	1640000
Relative Standard Error:	0.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.317288	10.0	866469.0	1.586439	Y
2	IC 410-102081/17	0.5	0.795803	10.0	872465.0	1.591605	Y
3	IC 410-102081/16	1.0	1.593406	10.0	873073.0	1.593406	Y
4	IC 410-102081/15	2.0	3.141153	10.0	891523.0	1.570576	Y
5	IC 410-102081/14	5.0	7.837163	10.0	894811.0	1.567433	Y
6	ICIS 410-102081/13	10.0	15.78181	10.0	910957.0	1.578181	Y
7	IC 410-102081/12	25.0	39.852418	10.0	918475.0	1.594097	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

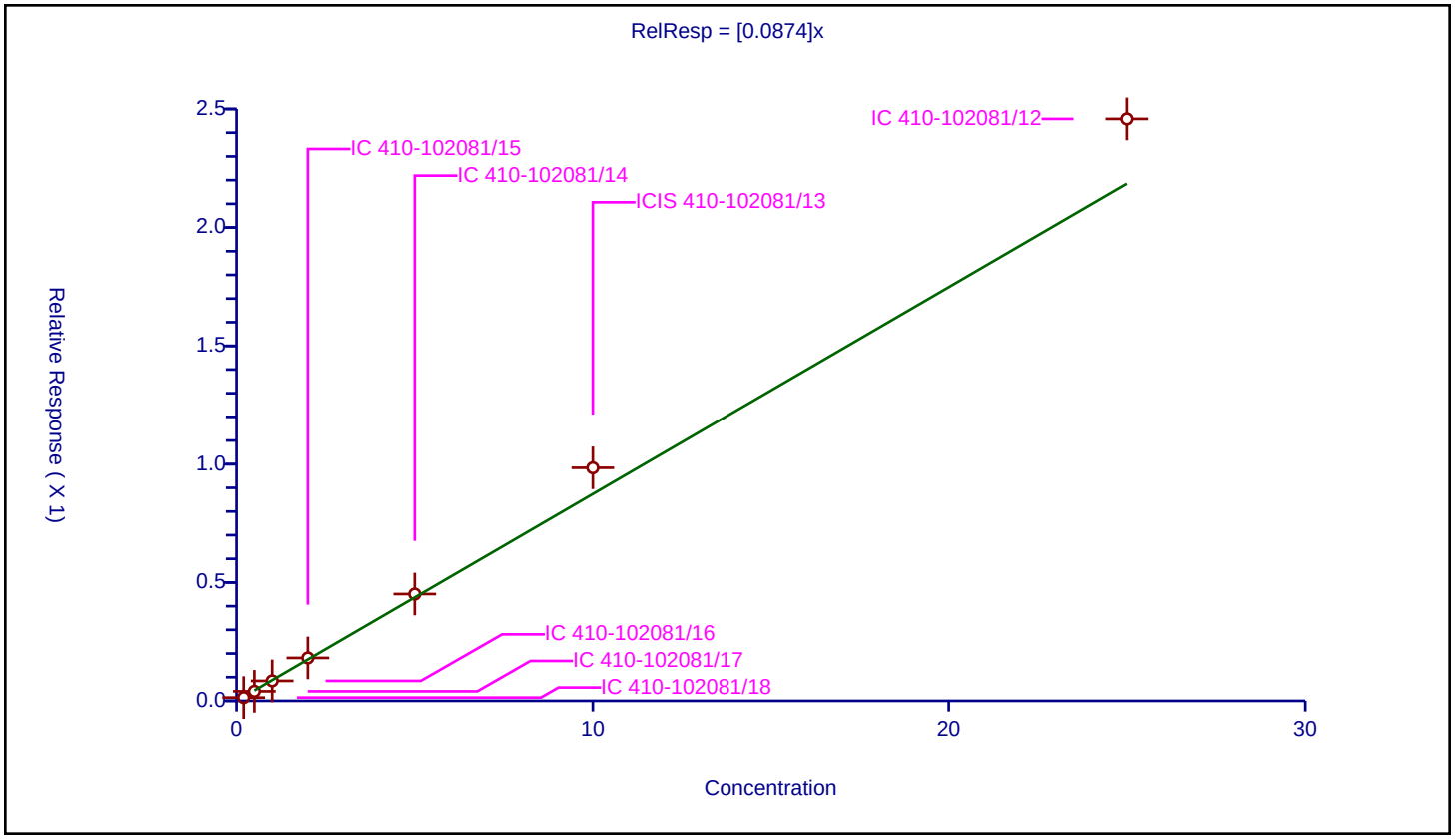
Curve Coefficients

Intercept:	0
Slope:	0.0874

Error Coefficients

Standard Error:	101000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.013838	10.0	866469.0	0.069189	Y
2	IC 410-102081/17	0.5	0.040277	10.0	872465.0	0.080553	Y
3	IC 410-102081/16	1.0	0.084357	10.0	873073.0	0.084357	Y
4	IC 410-102081/15	2.0	0.181375	10.0	891523.0	0.090688	Y
5	IC 410-102081/14	5.0	0.451235	10.0	894811.0	0.090247	Y
6	ICIS 410-102081/13	10.0	0.984745	10.0	910957.0	0.098474	Y
7	IC 410-102081/12	25.0	2.45814	10.0	918475.0	0.098326	Y



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Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

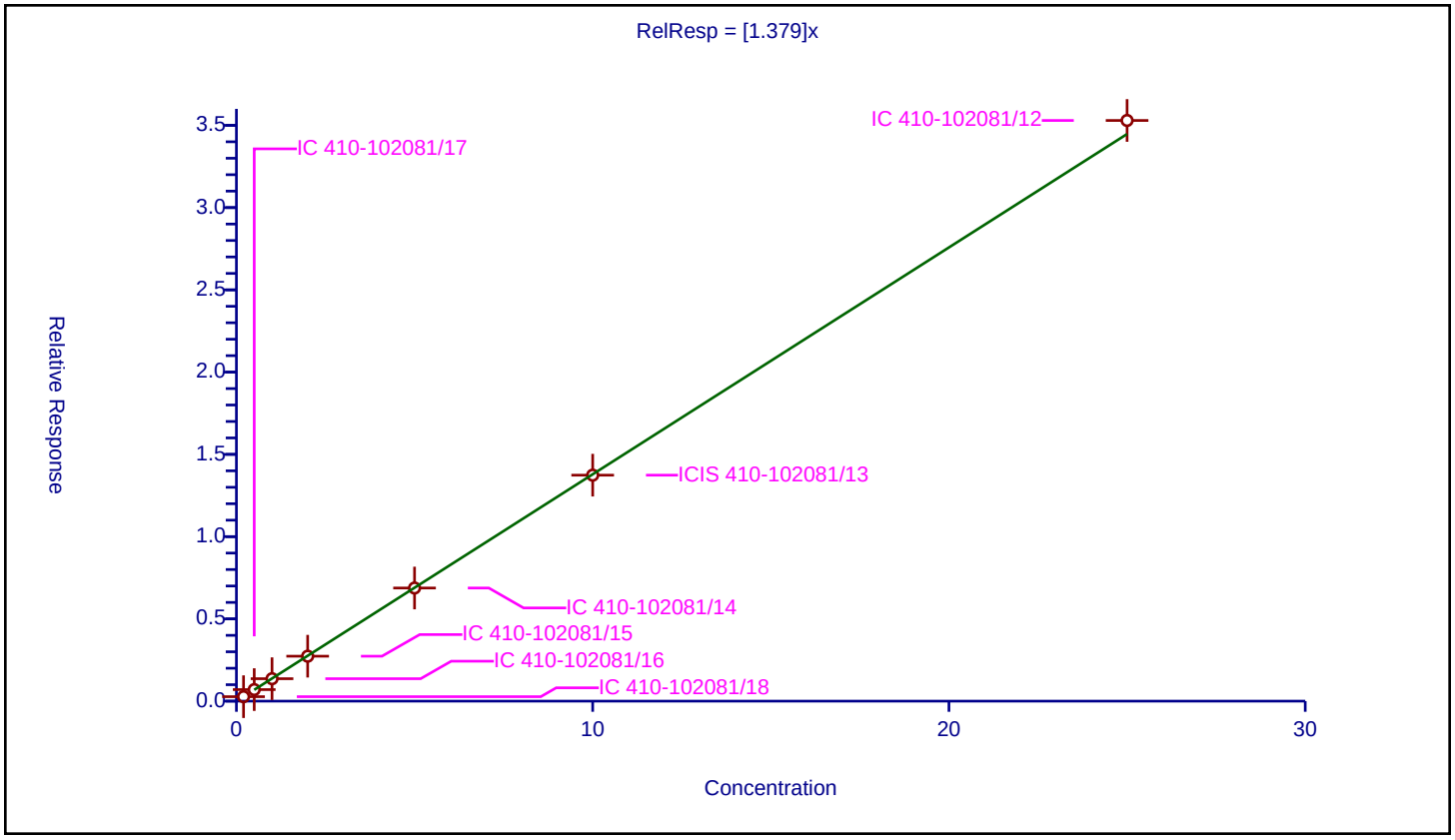
Curve Coefficients

Intercept:	0
Slope:	1.379

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	1.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.2717	10.0	866469.0	1.358502	Y
2	IC 410-102081/17	0.5	0.701644	10.0	872465.0	1.403288	Y
3	IC 410-102081/16	1.0	1.36346	10.0	873073.0	1.36346	Y
4	IC 410-102081/15	2.0	2.732403	10.0	891523.0	1.366201	Y
5	IC 410-102081/14	5.0	6.876558	10.0	894811.0	1.375312	Y
6	ICIS 410-102081/13	10.0	13.736115	10.0	910957.0	1.373611	Y
7	IC 410-102081/12	25.0	35.295865	10.0	918475.0	1.411835	Y



7/30/2025
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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

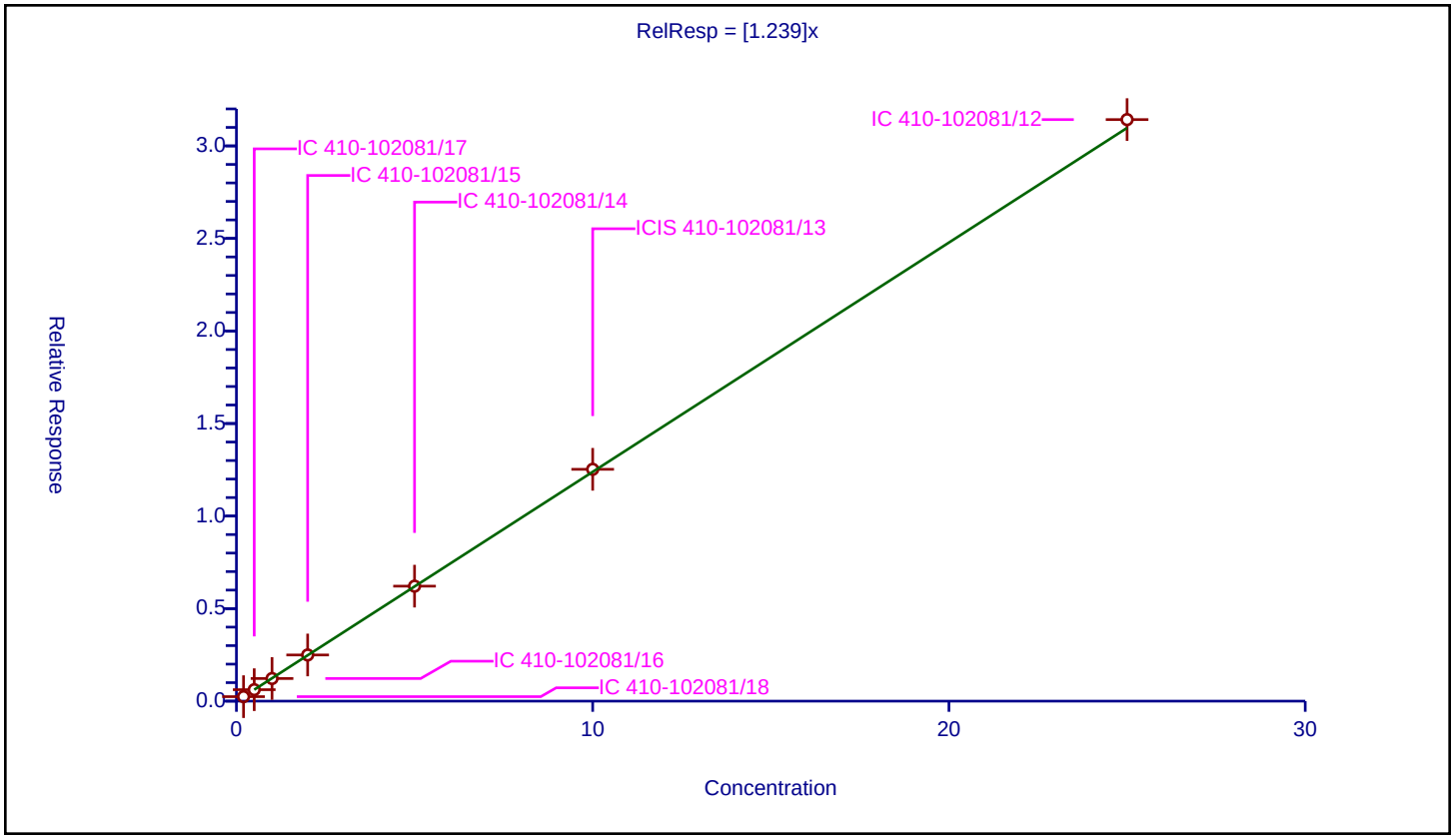
Curve Coefficients

Intercept:	0
Slope:	1.239

Error Coefficients

Standard Error:	1290000
Relative Standard Error:	1.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.241936	10.0	866469.0	1.20968	Y
2	IC 410-102081/17	0.5	0.619956	10.0	872465.0	1.239912	Y
3	IC 410-102081/16	1.0	1.223117	10.0	873073.0	1.223117	Y
4	IC 410-102081/15	2.0	2.494753	10.0	891523.0	1.247377	Y
5	IC 410-102081/14	5.0	6.212954	10.0	894811.0	1.242591	Y
6	ICIS 410-102081/13	10.0	12.526563	10.0	910957.0	1.252656	Y
7	IC 410-102081/12	25.0	31.420942	10.0	918475.0	1.256838	Y



7/30/2025
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Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

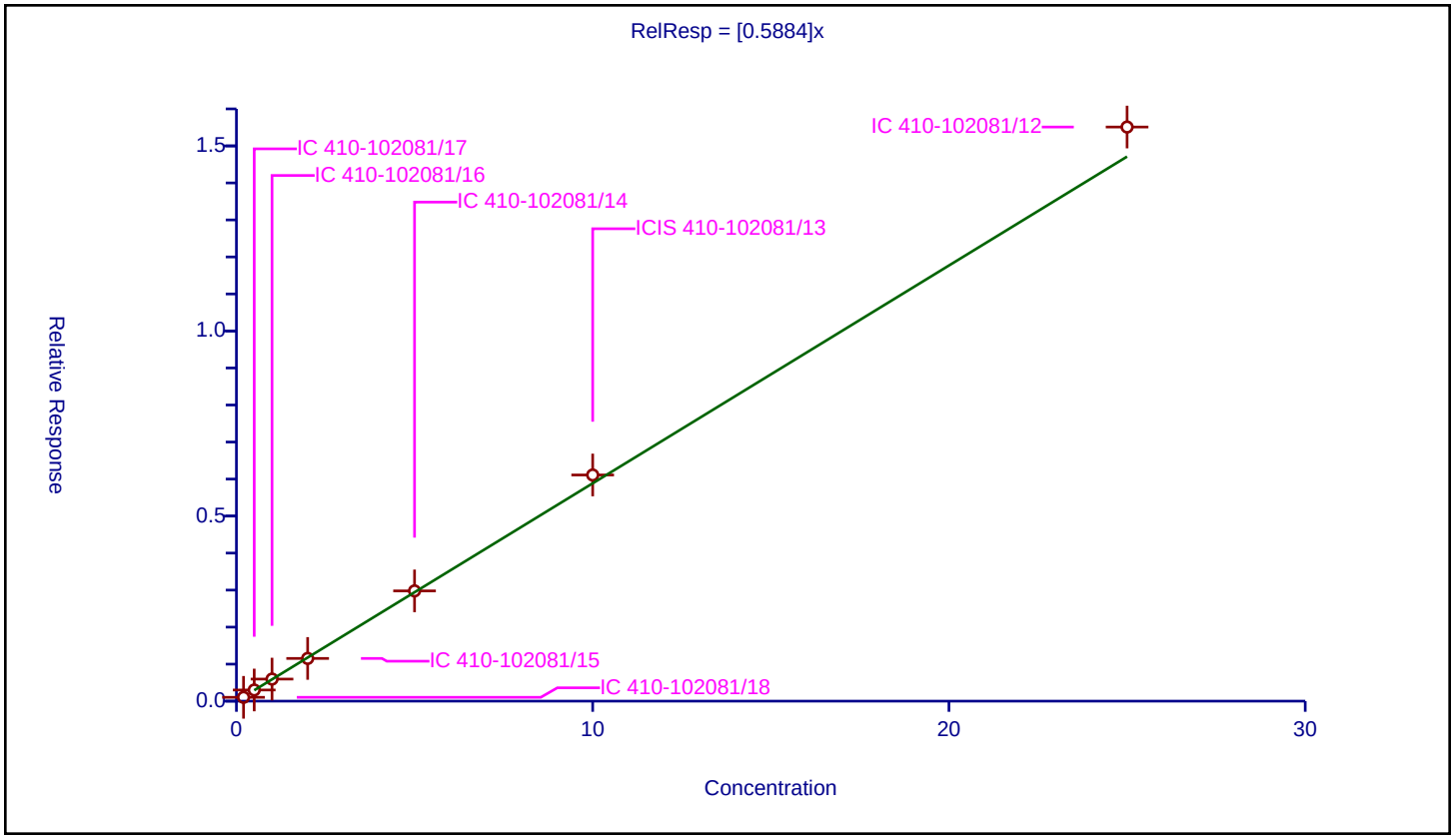
Curve Coefficients

Intercept:	0
Slope:	0.5884

Error Coefficients

Standard Error:	636000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.103374	10.0	866469.0	0.516868	Y
2	IC 410-102081/17	0.5	0.300883	10.0	872465.0	0.601766	Y
3	IC 410-102081/16	1.0	0.596296	10.0	873073.0	0.596296	Y
4	IC 410-102081/15	2.0	1.154092	10.0	891523.0	0.577046	Y
5	IC 410-102081/14	5.0	2.978517	10.0	894811.0	0.595703	Y
6	ICIS 410-102081/13	10.0	6.10974	10.0	910957.0	0.610974	Y
7	IC 410-102081/12	25.0	15.510264	10.0	918475.0	0.620411	Y



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Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

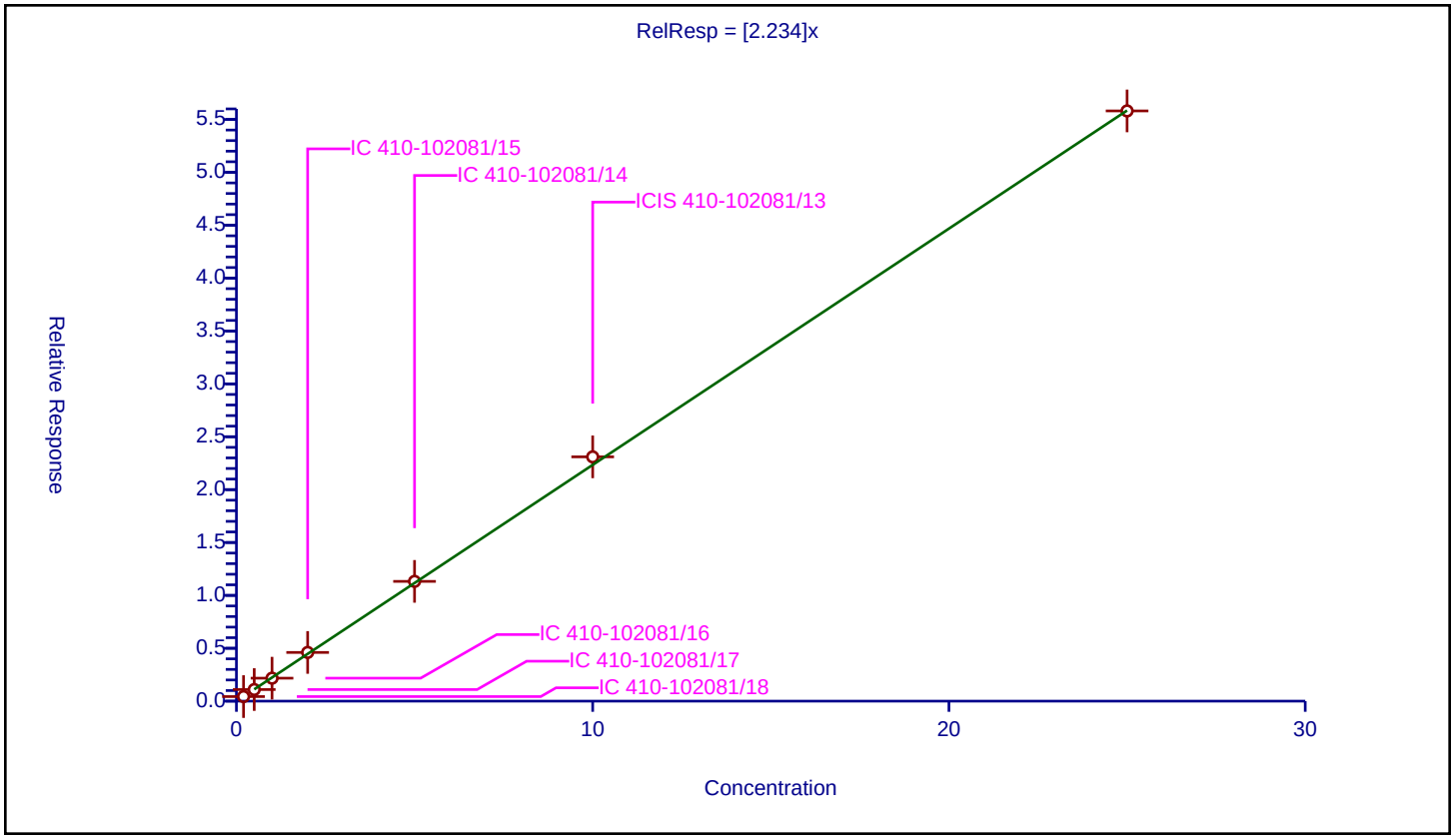
Curve Coefficients

Intercept:	0
Slope:	2.234

Error Coefficients

Standard Error:	2310000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.43271	10.0	866469.0	2.163551	Y
2	IC 410-102081/17	0.5	1.096594	10.0	872465.0	2.193188	Y
3	IC 410-102081/16	1.0	2.171342	10.0	873073.0	2.171342	Y
4	IC 410-102081/15	2.0	4.60577	10.0	891523.0	2.302885	Y
5	IC 410-102081/14	5.0	11.324235	10.0	894811.0	2.264847	Y
6	ICIS 410-102081/13	10.0	23.098577	10.0	910957.0	2.309858	Y
7	IC 410-102081/12	25.0	55.808117	10.0	918475.0	2.232325	Y



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Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

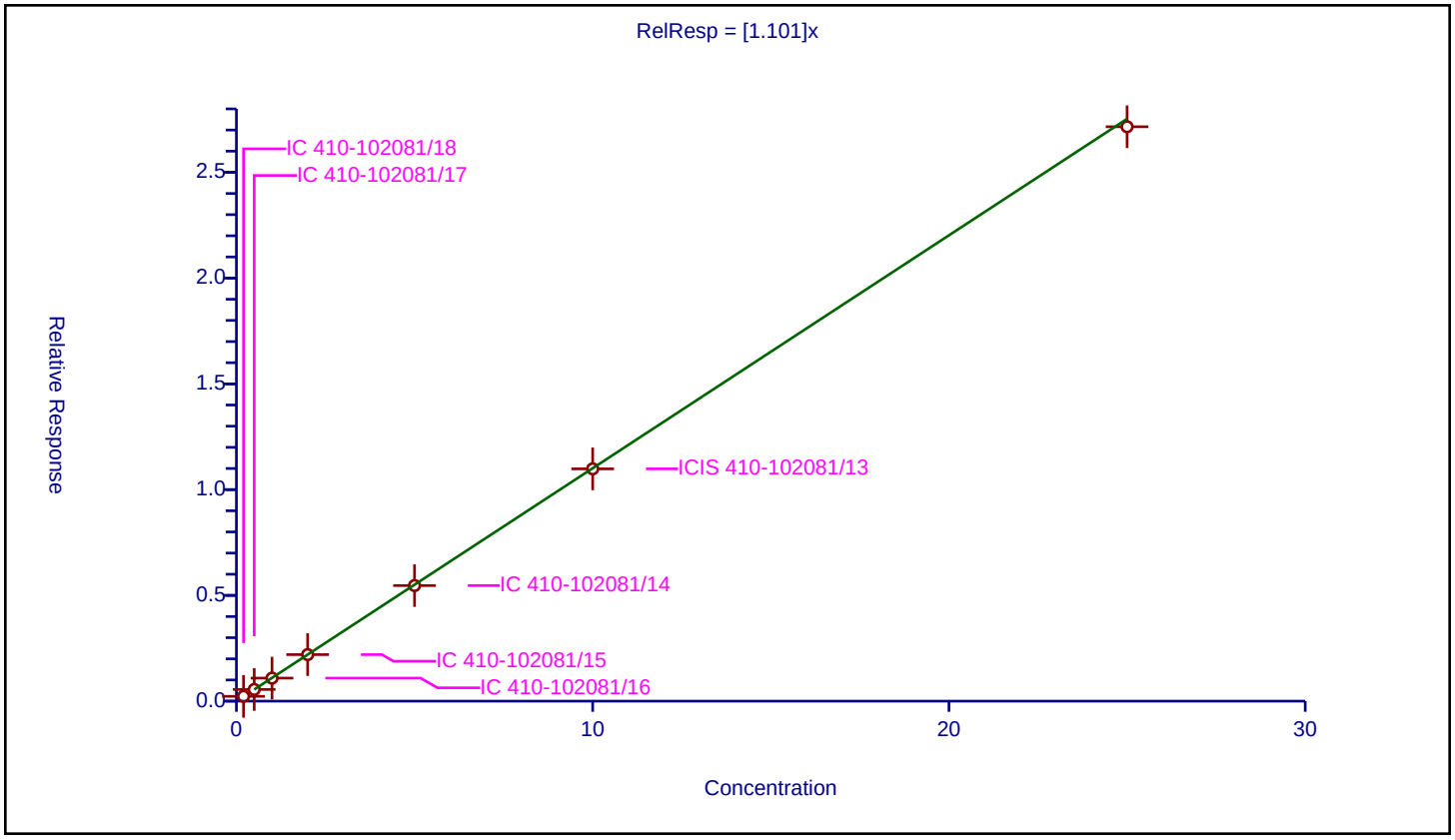
Curve Coefficients

Intercept:	0
Slope:	1.101

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	1.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-102081/18	0.2	0.227648	10.0	866469.0	1.13824	Y
2	IC 410-102081/17	0.5	0.551632	10.0	872465.0	1.103265	Y
3	IC 410-102081/16	1.0	1.088809	10.0	873073.0	1.088809	Y
4	IC 410-102081/15	2.0	2.200336	10.0	891523.0	1.100168	Y
5	IC 410-102081/14	5.0	5.464774	10.0	894811.0	1.092955	Y
6	ICIS 410-102081/13	10.0	10.982549	10.0	910957.0	1.098255	Y
7	IC 410-102081/12	25.0	27.154599	10.0	918475.0	1.086184	Y



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FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 17:23 Calibration End Date: 06/04/2025 19:37 Calibration ID: 73329

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-652703/3	CU04X02.D
Level 2	IC 410-652703/4	CU04X03.D
Level 3	IC 410-652703/5	CU04X04.D
Level 4	IC 410-652703/6	CU04X05.D
Level 5	IC 410-652703/7	CU04X06.D
Level 6	IC 410-652703/8	CU04X07.D
Level 7	IC 410-652703/9	CU04X08.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorodifluoromethane	0.4232 0.3835	0.3935 0.4025	0.4074	0.3890	0.3752	Ave		0.3963				4.1		20.0			
Dimethyl ether	+++++ 0.4203	0.5889 0.3905	0.4941	0.4396	0.3668	Ave		0.4500				18.0		20.0			
Acetonitrile	+++++ 0.0169	0.0221 0.0162	0.0190	0.0173	0.0168	Ave		0.0181				12.1		20.0			
Vinyl acetate	0.4490 0.3491	0.3235 0.3092	0.3915	0.3572	0.3469	Ave		0.3609				13.0		20.0			
Ethyl acetate	0.1953 0.1861	0.1592 0.1750	0.1568	0.1668	0.1828	Ave		0.1745				8.2		20.0			
2-Chloroethyl vinyl ether	0.1076 0.1245	0.1022 0.1320	0.1122	0.1180	0.1177	Ave		0.1163				8.7		20.0			
cis-1,4-Dichloro-2-butene	+++++ 0.0948	0.0696 0.1105	0.0730	0.0817	0.0842	Ave		0.0856				17.6		20.0			
Cyclohexanone	0.2821 0.3458	0.2734 0.3763	0.3336	0.3445	0.3476	Ave		0.3290				11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1 | Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 | GC Column: R-624SilMS ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 17:23 | Calibration End Date: 06/04/2025 19:37 | Calibration ID: 73329

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-652703/3	CU04X02.D
Level 2	IC 410-652703/4	CU04X03.D
Level 3	IC 410-652703/5	CU04X04.D
Level 4	IC 410-652703/6	CU04X05.D
Level 5	IC 410-652703/7	CU04X06.D
Level 6	IC 410-652703/8	CU04X07.D
Level 7	IC 410-652703/9	CU04X08.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorodifluoromethane	FB	Ave	20282 916349	45497 2297943	95968	180151	447076	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dimethyl ether	FB	Ave	+++++ 1004202	68098 2229899	116368	203565	437163	+++++ 10.0	0.500 25.0	1.00	2.00	5.00
Acetonitrile	FB	Ave	+++++ 202276	12762 463075	22368	40045	100216	+++++ 50.0	2.50 125	5.00	10.0	25.0
Vinyl acetate	FB	Ave	21519 834061	37404 1765540	92210	165440	413433	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl acetate	FB	Ave	9357 444702	18405 999028	36924	77255	217786	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloroethyl vinyl ether	FB	Ave	5155 297417	11822 753907	26418	54643	140307	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,4-Dichloro-2-butene	CBZd5	Ave	+++++ 345004	12144 964543	26100	57340	150756	+++++ 20.0	1.000 50.0	2.00	4.00	10.00
Cyclohexanone	TBAd10	Ave	12061 703088	26136 1771793	67325	138781	317052	10.00 500	25.0 1250	50.0	100.0	250

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 17:23 Calibration End Date: 06/04/2025 19:37 Calibration ID: 73329

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-652703/3	CU04X02.D
Level 2	IC 410-652703/4	CU04X03.D
Level 3	IC 410-652703/5	CU04X04.D
Level 4	IC 410-652703/6	CU04X05.D
Level 5	IC 410-652703/7	CU04X06.D
Level 6	IC 410-652703/8	CU04X07.D
Level 7	IC 410-652703/9	CU04X08.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Chlorodifluoromethane	6.8 1.5	-0.7	2.8	-1.8	-5.3	-3.2	50 30	30	30	30	30	30
Dimethyl ether	+++++ -13.2	30.9	9.8	-2.3	-18.5	-6.6	 30	50	30	30	30	30
Acetonitrile	+++++ -10.2	22.3	5.2	-4.2	-6.8	-6.2	 30	50	30	30	30	30
Vinyl acetate	24.4 -14.3	-10.4	8.5	-1.0	-3.9	-3.3	50 30	30	30	30	30	30
Ethyl acetate	11.9 0.2	-8.8	-10.2	-4.4	4.7	6.6	50 30	30	30	30	30	30
2-Chloroethyl vinyl ether	-7.5 13.5	-12.1	-3.6	1.4	1.2	7.0	50 30	30	30	30	30	30
cis-1,4-Dichloro-2-butene	+++++ 29.0	-18.8	-14.8	-4.6	-1.6	10.7	 30	50	30	30	30	30
Cyclohexanone	-14.3 14.4	-16.9	1.4	4.7	5.6	5.1	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X02.D
Lims ID: IC STD.2 Sm
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Jun-2025 17:23:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-003
Misc. Info.: IC STD.2 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:17:58 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:05:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.720	1.720	0.000	92	8209	0.2000	0.1860	
3 Chlorodifluoromethane	51	1.768	1.768	0.000	30	20282	0.2000	0.2136	
4 Dimethyl ether	45	1.799	1.805	-0.006	96	52454	0.2000	0.4864	Ma
8 2-Chloro-1,1,1-Trifluoroethane	118	2.085	2.079	0.006	36	15136	0.2000	0.2003	
27 Acetonitrile	41	3.414	3.451	-0.037	32	9702	1.00	2.24	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.671	-0.007	97	213759	50.0	50.0	
38 Vinyl acetate	43	4.682	4.640	0.042	98	21519	0.2000	0.2488	
46 Ethyl acetate	43	5.566	5.554	0.012	97	9357	0.2000	0.2237	
63 Isopropyl acetate	43	6.840	6.828	0.012	70	19236	0.2000	0.2049	
* 65 Fluorobenzene (IS)	96	7.139	7.146	-0.007	99	2396109	10.0	10.0	
75 n-Propyl acetate	61	8.182	8.170	0.012	99	3280	0.2000	0.1727	
79 2-Chloroethyl vinyl ether	63	8.736	8.724	0.012	89	5155	0.2000	0.1850	
109 n-Butyl acetate	43	10.242	10.224	0.018	98	15795	0.2000	0.1929	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.816	-0.001	89	1815665	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.772	11.772	0.000	96	5474	0.3999	0.3521	
123 Cyclohexanone	55	11.797	11.797	0.000	91	12061	10.0	8.57	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.766	0.006	95	979792	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00049	Amount Added:	0.20	Units: uL
MSV_V_SMRV4_00088	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00011	Amount Added:	1.60	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	0.20	Units: uL

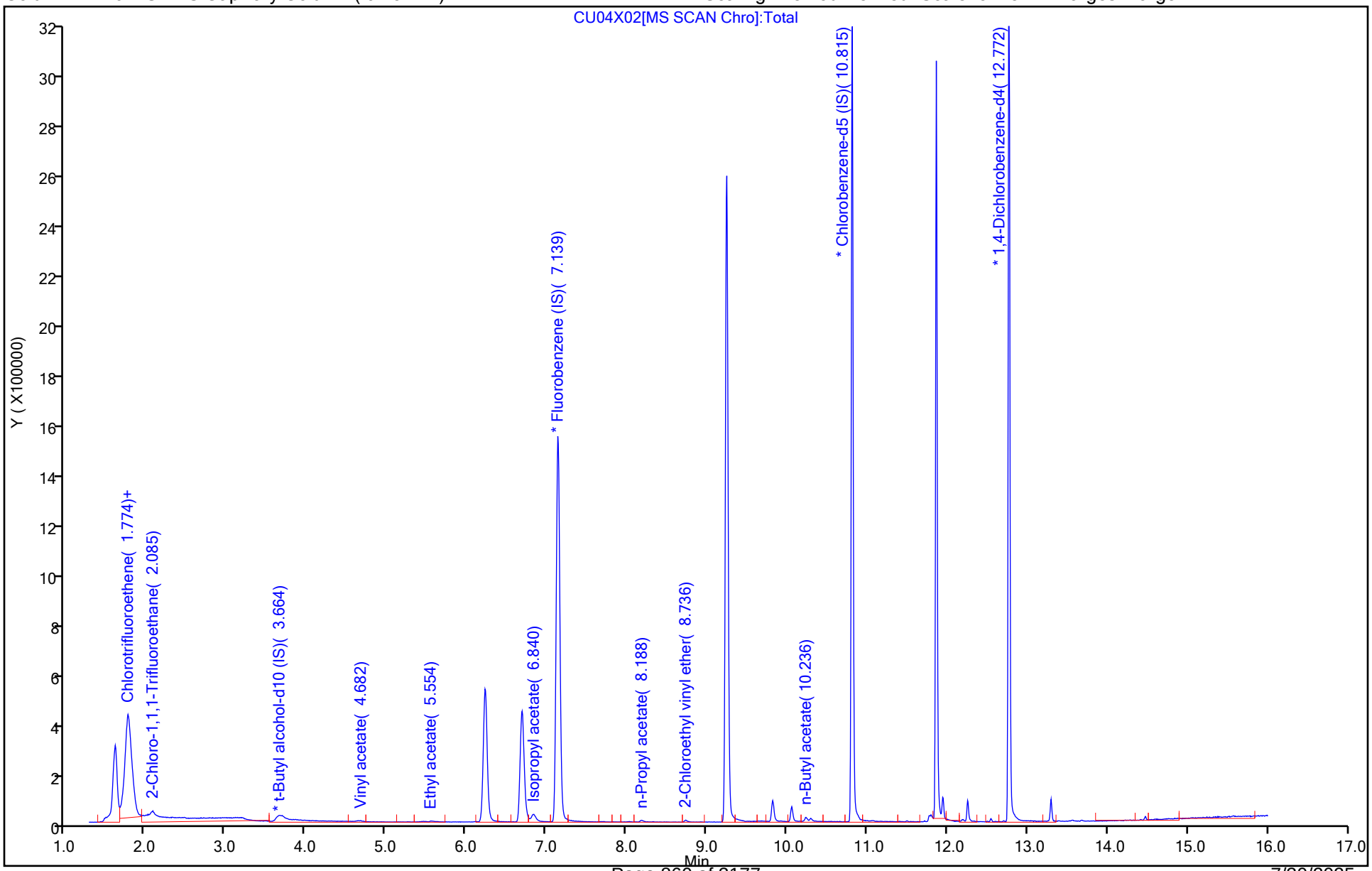
Report Date: 06-Jun-2025 09:17:59 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X02.D

Injection Date:	04-Jun-2025 17:23:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD.2 Sm			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
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Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

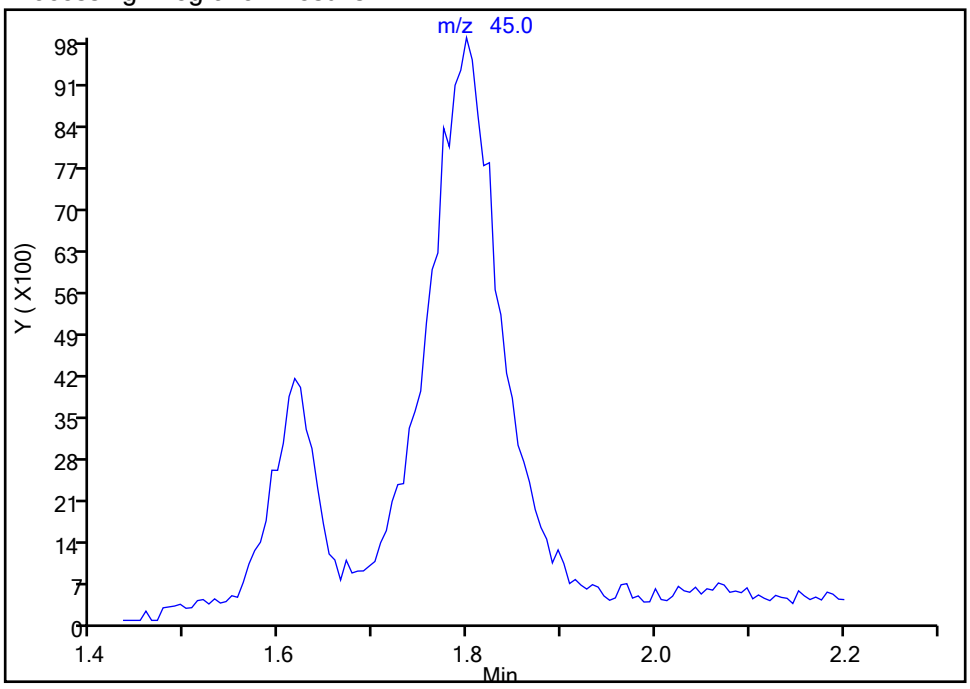
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X02.D				
Injection Date:	04-Jun-2025 17:23:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

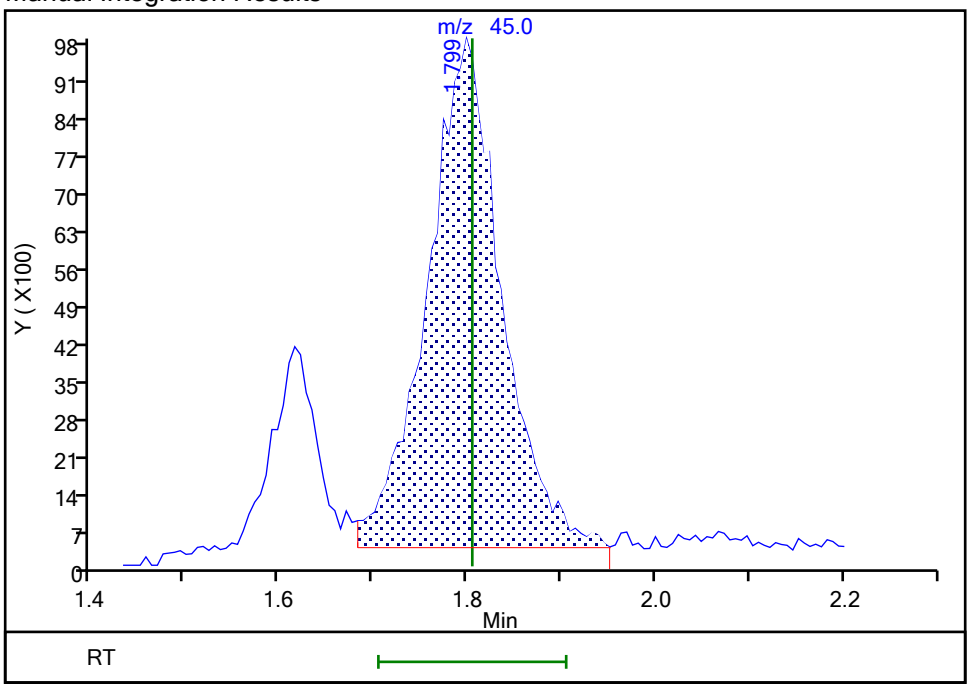
Not Detected
Expected RT: 1.80

Processing Integration Results



Manual Integration Results

RT: 1.80
Area: 52454
Amount: 0.486442
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:04:48 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

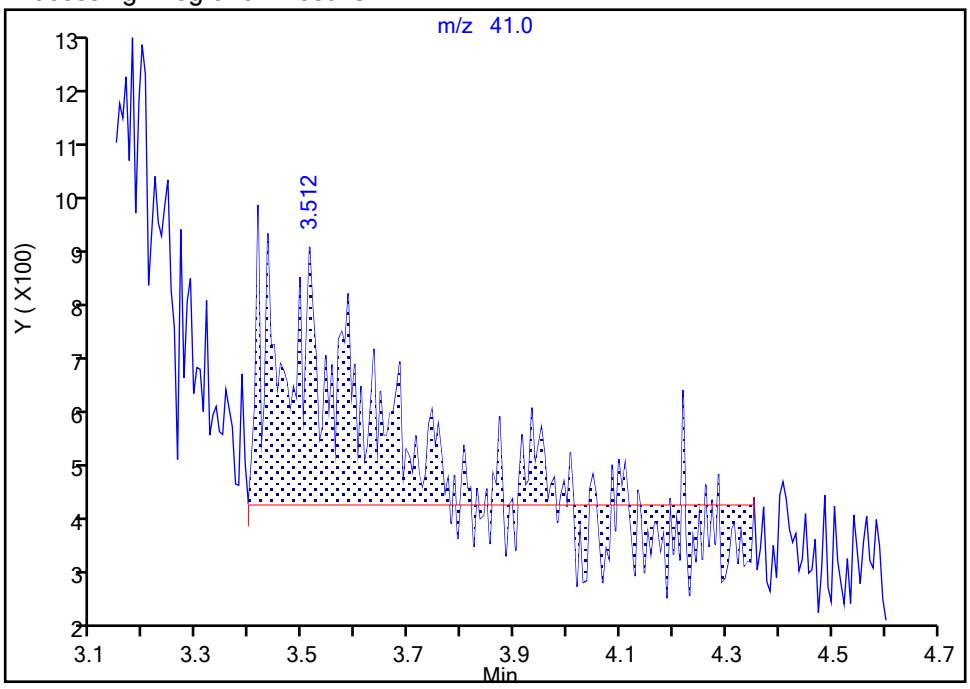
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X02.D				
Injection Date:	04-Jun-2025 17:23:30	Instrument ID:	10193		
Lims ID:	IC STD.2 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

27 Acetonitrile, CAS: 75-05-8

Signal: 1

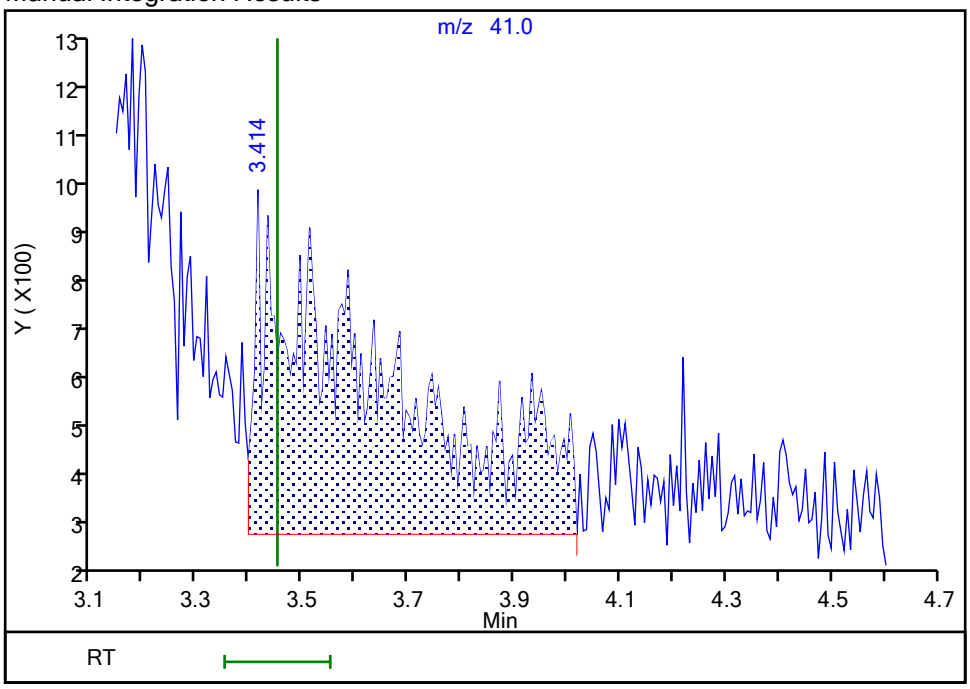
Processing Integration Results

RT: 3.51
Area: 3479
Amount: 0.580220
Amount Units: ug/l



Manual Integration Results

RT: 3.41
Area: 9702
Amount: 2.242612
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:04:57 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X03.D
Lims ID: IC STD.5 Sm
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Jun-2025 17:46:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-004
Misc. Info.: IC STD.5 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:04:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.726	1.720	0.006	93	19114	0.5000	0.4487	
3 Chlorodifluoromethane	51	1.775	1.768	0.007	98	45497	0.5000	0.4964	
4 Dimethyl ether	45	1.799	1.805	-0.006	100	68098	0.5000	0.6543	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.086	2.079	0.007	35	34280	0.5000	0.4701	
27 Acetonitrile	41	3.500	3.451	0.049	22	12762	2.50	3.06	a
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	98	191221	50.0	50.0	
38 Vinyl acetate	43	4.652	4.640	0.012	97	37404	0.5000	0.4481	
46 Ethyl acetate	43	5.560	5.554	0.006	99	18405	0.5000	0.4559	
63 Isopropyl acetate	43	6.847	6.828	0.019	97	43274	0.5000	0.4775	
* 65 Fluorobenzene (IS)	96	7.146	7.146	0.000	99	2312682	10.0	10.0	
75 n-Propyl acetate	61	8.182	8.170	0.012	98	7837	0.5000	0.4276	
79 2-Chloroethyl vinyl ether	63	8.731	8.724	0.007	93	11822	0.5000	0.4395	
109 n-Butyl acetate	43	10.230	10.224	0.006	97	33981	0.5000	0.4314	
* 111 Chlorobenzene-d5 (IS)	117	10.816	10.816	0.000	86	1746051	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.773	11.772	0.001	97	12144	1.00	0.8122	
123 Cyclohexanone	55	11.797	11.797	0.000	92	26136	25.0	20.8	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.766	0.006	95	932648	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
a - User Assigned ID

Reagents:

MSV_CCV_V5ACE_00049	Amount Added:	0.50	Units: uL
MSV_CCV_CYC_00011	Amount Added:	4.00	Units: uL
MSV_V_SMRV4_00088	Amount Added:	2.50	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	0.50	Units: uL

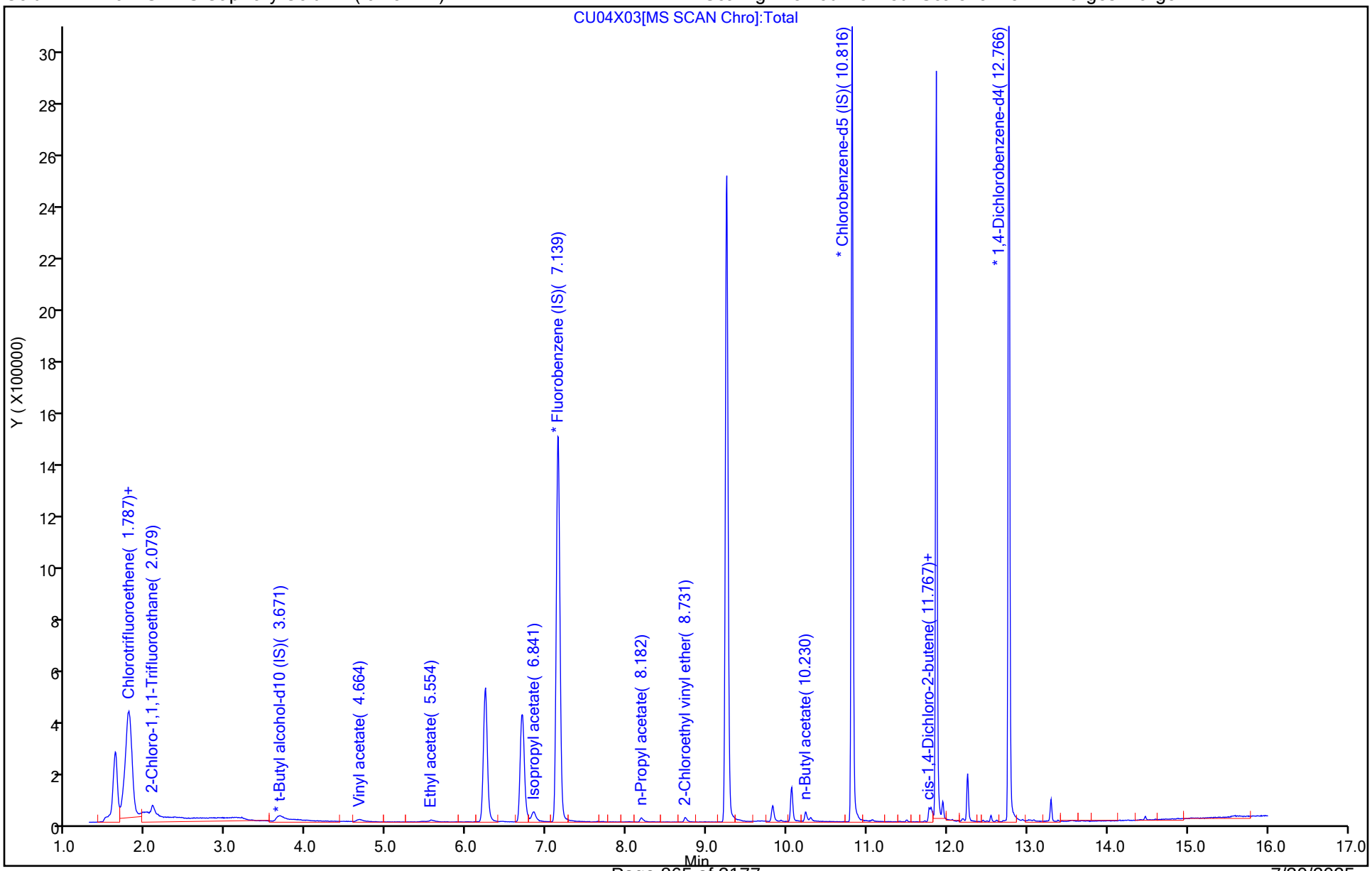
Report Date: 06-Jun-2025 09:18:01 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X03.D

Injection Date:	04-Jun-2025 17:46:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD.5 Sm			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

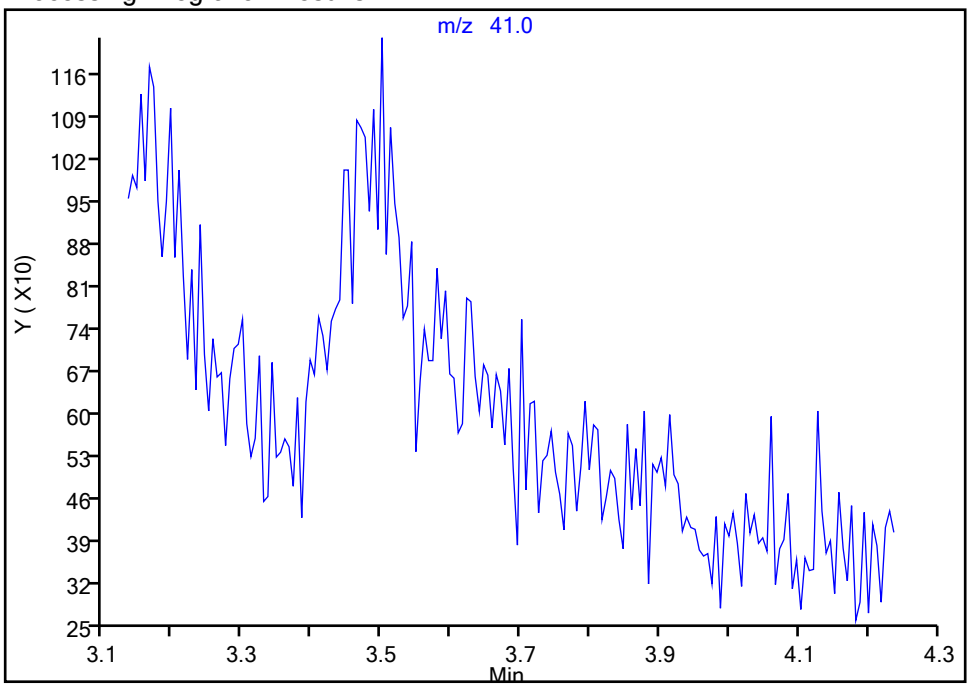
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X03.D				
Injection Date:	04-Jun-2025 17:46:30	Instrument ID:	10193		
Lims ID:	IC STD.5 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

27 Acetonitrile, CAS: 75-05-8

Signal: 1

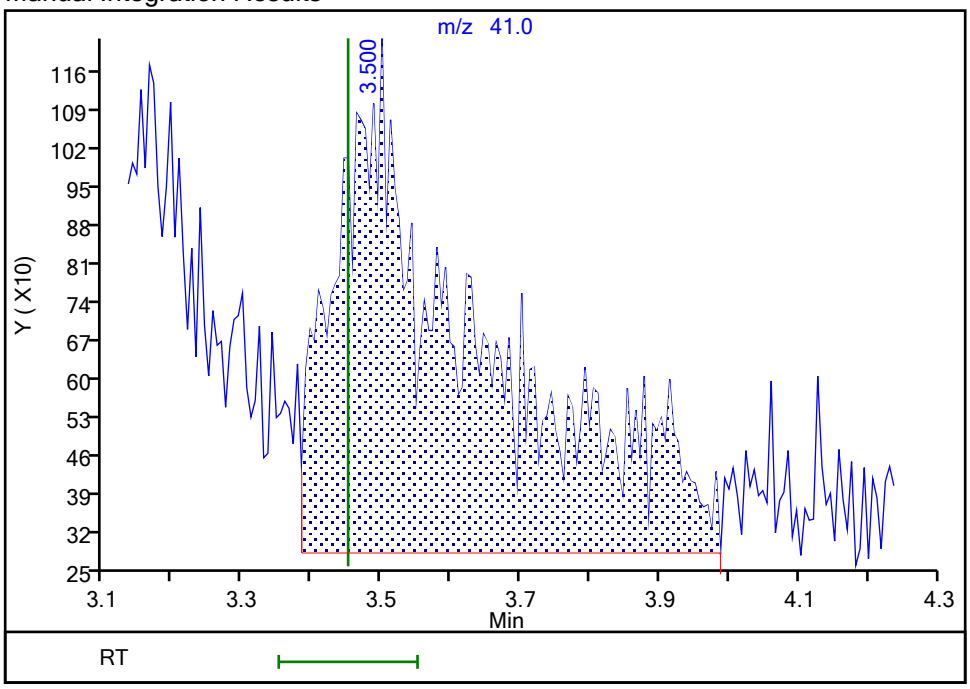
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 12762
Amount: 3.056345
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:04:20 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X04.D
Lims ID: IC STD1 Sm
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Jun-2025 18:08:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-005
Misc. Info.: IC STD1 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:04 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:04:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.726	1.720	0.006	93	43261	1.00	1.00	
3 Chlorodifluoromethane	51	1.781	1.768	0.013	99	95968	1.00	1.03	
4 Dimethyl ether	45	1.811	1.805	0.006	99	116368	1.00	1.10	M
8 2-Chloro-1,1,1-Trifluoroethane	118	2.091	2.079	0.012	35	72375	1.00	0.9745	
27 Acetonitrile	41	3.457	3.451	0.006	73	22368	5.00	5.26	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.671	-0.007	97	201858	50.0	50.0	
38 Vinyl acetate	43	4.664	4.640	0.024	97	92210	1.00	1.08	
46 Ethyl acetate	43	5.566	5.554	0.012	99	36924	1.00	0.8981	
63 Isopropyl acetate	43	6.841	6.828	0.013	99	90549	1.00	0.9810	
* 65 Fluorobenzene (IS)	96	7.145	7.146	-0.001	99	2355344	10.0	10.0	
75 n-Propyl acetate	61	8.188	8.170	0.018	98	18421	1.00	0.9868	
79 2-Chloroethyl vinyl ether	63	8.730	8.724	0.006	91	26418	1.00	0.9643	
109 n-Butyl acetate	43	10.230	10.224	0.006	98	80192	1.00	0.99	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.816	-0.001	86	1789031	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.773	11.772	0.001	98	26100	2.00	1.70	
123 Cyclohexanone	55	11.803	11.797	0.006	94	67325	50.0	50.7	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.766	0.006	95	967798	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00049	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00011	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00088	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	1.00	Units: uL

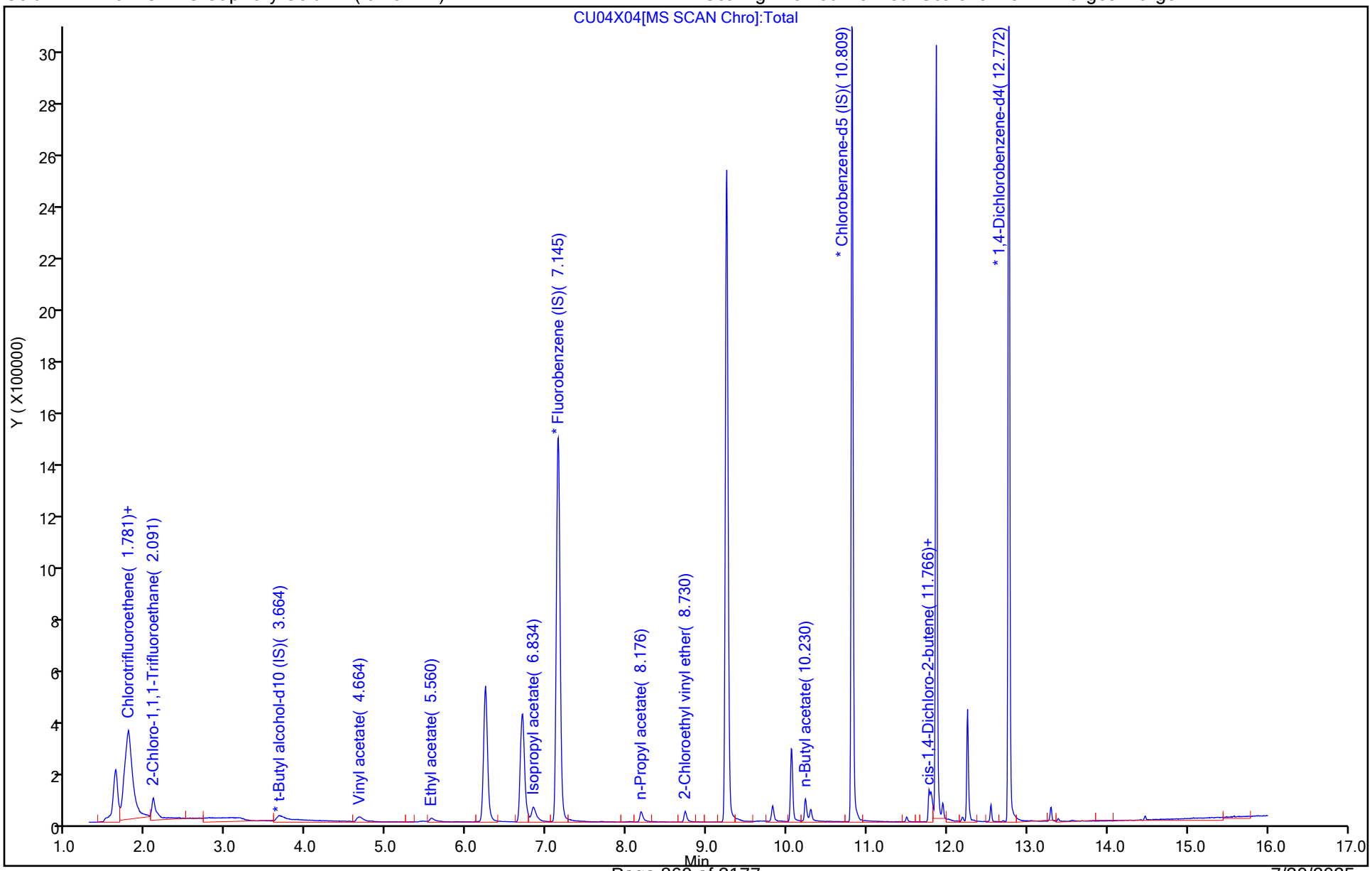
Report Date: 06-Jun-2025 09:18:04 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X04.D

Injection Date:	04-Jun-2025 18:08:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD1 Sm			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

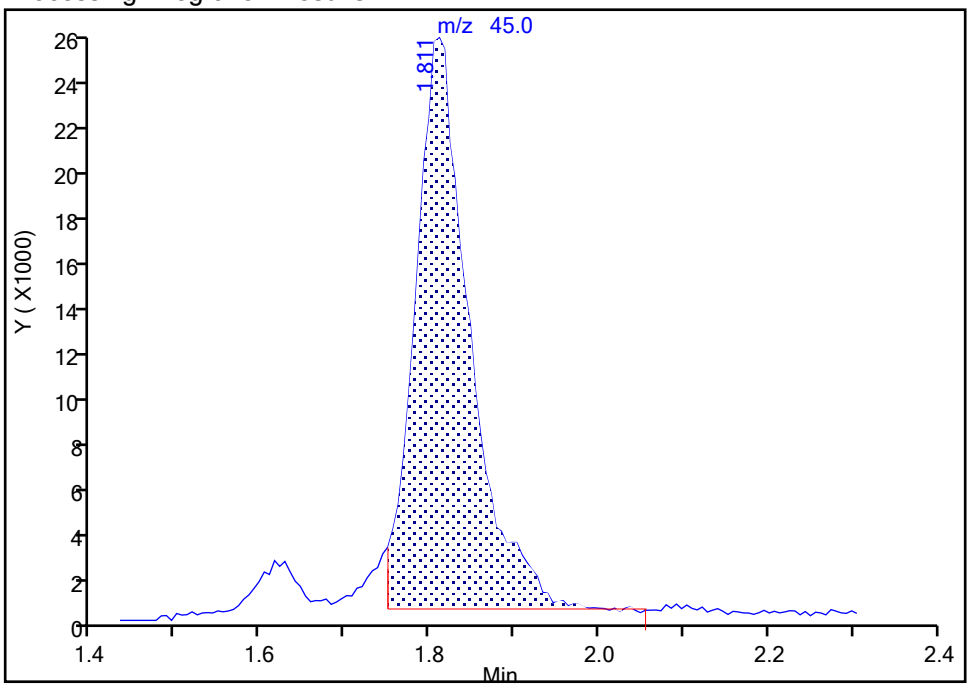
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X04.D				
Injection Date:	04-Jun-2025 18:08:30	Instrument ID:	10193		
Lims ID:	IC STD1 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	4	Worklist Smp#:	5
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

4 Dimethyl ether, CAS: 115-10-6

Signal: 1

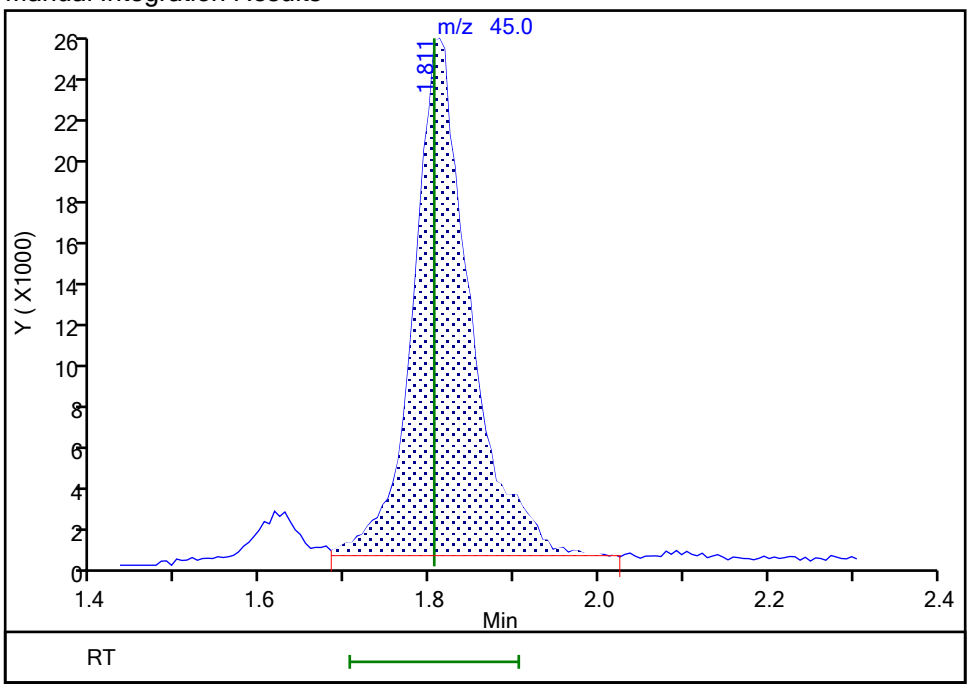
Processing Integration Results

RT: 1.81
Area: 111314
Amount: 1.058569
Amount Units: ug/l



Manual Integration Results

RT: 1.81
Area: 116368
Amount: 1.097838
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:38:24 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Other

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X05.D
Lims ID: IC STD2 Sm
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Jun-2025 18:30:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-006
Misc. Info.: IC STD2 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:06 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:03:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.726	1.720	0.006	93	87401	2.00	2.05	
3 Chlorodifluoromethane	51	1.781	1.768	0.013	84	180151	2.00	1.96	
4 Dimethyl ether	45	1.817	1.805	0.012	99	203565	2.00	1.95	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.092	2.079	0.013	35	150045	2.00	2.06	
27 Acetonitrile	41	3.457	3.451	0.006	95	40045	10.0	9.58	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	97	201447	50.0	50.0	
38 Vinyl acetate	43	4.664	4.640	0.024	97	165440	2.00	1.98	
46 Ethyl acetate	43	5.567	5.554	0.013	99	77255	2.00	1.91	
63 Isopropyl acetate	43	6.841	6.828	0.013	98	172472	2.00	1.90	
* 65 Fluorobenzene (IS)	96	7.145	7.146	-0.001	99	2315509	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	99	37020	2.00	2.02	
79 2-Chloroethyl vinyl ether	63	8.731	8.724	0.007	93	54643	2.00	2.03	
109 n-Butyl acetate	43	10.230	10.224	0.006	97	155032	2.00	1.96	
* 111 Chlorobenzene-d5 (IS)	117	10.816	10.816	0.000	86	1754507	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.773	11.772	0.001	97	57340	4.00	3.82	
123 Cyclohexanone	55	11.797	11.797	0.000	91	138781	100.0	104.7	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.766	0.006	95	948063	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

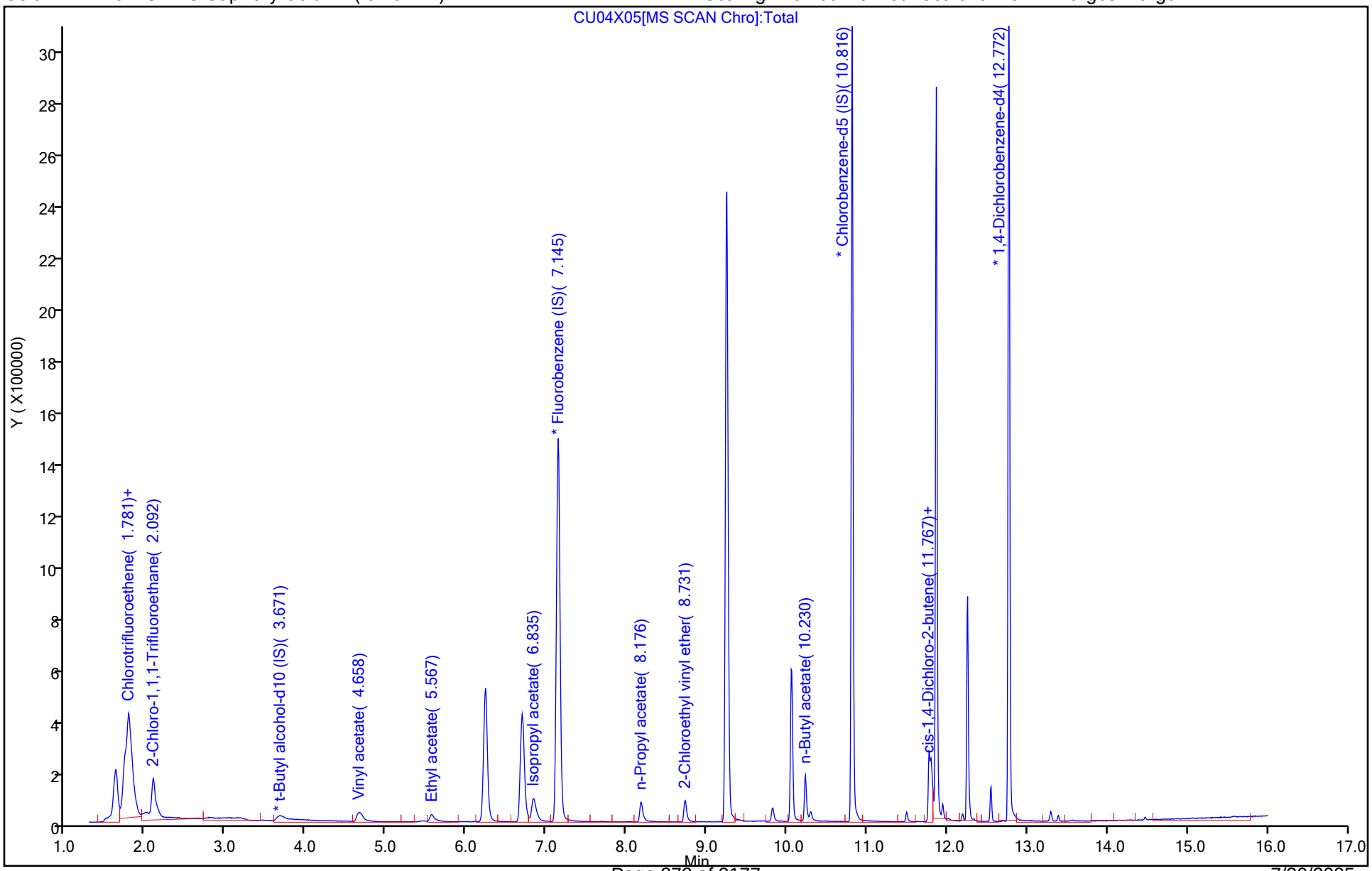
MSV_CCV_V5ACE_00049	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00011	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00088	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	1.00	Units: uL

Report Date: 06-Jun-2025 09:18:06 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X05.D				
Injection Date:	04-Jun-2025 18:30:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD2 Sm			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

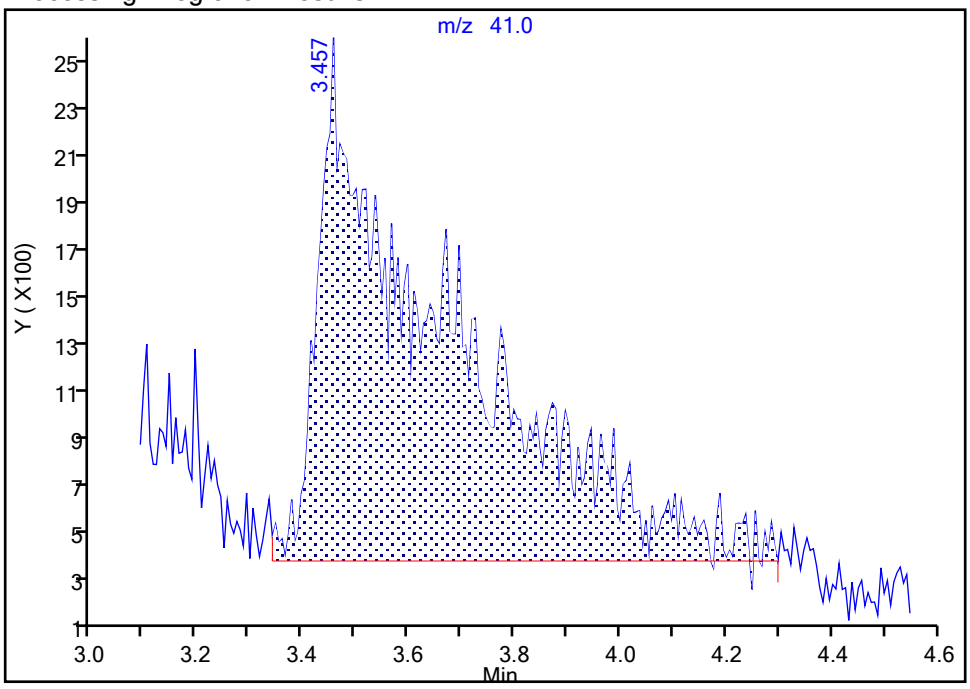
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X05.D				
Injection Date:	04-Jun-2025 18:30:30	Instrument ID:	10193		
Lims ID:	IC STD2 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

27 Acetonitrile, CAS: 75-05-8

Signal: 1

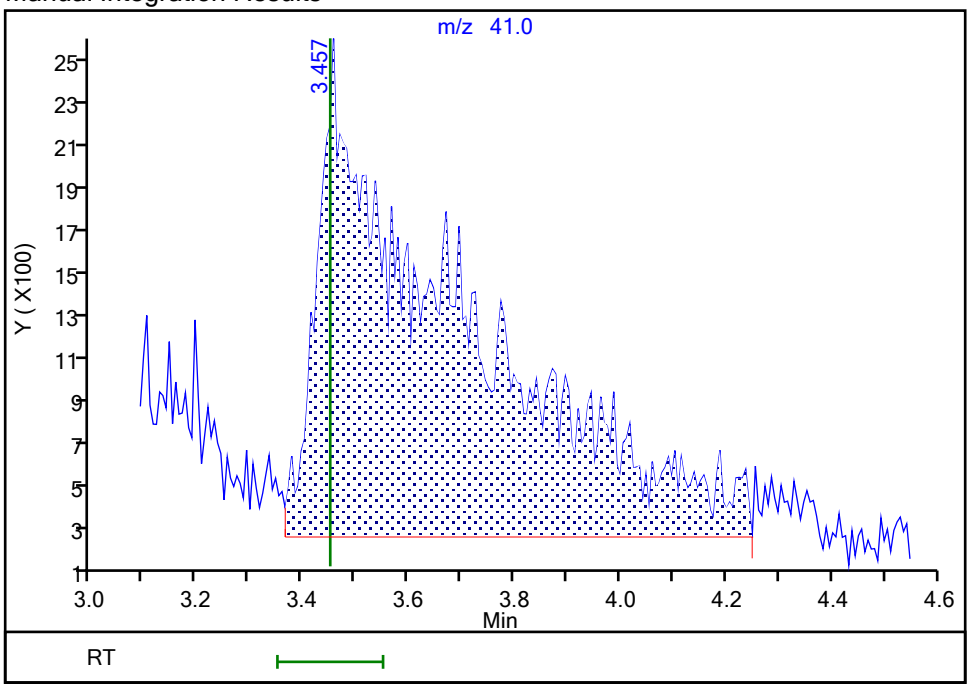
Processing Integration Results

RT: 3.46
Area: 34237
Amount: 8.313517
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 40045
Amount: 9.578584
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:03:50 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X06.D
Lims ID: IC STD5 Sm
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 04-Jun-2025 18:53:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-007
Misc. Info.: IC STD5 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:08 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:03:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.720	1.720	0.000	92	219172	5.00	4.99	
3 Chlorodifluoromethane	51	1.775	1.768	0.007	98	447076	5.00	4.73	
4 Dimethyl ether	45	1.811	1.805	0.006	99	437163	5.00	4.08	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.085	2.079	0.006	72	371184	5.00	4.94	
27 Acetonitrile	41	3.451	3.451	0.000	65	100216	25.0	23.3	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.671	-0.007	97	182461	50.0	50.0	
38 Vinyl acetate	43	4.652	4.640	0.012	97	413433	5.00	4.81	
46 Ethyl acetate	43	5.560	5.554	0.006	99	217786	5.00	5.24	
63 Isopropyl acetate	43	6.828	6.828	0.000	98	484088	5.00	5.18	
* 65 Fluorobenzene (IS)	96	7.139	7.146	-0.007	99	2383363	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	99	102902	5.00	5.45	
79 2-Chloroethyl vinyl ether	63	8.724	8.724	0.000	93	140307	5.00	5.06	
109 n-Butyl acetate	43	10.224	10.224	0.000	98	430681	5.00	5.33	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.816	-0.001	86	1790055	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.773	11.772	0.001	98	150756	10.0	9.84	
123 Cyclohexanone	55	11.797	11.797	0.000	93	317052	250.0	264.1	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.766	0.006	95	952530	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

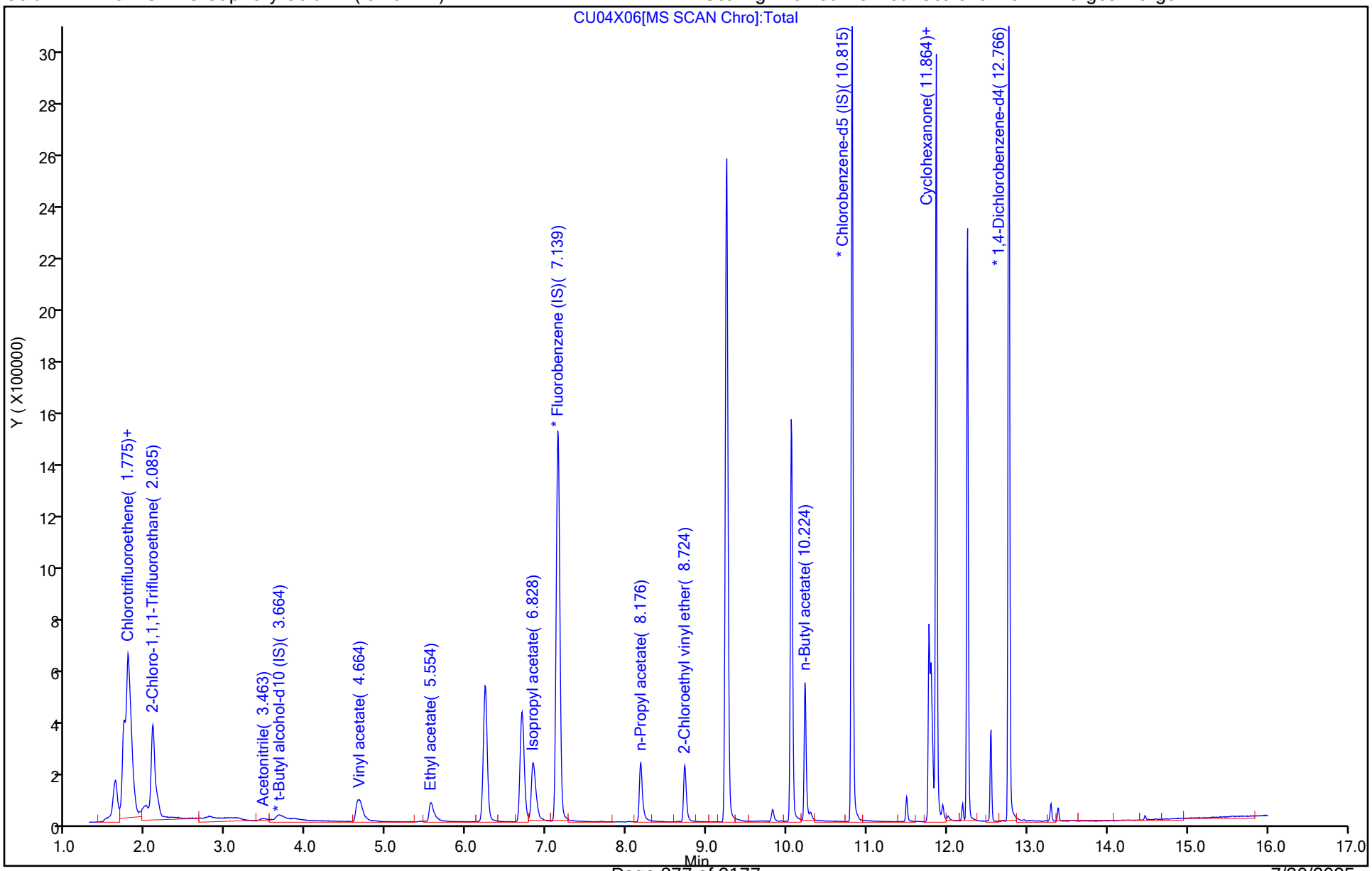
MSV_CCV_V5ACE_00049	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00011	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00088	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	1.00	Units: uL

Report Date: 06-Jun-2025 09:18:08 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X06.D				
Injection Date:	04-Jun-2025 18:53:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD5 Sm			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
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Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

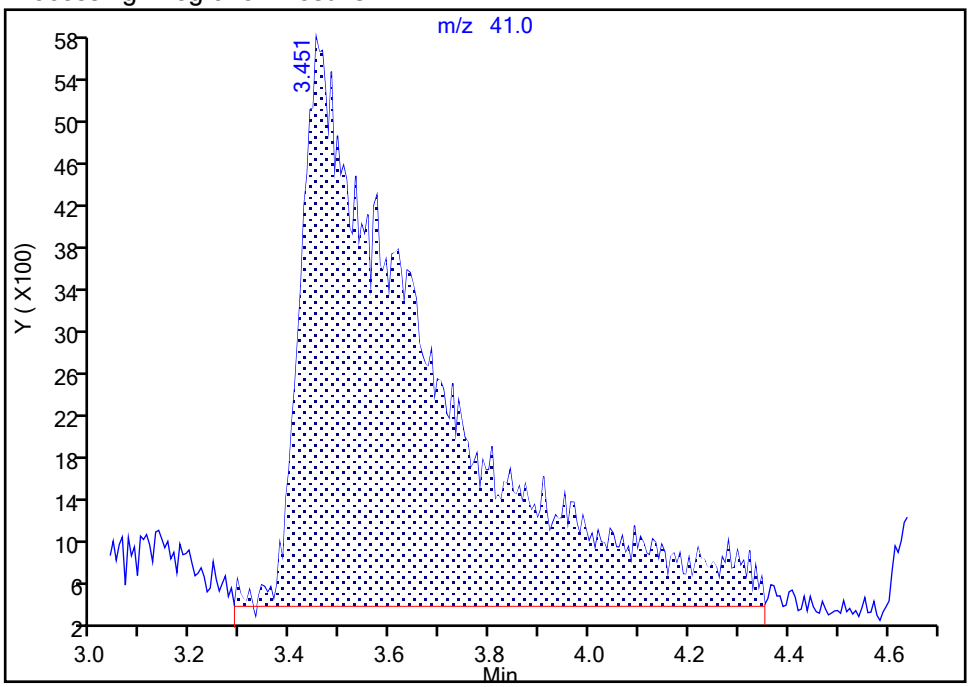
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X06.D				
Injection Date:	04-Jun-2025 18:53:30	Instrument ID:	10193		
Lims ID:	IC STD5 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

27 Acetonitrile, CAS: 75-05-8

Signal: 1

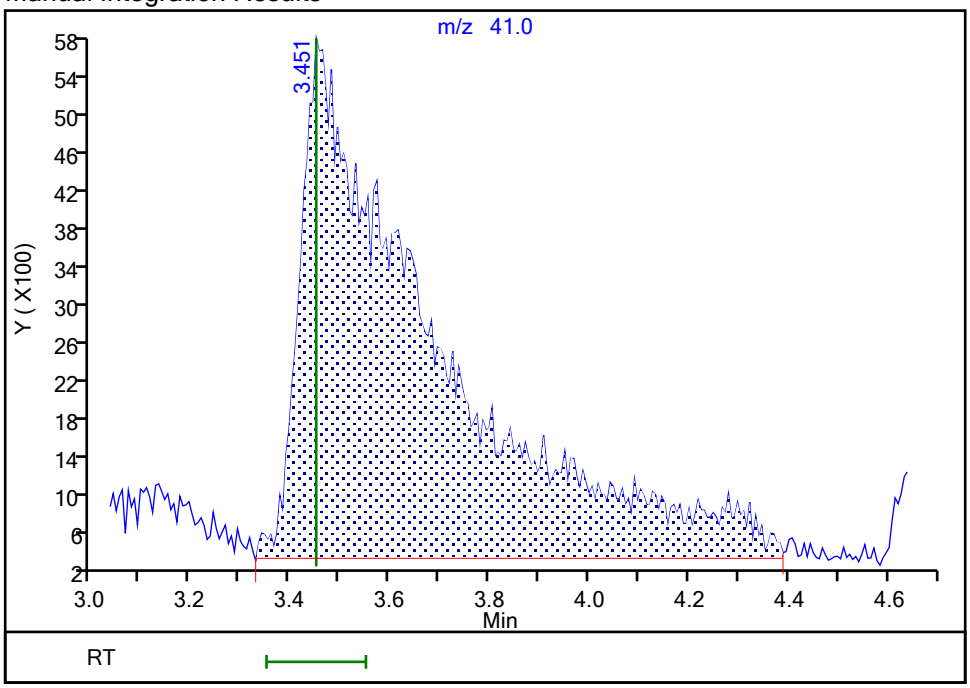
Processing Integration Results

RT: 3.45
Area: 95026
Amount: 23.717735
Amount Units: ug/l



Manual Integration Results

RT: 3.45
Area: 100216
Amount: 23.288760
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:03:20 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X07.D
Lims ID: IC STD10 Sm
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 04-Jun-2025 19:15:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-008
Misc. Info.: IC STD10 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:10 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:02:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.720	1.720	0.000	92	460005	10.0	10.5	
3 Chlorodifluoromethane	51	1.768	1.768	0.000	98	916349	10.0	9.68	
4 Dimethyl ether	45	1.805	1.805	0.000	99	1004202	10.0	9.34	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.079	2.079	0.000	92	761779	10.0	10.1	
27 Acetonitrile	41	3.451	3.451	0.000	100	202276	50.0	46.9	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.652	3.652	0.000	97	203337	50.0	50.0	
38 Vinyl acetate	43	4.640	4.640	0.000	97	834061	10.0	9.67	
46 Ethyl acetate	43	5.554	5.554	0.000	99	444702	10.0	10.7	
63 Isopropyl acetate	43	6.828	6.828	0.000	98	977444	10.0	10.4	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	2389472	10.0	10.0	
75 n-Propyl acetate	61	8.170	8.170	0.000	99	211563	10.0	11.2	
79 2-Chloroethyl vinyl ether	63	8.724	8.724	0.000	93	297417	10.0	10.7	
109 n-Butyl acetate	43	10.224	10.224	0.000	98	887440	10.0	10.8	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.815	0.000	86	1820742	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.772	11.772	0.000	97	345004	20.0	22.1	
123 Cyclohexanone	55	11.797	11.797	0.000	93	703088	500.0	525.4	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.772	0.000	95	964608	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00049	Amount Added:	1.00	Units: uL
MSV_CCV_CYC_00011	Amount Added:	8.00	Units: uL
MSV_V_SMRV4_00088	Amount Added:	5.00	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	1.00	Units: uL

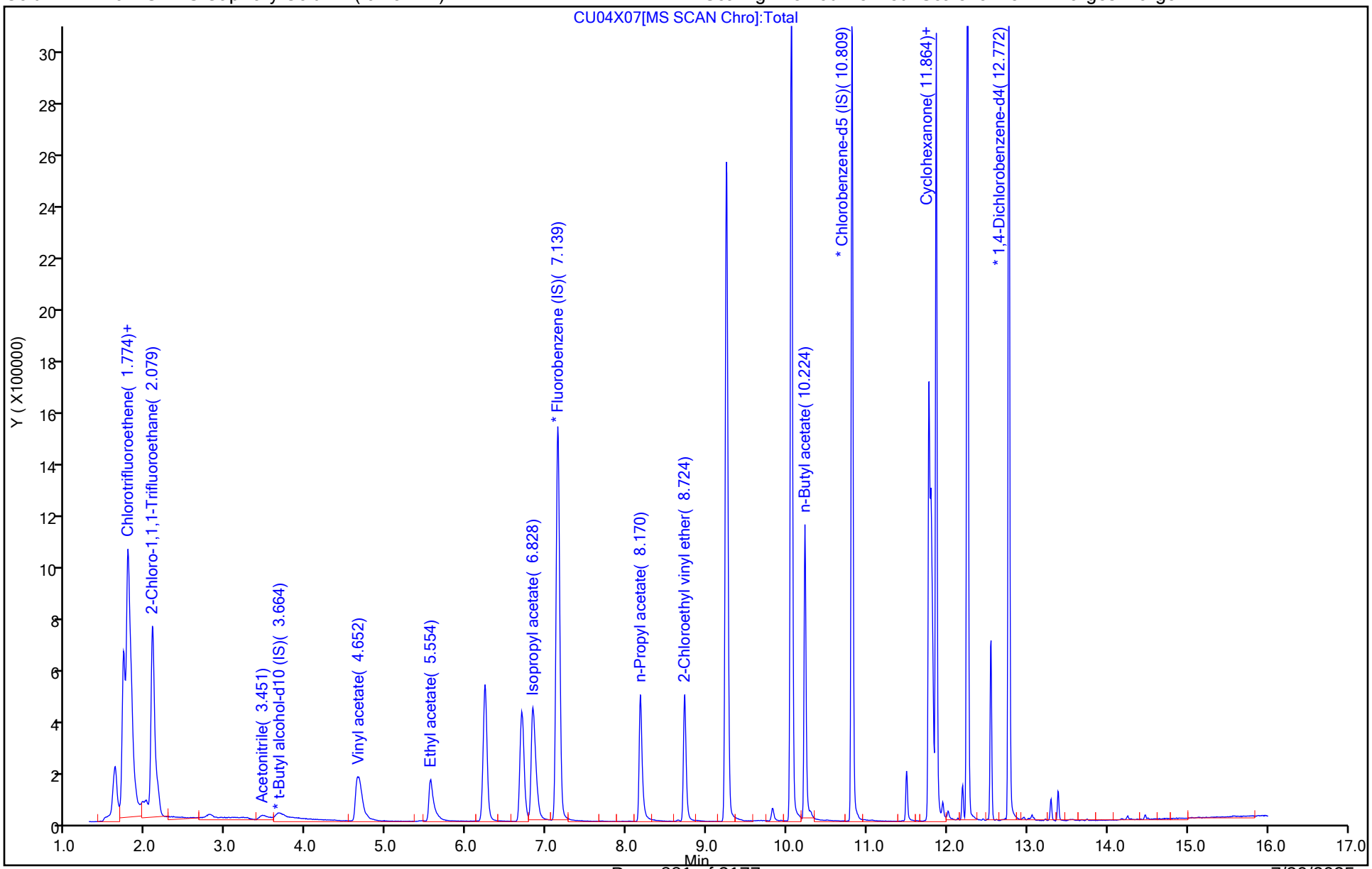
Report Date: 06-Jun-2025 09:18:11 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X07.D

Injection Date:	04-Jun-2025 19:15:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD10 Sm			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

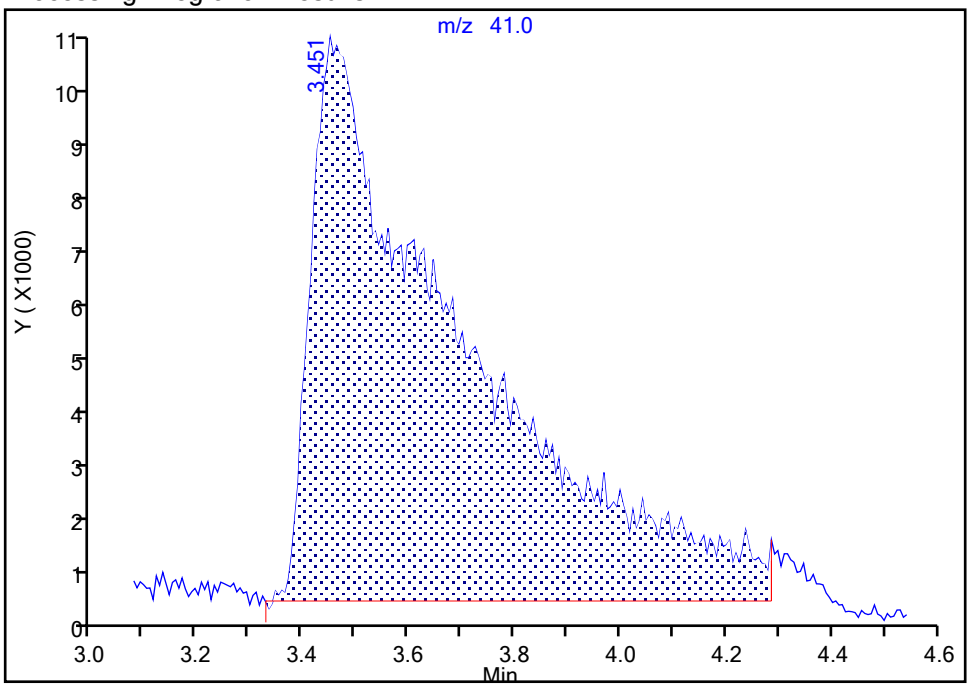
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X07.D				
Injection Date:	04-Jun-2025 19:15:30	Instrument ID:	10193		
Lims ID:	IC STD10 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

27 Acetonitrile, CAS: 75-05-8

Signal: 1

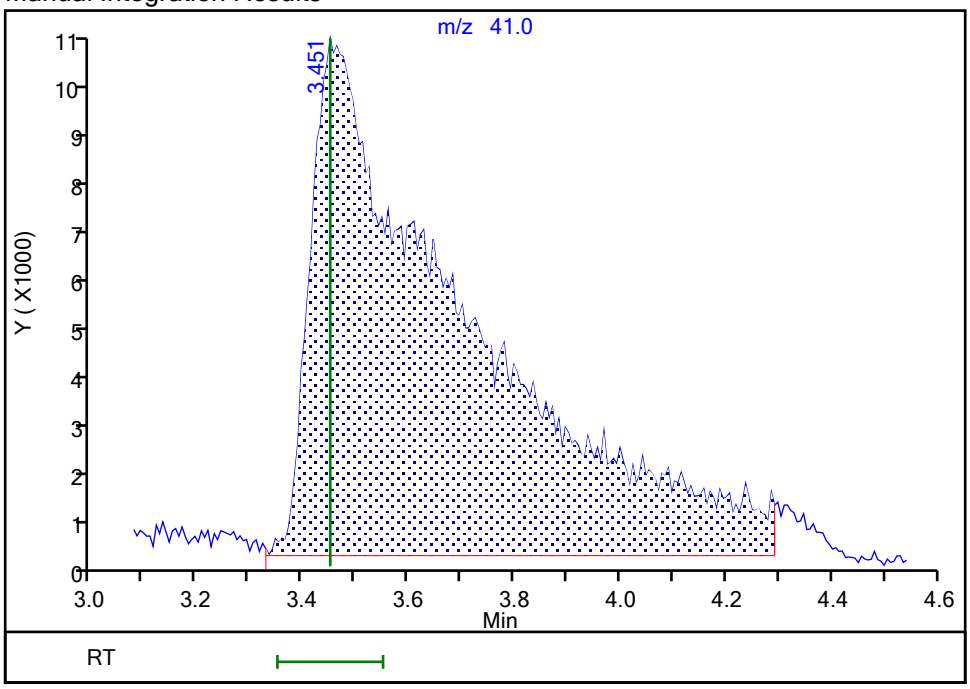
Processing Integration Results

RT: 3.45
Area: 194178
Amount: 50.695968
Amount Units: ug/l



Manual Integration Results

RT: 3.45
Area: 202276
Amount: 46.885862
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:02:32 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X08.D
Lims ID: IC STD25 Sm
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Jun-2025 19:37:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-009
Misc. Info.: IC STD25 SM
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub43

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:14 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:03:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.726	1.720	0.006	94	1164602	25.0	27.7	
3 Chlorodifluoromethane	51	1.775	1.768	0.007	98	2297943	25.0	25.4	
4 Dimethyl ether	45	1.805	1.805	0.000	99	2229899	25.0	21.7	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.086	2.079	0.007	35	1903101	25.0	26.4	
27 Acetonitrile	41	3.482	3.451	0.031	99	463075	125.0	112.3	M
* 31 t-Butyl alcohol-d10 (IS)	65	3.683	3.652	0.031	97	188362	50.0	50.0	
38 Vinyl acetate	43	4.652	4.640	0.012	97	1765540	25.0	21.4	
46 Ethyl acetate	43	5.554	5.554	0.000	99	999028	25.0	25.1	
63 Isopropyl acetate	43	6.829	6.828	0.001	98	2257196	25.0	25.2	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	2283948	10.0	10.0	
75 n-Propyl acetate	61	8.170	8.170	0.000	99	488261	25.0	27.0	
79 2-Chloroethyl vinyl ether	63	8.725	8.724	0.001	92	753907	25.0	28.4	
109 n-Butyl acetate	43	10.224	10.224	0.000	98	2072513	25.0	26.3	
* 111 Chlorobenzene-d5 (IS)	117	10.816	10.815	0.001	86	1746340	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.773	11.772	0.001	98	964543	50.0	64.5	
123 Cyclohexanone	55	11.797	11.797	0.000	93	1771793	1249.9	1429.4	
* 139 1,4-Dichlorobenzene-d4	152	12.773	12.772	0.000	95	924144	10.0	10.0	

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

MSV_CCV_V5ACE_00049	Amount Added:	2.50	Units: uL
MSV_CCV_CYC_00011	Amount Added:	20.00	Units: uL
MSV_V_SMRV4_00088	Amount Added:	12.50	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	2.50	Units: uL

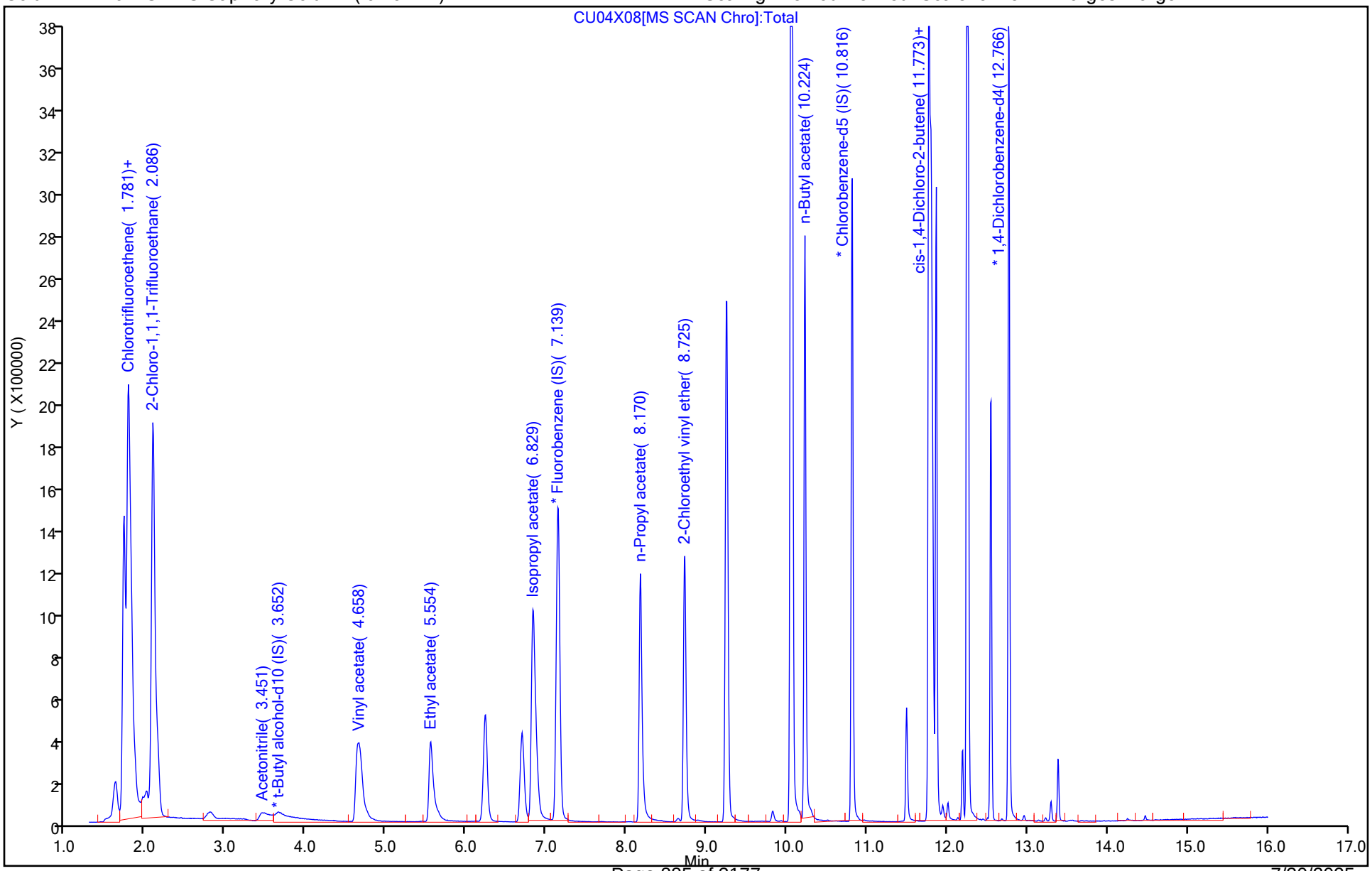
Report Date: 06-Jun-2025 09:18:14 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X08.D

Injection Date:	04-Jun-2025 19:37:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC STD25 Sm			Worklist Smp#:	9
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

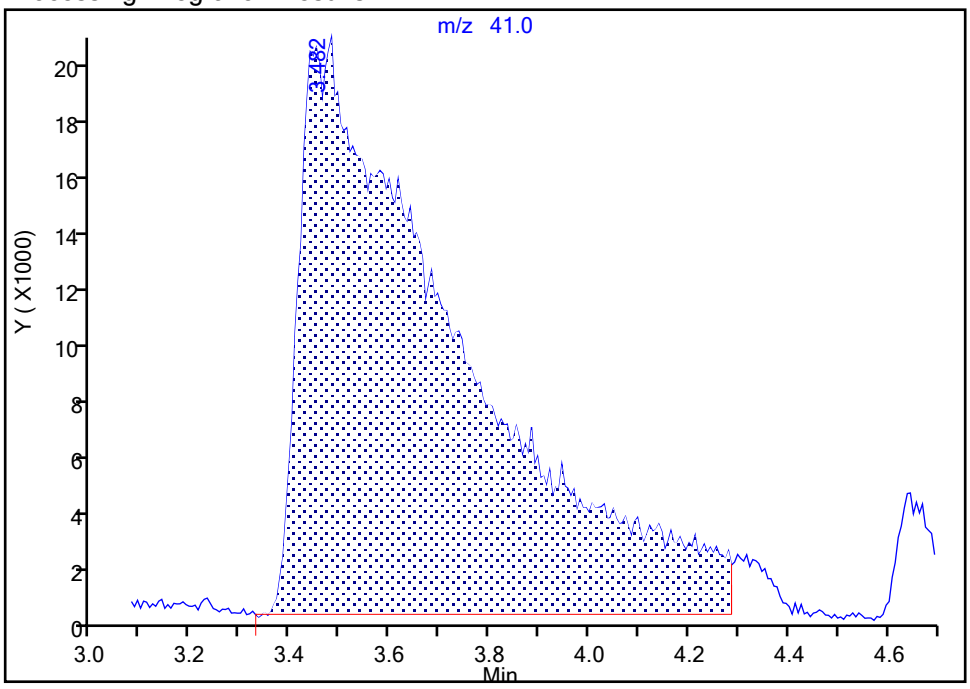
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X08.D				
Injection Date:	04-Jun-2025 19:37:30	Instrument ID:	10193		
Lims ID:	IC STD25 Sm				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

27 Acetonitrile, CAS: 75-05-8

Signal: 1

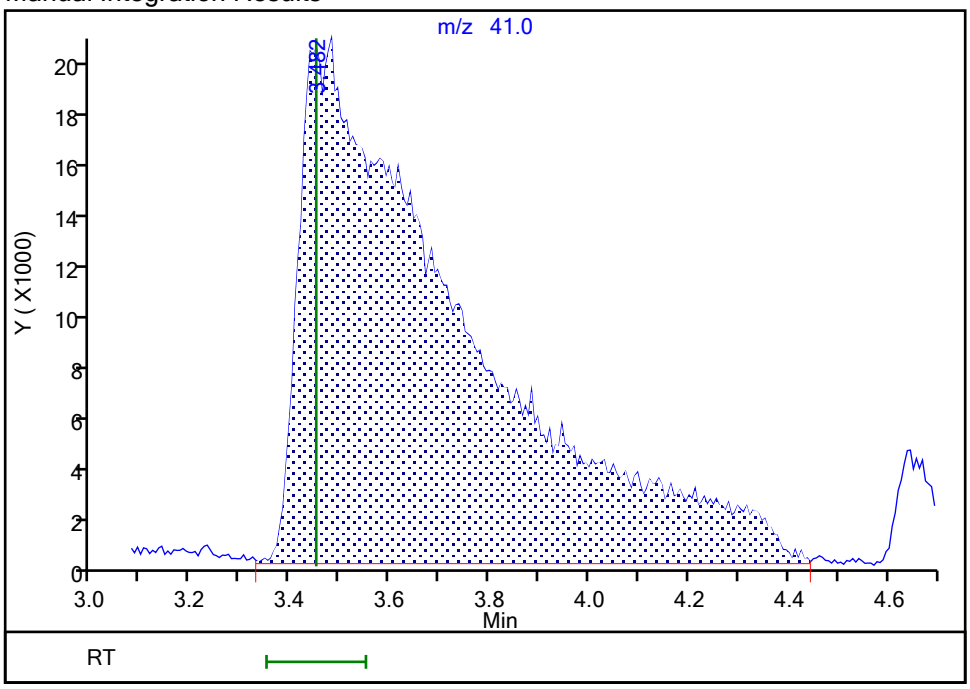
Processing Integration Results

RT: 3.48
Area: 446140
Amount: 124.8460
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 463075
Amount: 112.2961
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:02:57 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Chlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

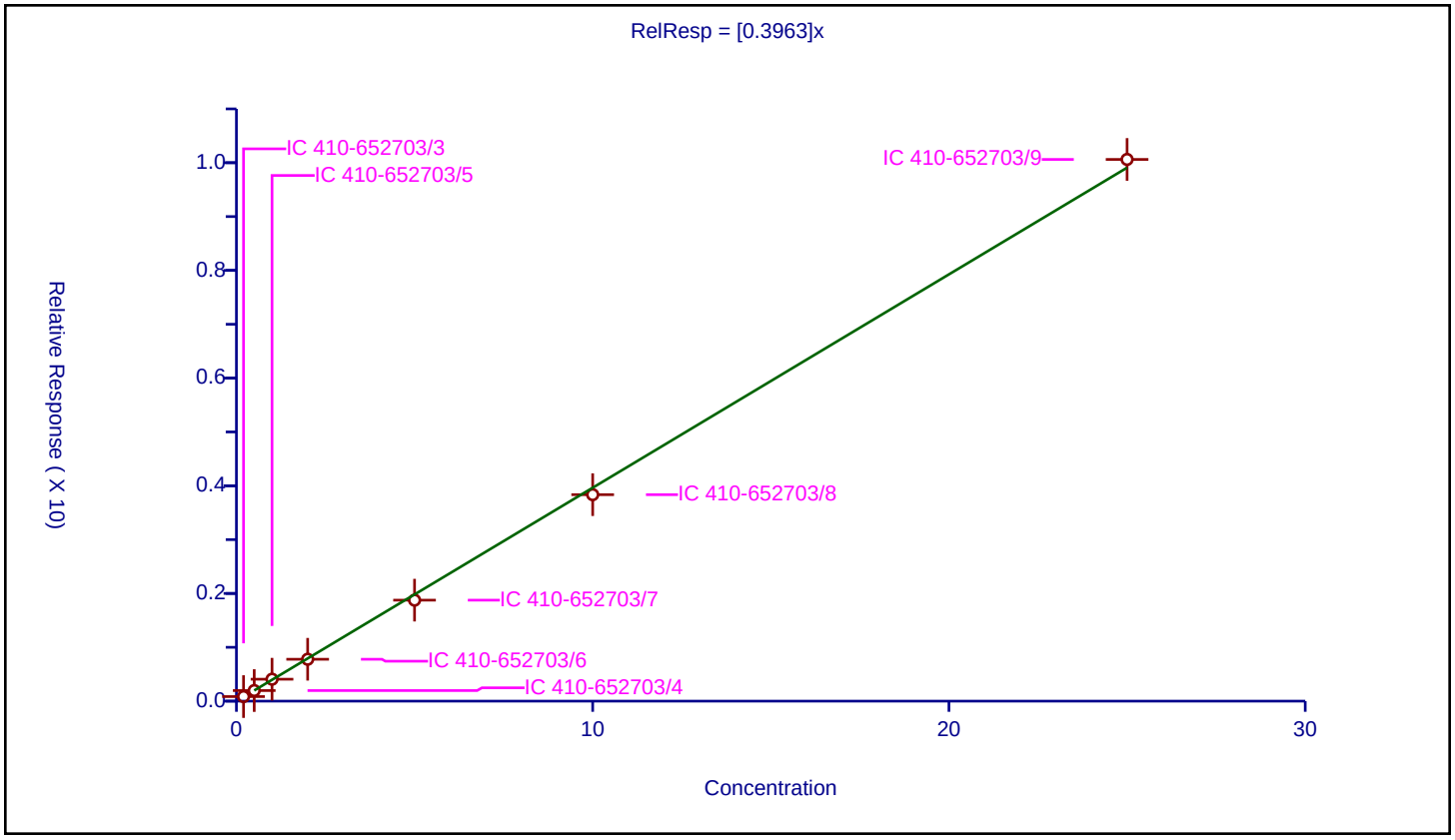
Curve Coefficients

Intercept:	0
Slope:	0.3963

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	0.2	0.084646	10.0	2396109.0	0.423228	Y
2	IC 410-652703/4	0.5	0.196728	10.0	2312682.0	0.393457	Y
3	IC 410-652703/5	1.0	0.407448	10.0	2355344.0	0.407448	Y
4	IC 410-652703/6	2.0	0.778019	10.0	2315509.0	0.38901	Y
5	IC 410-652703/7	5.0	1.87582	10.0	2383363.0	0.375164	Y
6	IC 410-652703/8	10.0	3.834943	10.0	2389472.0	0.383494	Y
7	IC 410-652703/9	25.0	10.061275	10.0	2283948.0	0.402451	Y



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Calibration / Dimethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

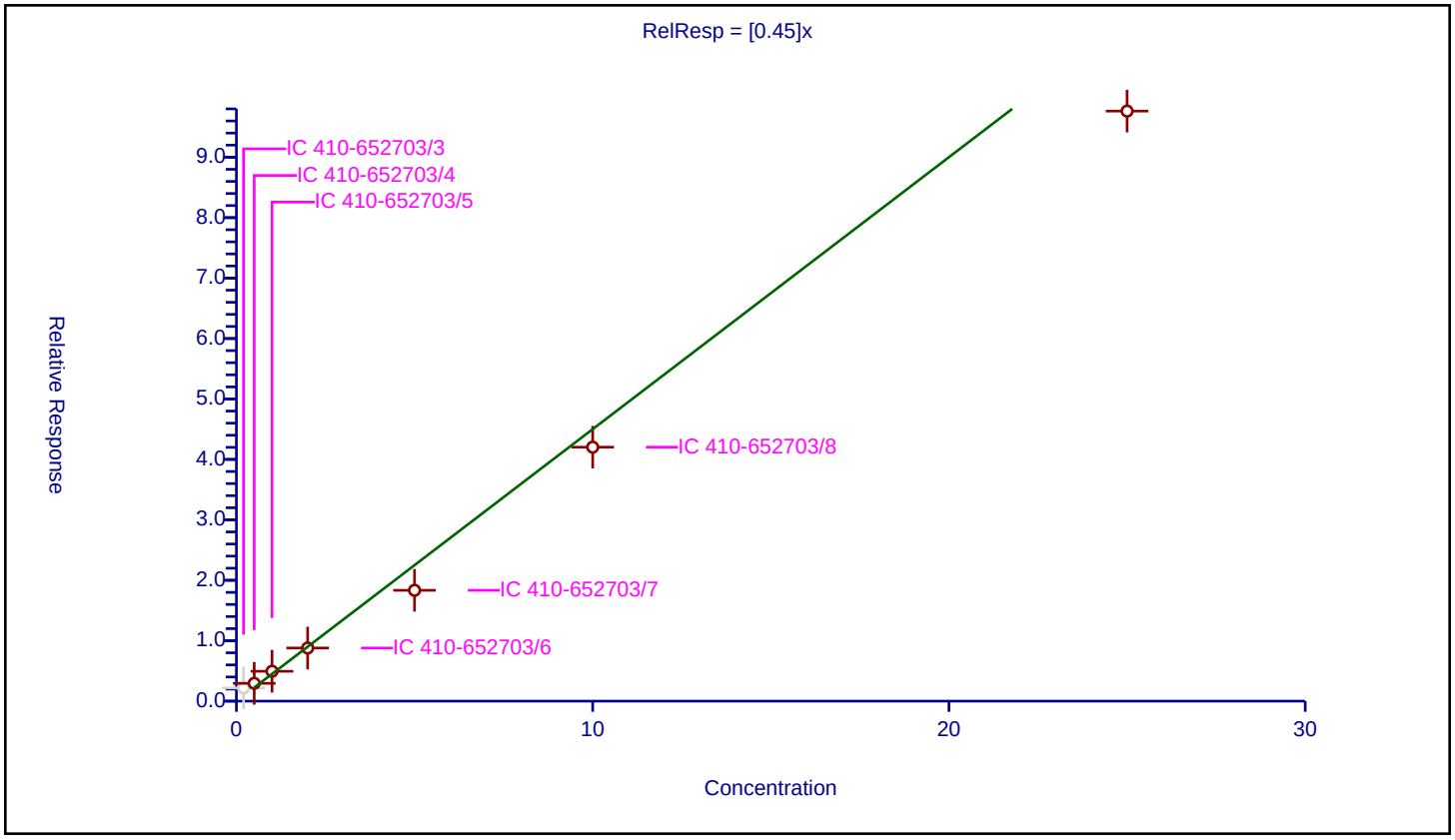
Curve Coefficients

Intercept:	0
Slope:	0.45

Error Coefficients

Relative Standard Deviation:	18.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	0.2	0.218913	10.0	2396109.0	1.094566	N
2	IC 410-652703/4	0.5	0.294455	10.0	2312682.0	0.588909	Y
3	IC 410-652703/5	1.0	0.494059	10.0	2355344.0	0.494059	Y
4	IC 410-652703/6	2.0	0.879137	10.0	2315509.0	0.439569	Y
5	IC 410-652703/7	5.0	1.834228	10.0	2383363.0	0.366846	Y
6	IC 410-652703/8	10.0	4.20261	10.0	2389472.0	0.420261	Y
7	IC 410-652703/9	25.0	9.763353	10.0	2283948.0	0.390534	Y



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Calibration / Acetonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

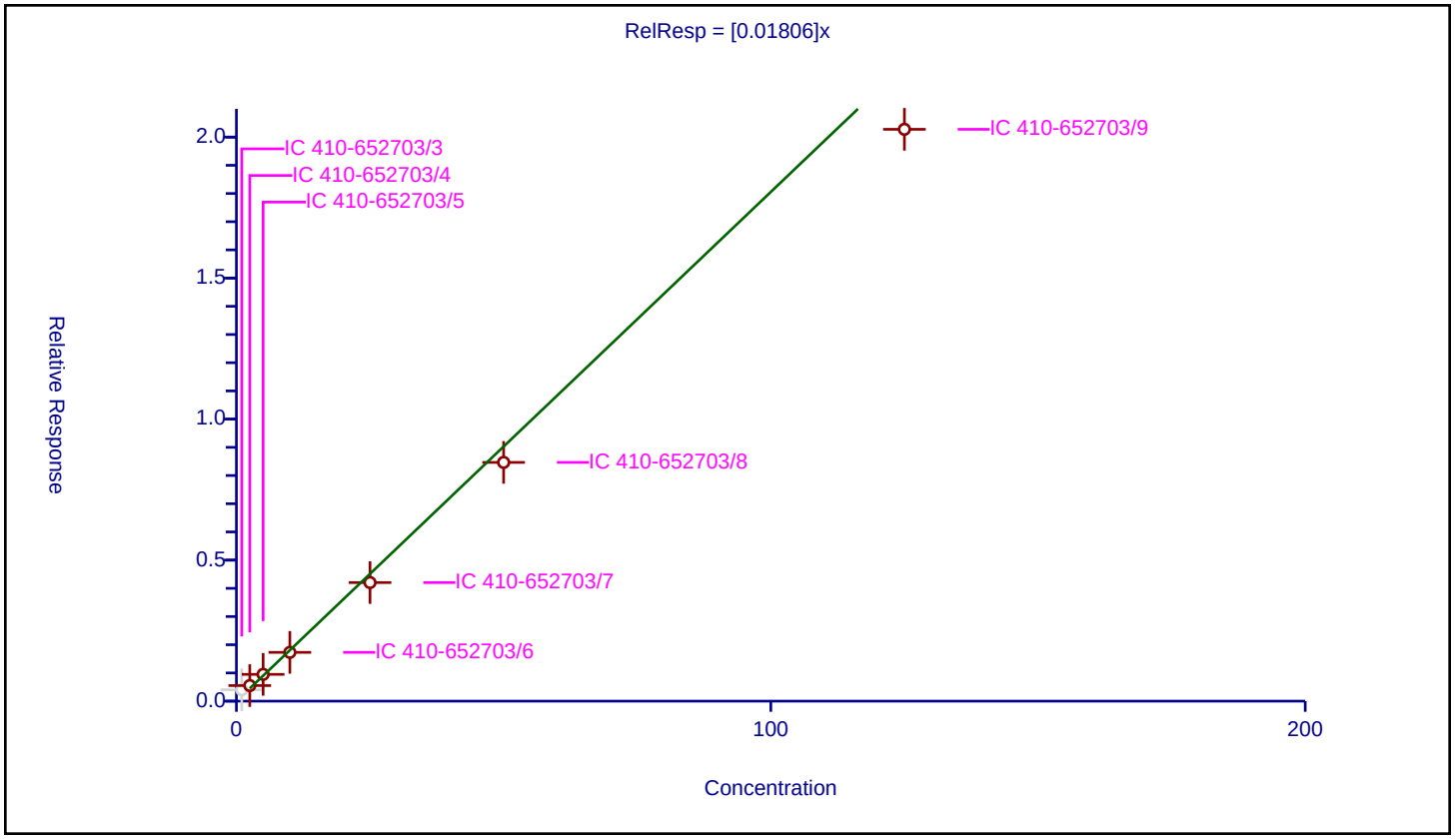
Curve Coefficients

Intercept:	0
Slope:	0.01806

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	1.0	0.040491	10.0	2396109.0	0.040491	N
2	IC 410-652703/4	2.5	0.055183	10.0	2312682.0	0.022073	Y
3	IC 410-652703/5	5.0	0.094967	10.0	2355344.0	0.018993	Y
4	IC 410-652703/6	10.0	0.172943	10.0	2315509.0	0.017294	Y
5	IC 410-652703/7	25.0	0.420481	10.0	2383363.0	0.016819	Y
6	IC 410-652703/8	50.0	0.84653	10.0	2389472.0	0.016931	Y
7	IC 410-652703/9	125.0	2.02752	10.0	2283948.0	0.01622	Y



7/30/2025
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Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

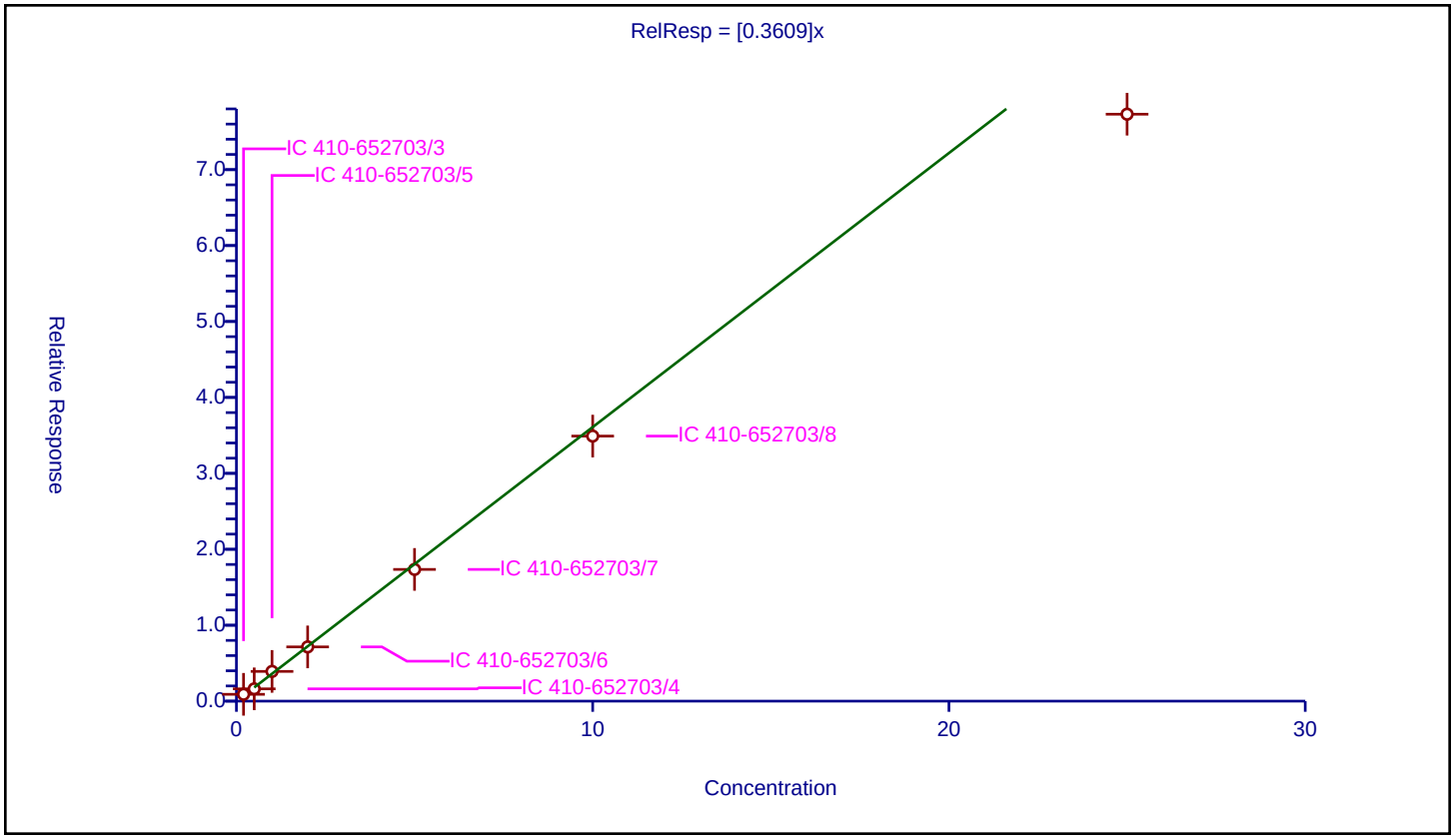
Curve Coefficients

Intercept:	0
Slope:	0.3609

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	0.2	0.089808	10.0	2396109.0	0.449041	Y
2	IC 410-652703/4	0.5	0.161734	10.0	2312682.0	0.323469	Y
3	IC 410-652703/5	1.0	0.391493	10.0	2355344.0	0.391493	Y
4	IC 410-652703/6	2.0	0.714487	10.0	2315509.0	0.357243	Y
5	IC 410-652703/7	5.0	1.734662	10.0	2383363.0	0.346932	Y
6	IC 410-652703/8	10.0	3.490566	10.0	2389472.0	0.349057	Y
7	IC 410-652703/9	25.0	7.730211	10.0	2283948.0	0.309208	Y



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Calibration / Ethyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

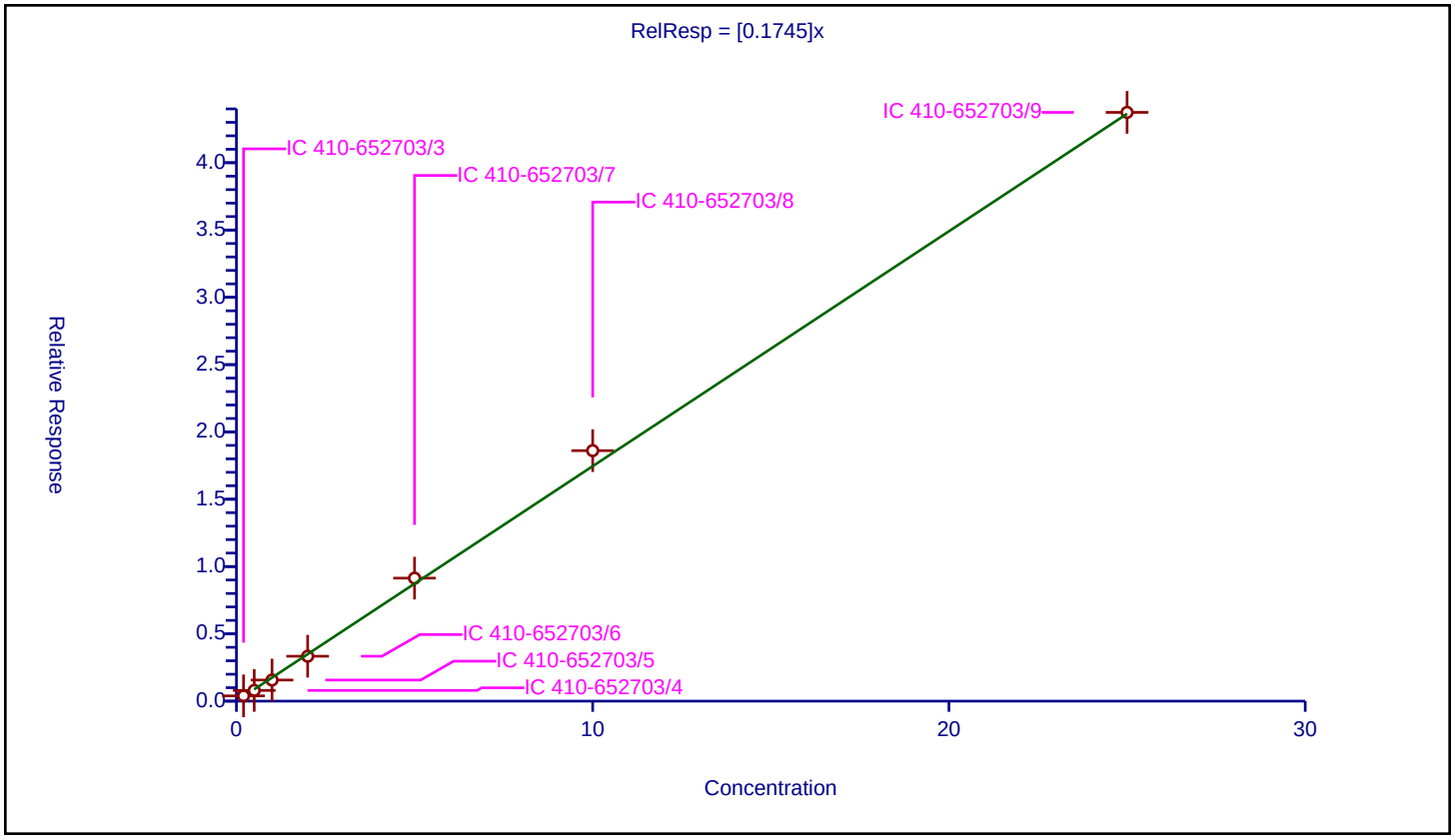
Curve Coefficients

Intercept:	0
Slope:	0.1745

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	0.2	0.039051	10.0	2396109.0	0.195254	Y
2	IC 410-652703/4	0.5	0.079583	10.0	2312682.0	0.159166	Y
3	IC 410-652703/5	1.0	0.156767	10.0	2355344.0	0.156767	Y
4	IC 410-652703/6	2.0	0.333642	10.0	2315509.0	0.166821	Y
5	IC 410-652703/7	5.0	0.913776	10.0	2383363.0	0.182755	Y
6	IC 410-652703/8	10.0	1.861089	10.0	2389472.0	0.186109	Y
7	IC 410-652703/9	25.0	4.374128	10.0	2283948.0	0.174965	Y



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Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

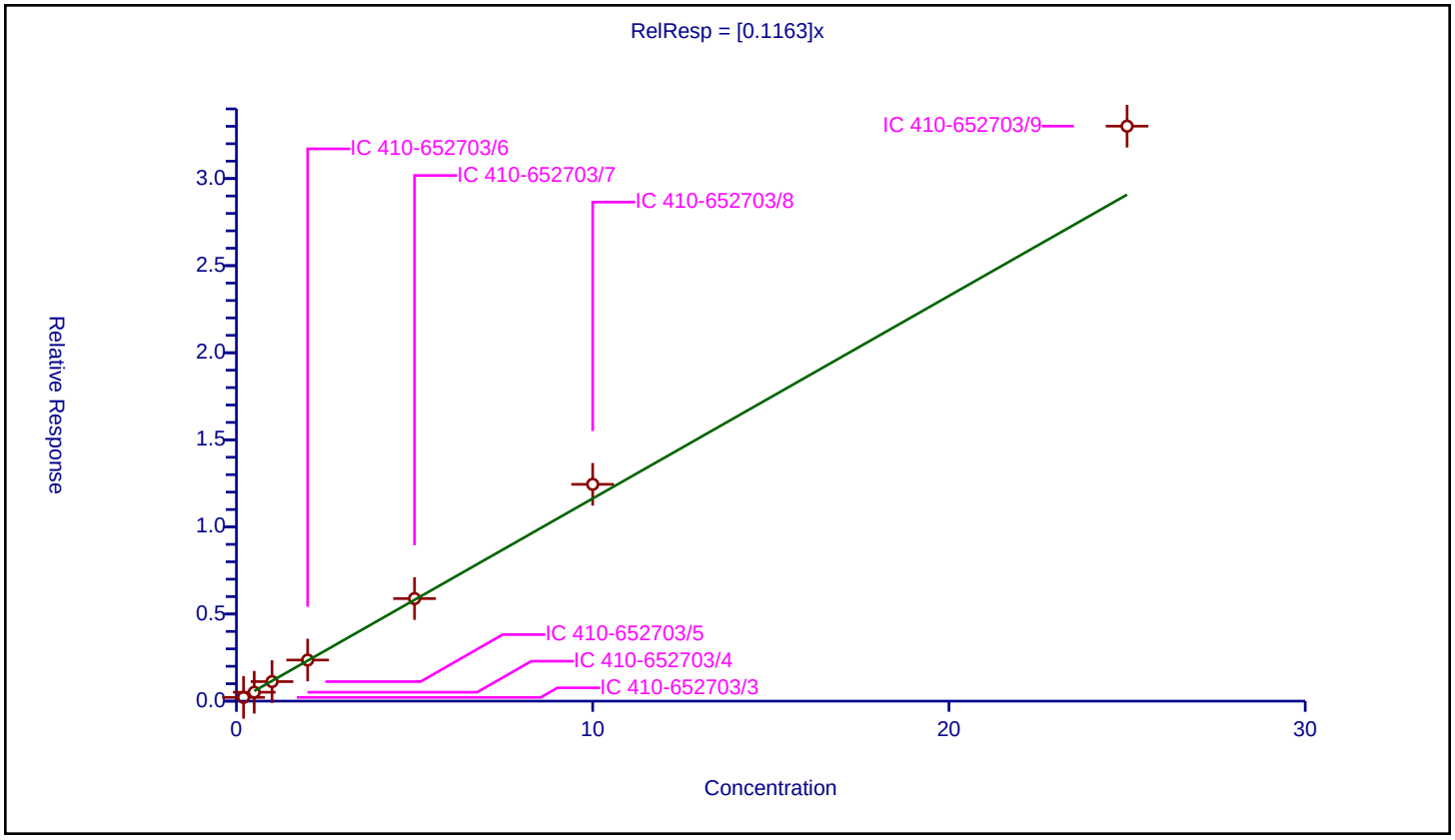
Curve Coefficients

Intercept:	0
Slope:	0.1163

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	0.2	0.021514	10.0	2396109.0	0.10757	Y
2	IC 410-652703/4	0.5	0.051118	10.0	2312682.0	0.102236	Y
3	IC 410-652703/5	1.0	0.112162	10.0	2355344.0	0.112162	Y
4	IC 410-652703/6	2.0	0.235987	10.0	2315509.0	0.117993	Y
5	IC 410-652703/7	5.0	0.588693	10.0	2383363.0	0.117739	Y
6	IC 410-652703/8	10.0	1.244698	10.0	2389472.0	0.12447	Y
7	IC 410-652703/9	25.0	3.300894	10.0	2283948.0	0.132036	Y



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Calibration / cis-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

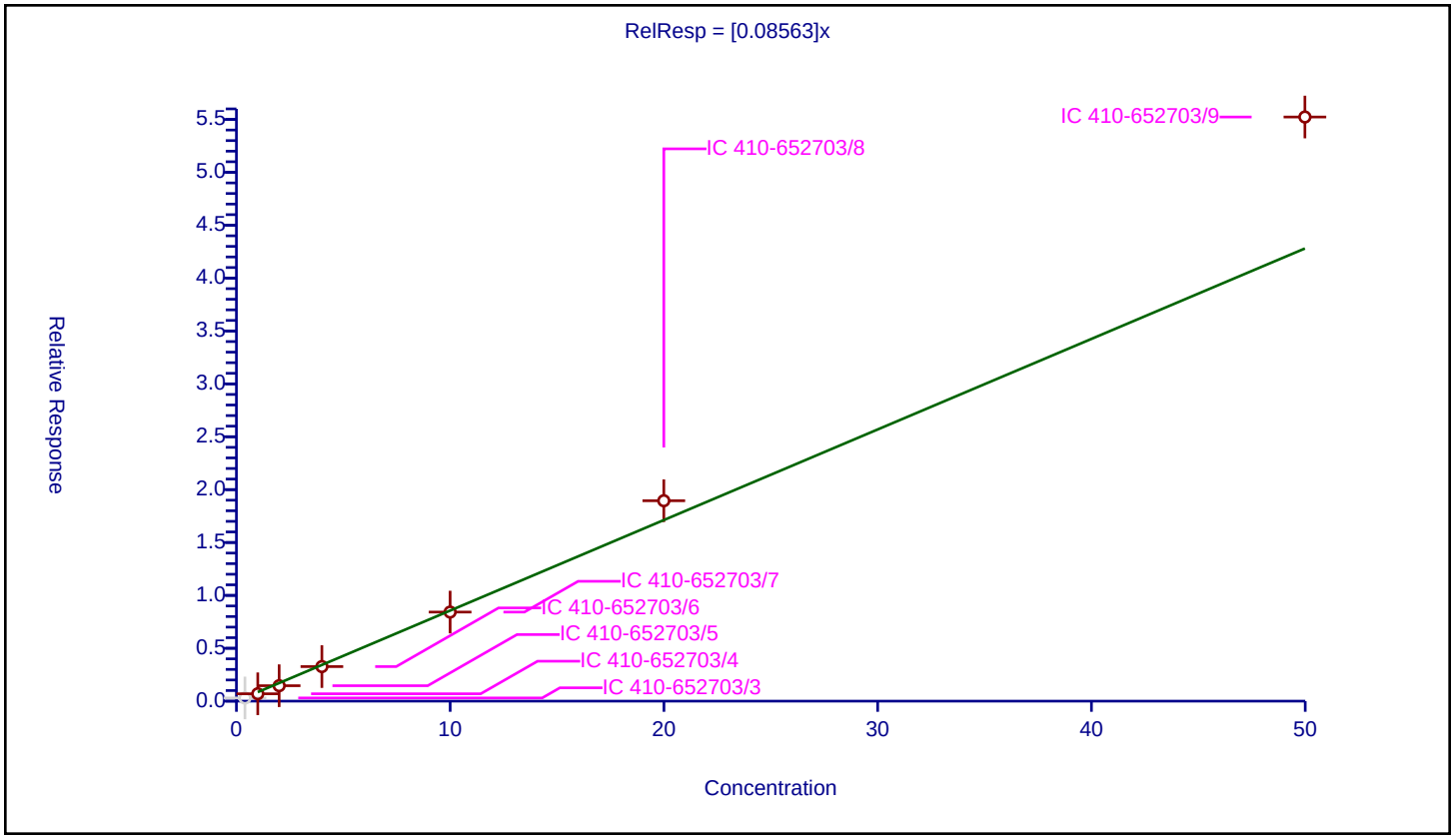
Curve Coefficients

Intercept:	0
Slope:	0.08563

Error Coefficients

Relative Standard Deviation:	17.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	0.399883	0.030149	10.0	1815665.0	0.075394	N
2	IC 410-652703/4	0.999708	0.069551	10.0	1746051.0	0.069572	Y
3	IC 410-652703/5	1.999416	0.145889	10.0	1789031.0	0.072966	Y
4	IC 410-652703/6	3.998831	0.326815	10.0	1754507.0	0.081728	Y
5	IC 410-652703/7	9.997078	0.842186	10.0	1790055.0	0.084243	Y
6	IC 410-652703/8	19.994156	1.894854	10.0	1820742.0	0.09477	Y
7	IC 410-652703/9	49.98539	5.523226	10.0	1746340.0	0.110497	Y



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Calibration / Cyclohexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

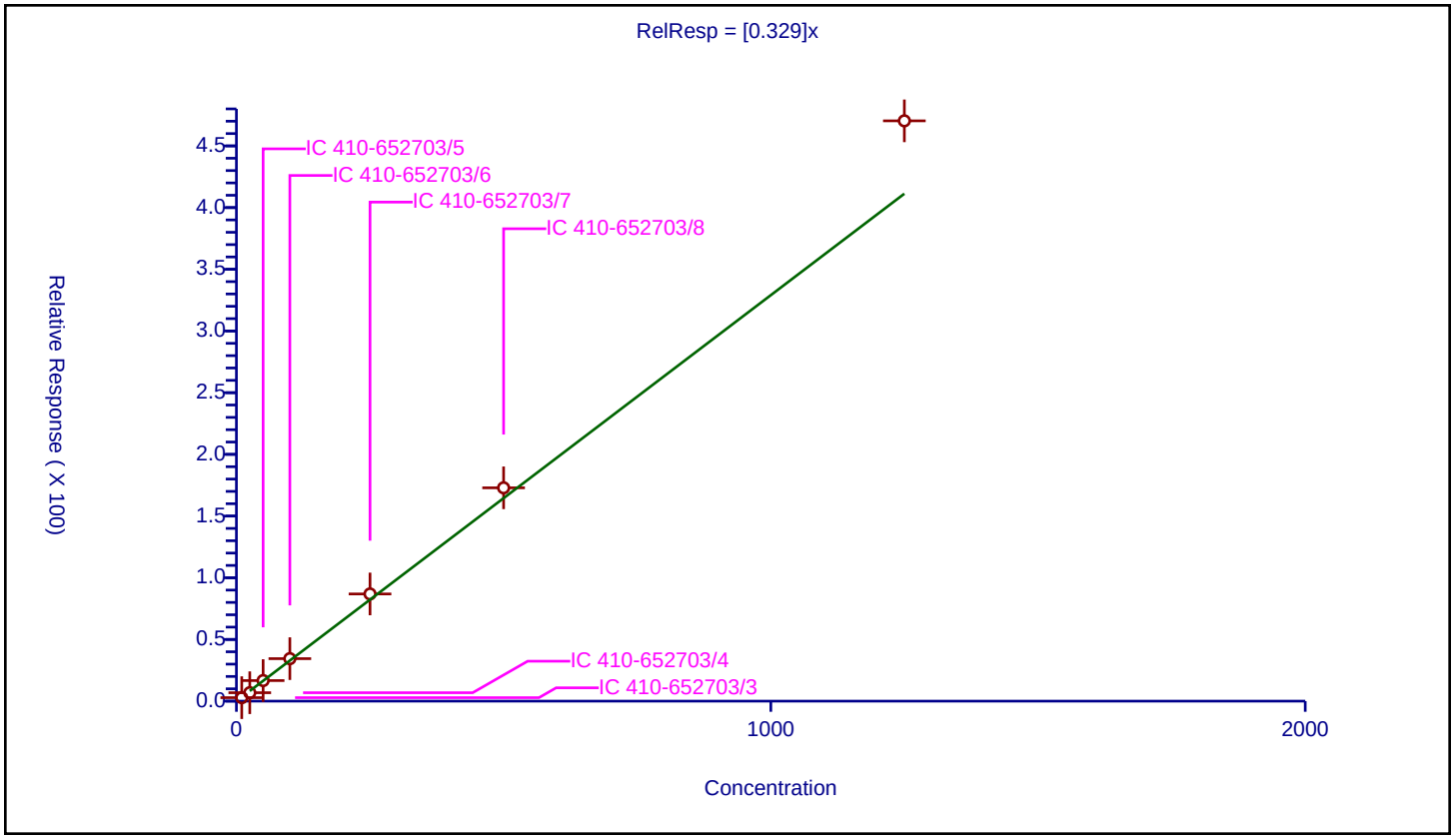
Curve Coefficients

Intercept:	0
Slope:	0.329

Error Coefficients

Relative Standard Deviation:	11.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/3	9.99912	2.821168	50.0	213759.0	0.282142	Y
2	IC 410-652703/4	24.997799	6.833977	50.0	191221.0	0.273383	Y
3	IC 410-652703/5	49.995598	16.676327	50.0	201858.0	0.333556	Y
4	IC 410-652703/6	99.991197	34.446033	50.0	201447.0	0.344491	Y
5	IC 410-652703/7	249.977992	86.882128	50.0	182461.0	0.347559	Y
6	IC 410-652703/8	499.955984	172.887374	50.0	203337.0	0.345805	Y
7	IC 410-652703/9	1249.88996	470.315934	50.0	188362.0	0.376286	Y



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FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-652703/13	CU04X12.D
Level 2	IC 410-652703/14	CU04X13.D
Level 3	IC 410-652703/15	CU04X14.D
Level 4	IC 410-652703/16	CU04X15.D
Level 5	IC 410-652703/17	CU04X16.D
Level 6	ICIS 410-652703/18	CU04X17.D
Level 7	IC 410-652703/19	CU04X18.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.3545 0.3018	0.3273 0.3205	0.3269	0.3291	0.3189	Ave		0.3256			0.1000	4.8		20.0			
Chloromethane	0.4626 0.3519	0.3977 0.3567	0.3868	0.3807	0.3671	Ave		0.3862			0.1000	9.7		20.0			
1,3-Butadiene	0.5757 0.3680	0.5069 0.3941	0.4269	0.4192	0.4211	Ave		0.4446				16.2		20.0			
Vinyl chloride	0.3938 0.3204	0.3385 0.3355	0.3347	0.3352	0.3311	Ave		0.3413			0.1000	7.0		20.0			
Bromomethane	0.2548 0.2045	0.2153 0.2122	0.2133	0.2241	0.2030	Ave		0.2182			0.1000	8.1		20.0			
Chloroethane	0.2255 0.1820	0.1980 0.1817	0.1852	0.1932	0.1889	Ave		0.1935			0.1000	7.9		20.0			
Dichlorofluoromethane	0.6614 0.5277	0.5373 0.5431	0.5379	0.5571	0.5457	Ave		0.5586			0.1000	8.3		20.0			
Trichlorofluoromethane	0.4777 0.3991	0.4302 0.4211	0.4396	0.4288	0.4252	Ave		0.4317			0.1000	5.5		20.0			
Ethyl ether	0.2018 0.2085	0.2004 0.2107	0.2048	0.2040	0.2098	Ave		0.2057				2.0		20.0			
Freon 123a	0.3368 0.2867	0.2997 0.2967	0.3014	0.2995	0.2915	Ave		0.3018				5.4		20.0			
Acrolein	1.7527 1.5106	2.1373 1.6509	1.8556	1.7456	2.0327	Ave		1.8122				11.9		20.0			
1,1-Dichloroethene	0.2390 0.2051	0.2388 0.2022	0.2046	0.1874	0.2129	Ave		0.2128			0.1000	9.1		20.0			
Acetone	2.4798 2.2715	2.6810 2.2510	2.3989	2.1076	2.3668	Ave		2.3652			0.1000	7.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Freon 113	0.1991 0.2137	0.2521 0.2232	0.2113	0.2109	0.2371	Ave		0.2211			0.1000	8.2		20.0			
Methyl iodide	0.4408 0.4404	0.4818 0.4245	0.3903	0.4016	0.4516	Ave		0.4330				7.1		20.0			
Ethyl bromide	0.2048 0.2075	0.2030 0.2061	0.1976	0.1978	0.2116	Ave		0.2041				2.5		20.0			
Carbon disulfide	0.7741 0.7772	0.8626 0.8209	0.7355	0.7145	0.8043	Ave		0.7842			0.1000	6.4		20.0			
Methyl acetate	7.2188 5.6811	7.0329 6.3015	5.4546	6.6395	6.2615	Ave		6.3700			0.1000	10.3		20.0			
Allyl chloride	0.3907 0.4115	0.4373 0.4146	0.3595	0.3701	0.4209	Ave		0.4006				7.0		20.0			
Methylene Chloride	0.2438 0.2638	0.2893 0.2522	0.2413	0.2382	0.2694	Ave		0.2569			0.1000	7.2		20.0			
t-Butyl alcohol	0.8294 0.6729	0.8464 0.7551	0.8141	0.6338	0.6483	Ave		0.7429				12.2		20.0			
Acrylonitrile	3.7759 3.3114	4.1574 3.2895	3.3743	3.0558	3.3192	Ave		3.4691				10.7		20.0			
trans-1,2-Dichloroethene	0.2618 0.2670	0.2829 0.2623	0.2440	0.2449	0.2745	Ave		0.2625			0.1000	5.5		20.0			
Methyl tertiary butyl ether	0.7390 0.7353	0.8118 0.7271	0.6578	0.6697	0.7538	Ave		0.7278			0.1000	7.1		20.0			
n-Hexane	0.3193 0.3460	0.4111 0.3734	0.3402	0.3306	0.3810	Ave		0.3574				9.1		20.0			
1,1-Dichloroethane	0.4707 0.4851	0.5129 0.4862	0.4455	0.4419	0.5039	Ave		0.4780			0.2000	5.7		20.0			
di-Isopropyl ether	0.8626 0.9053	0.9662 0.8976	0.8097	0.8148	0.9314	Ave		0.8840				6.6		20.0			
2-Chloro-1,3-butadiene	0.4214 0.4266	0.4614 0.4339	0.3878	0.3839	0.4369	Ave		0.4217				6.5		20.0			
Ethyl t-butyl ether	0.8364 0.8961	0.9332 0.8910	0.8095	0.8079	0.9182	Ave		0.8703				5.9		20.0			
2-Butanone	4.3490 4.6516	4.9940 4.7110	4.3730	3.9981	4.7032	Ave		4.5400			0.1000	7.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
cis-1,2-Dichloroethene	0.2941 0.3092	0.3311 0.3032	0.2763	0.2836	0.3196	Ave		0.3024			0.1000	6.4		20.0			
2,2-Dichloropropane	0.3968 0.3670	0.4252 0.3632	0.3503	0.3419	0.3833	Ave		0.3754				7.7		20.0			
Propionitrile	1.0216 1.3230	1.3507 1.3324	1.0685	1.1154	1.3639	Ave		1.2251				12.2		20.0			
Methacrylonitrile	4.0736 4.6471	4.8790 4.0706	4.3679	4.0072	4.7443	Ave		4.3985				8.2		20.0			
Bromochloromethane	0.1338 0.1371	0.1531 0.1295	0.1218	0.1259	0.1437	Ave		0.1350				8.0		20.0			
Tetrahydrofuran	1.3785 1.3411	1.5320 1.1109	1.2090	1.0897	1.3759	Ave		1.2910				12.5		20.0			
Chloroform	0.4730 0.4963	0.5299 0.4865	0.4478	0.4501	0.5138	Ave		0.4853			0.2000	6.4		20.0			
1,1,1-Trichloroethane	0.4316 0.4279	0.4611 0.4320	0.3890	0.3926	0.4418	Ave		0.4251			0.1000	6.1		20.0			
Cyclohexane	0.4225 0.4445	0.5053 0.4677	0.4274	0.4207	0.4752	Ave		0.4519			0.1000	7.1		20.0			
Carbon tetrachloride	0.3379 0.3707	0.3952 0.3807	0.3303	0.3346	0.3860	Ave		0.3622			0.1000	7.5		20.0			
1,1-Dichloropropene	0.3732 0.3822	0.4296 0.3895	0.3545	0.3471	0.3943	Ave		0.3815				7.2		20.0			
Isobutyl alcohol	0.2801 0.3060	0.3397 0.3098	0.2941	0.2715	0.3178	Ave		0.3027				7.6		20.0			
Benzene	1.1132 1.1765	1.2372 1.1756	1.0314	1.0374	1.1896	Ave		1.1373			0.5000	7.0		20.0			
1,2-Dichloroethane	0.3181 0.3127	0.3509 0.2967	0.2809	0.2886	0.3294	Ave		0.3111			0.1000	7.9		20.0			
t-Amyl methyl ether	0.7590 0.8041	0.8452 0.7924	0.7043	0.7166	0.8259	Ave		0.7782				6.9		20.0			
n-Heptane	0.3131 0.3461	0.3915 0.3739	0.3380	0.3229	0.3792	Ave		0.3521				8.5		20.0			
n-Butanol	0.2534 0.3108	0.2651 0.3182	0.2720	0.2581	0.3175	Ave		0.2850				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Trichloroethene	0.2991 0.3052	0.3304 0.3059	0.2751	0.2755	0.3156	Ave		0.3010			0.2000	6.7		20.0			
Methylcyclohexane	0.4345 0.4779	0.5437 0.5042	0.4604	0.4469	0.5181	Ave		0.4837			0.1000	8.3		20.0			
1,2-Dichloropropane	0.2791 0.2978	0.3185 0.3009	0.2679	0.2664	0.3068	Ave		0.2911			0.1000	6.9		20.0			
1,4-Dioxane	+++++ 0.0684	0.0723 0.0682	0.0740	0.0650	0.0744	Ave		0.0704			0.0050	5.3		20.0			
Dibromomethane	0.1364 0.1486	0.1540 0.1477	0.1344	0.1333	0.1531	Ave		0.1439				6.2		20.0			
Methyl methacrylate	8.3548 9.0966	10.384 9.9478	8.1268	7.9856	9.5086	Ave		9.0577				10.3		20.0			
Bromodichloromethane	0.3344 0.3702	0.3745 0.3750	0.3214	0.3274	0.3799	Ave		0.3547			0.2000	7.2		20.0			
2-Nitropropane	2.9633 2.9914	3.0584 3.2130	2.7041	2.5218	3.0256	Ave		2.9254				8.0		20.0			
1-Bromo-2-chloroethane	0.2668 0.3016	0.2747 0.3010	0.2743	0.2739	0.3029	Ave		0.2850				5.6		20.0			
cis-1,3-Dichloropropene	0.3963 0.4596	0.4605 0.4681	0.4020	0.4010	0.4692	Ave		0.4367			0.2000	8.0		20.0			
4-Methyl-2-pentanone	11.017 12.830	12.810 13.248	11.290	10.521	12.581	Ave		12.042			0.1000	8.9		20.0			
Toluene	0.9538 0.9898	1.0444 1.0049	0.9010	0.8859	1.0179	Ave		0.9711			0.4000	6.2		20.0			
trans-1,3-Dichloropropene	0.4424 0.5245	0.5165 0.5376	0.4476	0.4442	0.5255	Ave		0.4912			0.1000	8.9		20.0			
Ethyl methacrylate	0.3849 0.4618	0.4353 0.4638	0.3804	0.3852	0.4674	Ave		0.4256				9.6		20.0			
1,1,2-Trichloroethane	0.2739 0.2834	0.2990 0.2828	0.2618	0.2558	0.2936	Ave		0.2786			0.1000	5.7		20.0			
Tetrachloroethene	0.4478 0.4487	0.5052 0.4544	0.4234	0.4076	0.4682	Ave		0.4508			0.2000	7.0		20.0			
1,3-Dichloropropane	0.4413 0.4882	0.5050 0.4938	0.4410	0.4362	0.4992	Ave		0.4721				6.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	7.3119 9.1553	9.1439 9.5971	8.1942	7.6453	9.2661	Ave		8.6163			0.1000	10.4		20.0			
Dibromochloromethane	0.2969 0.3669	0.3558 0.3765	0.3021	0.3099	0.3718	Ave		0.3400				10.4		20.0			
1,2-Dibromoethane	0.2414 0.2850	0.2862 0.2883	0.2466	0.2493	0.2922	Ave		0.2699			0.1000	8.4		20.0			
1-Chlorohexane	0.5912 0.5260	0.6149 0.5461	0.5025	0.4807	0.5533	Ave		0.5450				8.7		20.0			
Chlorobenzene	1.0778 1.1405	1.2075 1.1265	1.0281	1.0207	1.1787	Ave		1.1114			0.5000	6.5		20.0			
1,1,1,2-Tetrachloroethane	0.3552 0.4000	0.3990 0.4019	0.3366	0.3424	0.4130	Ave		0.3783				8.5		20.0			
Ethylbenzene	1.8627 2.0021	2.0927 2.0110	1.7648	1.7410	2.0480	Ave		1.9318			0.1000	7.3		20.0			
m&p-Xylene	0.7074 0.7802	0.7926 0.7844	0.6982	0.6821	0.8074	Ave		0.7503			0.1000	6.9		20.0			
o-Xylene	0.7186 0.7697	0.7946 0.7651	0.6729	0.6713	0.7877	Ave		0.7400			0.3000	7.1		20.0			
Styrene	1.1353 1.3074	1.2846 1.3098	1.1191	1.1198	1.3407	Ave		1.2310			0.3000	8.2		20.0			
Bromoform	0.1670 0.2203	0.1906 0.2286	0.1781	0.1789	0.2222	Ave		0.1980			0.1000	12.7		20.0			
Isopropylbenzene	1.5822 1.7706	1.8288 1.7853	1.5812	1.5594	1.8260	Ave		1.7048			0.1000	7.3		20.0			
1,1,2,2-Tetrachloroethane	0.6025 0.6595	0.6684 0.6455	0.5777	0.5940	0.6744	Ave		0.6317			0.3000	6.2		20.0			
Bromobenzene	0.8598 0.8999	0.9893 0.8710	0.8413	0.8178	0.9342	Ave		0.8876				6.6		20.0			
trans-1,4-Dichloro-2-butene	0.1207 0.1734	0.1492 0.1760	0.1291	0.1410	0.1694	Ave		0.1513				14.7		20.0			
1,2,3-Trichloropropane	0.1601 0.1778	0.1884 0.1742	0.1618	0.1651	0.1848	Ave		0.1732				6.5		20.0			
N-Propylbenzene	4.0167 4.2410	4.4686 4.1084	3.8618	3.8051	4.3751	Ave		4.1252				6.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chlorotoluene	0.8391 0.8561	0.9426 0.8419	0.8012	0.7771	0.8783	Ave		0.8481				6.3		20.0			
1,3,5-Trimethylbenzene	2.8281 3.0702	3.2731 3.0629	2.7707	2.7198	3.1693	Ave		2.9849				7.1		20.0			
4-Chlorotoluene	0.8479 0.8939	0.9858 0.8806	0.8278	0.8011	0.9196	Ave		0.8795				7.0		20.0			
tert-Butylbenzene	0.6891 0.6871	0.7513 0.6837	0.6475	0.6277	0.7082	Ave		0.6849				5.9		20.0			
Pentachloroethane	0.4660 0.5746	0.4975 0.5807	0.5056	0.5025	0.5576	Ave		0.5264				8.4		20.0			
1,2,4-Trimethylbenzene	2.8659 3.2060	3.3144 3.1830	2.8021	2.8356	3.2618	Ave		3.0670				7.2		20.0			
sec-Butylbenzene	3.6122 3.9043	4.2037 3.8405	3.5768	3.4919	4.0450	Ave		3.8106				6.9		20.0			
1,3-Dichlorobenzene	1.5814 1.7586	1.8432 1.7580	1.5792	1.5702	1.8255	Ave		1.7023			0.6000	7.1		20.0			
p-Isopropyltoluene	3.1479 3.4042	3.7009 3.3956	3.0893	3.0269	3.5449	Ave		3.3299				7.5		20.0			
1,4-Dichlorobenzene	1.7286 1.8010	1.9807 1.7744	1.6530	1.6466	1.8549	Ave		1.7770			0.5000	6.6		20.0			
1,2,3-Trimethylbenzene	1.3664 1.4169	1.4966 1.4112	1.2956	1.2688	1.4461	Ave		1.3859				5.9		20.0			
Benzyl chloride	0.1882 0.2427	0.2273 0.2453	0.1988	0.2038	0.2467	Ave		0.2218				11.1		20.0			
n-Butylbenzene	1.4804 1.6597	1.7335 1.7118	1.4913	1.4525	1.7077	Ave		1.6053				7.8		20.0			
1,2-Dichlorobenzene	1.4558 1.6262	1.6535 1.6078	1.4338	1.4421	1.6525	Ave		1.5531			0.4000	6.7		20.0			
1,2-Dibromo-3-Chloropropane	0.0659 0.0948	0.0876 0.0972	0.0685	0.0807	0.0957	Ave		0.0844			0.0500	15.5		20.0			
1,3,5-Trichlorobenzene	1.0928 1.2733	1.2377 1.3253	1.0648	1.0734	1.2855	Ave		1.1932				9.4		20.0			
1,2,4-Trichlorobenzene	0.7728 1.0112	0.8797 1.0866	0.7575	0.8111	0.9921	Ave		0.9016			0.2000	14.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.4969 0.5018	0.5442 0.5421	0.4694	0.4518	0.5221	Ave		0.5040				7.0		20.0			
Naphthalene	1.1198 1.7305	1.3642 1.8551	1.1993	1.3607	1.6840	Ave		1.4734				19.2		20.0			
1,2,3-Trichlorobenzene	0.5691 0.7876	0.6832 0.8506	0.5948	0.6262	0.7769	Ave		0.6984				15.5		20.0			
Dibromofluoromethane (Surr)	0.2369 0.2373	0.2366 0.2304	0.2354	0.2393	0.2359	Ave		0.2360				1.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.0494 0.0481	0.0507 0.0451	0.0487	0.0500	0.0489	Ave		0.0487				3.7		20.0			
Toluene-d8 (Surr)	1.3085 1.3106	1.3080 1.3258	1.3165	1.3083	1.3163	Ave		1.3134				0.5		20.0			
4-Bromofluorobenzene (Surr)	0.4867 0.5001	0.4864 0.5068	0.4965	0.4947	0.5007	Ave		0.4960				1.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-652703/13	CU04X12.D
Level 2	IC 410-652703/14	CU04X13.D
Level 3	IC 410-652703/15	CU04X14.D
Level 4	IC 410-652703/16	CU04X15.D
Level 5	IC 410-652703/17	CU04X16.D
Level 6	ICIS 410-652703/18	CU04X17.D
Level 7	IC 410-652703/19	CU04X18.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	16199 711315	36639 1910119	74421	152735	368860	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloromethane	FB	Ave	21139 829326	44518 2125456	88049	176712	424548	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Butadiene	FB	Ave	26306 867379	56745 2348344	97198	194574	487013	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Vinyl chloride	FB	Ave	17996 755121	37886 1999388	76193	155580	382975	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromomethane	FB	Ave	11642 481890	24105 1264486	48569	104025	234731	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Chloroethane	FB	Ave	10305 428938	22164 1082708	42152	89652	218478	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dichlorofluoromethane	FB	Ave	30223 1243761	60141 3236174	122462	258590	631197	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Trichlorofluoromethane	FB	Ave	21831 940667	48159 2509183	100091	199007	491822	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl ether	FB	Ave	9225 491609	22436 1255788	46647	94728	242768	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Freon 123a	FB	Ave	15389 675780	33545 1768142	68628	139024	337108	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acrolein	TBAd10	Ave	60296 2884485	182054 7658408	314981	688718	1934430	9.76 488	24.4 1220	48.8	97.6	244
1,1-Dichloroethene	FB	Ave	10921 483327	26733 1204919	46570	86979	246219	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Acetone	TBAd10	Ave	17485 889005	46805 2140201	83461	170436	461621	2.00 100	5.00 250	10.0	20.0	50.0
Freon 113	FB	Ave	9099 503735	28216 1330135	48103	97879	274210	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl iodide	FB	Ave	20144 1037853	53929 2529869	88856	186388	522326	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl bromide	FB	Ave	9351 488634	22703 1226687	44939	91693	244467	0.200 9.99	0.499 25.0	0.999	2.00	4.99
Carbon disulfide	FB	Ave	35375 1831634	96559 4892051	167455	331656	930282	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl acetate	TBAd10	Ave	5090 222342	12278 599138	18977	53691	122126	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Allyl chloride	FB	Ave	17856 969689	48948 2470462	81834	171803	486779	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylene Chloride	FB	Ave	11142 621763	32383 1502742	54946	110553	311605	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Butyl alcohol	TBAd10	Ave	11696 526705	29554 1435907	56644	102513	252888	4.00 200	10.0 500	20.0	40.0	100
Acrylonitrile	TBAd10	Ave	6656 323997	18145 781903	29349	61778	161848	0.500 25.0	1.25 62.5	2.50	5.00	12.5
trans-1,2-Dichloroethene	FB	Ave	11965 629272	31672 1563294	55552	113688	317436	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl tertiary butyl ether	FB	Ave	33771 1732814	90870 4332630	149746	310841	871880	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Hexane	FB	Ave	14590 815383	46021 2225357	77450	153463	440670	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloroethane	FB	Ave	21511 1143325	57414 2897243	101423	205117	582751	0.200 10.0	0.500 25.0	1.00	2.00	5.00
di-Isopropyl ether	FB	Ave	39418 2133631	108151 5349070	184345	378204	1077291	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chloro-1,3-butadiene	FB	Ave	19255 1005337	51648 2585459	88291	178208	505348	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl t-butyl ether	FB	Ave	38223 2111946	104459 5309585	184283	374966	1061955	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Butanone	TBAd10	Ave	30665 1820498	87186 4479096	152140	323305	917331	2.00 100	5.00 250	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	13438 728703	37064 1806840	62895	131624	369626	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2,2-Dichloropropane	FB	Ave	18132 864914	47596 2164076	79756	158689	443343	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Propionitrile	TBAd10	Ave	14406 1035564	47161 2533586	74348	180401	532040	4.00 200	10.0 500	20.0	40.0	100
Methacrylonitrile	TBAd10	Ave	28723 1818764	85178 3870205	151963	324042	925357	2.00 100	5.00 250	10.0	20.0	50.0
Bromochloromethane	FB	Ave	6116 323186	17134 771616	27739	58456	166229	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrahydrofuran	TBAd10	Ave	4860 262439	13373 528121	21032	44058	134185	1.00 50.0	2.50 125	5.00	10.0	25.0
Chloroform	FB	Ave	21615 1169649	59315 2899179	101944	208918	594283	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1-Trichloroethane	FB	Ave	19723 1008421	51613 2574084	88566	182214	511035	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Cyclohexane	FB	Ave	19306 1047509	56567 2787364	97296	195263	549662	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Carbon tetrachloride	FB	Ave	15441 873731	44236 2268674	75195	155309	446477	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1-Dichloropropene	FB	Ave	17056 900783	48086 2321034	80703	161099	456100	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isobutyl alcohol	TBAd10	Ave	9875 598754	29650 1472738	51163	109792	309892	10.0 500	25.0 1250	50.0	100	250
Benzene	FB	Ave	50870 2772615	138487 7005346	234806	481493	1375923	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloroethane	FB	Ave	14538 737050	39279 1768362	63946	133938	380971	0.200 10.0	0.500 25.0	1.00	2.00	5.00
t-Amyl methyl ether	FB	Ave	34686 1895057	94606 4721921	160349	332620	955235	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Heptane	FB	Ave	14308 815564	43824 2227963	76961	149894	438591	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butanol	TBAd10	Ave	15631 1064292	40500 2647108	82816	182657	541776	17.5 875	43.8 2188	87.5	175	438
Trichloroethene	FB	Ave	13670 719194	36985 1822983	62640	127863	365052	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methylcyclohexane	FB	Ave	19854 1126284	60861 3004540	104809	207437	599230	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichloropropane	FB	Ave	12755 701824	35654 1793224	61002	123644	354789	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dioxane	TBAd10	Ave	+++++ 133857	6307 324106	12867	26267	72553	+++++ 500	25.0 1250	50.0	100	250
Dibromomethane	FB	Ave	6232 350295	17242 880191	30598	61876	177036	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Methyl methacrylate	TBAd10	Ave	5891 356016	18128 945817	28274	64576	185459	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromodichloromethane	FB	Ave	15282 872507	41926 2234689	73163	151966	439442	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Nitropropane	TBAd10	Ave	10447 585376	26697 1527427	47040	101963	295063	1.00 50.0	2.50 125	5.00	10.0	25.0
1-Bromo-2-chloroethane	FB	Ave	12192 710679	30753 1793643	62445	127120	350362	0.200 10.0	0.500 25.0	1.00	2.00	5.00
cis-1,3-Dichloropropene	FB	Ave	18109 1083083	51547 2789224	91516	186102	542722	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Methyl-2-pentanone	TBAd10	Ave	77682 5021327	223633 12595503	392778	850809	2453811	2.00 100	5.00 250	10.0	20.0	50.0
Toluene	CBZd5	Ave	32891 1766699	89270 4500182	155529	315864	898264	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,3-Dichloropropene	CBZd5	Ave	15255 936248	44145 2407520	77269	158386	463719	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethyl methacrylate	CBZd5	Ave	13274 824386	37206 2077034	65660	137362	412442	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2-Trichloroethane	CBZd5	Ave	9445 505817	25560 1266610	45195	91203	259067	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Tetrachloroethene	CBZd5	Ave	15443 800949	43177 2034654	73096	145331	413166	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3-Dichloropropane	CBZd5	Ave	15218 871446	43165 2211341	76134	155518	440551	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Hexanone	TBAd10	Ave	51556 3583142	159634 9124749	285086	618240	1807304	2.00 100	5.00 250	10.0	20.0	50.0
Dibromochloromethane	CBZd5	Ave	10239 654881	30414 1686150	52157	110483	328142	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromoethane	CBZd5	Ave	8323 508777	24466 1291218	42569	88880	257871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1-Chlorohexane	CBZd5	Ave	20389 938849	52561 2445378	86748	171417	488277	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBZd5	Ave	37169 2035693	103211 5044757	177474	363956	1040176	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,1,2-Tetrachloroethane	CBZd5	Ave	12249 714022	34106 1799576	58098	122089	364416	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Ethylbenzene	CBZd5	Ave	64236 3573708	178871 9005284	304648	620788	1807246	0.200 10.0	0.500 25.0	1.00	2.00	5.00
m&p-Xylene	CBZd5	Ave	48788 2785164	135488 7024802	241061	486454	1425023	0.400 20.0	1.00 50.0	2.00	4.00	10.0
o-Xylene	CBZd5	Ave	24780 1373841	67921 3426341	116161	239367	695086	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Styrene	CBZd5	Ave	39152 2333644	109797 5865468	193183	399285	1183154	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromoform	CBZd5	Ave	5760 393310	16294 1023710	30743	63801	196118	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Isopropylbenzene	CBZd5	Ave	54563 3160521	156315 7994918	272955	556019	1611339	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,1,2,2-Tetrachloroethane	DCBd4	Ave	11067 658027	30206 1671405	54271	115023	331165	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Bromobenzene	DCBd4	Ave	15792 897841	44707 2255347	79024	158356	458738	0.200 10.0	0.500 25.0	1.00	2.00	5.00
trans-1,4-Dichloro-2-butene	DCBd4	Ave	22171 1730386	67428 4558072	121230	273068	832051	2.00 100	5.00 250	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd4	Ave	2941 177391	8512 450975	15198	31967	90769	0.200 10.0	0.500 25.0	1.00	2.00	5.00
N-Propylbenzene	DCBd4	Ave	73775 4231523	201935 10638326	362762	736830	2148429	0.200 10.0	0.500 25.0	1.00	2.00	5.00
2-Chlorotoluene	DCBd4	Ave	15412 854229	42598 2179924	75265	150474	431288	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trimethylbenzene	DCBd4	Ave	51944 3063306	147909 7931026	260269	526671	1556329	0.200 10.0	0.500 25.0	1.00	2.00	5.00
4-Chlorotoluene	DCBd4	Ave	15573 891868	44548 2280252	77762	155124	451553	0.200 10.0	0.500 25.0	1.00	2.00	5.00
tert-Butylbenzene	DCBd4	Ave	12657 685518	33953 1770290	60824	121542	347754	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Pentachloroethane	DCBd4	Ave	8559 573273	22482 1503708	47492	97302	273834	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trimethylbenzene	DCBd4	Ave	52639 3198872	149776 8242089	263217	549085	1601753	0.200 10.0	0.500 25.0	1.00	2.00	5.00
sec-Butylbenzene	DCBd4	Ave	66346 3895567	189963 9944673	335990	676177	1986304	0.200 10.0	0.500 25.0	1.00	2.00	5.00

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3-Dichlorobenzene	DCBd4	Ave	29045 1754616	83293 4552267	148339	304052	896416	0.200 10.0	0.500 25.0	1.00	2.00	5.00
p-Isopropyltoluene	DCBd4	Ave	57818 3396561	167243 8792472	290194	586132	1740754	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,4-Dichlorobenzene	DCBd4	Ave	31750 1796973	89506 4594565	155274	318860	910871	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trimethylbenzene	DCBd4	Ave	25097 1413730	67632 3654193	121701	245691	710123	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Benzyl chloride	DCBd4	Ave	3457 242134	10271 635228	18678	39473	121164	0.200 10.0	0.500 25.0	1.00	2.00	5.00
n-Butylbenzene	DCBd4	Ave	27191 1655944	78339 4432606	140086	281274	838585	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dichlorobenzene	DCBd4	Ave	26738 1622585	74720 4163188	134689	279256	811448	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2-Dibromo-3-Chloropropane	DCBd4	Ave	1210 94571	3958 251795	6437	15636	47000	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,3,5-Trichlorobenzene	DCBd4	Ave	20072 1270413	55932 3431609	100020	207850	631233	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,4-Trichlorobenzene	DCBd4	Ave	14194 1008958	39754 2813772	71154	157064	487193	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Hexachlorobutadiene	DCBd4	Ave	9127 500714	24592 1403830	44091	87493	256357	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Naphthalene	DCBd4	Ave	20567 1726665	61647 4803722	112656	263482	826933	0.200 10.0	0.500 25.0	1.00	2.00	5.00
1,2,3-Trichlorobenzene	DCBd4	Ave	10453 785866	30876 2202657	55874	121255	381517	0.200 10.0	0.500 25.0	1.00	2.00	5.00
Dibromofluoromethane (Surr)	FB	Ave	541327 559311	529654 549208	535871	555310	545788	10.0 10.0	10.0 10.0	10.0	10.0	10.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	112974 113375	113484 107416	110913	115978	113081	10.0 10.0	10.0 10.0	10.0	10.0	10.0
Toluene-d8 (Surr)	CBZd5	Ave	2256231 2339352	2235974 2374813	2272533	2332401	2323180	10.0 10.0	10.0 10.0	10.0	10.0	10.0
4-Bromofluorobenzene (Surr)	CBZd5	Ave	839185 892633	831439 907728	857005	882041	883630	10.0 10.0	10.0 10.0	10.0	10.0	10.0

Curve Type Legend:
Ave = Average ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-652703/13	CU04X12.D
Level 2	IC 410-652703/14	CU04X13.D
Level 3	IC 410-652703/15	CU04X14.D
Level 4	IC 410-652703/16	CU04X15.D
Level 5	IC 410-652703/17	CU04X16.D
Level 6	ICIS 410-652703/18	CU04X17.D
Level 7	IC 410-652703/19	CU04X18.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	8.9 -1.5	0.5	0.4	1.1	-2.0	-7.3	50 30	30	30	30	30	30
Chloromethane	19.8 -7.6	3.0	0.1	-1.4	-5.0	-8.9	50 30	30	30	30	30	30
1,3-Butadiene	29.5 -11.4	14.0	-4.0	-5.7	-5.3	-17.2	50 30	30	30	30	30	30
Vinyl chloride	15.4 -1.7	-0.8	-1.9	-1.8	-3.0	-6.1	50 30	30	30	30	30	30
Bromomethane	16.8 -2.7	-1.3	-2.2	2.7	-7.0	-6.3	50 30	30	30	30	30	30
Chloroethane	16.5 -6.1	2.3	-4.3	-0.2	-2.4	-5.9	50 30	30	30	30	30	30
Dichlorofluoromethane	18.4 -2.8	-3.8	-3.7	-0.3	-2.3	-5.5	50 30	30	30	30	30	30
Trichlorofluoromethane	10.7 -2.5	-0.3	1.8	-0.7	-1.5	-7.5	50 30	30	30	30	30	30
Ethyl ether	-1.9 2.4	-2.6	-0.4	-0.8	2.0	1.4	50 30	30	30	30	30	30
Freon 123a	11.6 -1.7	-0.7	-0.1	-0.7	-3.4	-5.0	50 30	30	30	30	30	30
Acrolein	-3.3 -8.9	17.9	2.4	-3.7	12.2	-16.6	50 30	30	30	30	30	30
1,1-Dichloroethene	12.3 -5.0	12.2	-3.9	-12.0	0.0	-3.6	50 30	30	30	30	30	30
Acetone	4.8 -4.8	13.4	1.4	-10.9	0.1	-4.0	50 30	30	30	30	30	30
Freon 113	-9.9 1.0	14.0	-4.4	-4.6	7.3	-3.3	50 30	30	30	30	30	30
Methyl iodide	1.8 -2.0	11.3	-9.9	-7.3	4.3	1.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Ethyl bromide	0.4 1.0	-0.5	-3.2	-3.1	3.7	1.7	50 30	30	30	30	30	30
Carbon disulfide	-1.3 4.7	10.0	-6.2	-8.9	2.6	-0.9	50 30	30	30	30	30	30
Methyl acetate	13.3 -1.1	10.4	-14.4	4.2	-1.7	-10.8	50 30	30	30	30	30	30
Allyl chloride	-2.5 3.5	9.1	-10.3	-7.6	5.0	2.7	50 30	30	30	30	30	30
Methylene Chloride	-5.1 -1.8	12.6	-6.0	-7.3	4.9	2.7	50 30	30	30	30	30	30
t-Butyl alcohol	11.6 1.7	13.9	9.6	-14.7	-12.7	-9.4	50 30	30	30	30	30	30
Acrylonitrile	8.8 -5.2	19.8	-2.7	-11.9	-4.3	-4.5	50 30	30	30	30	30	30
trans-1,2-Dichloroethene	-0.3 -0.1	7.8	-7.0	-6.7	4.6	1.7	50 30	30	30	30	30	30
Methyl tertiary butyl ether	1.5 -0.1	11.5	-9.6	-8.0	3.6	1.0	50 30	30	30	30	30	30
n-Hexane	-10.7 4.5	15.0	-4.8	-7.5	6.6	-3.2	50 30	30	30	30	30	30
1,1-Dichloroethane	-1.5 1.7	7.3	-6.8	-7.6	5.4	1.5	50 30	30	30	30	30	30
di-Isopropyl ether	-2.4 1.5	9.3	-8.4	-7.8	5.4	2.4	50 30	30	30	30	30	30
2-Chloro-1,3-butadiene	-0.1 2.9	9.4	-8.0	-9.0	3.6	1.2	50 30	30	30	30	30	30
Ethyl t-butyl ether	-3.9 2.4	7.2	-7.0	-7.2	5.5	3.0	50 30	30	30	30	30	30
2-Butanone	-4.2 3.8	10.0	-3.7	-11.9	3.6	2.5	50 30	30	30	30	30	30
cis-1,2-Dichloroethene	-2.8 0.3	9.5	-8.7	-6.2	5.7	2.2	50 30	30	30	30	30	30
2,2-Dichloropropane	5.7 -3.3	13.3	-6.7	-8.9	2.1	-2.2	50 30	30	30	30	30	30
Propionitrile	-16.6 8.8	10.3	-12.8	-8.9	11.3	8.0	50 30	30	30	30	30	30
Methacrylonitrile	-7.4 -7.5	10.9	-0.7	-8.9	7.9	5.7	50 30	30	30	30	30	30
Bromochloromethane	-0.9 -4.1	13.4	-9.7	-6.7	6.5	1.6	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Tetrahydrofuran	6.8 -14.0	18.7	-6.4	-15.6	6.6	3.9	50 30	30	30	30	30	30
Chloroform	-2.5 0.2	9.2	-7.7	-7.3	5.9	2.3	50 30	30	30	30	30	30
1,1,1-Trichloroethane	1.5 1.6	8.5	-8.5	-7.7	3.9	0.6	50 30	30	30	30	30	30
Cyclohexane	-6.5 3.5	11.8	-5.4	-6.9	5.2	-1.6	50 30	30	30	30	30	30
Carbon tetrachloride	-6.7 5.1	9.1	-8.8	-7.6	6.6	2.4	50 30	30	30	30	30	30
1,1-Dichloropropene	-2.2 2.1	12.6	-7.1	-9.0	3.4	0.2	50 30	30	30	30	30	30
Isobutyl alcohol	-7.5 2.3	12.2	-2.8	-10.3	5.0	1.1	50 30	30	30	30	30	30
Benzene	-2.1 3.4	8.8	-9.3	-8.8	4.6	3.4	50 30	30	30	30	30	30
1,2-Dichloroethane	2.3 -4.6	12.8	-9.7	-7.2	5.9	0.5	50 30	30	30	30	30	30
t-Amyl methyl ether	-2.5 1.8	8.6	-9.5	-7.9	6.1	3.3	50 30	30	30	30	30	30
n-Heptane	-11.1 6.2	11.2	-4.0	-8.3	7.7	-1.7	50 30	30	30	30	30	30
n-Butanol	-11.1 11.6	-7.0	-4.6	-9.4	11.4	9.0	50 30	30	30	30	30	30
Trichloroethene	-0.6 1.6	9.8	-8.6	-8.5	4.9	1.4	50 30	30	30	30	30	30
Methylcyclohexane	-10.2 4.2	12.4	-4.8	-7.6	7.1	-1.2	50 30	30	30	30	30	30
1,2-Dichloropropane	-4.1 3.4	9.4	-7.9	-8.5	5.4	2.3	50 30	30	30	30	30	30
1,4-Dioxane	+++++ -3.1	2.7	5.1	-7.7	5.7	-2.8	30	50	30	30	30	30
Dibromomethane	-5.2 2.6	7.0	-6.6	-7.4	6.3	3.3	50 30	30	30	30	30	30
Methyl methacrylate	-7.8 9.8	14.6	-10.3	-11.8	5.0	0.4	50 30	30	30	30	30	30
Bromodichloromethane	-5.7 5.7	5.6	-9.4	-7.7	7.1	4.4	50 30	30	30	30	30	30
2-Nitropropane	1.3 9.8	4.5	-7.6	-13.8	3.4	2.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1-Bromo-2-chloroethane	-6.4 5.6	-3.6	-3.8	-3.9	6.3	5.8	50 30	30	30	30	30	30
cis-1,3-Dichloropropene	-9.2 7.2	5.5	-7.9	-8.2	7.5	5.2	50 30	30	30	30	30	30
4-Methyl-2-pentanone	-8.5 10.0	6.4	-6.3	-12.6	4.5	6.5	50 30	30	30	30	30	30
Toluene	-1.8 3.5	7.6	-7.2	-8.8	4.8	1.9	50 30	30	30	30	30	30
trans-1,3-Dichloropropene	-9.9 9.5	5.1	-8.9	-9.6	7.0	6.8	50 30	30	30	30	30	30
Ethyl methacrylate	-9.5 9.0	2.3	-10.6	-9.5	9.8	8.5	50 30	30	30	30	30	30
1,1,2-Trichloroethane	-1.7 1.5	7.3	-6.0	-8.2	5.4	1.7	50 30	30	30	30	30	30
Tetrachloroethene	-0.7 0.8	12.1	-6.1	-9.6	3.9	-0.5	50 30	30	30	30	30	30
1,3-Dichloropropane	-6.5 4.6	7.0	-6.6	-7.6	5.7	3.4	50 30	30	30	30	30	30
2-Hexanone	-15.1 11.4	6.1	-4.9	-11.3	7.5	6.3	50 30	30	30	30	30	30
Dibromochloromethane	-12.7 10.7	4.7	-11.1	-8.9	9.4	7.9	50 30	30	30	30	30	30
1,2-Dibromoethane	-10.6 6.8	6.1	-8.6	-7.6	8.3	5.6	50 30	30	30	30	30	30
1-Chlorohexane	8.5 0.2	12.8	-7.8	-11.8	1.5	-3.5	50 30	30	30	30	30	30
Chlorobenzene	-3.0 1.4	8.6	-7.5	-8.2	6.1	2.6	50 30	30	30	30	30	30
1,1,1,2-Tetrachloroethane	-6.1 6.2	5.5	-11.0	-9.5	9.2	5.7	50 30	30	30	30	30	30
Ethylbenzene	-3.6 4.1	8.3	-8.6	-9.9	6.0	3.6	50 30	30	30	30	30	30
m&p-Xylene	-5.7 4.5	5.6	-6.9	-9.1	7.6	4.0	50 30	30	30	30	30	30
o-Xylene	-2.9 3.4	7.4	-9.1	-9.3	6.4	4.0	50 30	30	30	30	30	30
Styrene	-7.8 6.4	4.4	-9.1	-9.0	8.9	6.2	50 30	30	30	30	30	30
Bromoform	-15.6 15.5	-3.7	-10.0	-9.6	12.3	11.3	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
Isopropylbenzene	-7.2 4.7	7.3	-7.2	-8.5	7.1	3.9	50 30	30	30	30	30	30
1,1,2,2-Tetrachloroethane	-4.6 2.2	5.8	-8.5	-6.0	6.8	4.4	50 30	30	30	30	30	30
Bromobenzene	-3.1 -1.9	11.5	-5.2	-7.9	5.2	1.4	50 30	30	30	30	30	30
trans-1,4-Dichloro-2-butene	-20.2 16.4	-1.4	-14.7	-6.8	12.0	14.6	50 30	30	30	30	30	30
1,2,3-Trichloropropane	-7.5 0.6	8.8	-6.6	-4.7	6.7	2.7	50 30	30	30	30	30	30
N-Propylbenzene	-2.6 -0.4	8.3	-6.4	-7.8	6.1	2.8	50 30	30	30	30	30	30
2-Chlorotoluene	-1.1 -0.7	11.2	-5.5	-8.4	3.6	1.0	50 30	30	30	30	30	30
1,3,5-Trimethylbenzene	-5.3 2.6	9.7	-7.2	-8.9	6.2	2.9	50 30	30	30	30	30	30
4-Chlorotoluene	-3.6 0.1	12.1	-5.9	-8.9	4.6	1.6	50 30	30	30	30	30	30
tert-Butylbenzene	0.6 -0.2	9.7	-5.5	-8.4	3.4	0.3	50 30	30	30	30	30	30
Pentachloroethane	-11.5 10.3	-5.5	-3.9	-4.5	5.9	9.2	50 30	30	30	30	30	30
1,2,4-Trimethylbenzene	-6.6 3.8	8.1	-8.6	-7.5	6.4	4.5	50 30	30	30	30	30	30
sec-Butylbenzene	-5.2 0.8	10.3	-6.1	-8.4	6.1	2.5	50 30	30	30	30	30	30
1,3-Dichlorobenzene	-7.1 3.3	8.3	-7.2	-7.8	7.2	3.3	50 30	30	30	30	30	30
p-Isopropyltoluene	-5.5 2.0	11.1	-7.2	-9.1	6.5	2.2	50 30	30	30	30	30	30
1,4-Dichlorobenzene	-2.7 -0.1	11.5	-7.0	-7.3	4.4	1.3	50 30	30	30	30	30	30
1,2,3-Trimethylbenzene	-1.4 1.8	8.0	-6.5	-8.5	4.3	2.2	50 30	30	30	30	30	30
Benzyl chloride	-15.2 10.6	2.5	-10.4	-8.1	11.2	9.4	50 30	30	30	30	30	30
n-Butylbenzene	-7.8 6.6	8.0	-7.1	-9.5	6.4	3.4	50 30	30	30	30	30	30
1,2-Dichlorobenzene	-6.3 3.5	6.5	-7.7	-7.1	6.4	4.7	50 30	30	30	30	30	30

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 652703

SDG No.:

Instrument ID: 10193 GC Column: R-624SilMS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/04/2025 21:06 Calibration End Date: 06/04/2025 23:20 Calibration ID: 73332

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
1,2-Dibromo-3-Chloropropane	-21.9 15.3	3.8	-18.8	-4.3	13.5	12.4	50 30	30	30	30	30	30
1,3,5-Trichlorobenzene	-8.4 11.1	3.7	-10.8	-10.0	7.7	6.7	50 30	30	30	30	30	30
1,2,4-Trichlorobenzene	-14.3 20.5	-2.4	-16.0	-10.0	10.0	12.2	50 30	30	30	30	30	30
Hexachlorobutadiene	-1.4 7.6	8.0	-6.9	-10.4	3.6	-0.4	50 30	30	30	30	30	30
Naphthalene	-24.0 25.9	-7.4	-18.6	-7.6	14.3	17.5	50 30	30	30	30	30	30
1,2,3-Trichlorobenzene	-18.5 21.8	-2.2	-14.8	-10.3	11.2	12.8	50 30	30	30	30	30	30
Dibromofluoromethane (Surr)	0.4 -2.4	0.3	-0.3	1.4	0.0	0.6	50 30	30	30	30	30	30
1,2-Dichloroethane-d4 (Surr)	1.5 -7.5	4.1	0.0	2.6	0.4	-1.2	50 30	30	30	30	30	30
Toluene-d8 (Surr)	-0.4 0.9	-0.4	0.2	-0.4	0.2	-0.2	50 30	30	30	30	30	30
4-Bromofluorobenzene (Surr)	-1.9 2.2	-1.9	0.1	-0.2	0.9	0.8	50 30	30	30	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D
Lims ID: IC std1 0.2
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 04-Jun-2025 21:06:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-013
Misc. Info.: IC STD.2 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:16 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 10:40:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	99	16199	0.2000	0.2178	
5 Chloromethane	50	1.945	1.945	0.000	99	21139	0.2000	0.2396	
7 Butadiene	39	2.018	2.025	-0.007	96	26306	0.2000	0.2590	M
6 Vinyl chloride	62	2.043	2.043	0.000	98	17996	0.2000	0.2308	
9 Bromomethane	94	2.348	2.348	0.000	91	11642	0.2000	0.2335	M
10 Chloroethane	64	2.366	2.372	-0.006	99	10305	0.2000	0.2331	
11 Dichlorofluoromethane	67	2.567	2.634	-0.067	94	30223	0.2000	0.2368	M
13 Pentane	43	2.640	2.646	-0.006	95	16757	0.2000	0.1954	
12 Trichlorofluoromethane	101	2.683	2.677	0.006	96	21831	0.2000	0.2213	M
14 Ethyl ether	59	2.823	2.823	0.000	92	9225	0.2001	0.1963	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.927	-0.006	91	15389	0.2000	0.2232	
17 Acrolein	56	2.969	2.970	-0.001	98	60296	9.76	9.44	
18 1,1-Dichloroethene	96	3.085	3.098	-0.013	97	10921	0.2000	0.2246	
20 Acetone	43	3.122	3.116	0.006	87	17485	2.00	2.10	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.128	3.140	-0.012	91	9099	0.2000	0.1802	
24 Isopropyl alcohol	45	3.238	3.250	-0.012	32	6196	4.00	3.91	M
22 Iodomethane	142	3.256	3.262	-0.006	99	20144	0.2000	0.2036	M
23 Ethyl bromide	108	3.286	3.280	0.006	98	9351	0.1998	0.2006	
25 Carbon disulfide	76	3.347	3.347	0.000	99	35375	0.2000	0.1974	M
26 Methyl acetate	43	3.457	3.469	-0.012	20	5090	0.2000	0.2267	M
29 3-Chloro-1-propene	41	3.494	3.500	-0.006	85	17856	0.2000	0.1951	a
* 31 t-Butyl alcohol-d10 (IS)	65	3.658	3.652	0.006	96	176275	50.0	50.0	
30 Methylene Chloride	84	3.652	3.658	-0.006	58	11142	0.2000	0.1898	
32 2-Methyl-2-propanol	59	3.750	3.774	-0.024	94	11696	4.00	4.47	M
33 Acrylonitrile	53	3.975	3.957	0.018	25	6656	0.5000	0.5442	
34 Methyl tert-butyl ether	73	4.030	4.018	0.012	94	33771	0.2000	0.2031	
35 trans-1,2-Dichloroethene	96	4.006	4.018	-0.012	98	11965	0.2000	0.1995	
36 Hexane	57	4.420	4.414	0.006	95	14590	0.2000	0.1787	
37 1,1-Dichloroethane	63	4.658	4.658	0.000	96	21511	0.2000	0.1969	
39 Isopropyl ether	45	4.725	4.725	0.000	92	39418	0.2000	0.1952	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	91	19255	0.2000	0.1998	
41 Tert-butyl ethyl ether	59	5.268	5.274	-0.006	97	38223	0.2000	0.1922	
42 2-Butanone (MEK)	43	5.487	5.475	0.012	99	30665	2.00	1.92	
43 cis-1,2-Dichloroethene	96	5.518	5.512	0.006	87	13438	0.2000	0.1945	
44 2,2-Dichloropropane	77	5.518	5.530	-0.012	88	18132	0.2000	0.2114	
45 Propionitrile	54	5.597	5.573	0.024	98	14406	4.00	3.34	
47 Methacrylonitrile	67	5.792	5.798	-0.006	92	28723	2.00	1.85	
48 Chlorobromomethane	128	5.841	5.853	-0.012	62	6116	0.2000	0.1983	
49 Tetrahydrofuran	71	5.865	5.853	0.012	67	4860	1.00	1.07	M
50 Chloroform	83	6.005	6.012	-0.007	93	21615	0.2000	0.1949	
S 52 1,2-Dichloroethene, Total	100				0			0.3940	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	93	541327	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.225	6.231	-0.006	62	19723	0.2000	0.2030	
55 Cyclohexane	56	6.322	6.329	-0.007	92	19306	0.2000	0.1870	
56 Carbon tetrachloride	117	6.444	6.444	0.000	89	15441	0.2000	0.1866	
57 1,1-Dichloropropene	75	6.456	6.457	-0.001	90	17056	0.2000	0.1957	
58 Isobutyl alcohol	41	6.658	6.652	0.006	92	9875	10.0	9.25	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	99	112974	10.0	10.2	
60 Benzene	78	6.719	6.725	-0.006	95	50870	0.2000	0.1958	
61 1,2-Dichloroethane	62	6.810	6.798	0.012	71	14538	0.2000	0.2046	
64 Tert-amyl methyl ether	73	6.920	6.932	-0.012	98	34686	0.2000	0.1951	Ma
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	2284843	10.0	10.0	
66 n-Heptane	43	7.158	7.164	-0.006	93	14308	0.2000	0.1778	
67 n-Butanol	56	7.627	7.566	0.061	22	15631	17.5	15.6	M
68 Trichloroethene	95	7.627	7.633	-0.006	97	13670	0.2000	0.1988	
69 Methylcyclohexane	83	7.938	7.938	0.000	91	19854	0.2000	0.1797	
70 1,2-Dichloropropane	63	7.968	7.975	-0.007	94	12755	0.2000	0.1918	
71 2-ethoxy-2-methyl butane	87	7.993	8.005	-0.012	94	19584	0.2000	0.1880	
74 1,4-Dioxane	88	8.090	8.072	0.018	55	1004	10.0	4.05	M
73 Methyl methacrylate	69	8.096	8.084	0.012	87	5891	0.2000	0.1845	
72 Dibromomethane	93	8.078	8.084	-0.006	90	6232	0.2000	0.1895	
76 Dichlorobromomethane	83	8.340	8.334	0.006	98	15282	0.2000	0.1886	
77 2-Nitropropane	41	8.627	8.621	0.006	98	10447	1.00	1.01	
78 1-Bromo-2-chloroethane	63	8.730	8.731	-0.001	98	12192	0.2000	0.1872	
80 cis-1,3-Dichloropropene	75	8.919	8.907	0.012	95	18109	0.2000	0.1815	
82 4-Methyl-2-pentanone (MIBK)	43	9.121	9.115	0.006	97	77682	2.00	1.83	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2256231	10.0	9.96	
84 Toluene	92	9.328	9.328	0.000	98	32891	0.2000	0.1964	
85 trans-1,3-Dichloropropene	75	9.633	9.627	0.006	93	15255	0.2000	0.1801	
86 Ethyl methacrylate	69	9.712	9.706	0.006	88	13274	0.2000	0.1809	
87 1,1,2-Trichloroethane	97	9.840	9.846	-0.006	89	9445	0.2000	0.1966	
88 Tetrachloroethene	166	9.925	9.925	0.000	97	15443	0.2000	0.1987	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	90	15218	0.2000	0.1869	
S 107 1,3-Dichloropropene, Total	100				0			0.3616	
106 2-Hexanone	43	10.096	10.090	0.006	97	51556	2.00	1.70	
108 Chlorodibromomethane	129	10.242	10.242	0.000	89	10239	0.2000	0.1747	
110 Ethylene Dibromide	107	10.358	10.352	0.006	98	8323	0.2000	0.1789	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.815	0.000	86	1724253	10.0	10.0	
112 1-Chlorohexane	91	10.840	10.834	0.006	65	20389	0.2000	0.2170	
113 Chlorobenzene	112	10.840	10.840	0.000	97	37169	0.2000	0.1940	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	93	12249	0.2000	0.1878	
115 Ethylbenzene	91	10.937	10.937	0.000	99	64236	0.2000	0.1929	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.065	11.059	0.006	96	48788	0.4000	0.3771	
S 117 Xylenes, Total	106				0			0.5713	
118 o-Xylene	106	11.407	11.401	0.006	96	24780	0.2000	0.1942	
119 Styrene	104	11.425	11.419	0.006	94	39152	0.2000	0.1845	
120 Bromoform	173	11.577	11.578	-0.001	96	5760	0.2000	0.1687	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	54563	0.2000	0.1856	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	91	839185	10.0	9.81	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	68	11067	0.2000	0.1908	
125 Bromobenzene	156	11.980	11.980	0.000	91	15792	0.2000	0.1937	
127 trans-1,4-Dichloro-2-butene	53	12.010	12.004	0.006	90	22171	2.00	1.60	
128 1,2,3-Trichloropropane	110	12.022	12.023	-0.001	74	2941	0.2000	0.1849	
129 N-Propylbenzene	91	12.059	12.059	0.000	99	73775	0.2000	0.1947	
130 2-Chlorotoluene	126	12.132	12.132	0.000	97	15412	0.2000	0.1979	
131 1,3,5-Trimethylbenzene	105	12.205	12.199	0.006	94	51944	0.2000	0.1895	
132 4-Chlorotoluene	126	12.236	12.230	0.006	98	15573	0.2000	0.1928	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	12657	0.2000	0.2012	
134 Pentachloroethane	167	12.480	12.474	0.006	78	8559	0.2000	0.1771	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	52639	0.2000	0.1869	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	66346	0.2000	0.1896	
137 1,3-Dichlorobenzene	146	12.717	12.712	0.005	98	29045	0.2000	0.1858	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	57818	0.2000	0.1891	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.772	0.000	95	918354	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.784	12.785	-0.001	92	31750	0.2000	0.1946	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	97	25097	0.2000	0.1972	
142 Benzyl chloride	126	12.876	12.870	0.006	99	3457	0.2000	0.1697	
145 p-Diethylbenzene	119	13.010	13.004	0.006	93	33970	0.2000	0.1835	
143 n-Butylbenzene	92	13.028	13.029	0.000	97	27191	0.2000	0.1844	
144 1,2-Dichlorobenzene	146	13.059	13.053	0.006	99	26738	0.2000	0.1875	
148 1,2-Dibromo-3-Chloropropane	155	13.614	13.608	0.006	83	1210	0.2000	0.1562	
149 1,3,5-Trichlorobenzene	180	13.742	13.736	0.006	98	20072	0.2000	0.1832	
150 1,2,4-Trichlorobenzene	180	14.174	14.169	0.005	93	14194	0.2000	0.1714	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	85	9127	0.2000	0.1972	
152 Naphthalene	128	14.357	14.345	0.012	97	20567	0.2000	0.1520	
153 1,2,3-Trichlorobenzene	180	14.504	14.492	0.012	95	10453	0.2000	0.1630	
154 2-Methylnaphthalene	142	15.113	15.101	0.012	93	5744	0.2000	0.5235	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00168	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

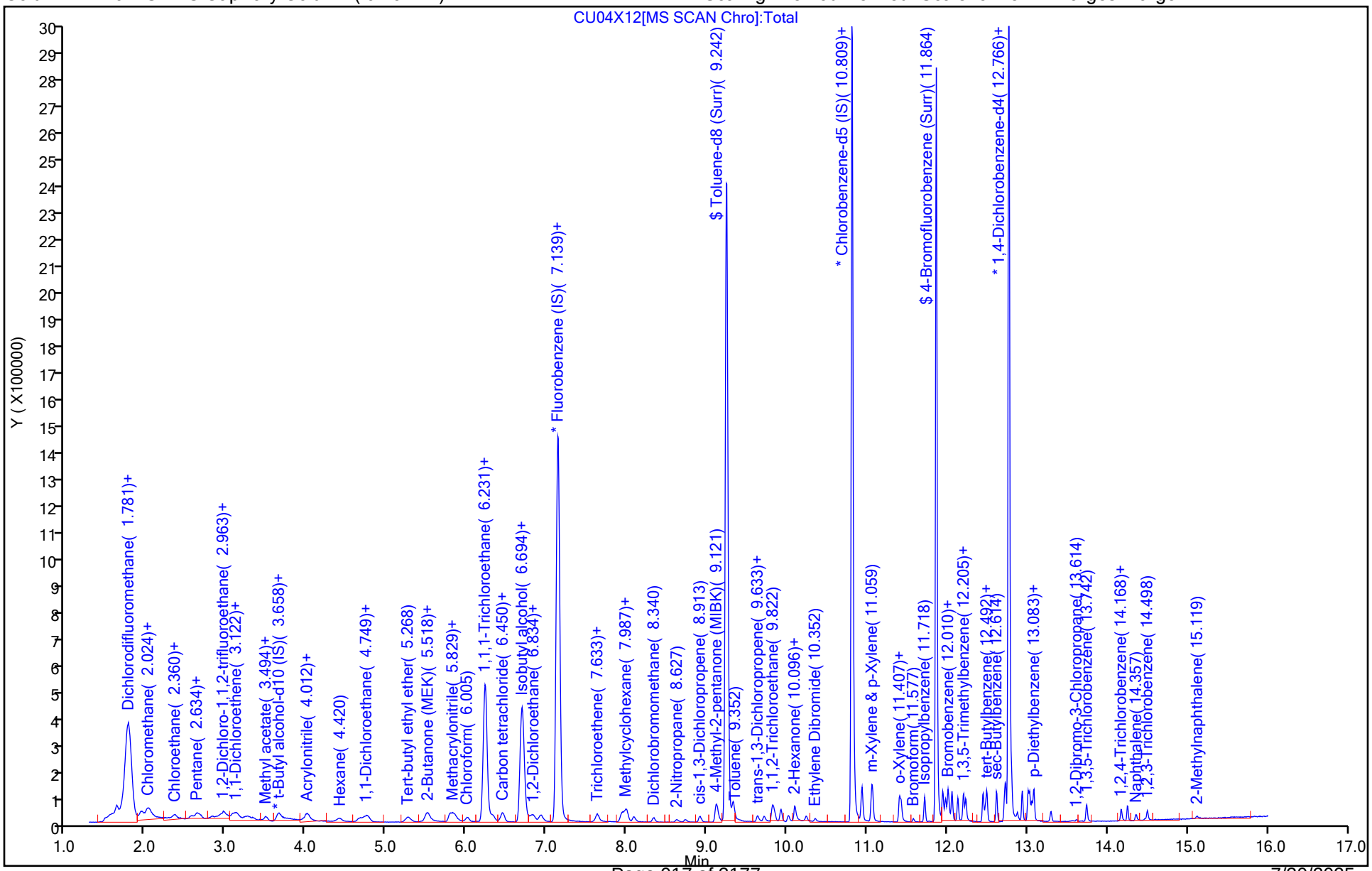
Report Date: 06-Jun-2025 09:18:17 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D

Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std1 0.2			Worklist Smp#:	13
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

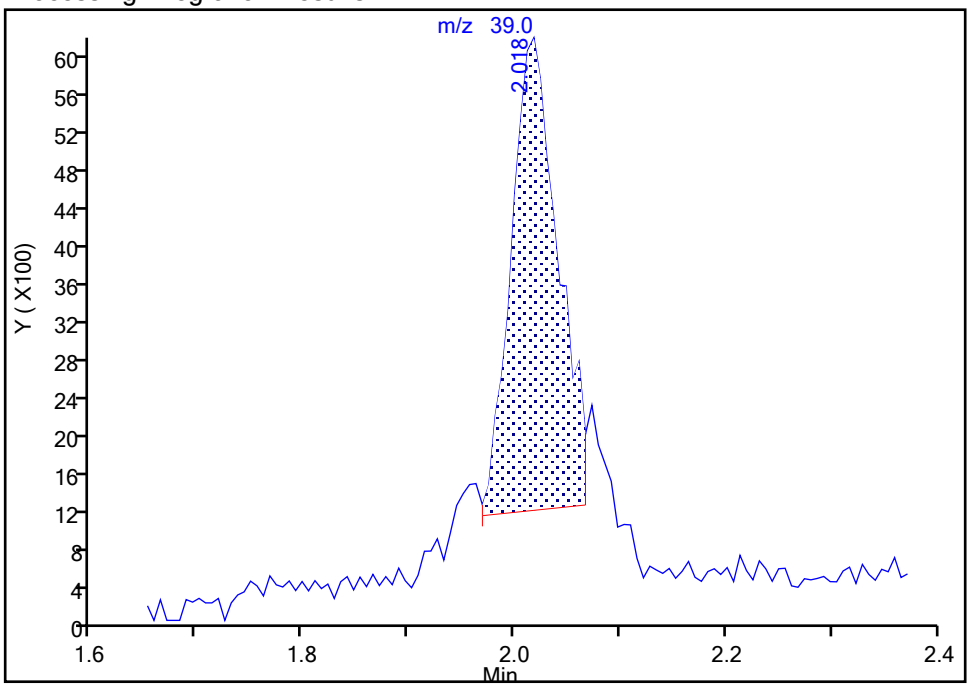
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

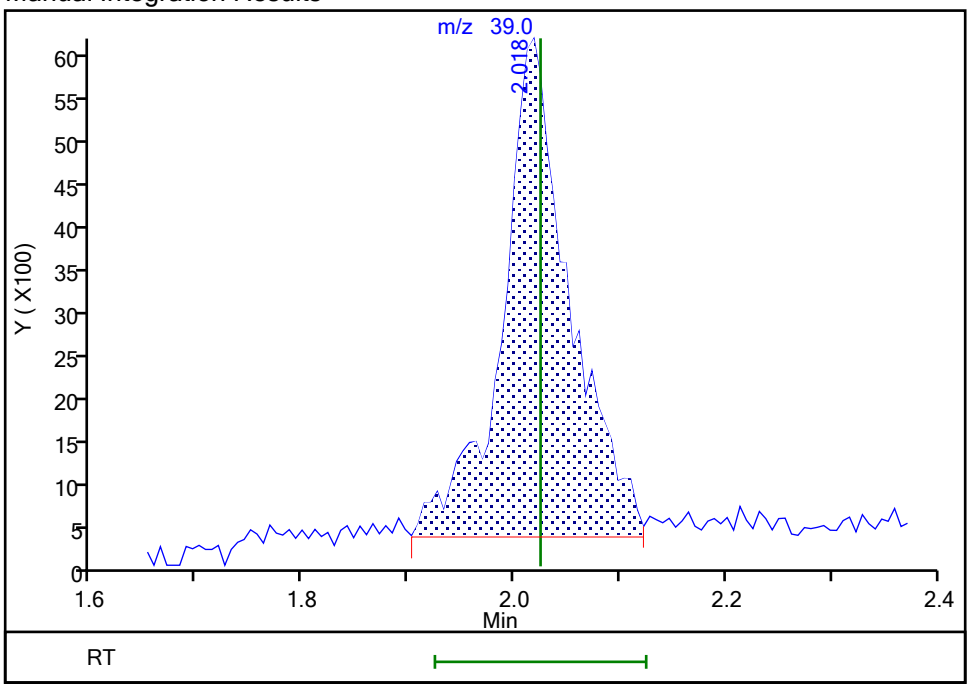
Processing Integration Results

RT: 2.02
Area: 15526
Amount: 0.165390
Amount Units: ug/l



Manual Integration Results

RT: 2.02
Area: 26306
Amount: 0.258981
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:54:33 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

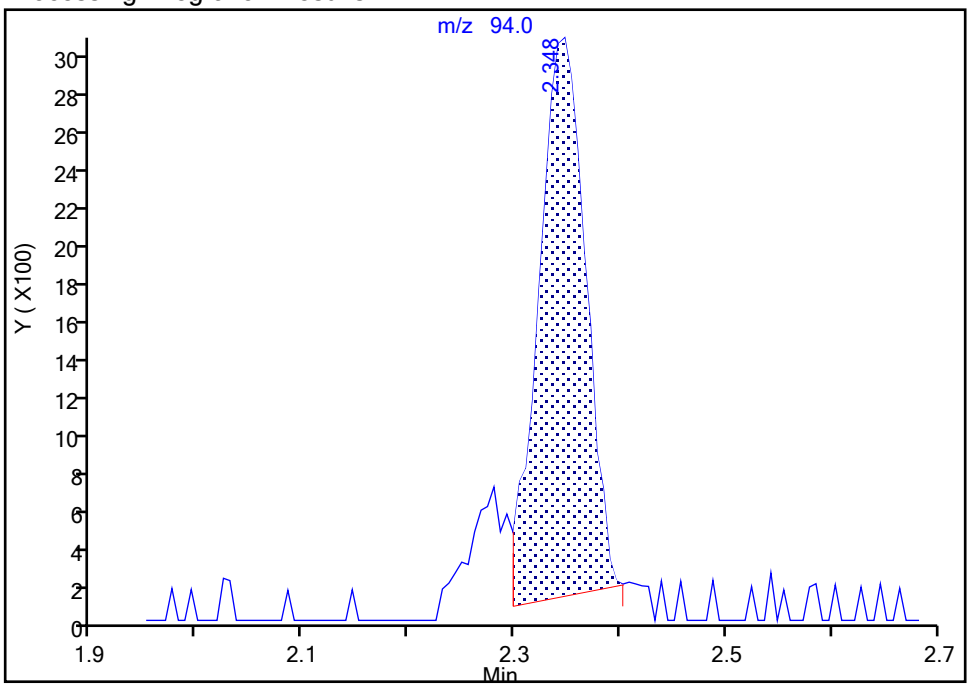
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

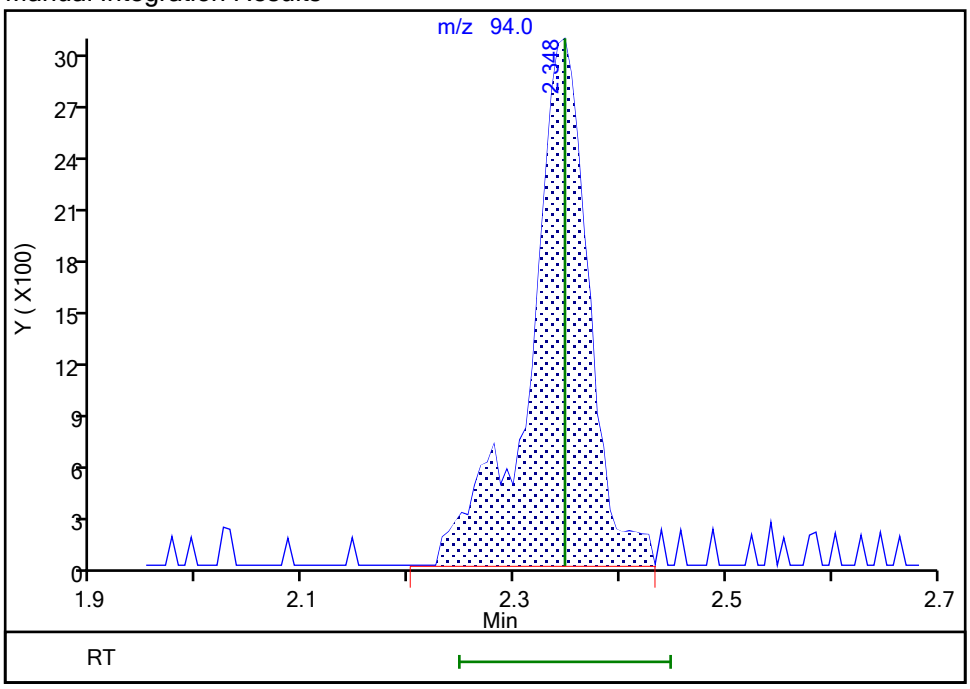
Processing Integration Results

RT: 2.35
Area: 8864
Amount: 0.185192
Amount Units: ug/l



Manual Integration Results

RT: 2.35
Area: 11642
Amount: 0.233550
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:54:39 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

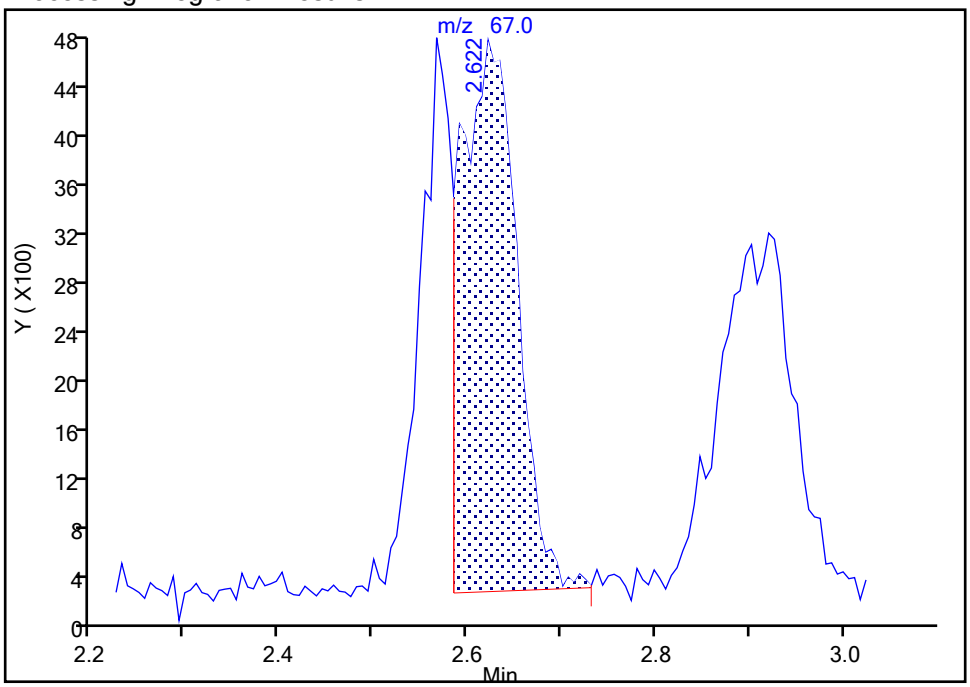
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

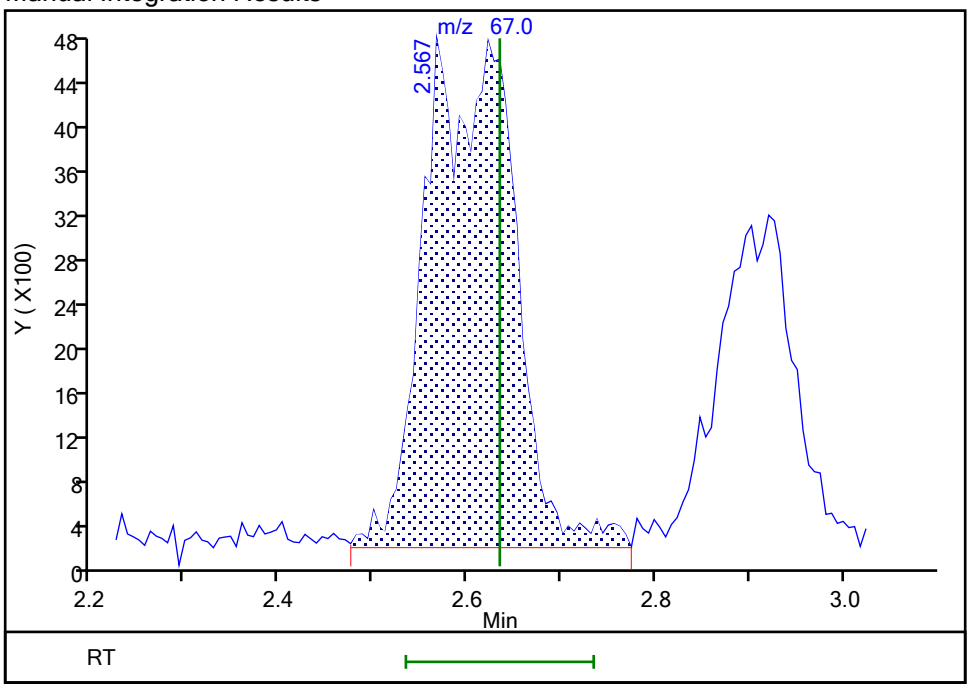
Processing Integration Results

RT: 2.62
Area: 18898
Amount: 0.158086
Amount Units: ug/l



Manual Integration Results

RT: 2.57
Area: 30223
Amount: 0.236798
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:55:02 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

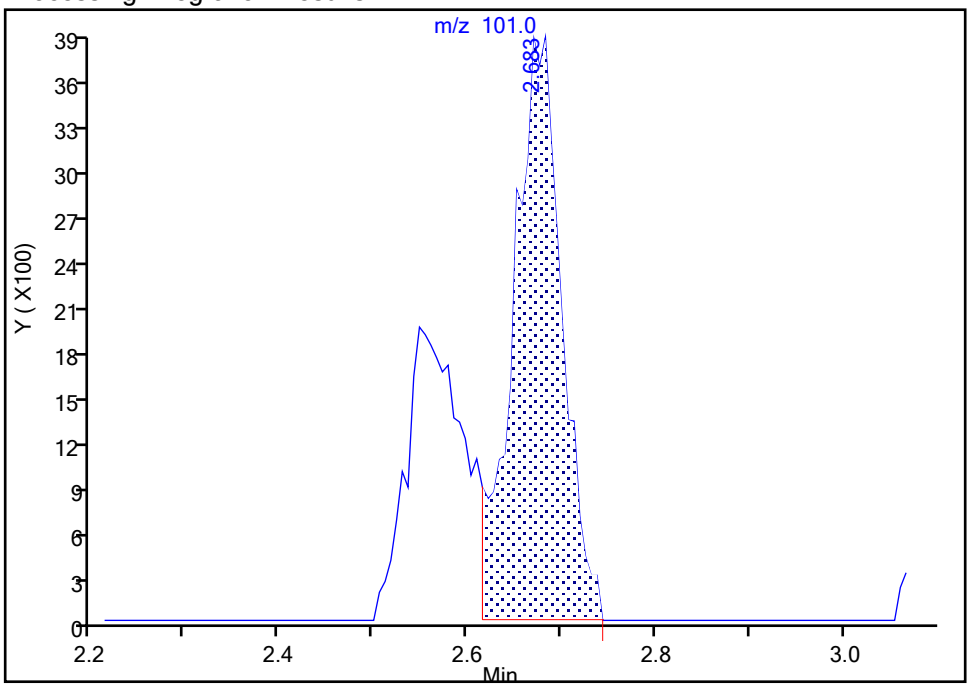
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

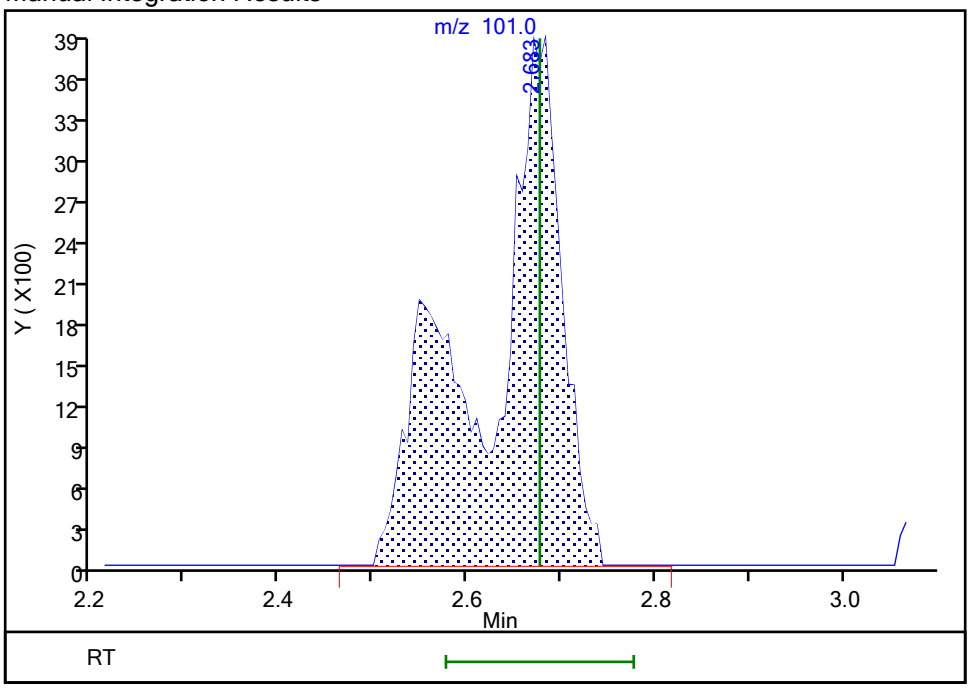
Processing Integration Results

RT: 2.68
Area: 13964
Amount: 0.150102
Amount Units: ug/l



Manual Integration Results

RT: 2.68
Area: 21831
Amount: 0.221335
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:55:07 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

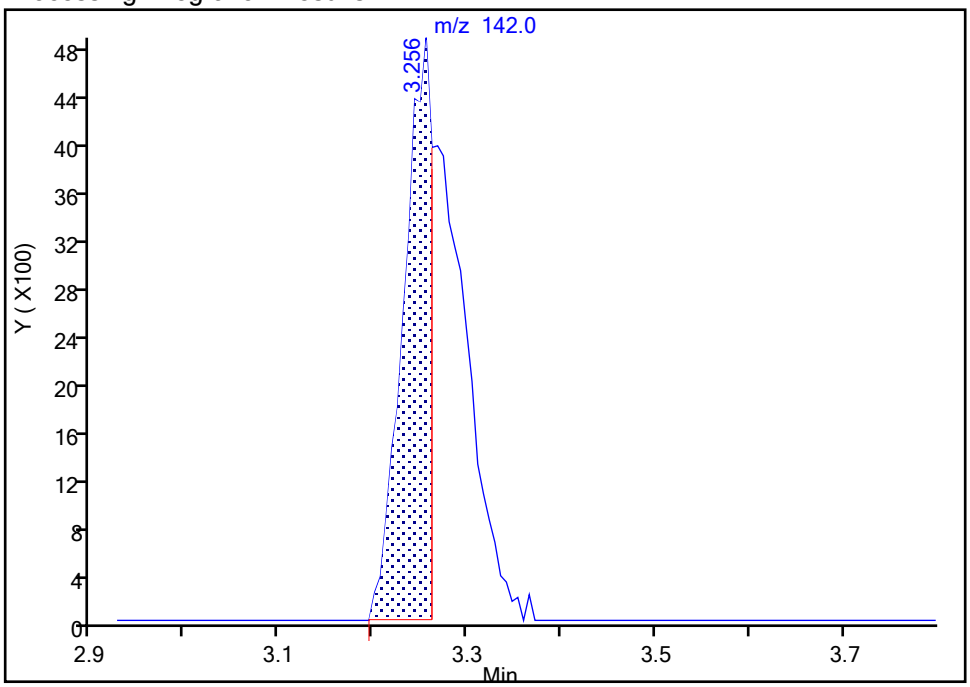
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

22 Iodomethane, CAS: 74-88-4

Signal: 1

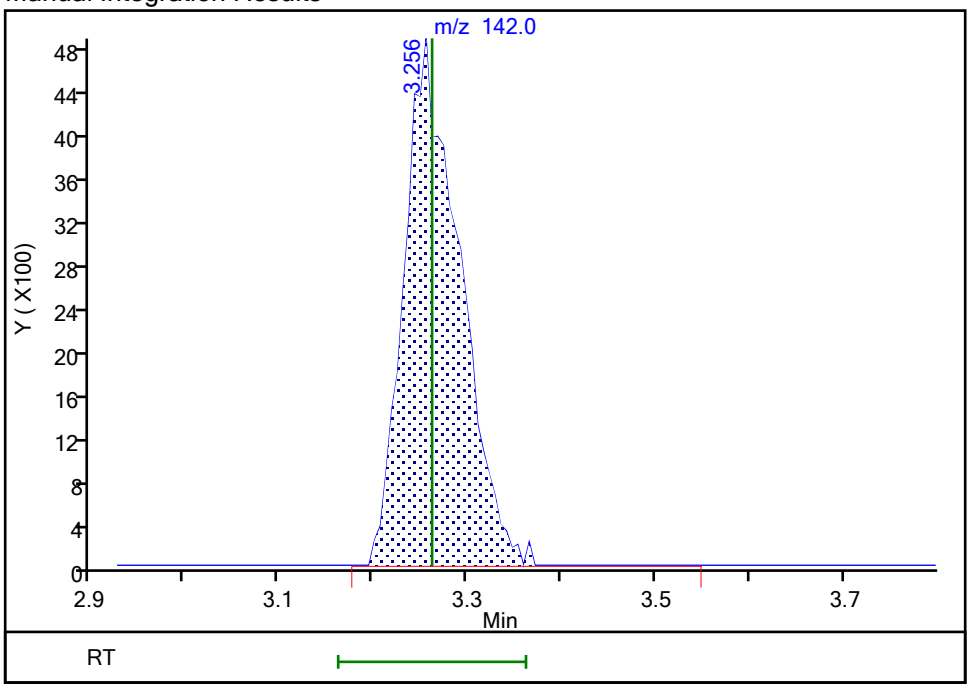
Processing Integration Results

RT: 3.26
Area: 10297
Amount: 0.160500
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 20144
Amount: 0.203613
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:55:40 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

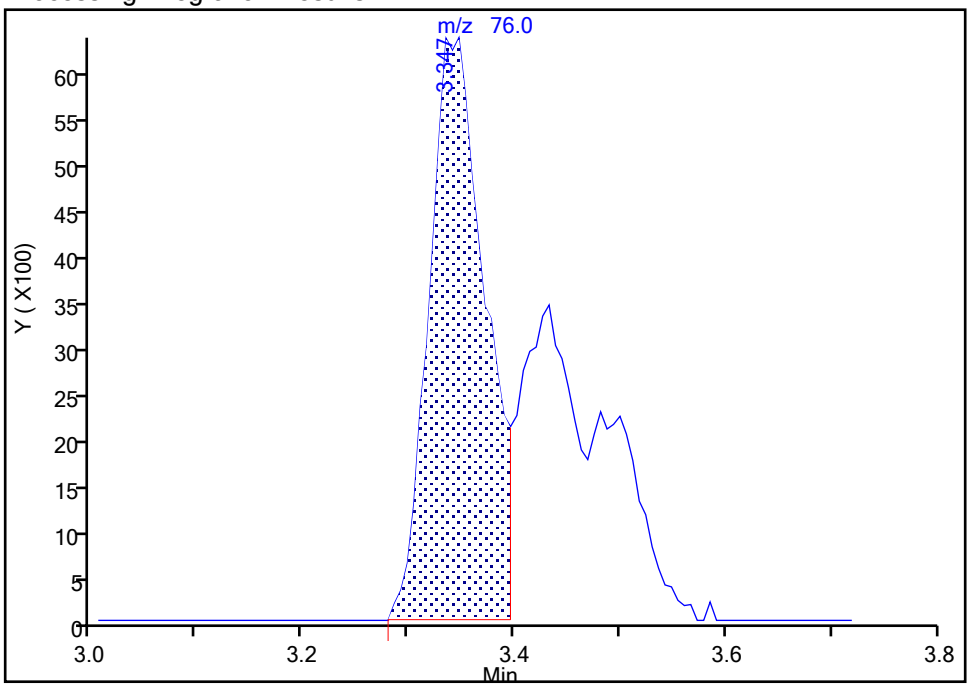
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

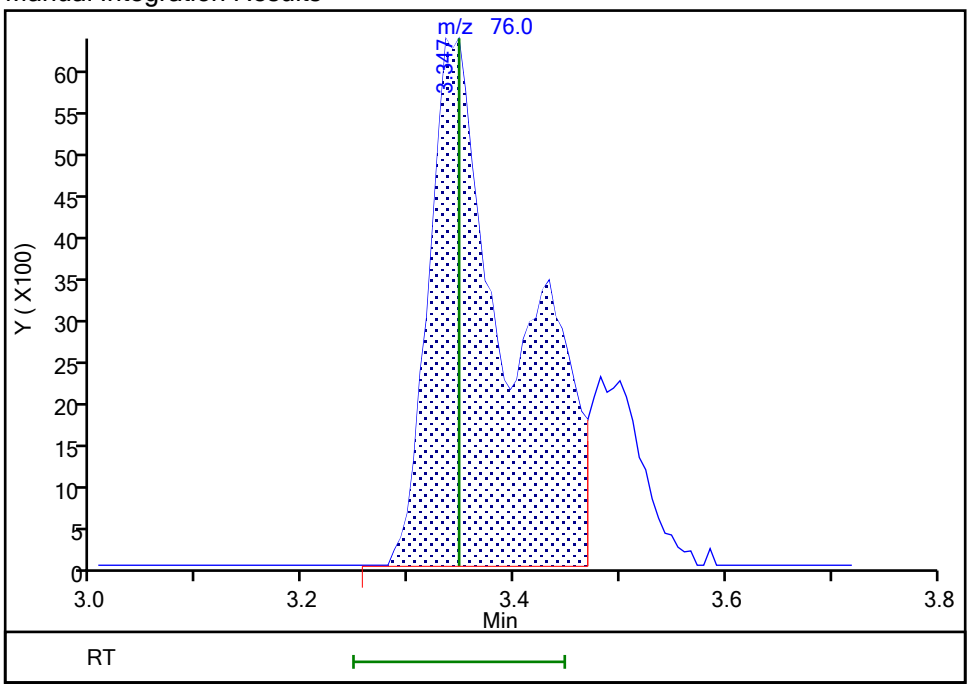
Processing Integration Results

RT: 3.35
Area: 23713
Amount: 0.138698
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 35375
Amount: 0.197435
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:15:41 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

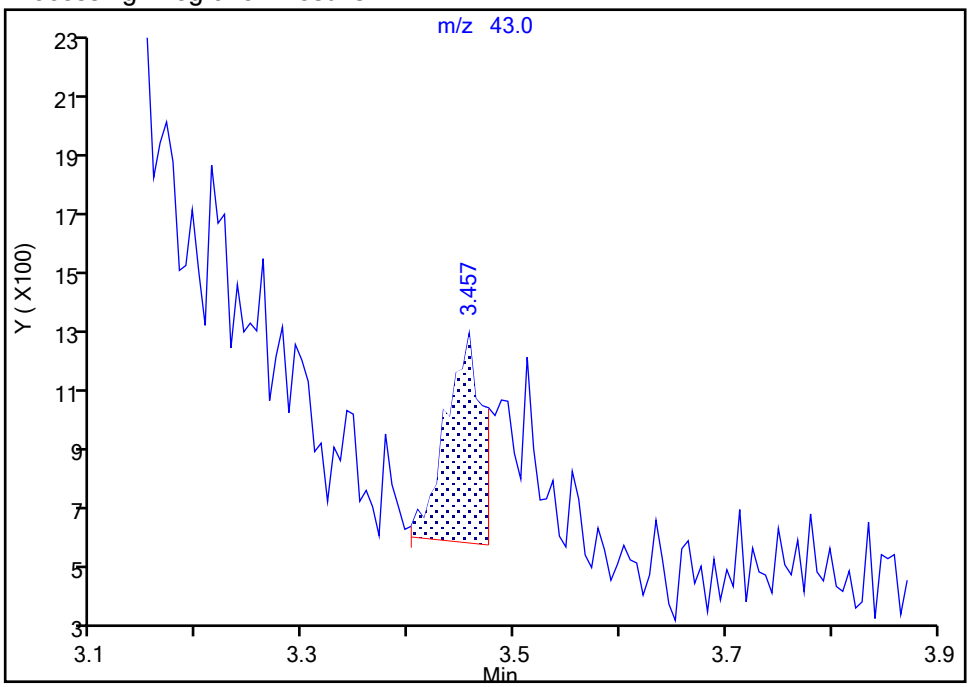
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

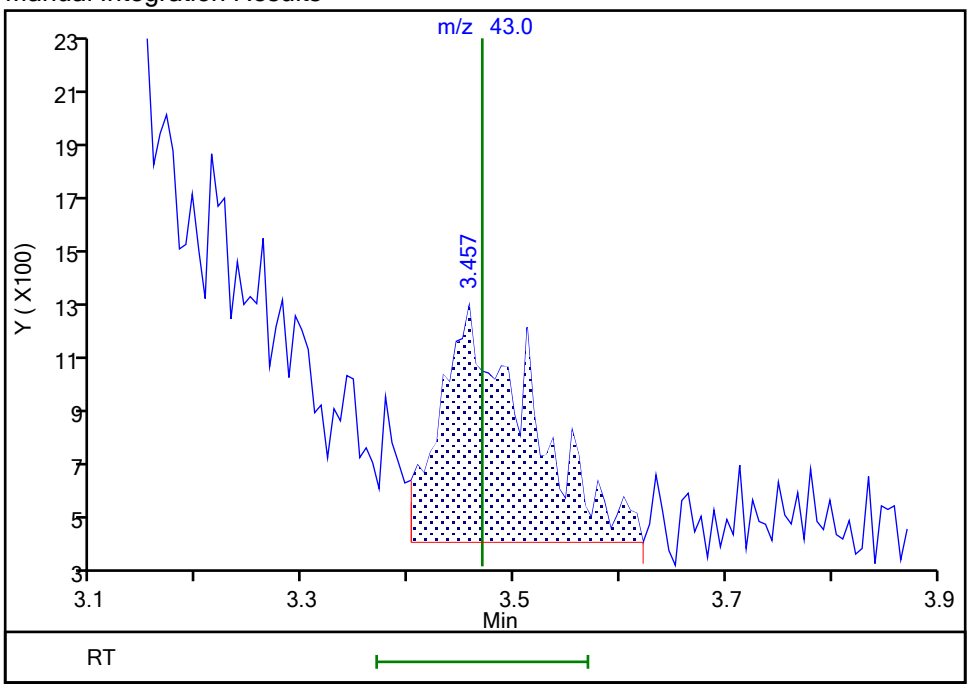
Processing Integration Results

RT: 3.46
Area: 1635
Amount: 0.143503
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 5090
Amount: 0.226652
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:56:08 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

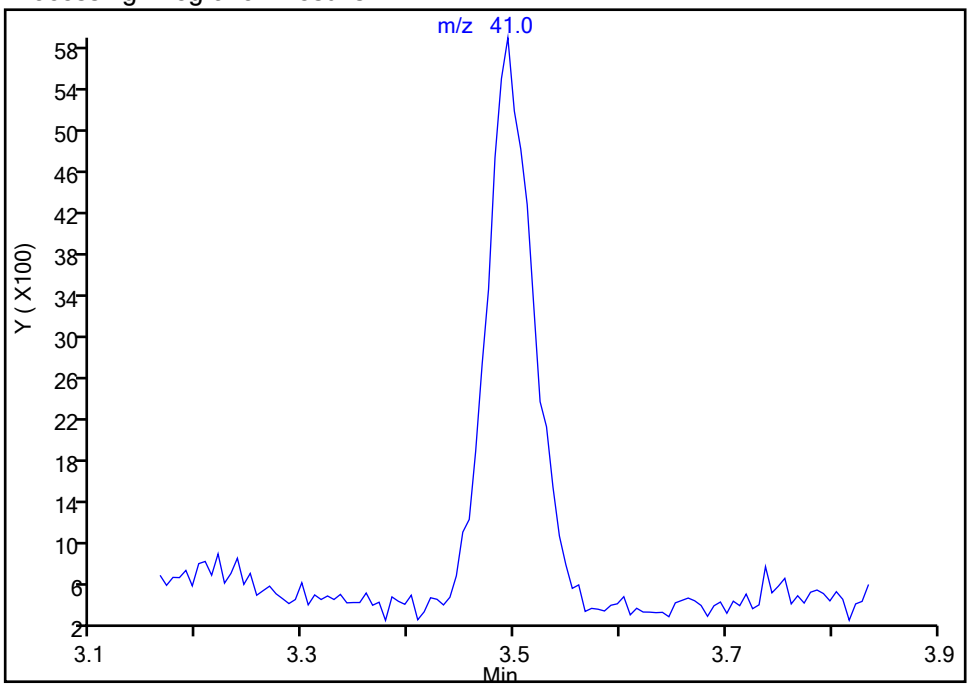
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

29 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

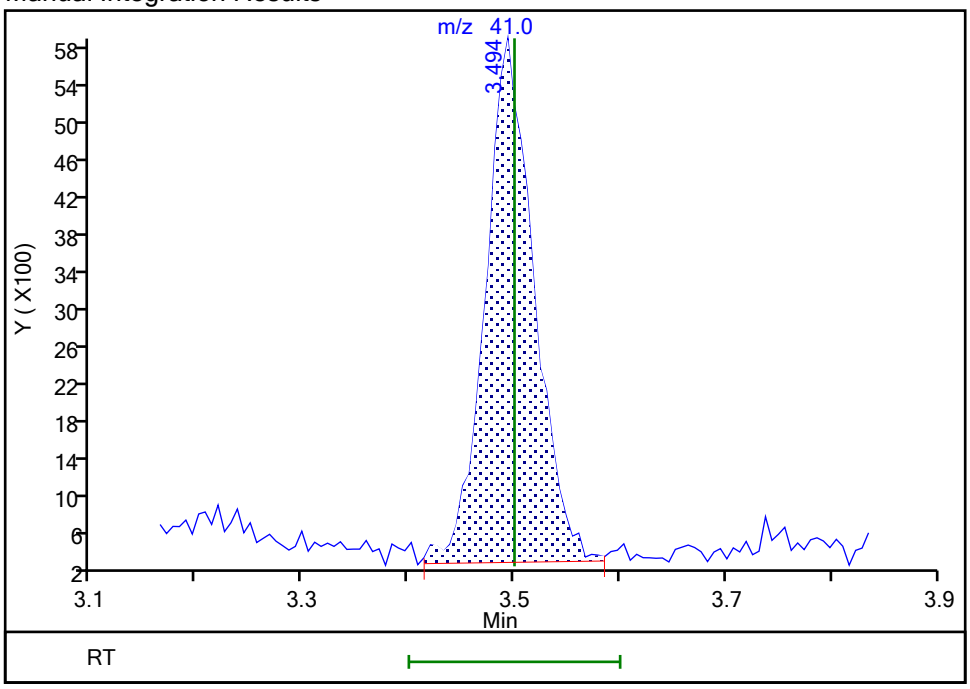
Not Detected
Expected RT: 3.50

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 17856
Amount: 0.195060
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:56:10 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

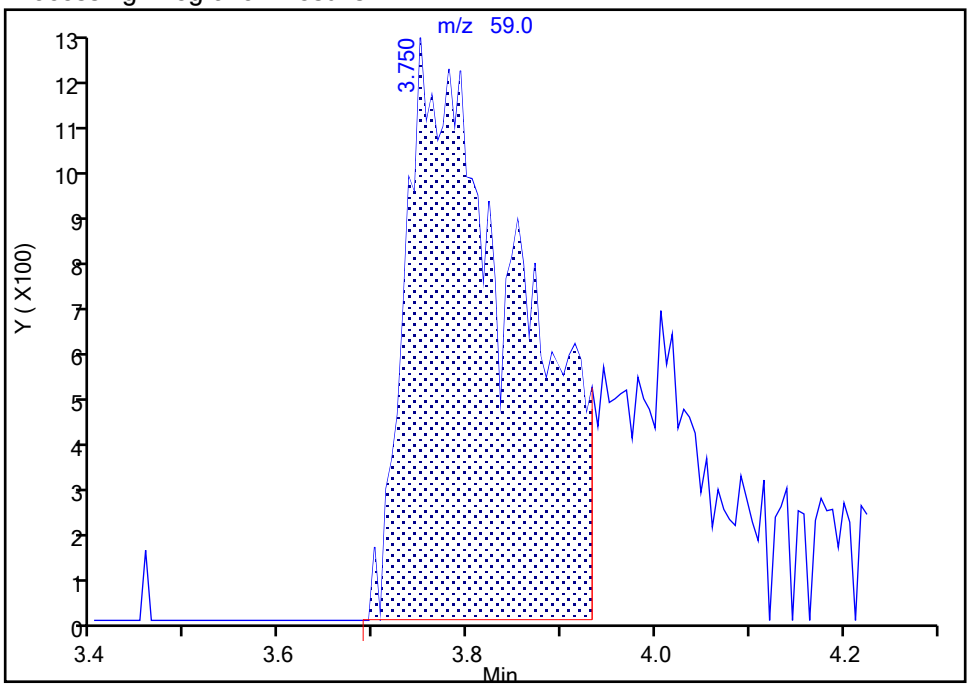
Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D
Injection Date: 04-Jun-2025 21:06:30 Instrument ID: 10193
Lims ID: IC std1 0.2
Client ID:
Operator ID: knk41612 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

32 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

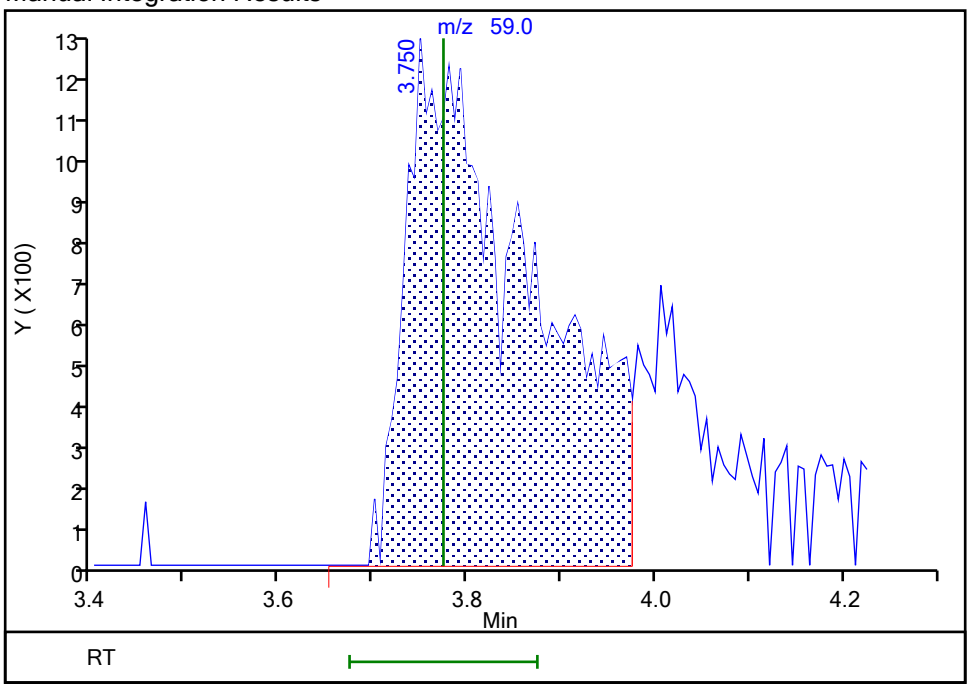
Processing Integration Results

RT: 3.75
Area: 10479
Amount: 3.895742
Amount Units: ug/l



Manual Integration Results

RT: 3.75
Area: 11696
Amount: 4.465904
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:13:55 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

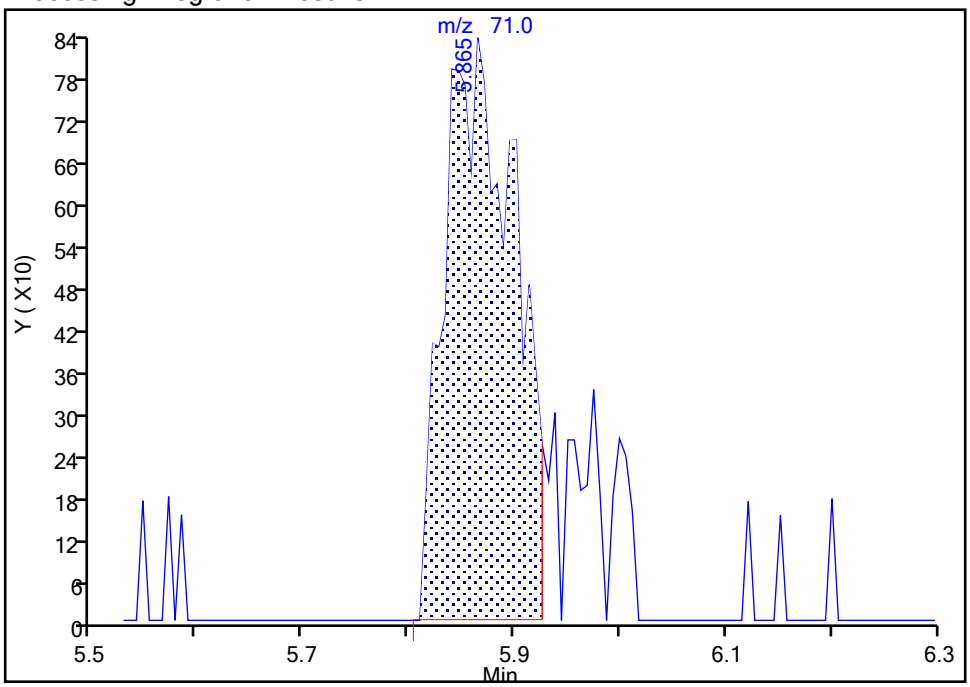
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

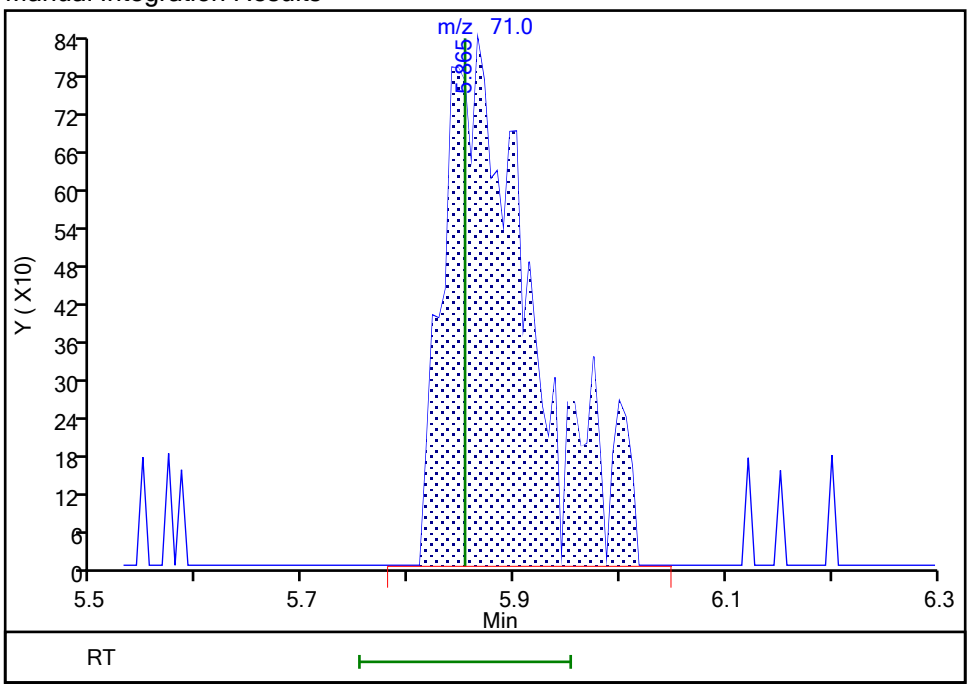
Processing Integration Results

RT: 5.87
Area: 3862
Amount: 0.875942
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 4860
Amount: 1.067770
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:57:23 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

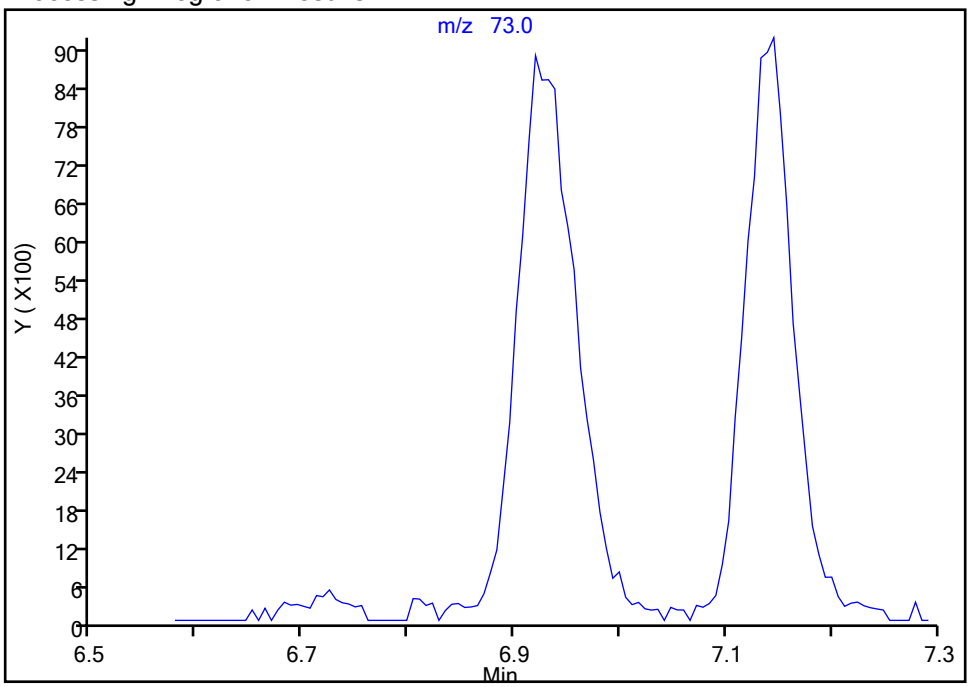
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

64 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

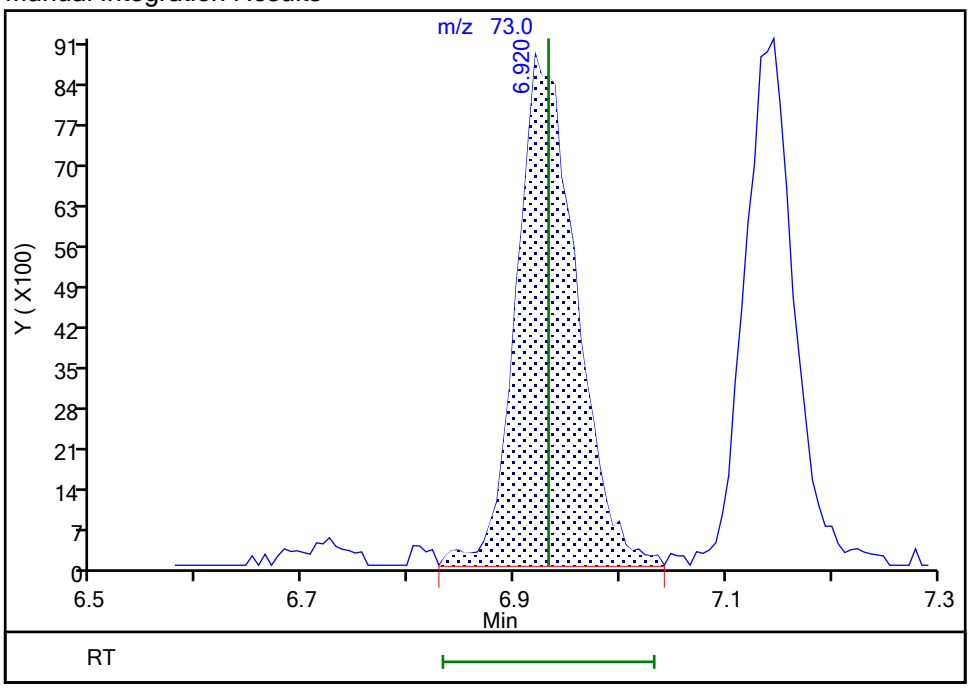
Not Detected
Expected RT: 6.93

Processing Integration Results



Manual Integration Results

RT: 6.92
Area: 34686
Amount: 0.195072
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:57:35 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

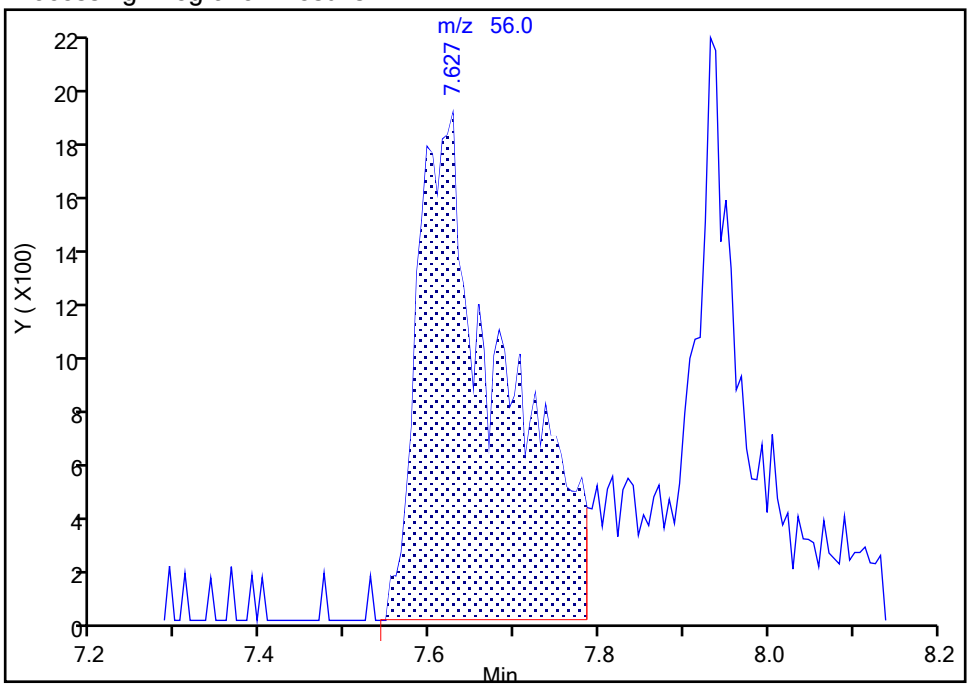
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

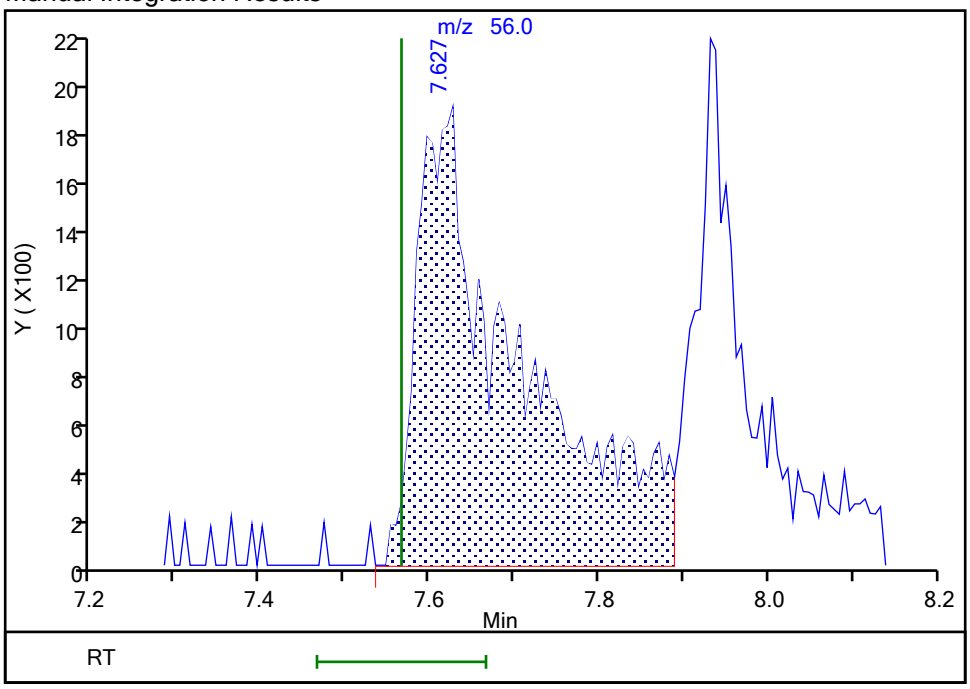
Processing Integration Results

RT: 7.63
Area: 13020
Amount: 13.238414
Amount Units: ug/l



Manual Integration Results

RT: 7.63
Area: 15631
Amount: 15.556085
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:57:53 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

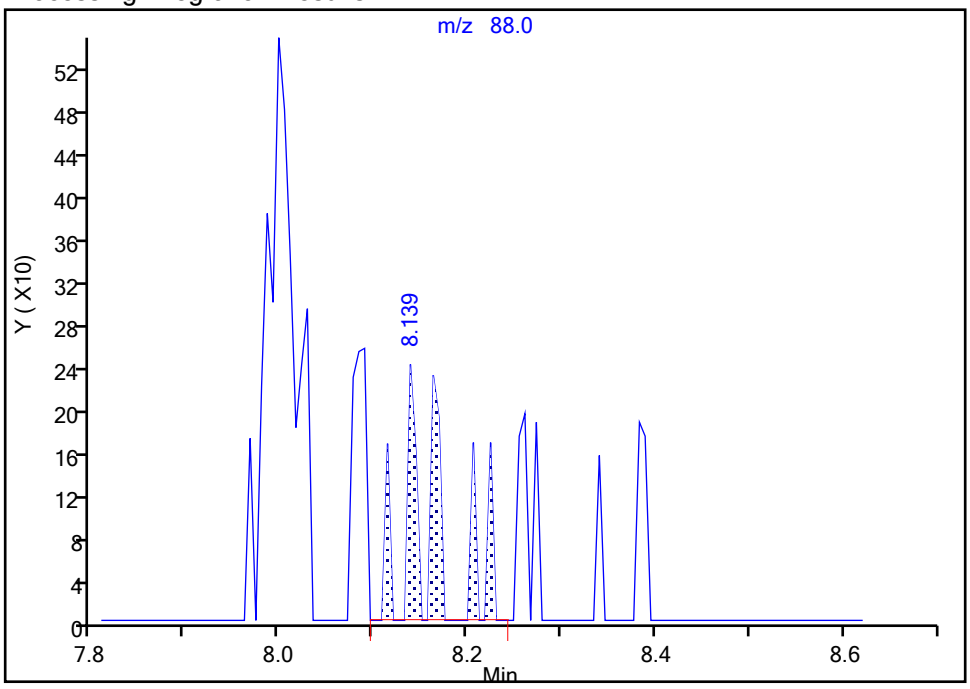
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X12.D				
Injection Date:	04-Jun-2025 21:06:30	Instrument ID:	10193		
Lims ID:	IC std1 0.2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

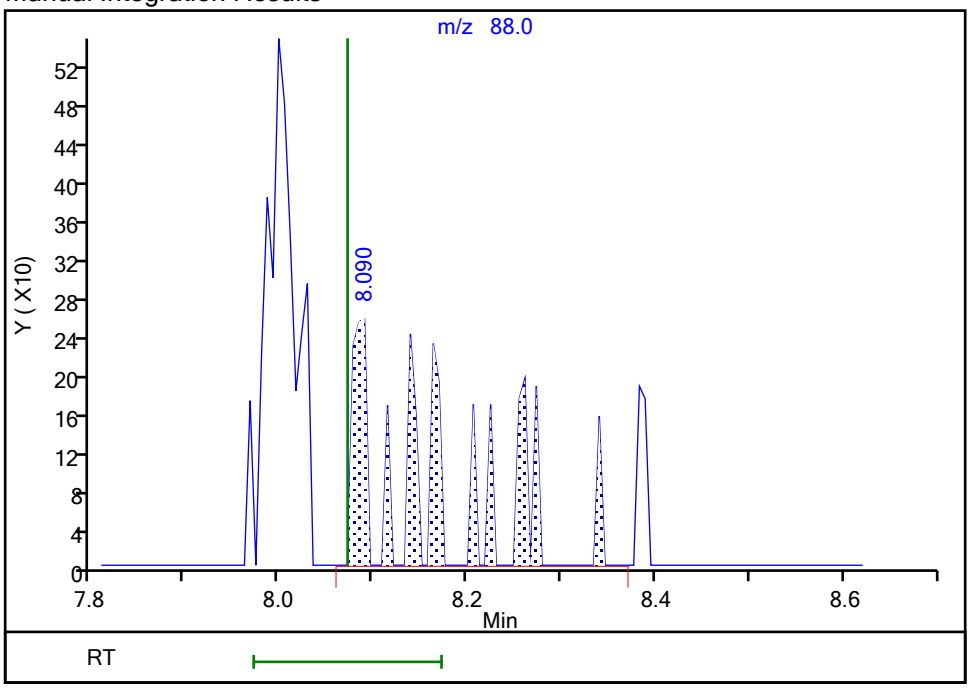
Processing Integration Results

RT: 8.14
Area: 478
Amount: 5.926297
Amount Units: ug/l



Manual Integration Results

RT: 8.09
Area: 1004
Amount: 4.047480
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:57:59 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D
Lims ID: IC std2 0.5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 04-Jun-2025 21:28:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-014
Misc. Info.: IC STD.5 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 10:40:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.762	1.762	0.000	34	36639	0.5000	0.5027	
5 Chloromethane	50	1.945	1.945	0.000	99	44518	0.5000	0.5149	
7 Butadiene	39	2.025	2.025	0.000	86	56745	0.5000	0.5701	M
6 Vinyl chloride	62	2.049	2.043	0.006	98	37886	0.5000	0.4958	
9 Bromomethane	94	2.354	2.348	0.006	90	24105	0.5000	0.4935	M
10 Chloroethane	64	2.372	2.372	0.000	99	22164	0.5000	0.5117	
11 Dichlorofluoromethane	67	2.646	2.634	0.012	93	60141	0.5000	0.4809	M
13 Pentane	43	2.646	2.646	0.000	94	48069	0.5000	0.5720	
12 Trichlorofluoromethane	101	2.689	2.677	0.012	96	48159	0.5000	0.4983	
14 Ethyl ether	59	2.835	2.823	0.012	93	22436	0.5002	0.4871	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.915	2.927	-0.012	91	33545	0.5000	0.4965	
17 Acrolein	56	2.982	2.970	0.012	100	182054	24.4	28.8	
18 1,1-Dichloroethene	96	3.097	3.098	-0.001	98	26733	0.5000	0.5610	
20 Acetone	43	3.122	3.116	0.006	91	46805	5.00	5.67	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.146	3.140	0.006	91	28216	0.5000	0.5701	
24 Isopropyl alcohol	45	3.274	3.250	0.024	35	19835	10.0	12.6	M
22 Iodomethane	142	3.262	3.262	0.000	100	53929	0.5000	0.5563	
23 Ethyl bromide	108	3.280	3.280	0.000	95	22703	0.4995	0.4970	
25 Carbon disulfide	76	3.354	3.347	0.007	99	96559	0.5000	0.5500	M
26 Methyl acetate	43	3.500	3.469	0.031	34	12278	0.5000	0.5520	
29 3-Chloro-1-propene	41	3.500	3.500	0.000	87	48948	0.5000	0.5457	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.652	0.012	94	174580	50.0	50.0	
30 Methylene Chloride	84	3.671	3.658	0.013	93	32383	0.5000	0.5631	
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	98	29554	10.0	11.4	M
33 Acrylonitrile	53	3.981	3.957	0.024	97	18145	1.25	1.50	
34 Methyl tert-butyl ether	73	4.018	4.018	0.000	91	90870	0.5000	0.5577	
35 trans-1,2-Dichloroethene	96	4.024	4.018	0.006	97	31672	0.5000	0.5389	
36 Hexane	57	4.414	4.414	0.000	93	46021	0.5000	0.5752	
37 1,1-Dichloroethane	63	4.658	4.658	0.000	96	57414	0.5000	0.5365	
39 Isopropyl ether	45	4.737	4.725	0.012	94	108151	0.5000	0.5465	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.780	4.768	0.012	92	51648	0.5000	0.5471	
41 Tert-butyl ethyl ether	59	5.280	5.274	0.006	97	104459	0.5000	0.5361	
42 2-Butanone (MEK)	43	5.493	5.475	0.018	100	87186	5.00	5.50	
43 cis-1,2-Dichloroethene	96	5.524	5.512	0.012	83	37064	0.5000	0.5474	
44 2,2-Dichloropropane	77	5.524	5.530	-0.006	75	47596	0.5000	0.5664	
45 Propionitrile	54	5.597	5.573	0.024	96	47161	10.0	11.0	
47 Methacrylonitrile	67	5.810	5.798	0.012	92	85178	5.00	5.55	
48 Chlorobromomethane	128	5.865	5.853	0.012	91	17134	0.5000	0.5669	a
49 Tetrahydrofuran	71	5.859	5.853	0.006	71	13373	2.50	2.97	M
50 Chloroform	83	6.024	6.012	0.012	95	59315	0.5000	0.5459	
S 52 1,2-Dichloroethene, Total	100				0			1.09	
$ 54 Dibromofluoromethane (Surr)	113	6.237	6.231	0.006	93	529654	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.237	6.231	0.006	40	51613	0.5000	0.5423	
55 Cyclohexane	56	6.335	6.329	0.006	92	56567	0.5000	0.5591	
56 Carbon tetrachloride	117	6.450	6.444	0.006	96	44236	0.5000	0.5455	
57 1,1-Dichloropropene	75	6.457	6.457	0.000	94	48086	0.5000	0.5630	
58 Isobutyl alcohol	41	6.664	6.652	0.012	92	29650	25.0	28.1	M
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.700	6.694	0.006	99	113484	10.0	10.4	
60 Benzene	78	6.725	6.725	0.000	96	138487	0.5000	0.5439	
61 1,2-Dichloroethane	62	6.798	6.798	0.000	87	39279	0.5000	0.5640	
64 Tert-amyl methyl ether	73	6.932	6.932	0.000	98	94606	0.5000	0.5430	
* 65 Fluorobenzene (IS)	96	7.145	7.139	0.006	99	2238774	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	38	43824	0.5000	0.5559	
67 n-Butanol	56	7.597	7.566	0.031	92	40500	43.8	40.7	
68 Trichloroethene	95	7.639	7.633	0.006	99	36985	0.5000	0.5489	
69 Methylcyclohexane	83	7.944	7.938	0.006	93	60861	0.5000	0.5621	
70 1,2-Dichloropropane	63	7.968	7.975	-0.007	96	35654	0.5000	0.5472	
71 2-ethoxy-2-methyl butane	87	7.999	8.005	-0.006	90	53988	0.5000	0.5289	
74 1,4-Dioxane	88	8.096	8.072	0.024	29	6307	25.0	25.7	M
73 Methyl methacrylate	69	8.090	8.084	0.006	87	18128	0.5000	0.5732	
72 Dibromomethane	93	8.090	8.084	0.006	93	17242	0.5000	0.5351	
76 Dichlorobromomethane	83	8.334	8.334	0.000	99	41926	0.5000	0.5280	
77 2-Nitropropane	41	8.621	8.621	0.000	99	26697	2.50	2.61	
78 1-Bromo-2-chloroethane	63	8.737	8.731	0.006	99	30753	0.5000	0.4819	
80 cis-1,3-Dichloropropene	75	8.913	8.907	0.006	95	51547	0.5000	0.5273	
82 4-Methyl-2-pentanone (MIBK)	43	9.121	9.115	0.006	97	223633	5.00	5.32	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2235974	10.0	9.96	
84 Toluene	92	9.334	9.328	0.006	98	89270	0.5000	0.5378	
85 trans-1,3-Dichloropropene	75	9.633	9.627	0.006	94	44145	0.5000	0.5257	
86 Ethyl methacrylate	69	9.712	9.706	0.006	88	37206	0.5000	0.5114	
87 1,1,2-Trichloroethane	97	9.846	9.846	0.000	90	25560	0.5000	0.5367	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	43177	0.5000	0.5603	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	93	43165	0.5000	0.5348	
S 107 1,3-Dichloropropene, Total	100				0			1.05	
106 2-Hexanone	43	10.096	10.090	0.006	97	159634	5.00	5.31	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	30414	0.5000	0.5233	
110 Ethylene Dibromide	107	10.352	10.352	0.000	99	24466	0.5000	0.5303	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.815	0.000	86	1709468	10.0	10.0	
112 1-Chlorohexane	91	10.840	10.834	0.006	92	52561	0.5000	0.5642	
113 Chlorobenzene	112	10.840	10.840	0.000	95	103211	0.5000	0.5432	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	95	34106	0.5000	0.5274	
115 Ethylbenzene	91	10.937	10.937	0.000	98	178871	0.5000	0.5417	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	96	135488	1.00	1.06	
S 117 Xylenes, Total	106				0			1.59	
118 o-Xylene	106	11.407	11.401	0.006	96	67921	0.5000	0.5369	
119 Styrene	104	11.425	11.419	0.006	96	109797	0.5000	0.5218	
120 Bromoform	173	11.578	11.578	0.000	95	16294	0.5000	0.4814	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	156315	0.5000	0.5364	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	91	831439	10.0	9.81	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	69	30206	0.5000	0.5290	
125 Bromobenzene	156	11.980	11.980	0.000	92	44707	0.5000	0.5573	
127 trans-1,4-Dichloro-2-butene	53	12.010	12.004	0.006	93	67428	5.00	4.93	
128 1,2,3-Trichloropropane	110	12.023	12.023	0.000	81	8512	0.5000	0.5439	
129 N-Propylbenzene	91	12.059	12.059	0.000	98	201935	0.5000	0.5416	
130 2-Chlorotoluene	126	12.132	12.132	0.000	97	42598	0.5000	0.5558	
131 1,3,5-Trimethylbenzene	105	12.205	12.199	0.006	93	147909	0.5000	0.5483	
132 4-Chlorotoluene	126	12.230	12.230	0.000	98	44548	0.5000	0.5604	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	33953	0.5000	0.5485	
134 Pentachloroethane	167	12.474	12.474	0.000	91	22482	0.5000	0.4726	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	149776	0.5000	0.5403	
136 sec-Butylbenzene	105	12.614	12.614	0.000	95	189963	0.5000	0.5516	
137 1,3-Dichlorobenzene	146	12.718	12.712	0.006	98	83293	0.5000	0.5414	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	167243	0.5000	0.5557	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.772	0.000	95	903799	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.791	12.785	0.006	96	89506	0.5000	0.5573	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	98	67632	0.5000	0.5399	
142 Benzyl chloride	126	12.876	12.870	0.006	99	10271	0.5000	0.5123	
145 p-Diethylbenzene	119	13.010	13.004	0.006	94	97219	0.5000	0.5337	
143 n-Butylbenzene	92	13.028	13.029	0.000	97	78339	0.5000	0.5399	
144 1,2-Dichlorobenzene	146	13.059	13.053	0.006	99	74720	0.5000	0.5323	
148 1,2-Dibromo-3-Chloropropane	155	13.614	13.608	0.006	83	3958	0.5000	0.5192	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	55932	0.5000	0.5186	
150 1,2,4-Trichlorobenzene	180	14.168	14.169	-0.001	94	39754	0.5000	0.4879	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	24592	0.5000	0.5398	
152 Naphthalene	128	14.351	14.345	0.006	97	61647	0.5000	0.4629	
153 1,2,3-Trichlorobenzene	180	14.498	14.492	0.006	96	30876	0.5000	0.4892	
154 2-Methylnaphthalene	142	15.107	15.101	0.006	93	17829	0.5000	0.7364	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00168	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jun-2025 09:18:22 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D

Injection Date: 04-Jun-2025 21:28:30 Instrument ID: 10193 Operator ID: knk41612

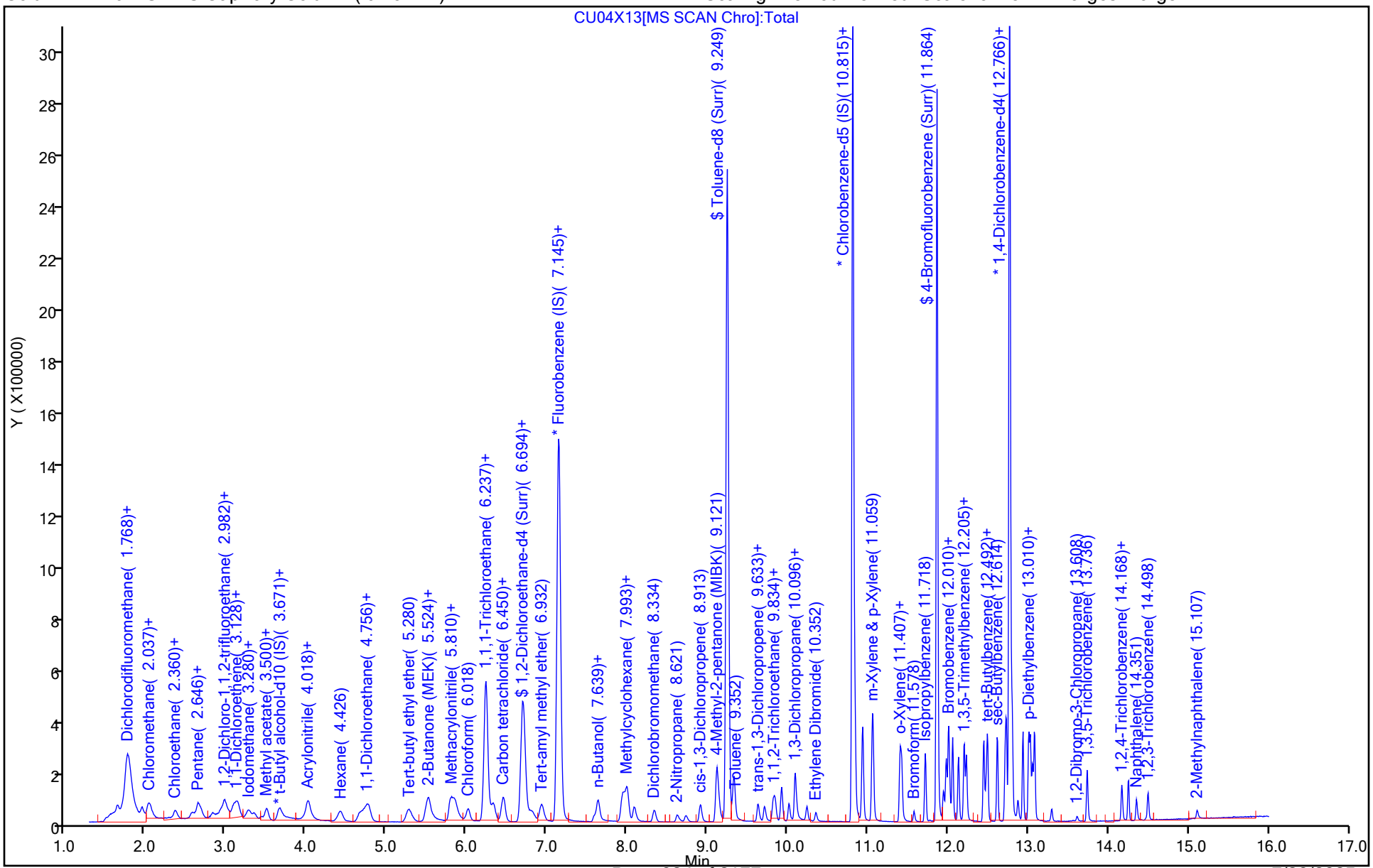
Lims ID: IC std2 0.5 Worklist Smp#: 14

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 13

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

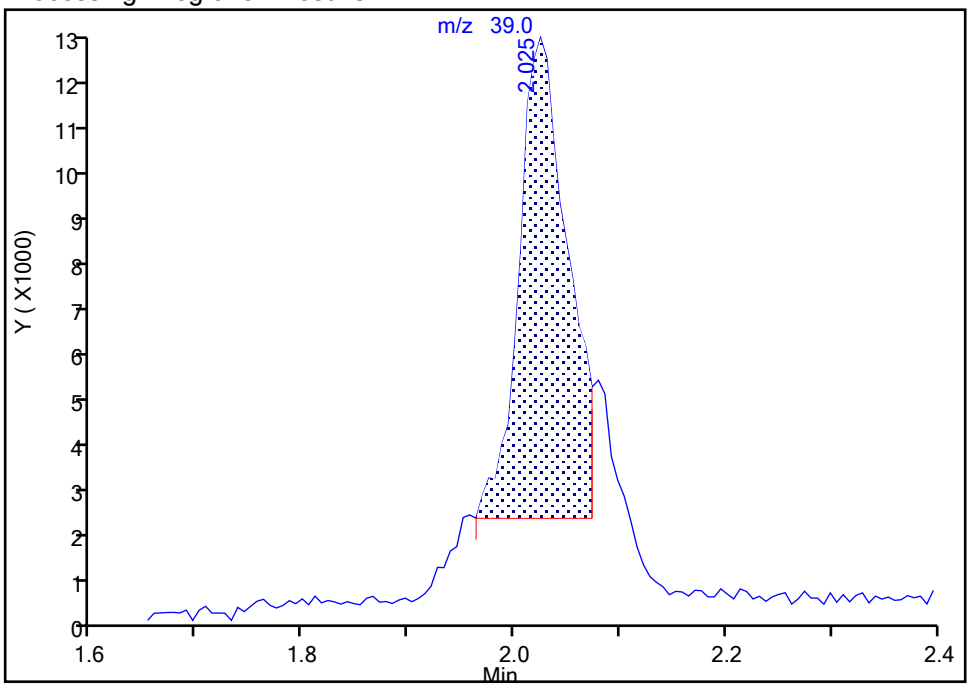
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

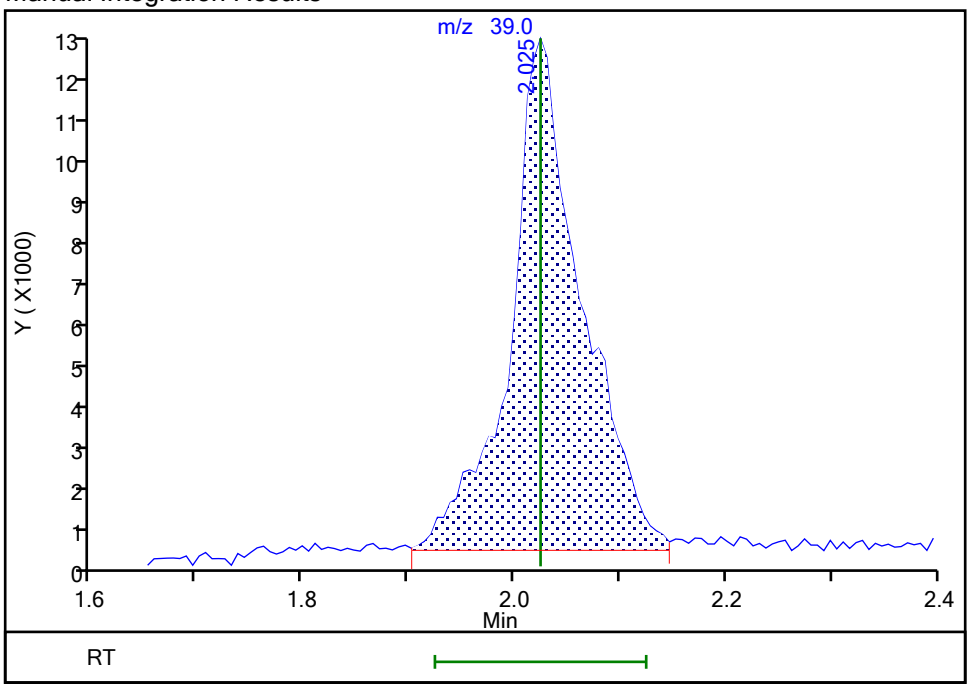
Processing Integration Results

RT: 2.02
Area: 33012
Amount: 0.387458
Amount Units: ug/l



Manual Integration Results

RT: 2.02
Area: 56745
Amount: 0.570146
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:52:34 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

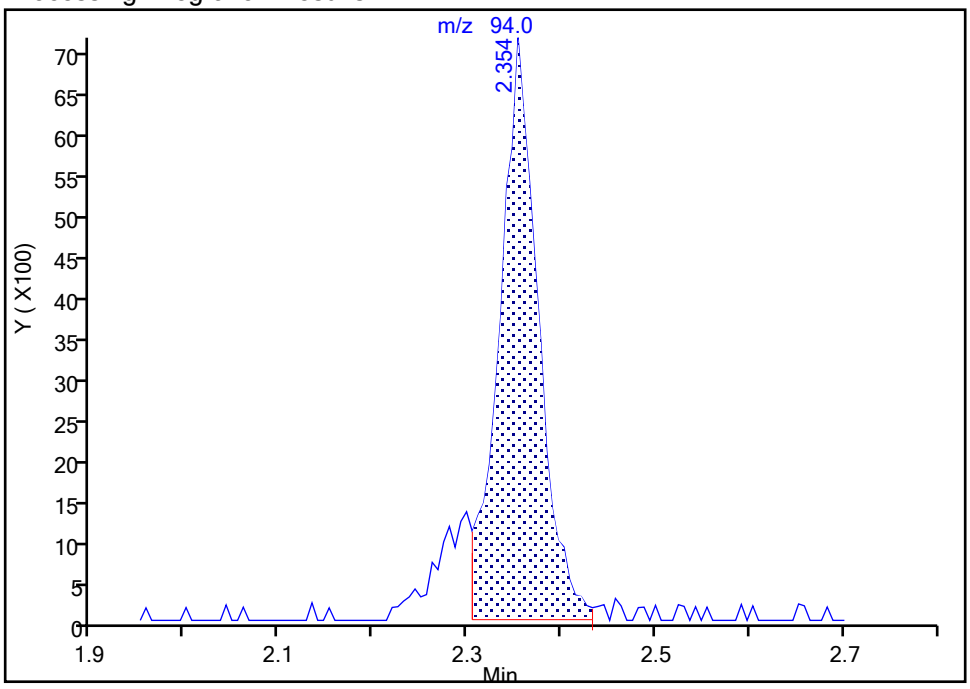
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

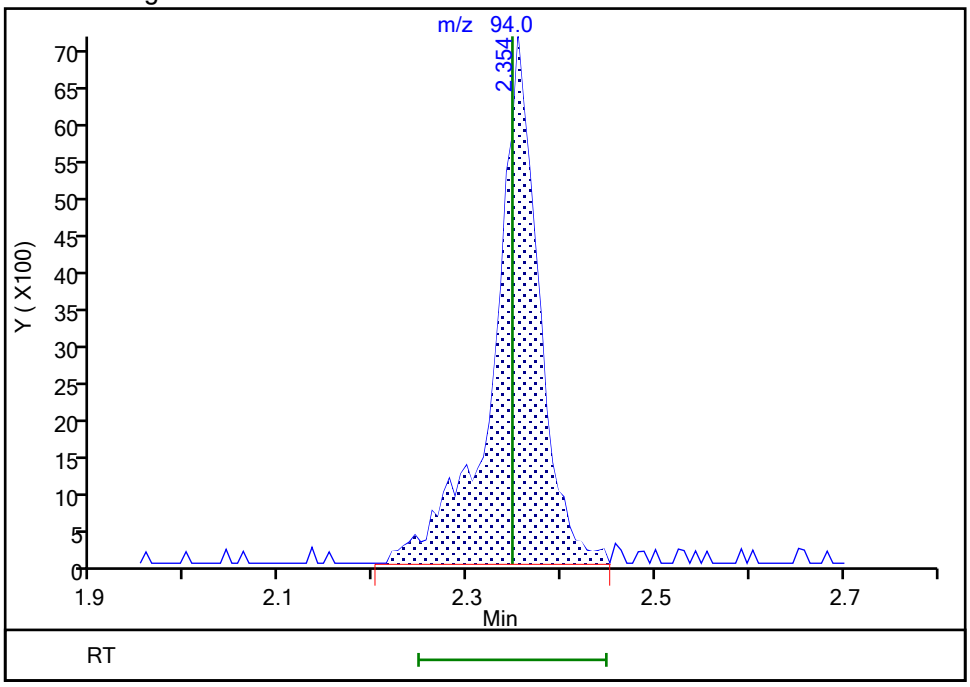
Processing Integration Results

RT: 2.35
Area: 20769
Amount: 0.452035
Amount Units: ug/l



Manual Integration Results

RT: 2.35
Area: 24105
Amount: 0.493520
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:52:40 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

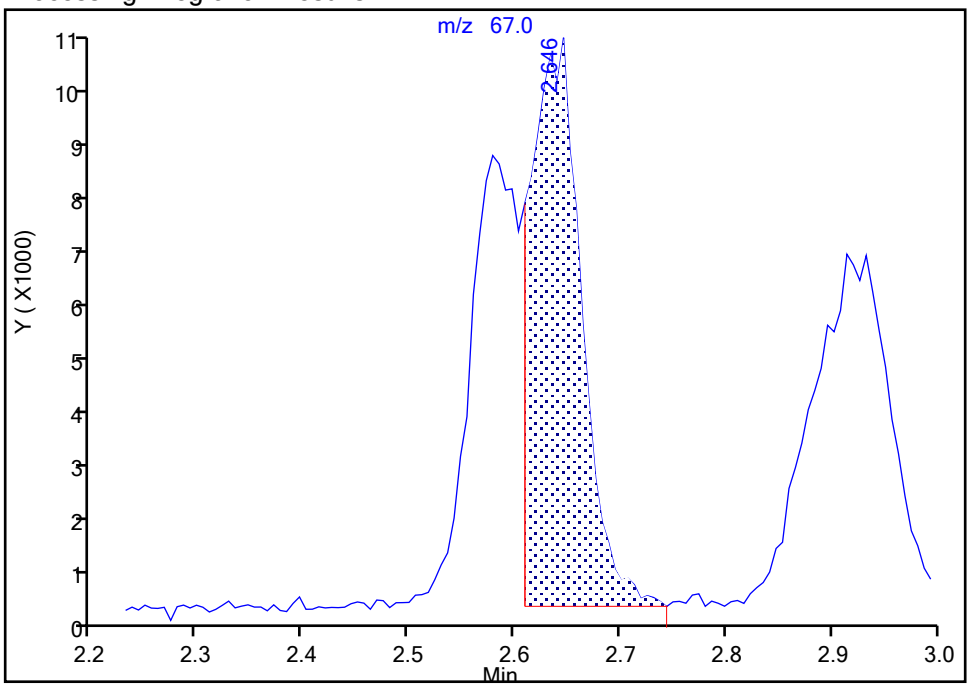
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

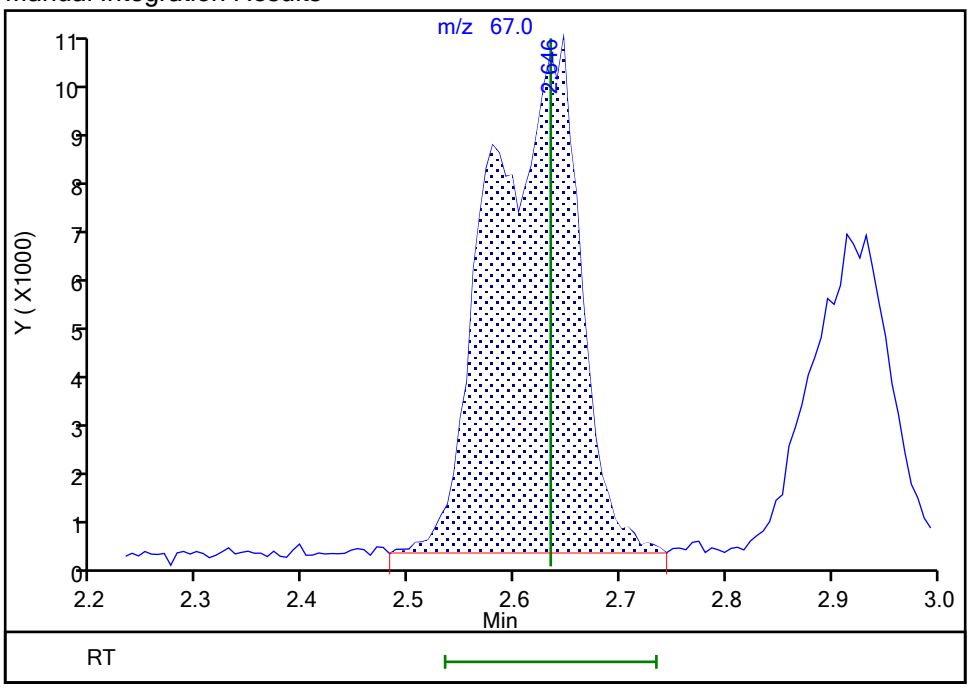
Processing Integration Results

RT: 2.65
Area: 34743
Amount: 0.357039
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 60141
Amount: 0.480902
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:52:44 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

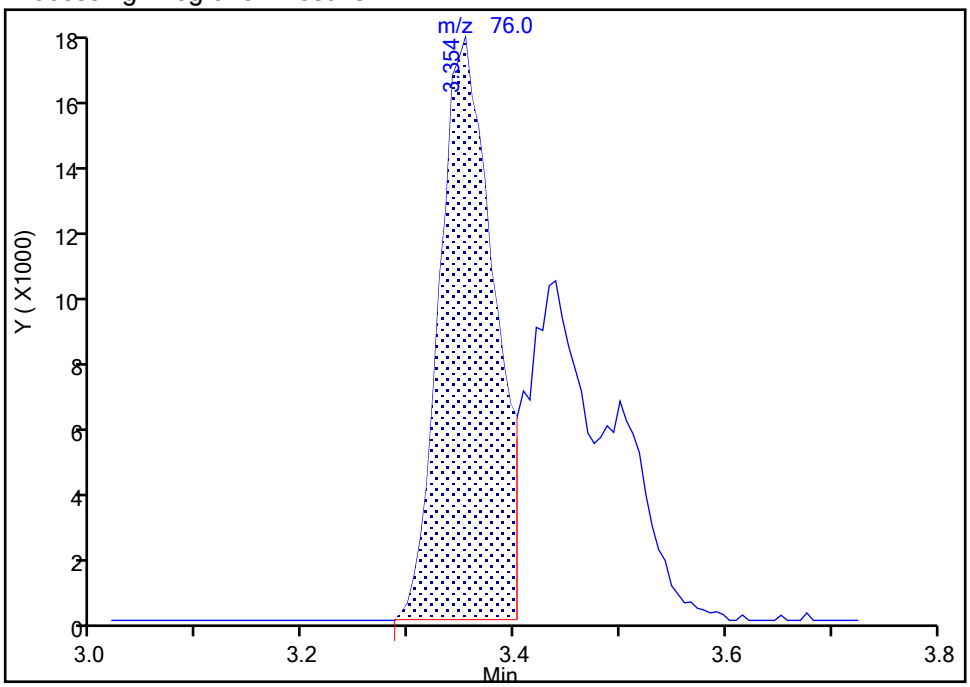
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

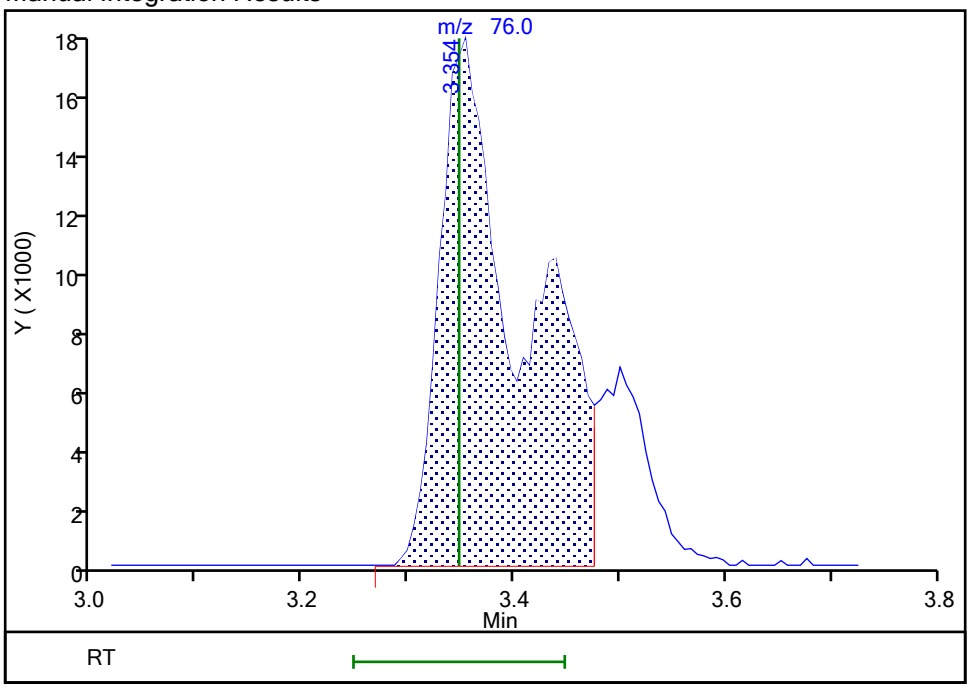
Processing Integration Results

RT: 3.35
Area: 62522
Amount: 0.396475
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 96559
Amount: 0.550005
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:13:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

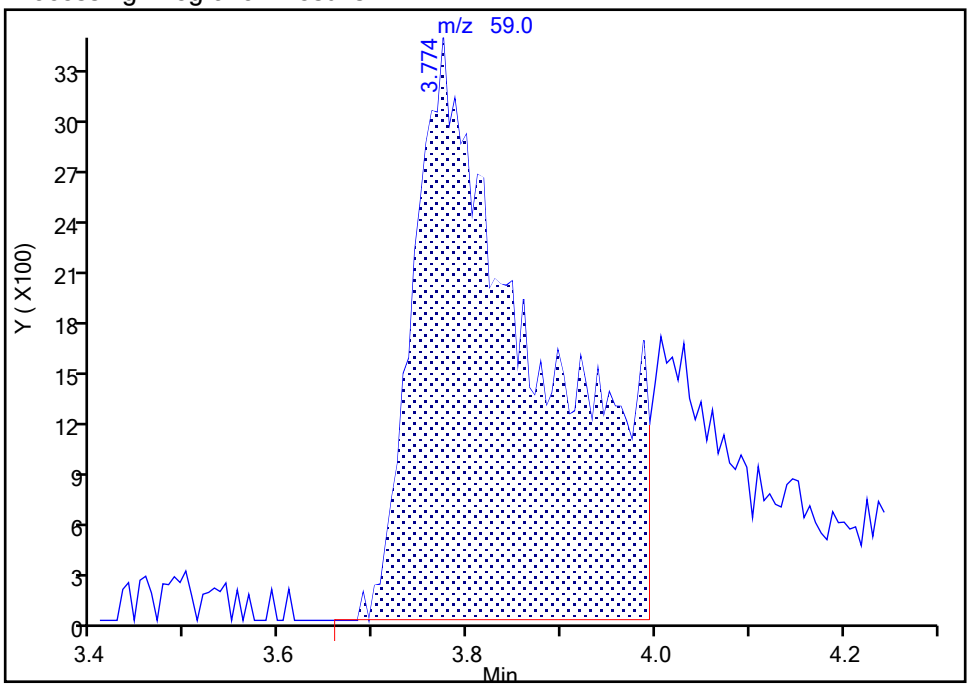
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

32 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

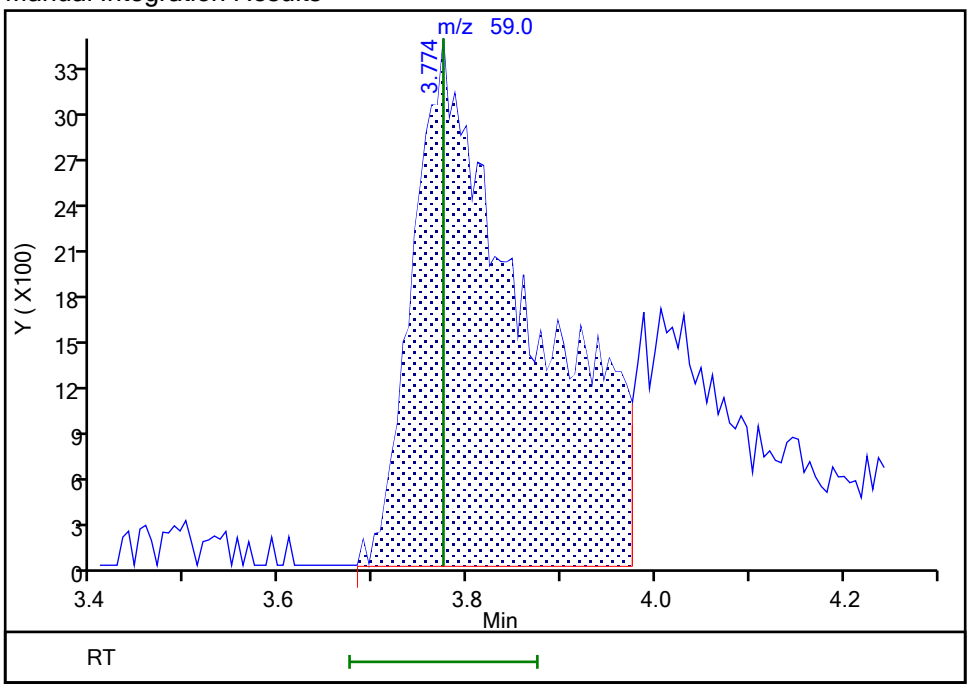
Processing Integration Results

RT: 3.77
Area: 31093
Amount: 11.035513
Amount Units: ug/l



Manual Integration Results

RT: 3.77
Area: 29554
Amount: 11.394217
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:14:51 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

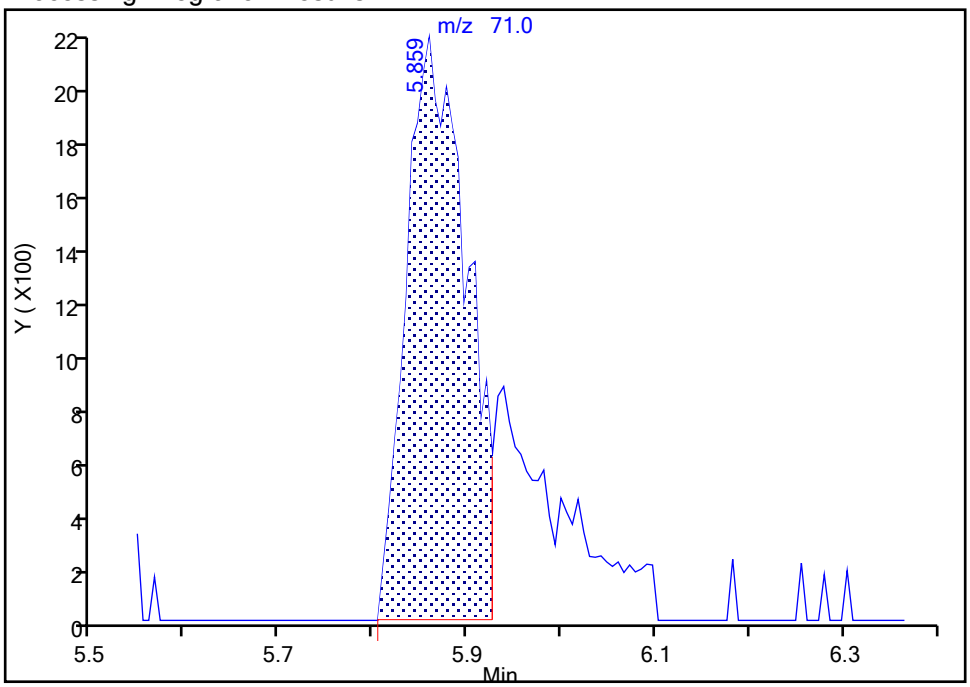
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

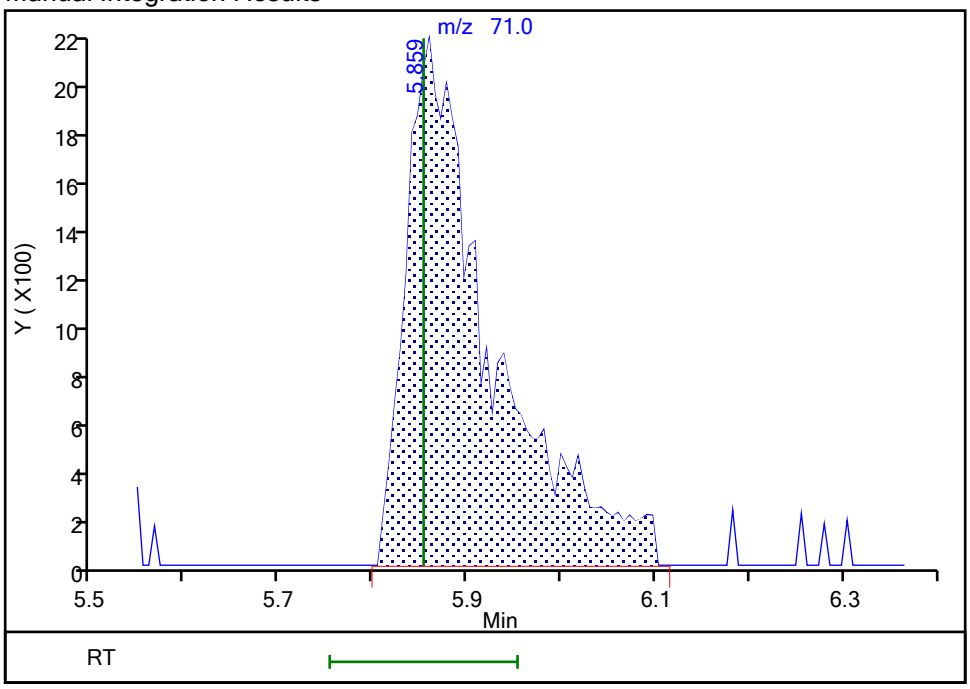
Processing Integration Results

RT: 5.86
Area: 9451
Amount: 2.281494
Amount Units: ug/l



Manual Integration Results

RT: 5.86
Area: 13373
Amount: 2.966652
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:53:14 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

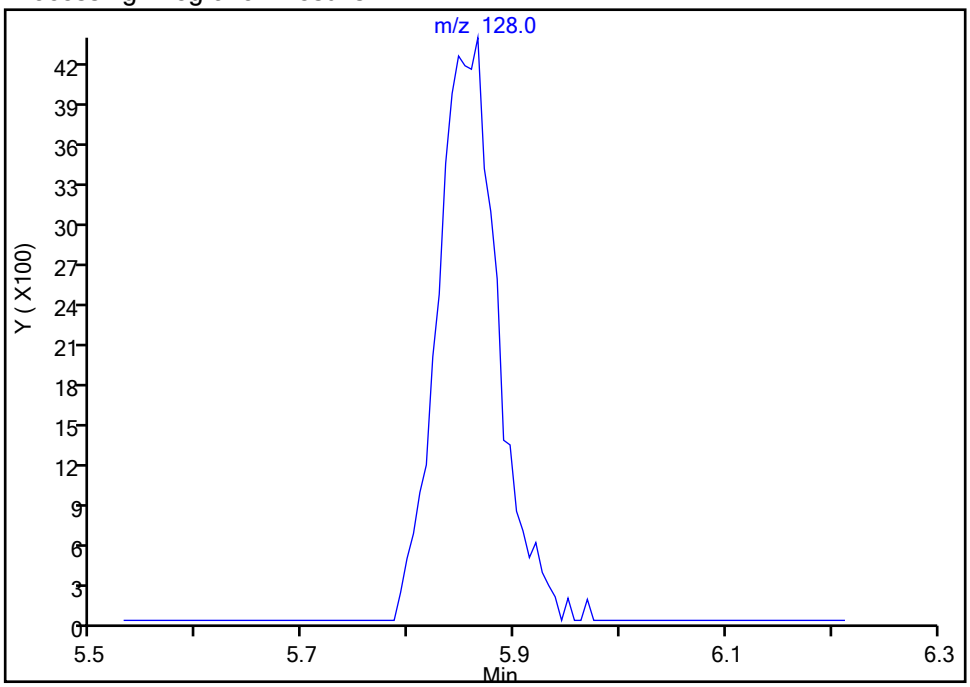
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

48 Chlorobromomethane, CAS: 74-97-5

Signal: 1

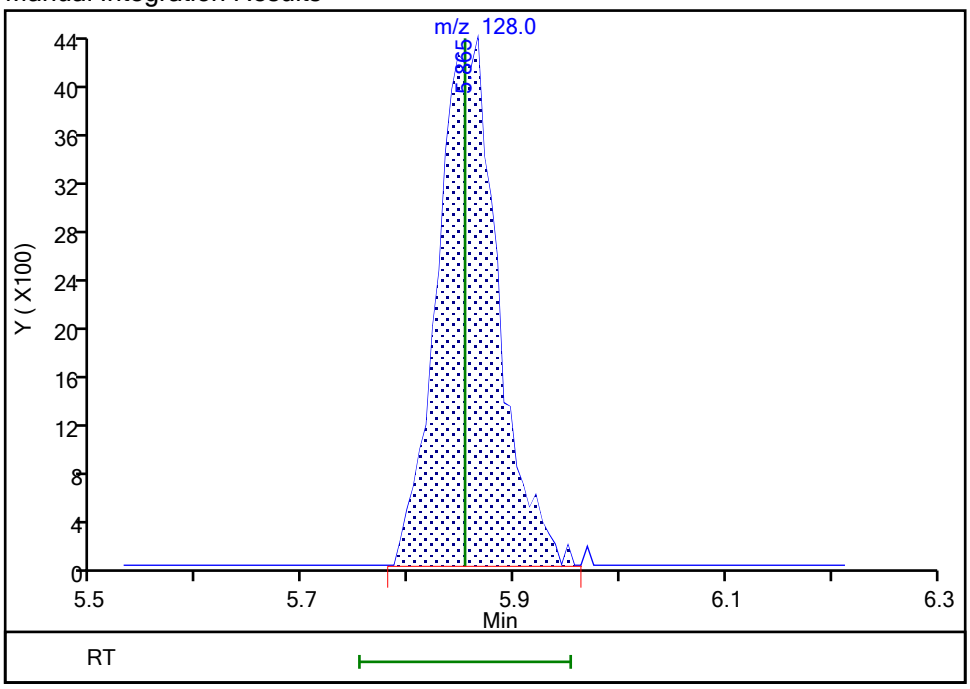
Not Detected
Expected RT: 5.85

Processing Integration Results



Manual Integration Results

RT: 5.87
Area: 17134
Amount: 0.566894
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:53:10 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC

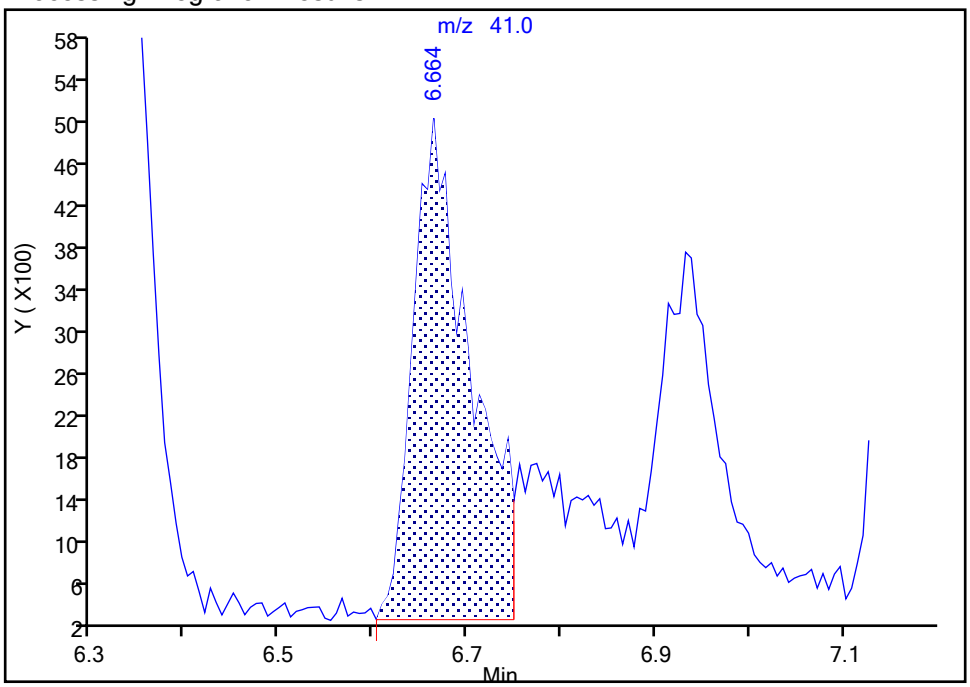
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

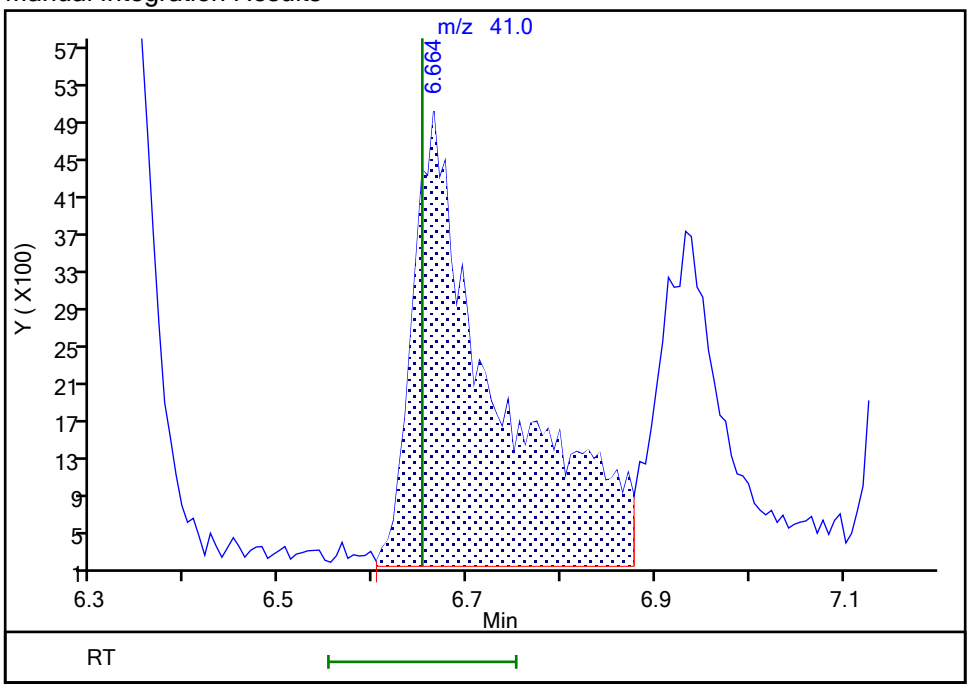
Processing Integration Results

RT: 6.66
Area: 20317
Amount: 20.243903
Amount Units: ug/l



Manual Integration Results

RT: 6.66
Area: 29650
Amount: 28.052621
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:53:30 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

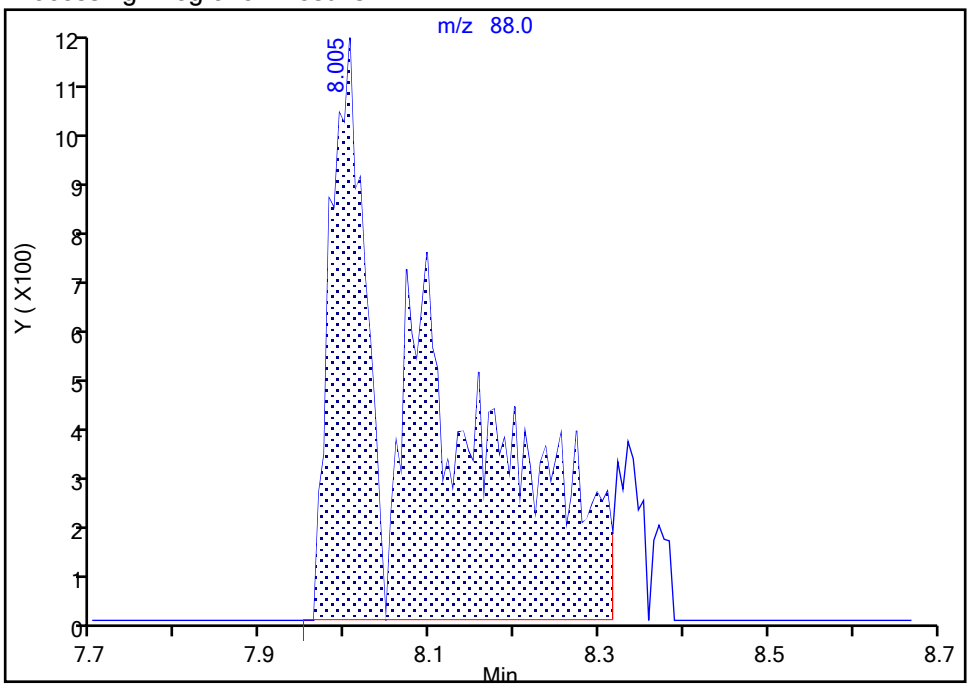
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X13.D				
Injection Date:	04-Jun-2025 21:28:30	Instrument ID:	10193		
Lims ID:	IC std2 0.5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

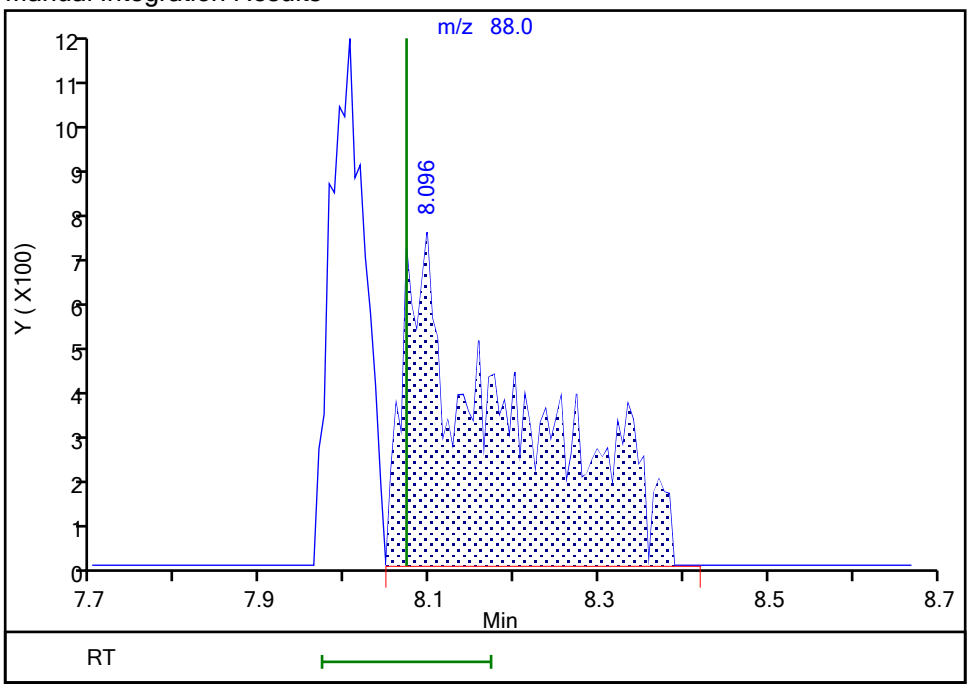
Processing Integration Results

RT: 8.01
Area: 8644
Amount: 37.554812
Amount Units: ug/l



Manual Integration Results

RT: 8.10
Area: 6307
Amount: 25.672609
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:53:52 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D
Lims ID: IC std3 1
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 04-Jun-2025 21:51:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-015
Misc. Info.: IC STD1 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:27 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 10:41:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	99	74421	1.00	1.00	
5 Chloromethane	50	1.939	1.945	-0.006	99	88049	1.00	1.00	
7 Butadiene	39	2.012	2.025	-0.013	94	97198	1.00	0.9604	
6 Vinyl chloride	62	2.037	2.043	-0.006	98	76193	1.00	0.9806	
9 Bromomethane	94	2.342	2.348	-0.006	90	48569	1.00	0.9779	M
10 Chloroethane	64	2.360	2.372	-0.012	99	42152	1.00	0.9569	
11 Dichlorofluoromethane	67	2.628	2.634	-0.006	97	122462	1.00	0.9630	M
13 Pentane	43	2.634	2.646	-0.012	98	82440	1.00	0.9646	
12 Trichlorofluoromethane	101	2.671	2.677	-0.006	98	100091	1.00	1.02	M
14 Ethyl ether	59	2.817	2.823	-0.006	93	46647	1.00	1.00	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.915	2.927	-0.012	93	68628	1.00	1.00	
17 Acrolein	56	2.969	2.970	-0.001	99	314981	48.8	50.0	
18 1,1-Dichloroethene	96	3.091	3.098	-0.007	98	46570	1.00	0.9611	
20 Acetone	43	3.122	3.116	0.006	99	83461	10.0	10.1	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.128	3.140	-0.012	92	48103	1.00	0.9558	
24 Isopropyl alcohol	45	3.244	3.250	-0.006	35	32344	20.0	20.7	M
22 Iodomethane	142	3.256	3.262	-0.006	100	88856	1.00	0.9014	
23 Ethyl bromide	108	3.280	3.280	0.000	99	44939	1.00	0.9673	
25 Carbon disulfide	76	3.341	3.347	-0.006	100	167455	1.00	0.9380	M
26 Methyl acetate	43	3.475	3.469	0.006	96	18977	1.00	0.8563	
29 3-Chloro-1-propene	41	3.488	3.500	-0.012	86	81834	1.00	0.8972	a
* 31 t-Butyl alcohol-d10 (IS)	65	3.658	3.652	0.006	66	173955	50.0	50.0	
30 Methylene Chloride	84	3.652	3.658	-0.006	92	54946	1.00	0.9396	
32 2-Methyl-2-propanol	59	3.762	3.774	-0.012	99	56644	20.0	21.9	M
33 Acrylonitrile	53	3.957	3.957	0.000	97	29349	2.50	2.43	
34 Methyl tert-butyl ether	73	4.006	4.018	-0.012	92	149746	1.00	0.9038	
35 trans-1,2-Dichloroethene	96	4.012	4.018	-0.006	99	55552	1.00	0.9295	
36 Hexane	57	4.408	4.414	-0.006	93	77450	1.00	0.9519	
37 1,1-Dichloroethane	63	4.652	4.658	-0.006	96	101423	1.00	0.9319	
39 Isopropyl ether	45	4.713	4.725	-0.012	93	184345	1.00	0.9160	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	92	88291	1.00	0.9196	
41 Tert-butyl ethyl ether	59	5.268	5.274	-0.006	98	184283	1.00	0.9301	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	100	152140	10.0	9.63	
43 cis-1,2-Dichloroethene	96	5.512	5.512	0.000	84	62895	1.00	0.9135	
44 2,2-Dichloropropane	77	5.524	5.530	-0.006	70	79756	1.00	0.9333	
45 Propionitrile	54	5.579	5.573	0.006	99	74348	20.0	17.4	
47 Methacrylonitrile	67	5.798	5.798	0.000	91	151963	10.0	9.93	
48 Chlorobromomethane	128	5.841	5.853	-0.012	94	27739	1.00	0.9025	
49 Tetrahydrofuran	71	5.853	5.853	0.000	69	21032	5.00	4.68	
50 Chloroform	83	6.012	6.012	0.000	94	101944	1.00	0.9226	
S 52 1,2-Dichloroethene, Total	100				0			1.84	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	93	535871	10.0	9.97	
53 1,1,1-Trichloroethane	97	6.225	6.231	-0.006	46	88566	1.00	0.9150	
55 Cyclohexane	56	6.322	6.329	-0.007	91	97296	1.00	0.9457	
56 Carbon tetrachloride	117	6.444	6.444	0.000	98	75195	1.00	0.9119	
57 1,1-Dichloropropene	75	6.450	6.457	-0.007	96	80703	1.00	0.9292	
58 Isobutyl alcohol	41	6.658	6.652	0.006	89	51163	50.0	48.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	110913	10.0	10.0	
60 Benzene	78	6.719	6.725	-0.006	96	234806	1.00	0.9069	
61 1,2-Dichloroethane	62	6.792	6.798	-0.006	98	63946	1.00	0.9030	
64 Tert-amyl methyl ether	73	6.926	6.932	-0.006	98	160349	1.00	0.9050	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	2276632	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	91	76961	1.00	0.9601	
67 n-Butanol	56	7.584	7.566	0.018	91	82816	87.5	83.5	
68 Trichloroethene	95	7.633	7.633	0.000	98	62640	1.00	0.9142	
69 Methylcyclohexane	83	7.932	7.938	-0.006	91	104809	1.00	0.9518	
70 1,2-Dichloropropane	63	7.968	7.975	-0.007	96	61002	1.00	0.9206	
71 2-ethoxy-2-methyl butane	87	7.993	8.005	-0.012	93	94682	1.00	0.9122	
74 1,4-Dioxane	88	8.078	8.072	0.006	41	12867	50.0	52.6	M
73 Methyl methacrylate	69	8.084	8.084	0.000	90	28274	1.00	0.8972	
72 Dibromomethane	93	8.078	8.084	-0.006	86	30598	1.00	0.9338	
76 Dichlorobromomethane	83	8.334	8.334	0.000	99	73163	1.00	0.9060	
77 2-Nitropropane	41	8.621	8.621	0.000	98	47040	5.00	4.62	
78 1-Bromo-2-chloroethane	63	8.724	8.731	-0.007	99	62445	1.00	0.9623	
80 cis-1,3-Dichloropropene	75	8.907	8.907	0.000	95	91516	1.00	0.9206	
82 4-Methyl-2-pentanone (MIBK)	43	9.115	9.115	0.000	97	392778	10.0	9.37	
$ 83 Toluene-d8 (Surr)	98	9.243	9.249	-0.006	94	2272533	10.0	10.0	
84 Toluene	92	9.328	9.328	0.000	98	155529	1.00	0.9278	
85 trans-1,3-Dichloropropene	75	9.627	9.627	0.000	96	77269	1.00	0.9113	
86 Ethyl methacrylate	69	9.712	9.706	0.006	88	65660	1.00	0.8938	
87 1,1,2-Trichloroethane	97	9.840	9.846	-0.006	92	45195	1.00	0.9397	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	73096	1.00	0.9394	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	92	76134	1.00	0.9342	
S 107 1,3-Dichloropropene, Total	100				0			1.83	
106 2-Hexanone	43	10.090	10.090	0.000	97	285086	10.0	9.51	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	52157	1.00	0.8887	
110 Ethylene Dibromide	107	10.352	10.352	0.000	98	42569	1.00	0.9138	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.815	0.000	86	1726233	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	95	86748	1.00	0.9221	
113 Chlorobenzene	112	10.840	10.840	0.000	96	177474	1.00	0.9250	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	95	58098	1.00	0.8897	
115 Ethylbenzene	91	10.937	10.937	0.000	98	304648	1.00	0.9136	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	97	241061	2.00	1.86	
S 117 Xylenes, Total	106				0			2.77	
118 o-Xylene	106	11.401	11.401	0.000	97	116161	1.00	0.9094	
119 Styrene	104	11.419	11.419	0.000	94	193183	1.00	0.9091	
120 Bromoform	173	11.578	11.578	0.000	96	30743	1.00	0.8995	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	272955	1.00	0.9275	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	91	857005	10.0	10.0	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	71	54271	1.00	0.9146	
125 Bromobenzene	156	11.980	11.980	0.000	90	79024	1.00	0.9478	
127 trans-1,4-Dichloro-2-butene	53	12.004	12.004	0.000	91	121230	10.0	8.53	
128 1,2,3-Trichloropropane	110	12.023	12.023	0.000	81	15198	1.00	0.9343	
129 N-Propylbenzene	91	12.059	12.059	0.000	99	362762	1.00	0.9361	
130 2-Chlorotoluene	126	12.132	12.132	0.000	97	75265	1.00	0.9448	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	260269	1.00	0.9283	
132 4-Chlorotoluene	126	12.230	12.230	0.000	98	77762	1.00	0.9412	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	60824	1.00	0.9454	
134 Pentachloroethane	167	12.474	12.474	0.000	93	47492	1.00	0.9605	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	263217	1.00	0.9136	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	335990	1.00	0.9386	
137 1,3-Dichlorobenzene	146	12.711	12.712	-0.001	98	148339	1.00	0.9277	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	290194	1.00	0.9277	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.772	-0.006	96	939357	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.791	12.785	0.006	96	155274	1.00	0.9302	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	98	121701	1.00	0.9348	
142 Benzyl chloride	126	12.876	12.870	0.006	99	18678	1.00	0.8963	
145 p-Diethylbenzene	119	13.010	13.004	0.006	94	175710	1.00	0.9280	
143 n-Butylbenzene	92	13.028	13.029	0.000	98	140086	1.00	0.9290	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	134689	1.00	0.9232	
148 1,2-Dibromo-3-Chloropropane	155	13.614	13.608	0.006	84	6437	1.00	0.8124	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	100020	1.00	0.8923	
150 1,2,4-Trichlorobenzene	180	14.168	14.169	-0.001	95	71154	1.00	0.8402	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	44091	1.00	0.9312	
152 Naphthalene	128	14.351	14.345	0.006	97	112656	1.00	0.8140	
153 1,2,3-Trichlorobenzene	180	14.498	14.492	0.006	97	55874	1.00	0.8517	
154 2-Methylnaphthalene	142	15.107	15.101	0.006	92	33766	1.00	0.99	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LL_#1_826_00168	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

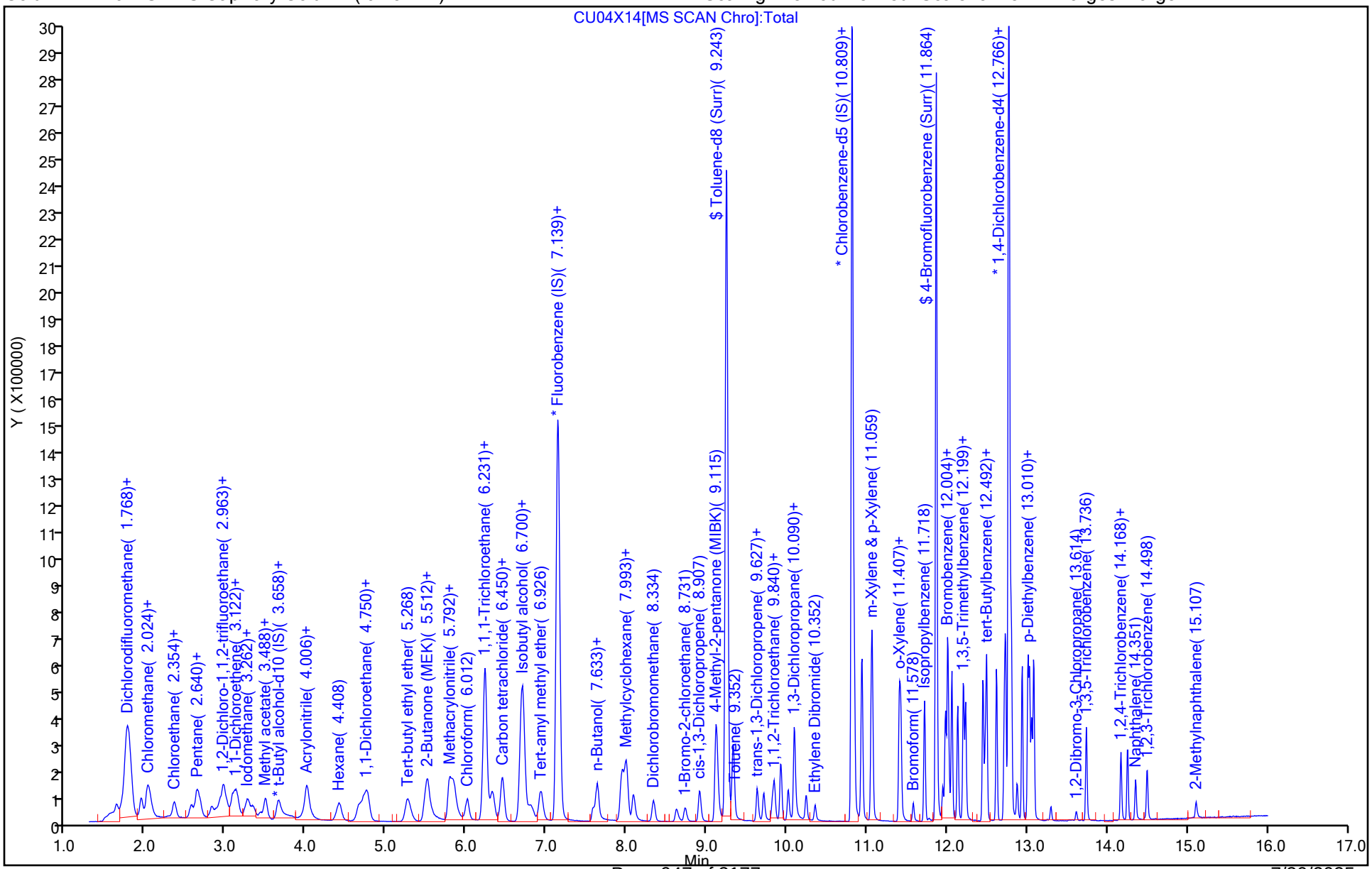
Report Date: 06-Jun-2025 09:18:28 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D

Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std3 1			Worklist Smp#:	15
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

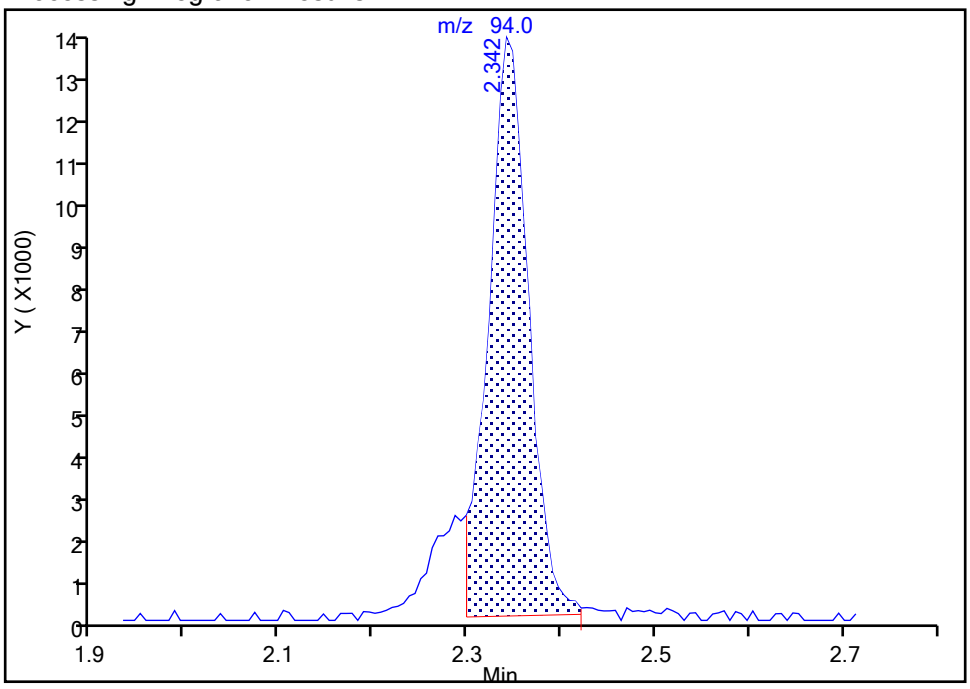
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

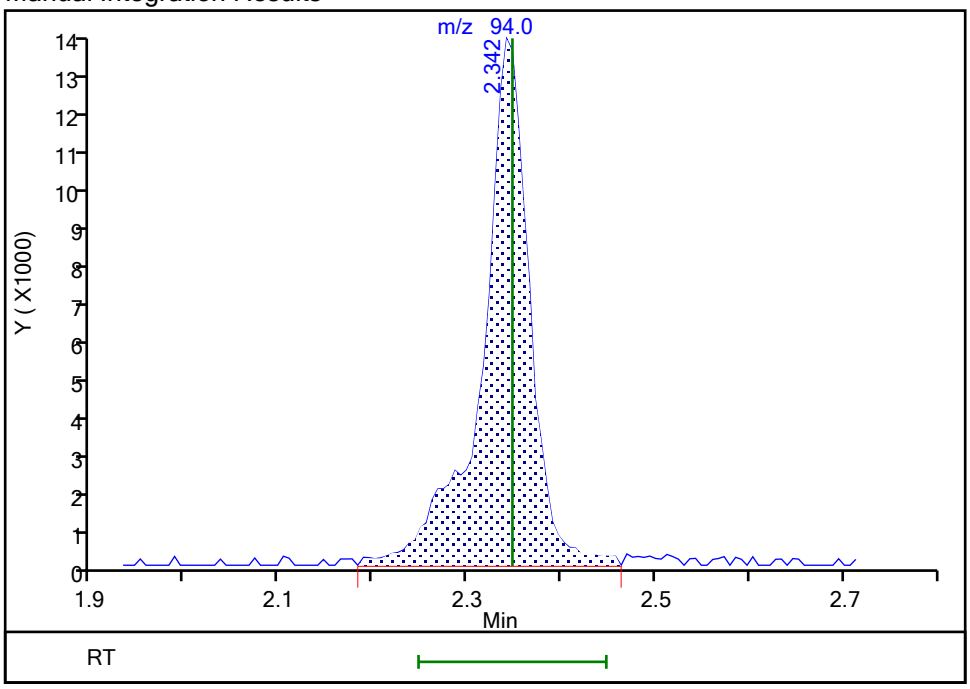
Processing Integration Results

RT: 2.34
Area: 40407
Amount: 0.886964
Amount Units: ug/l



Manual Integration Results

RT: 2.34
Area: 48569
Amount: 0.977855
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:50:55 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

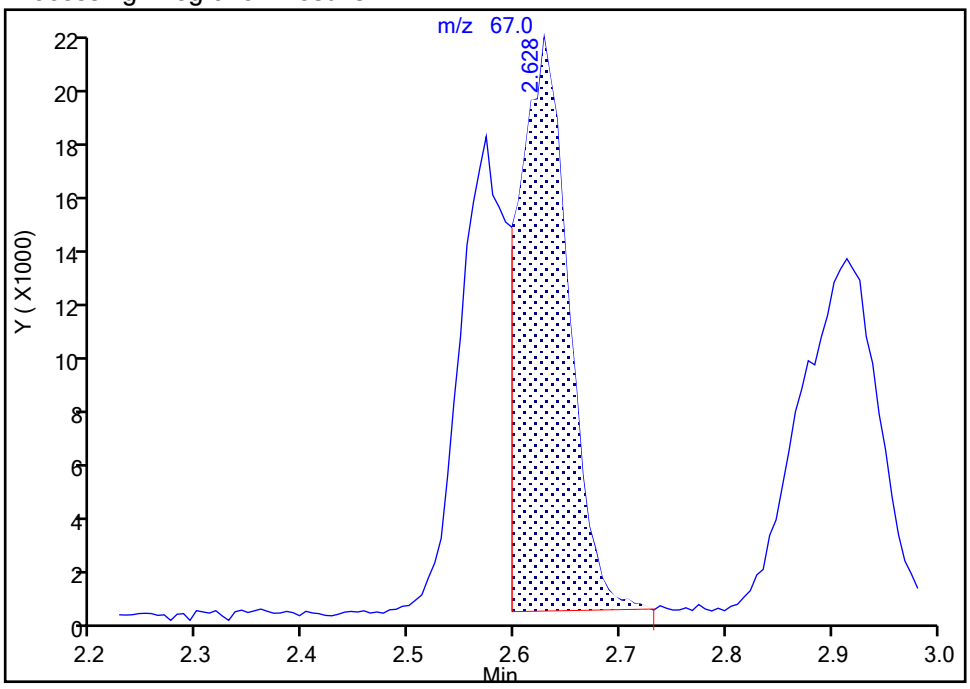
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

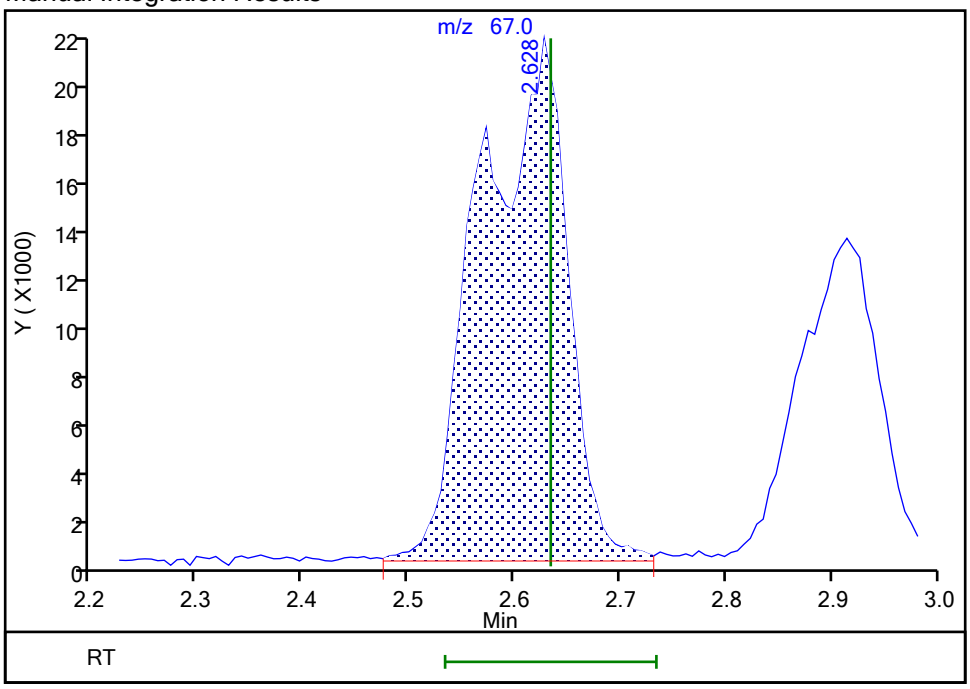
Processing Integration Results

RT: 2.63
Area: 69613
Amount: 0.709147
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 122462
Amount: 0.962952
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:51:07 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

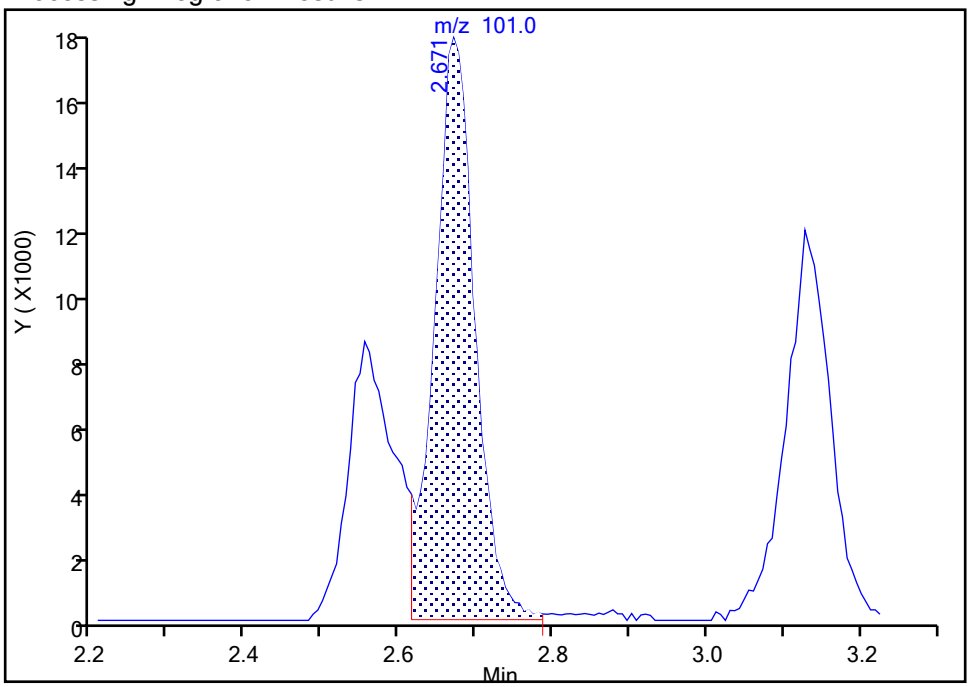
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

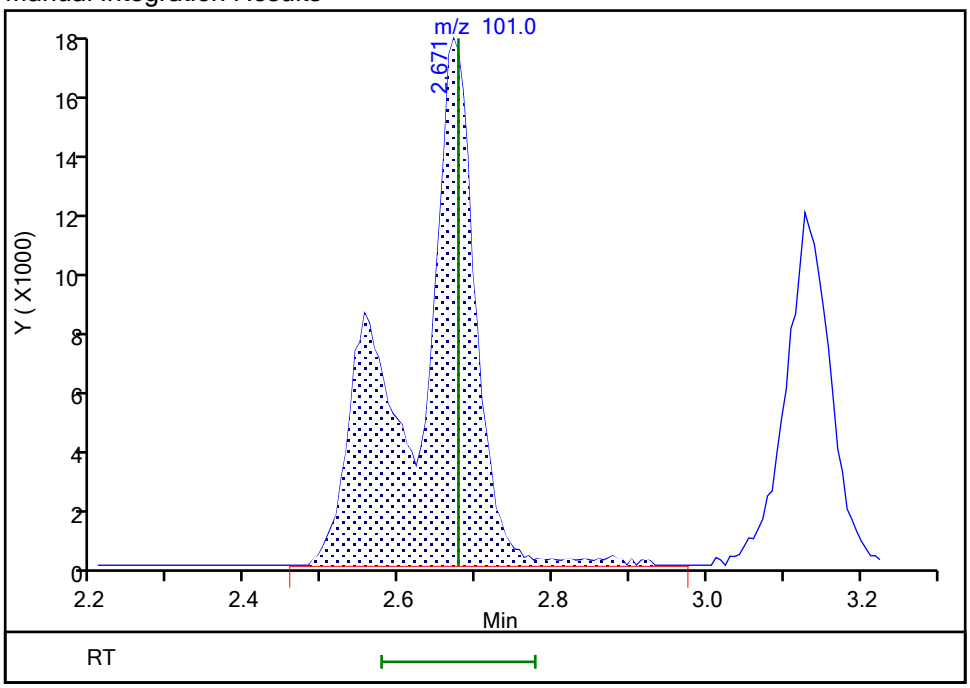
Processing Integration Results

RT: 2.67
Area: 64724
Amount: 0.738492
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 100091
Amount: 1.018438
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:51:14 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

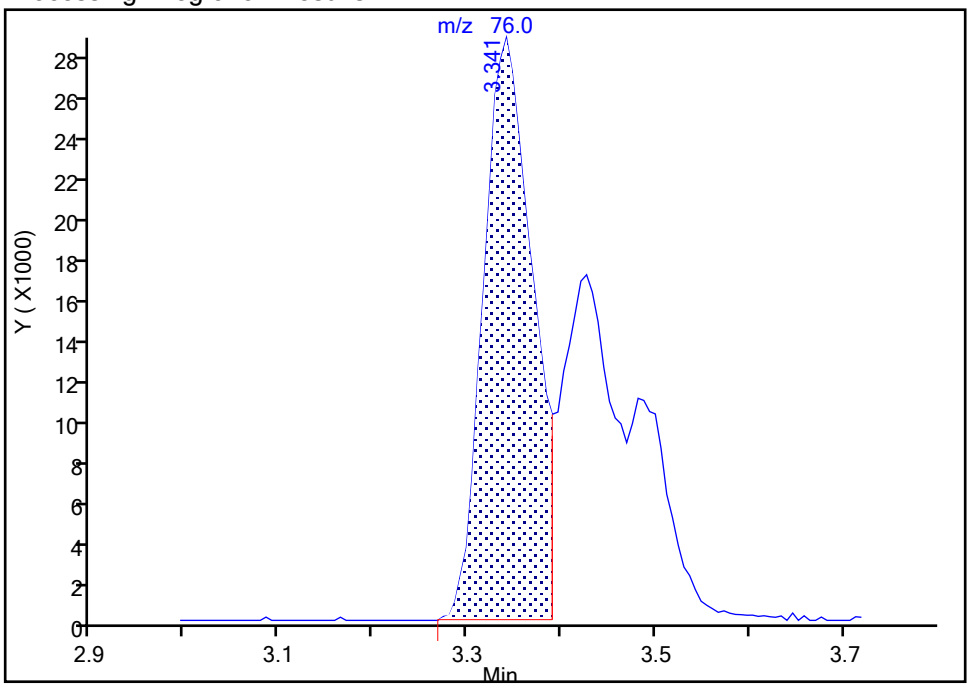
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

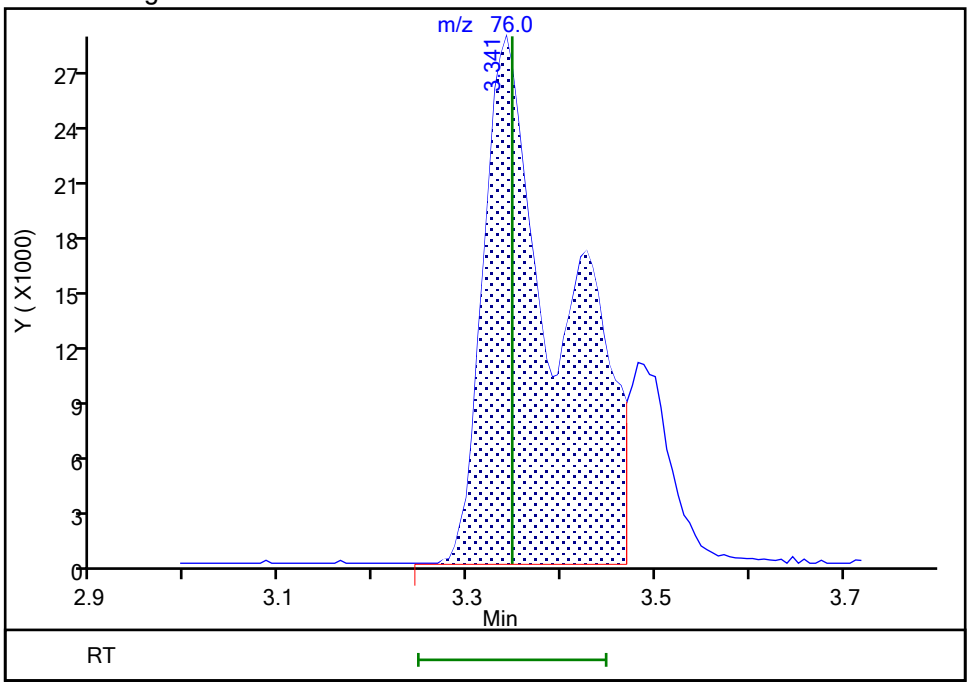
Processing Integration Results

RT: 3.34
Area: 105890
Amount: 0.715254
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 167455
Amount: 0.937971
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:12:31 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

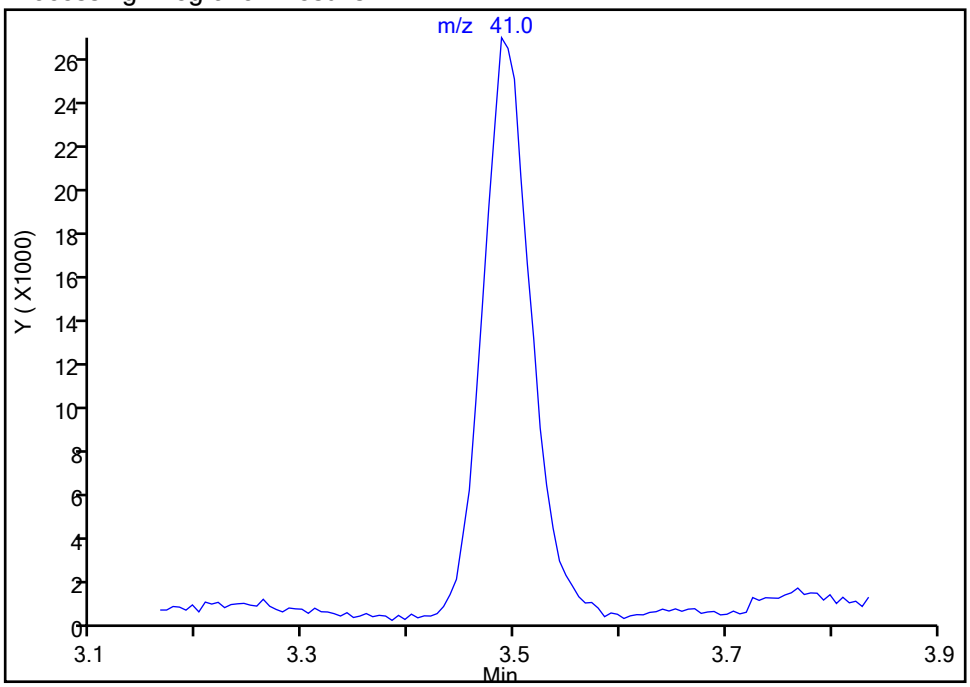
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

29 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

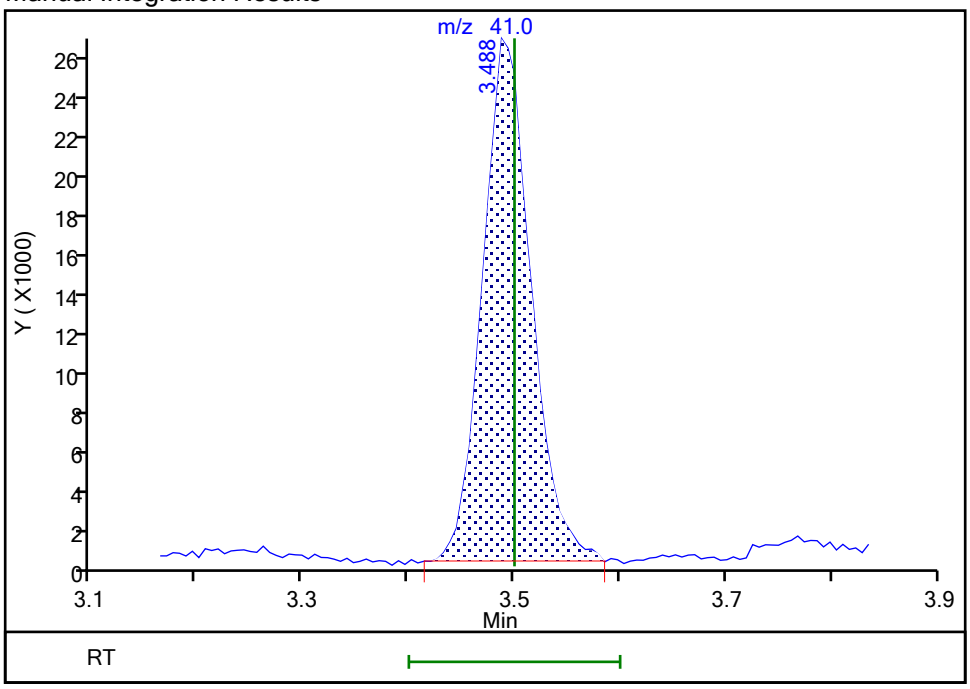
Not Detected
Expected RT: 3.50

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 81834
Amount: 0.897184
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:51:38 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

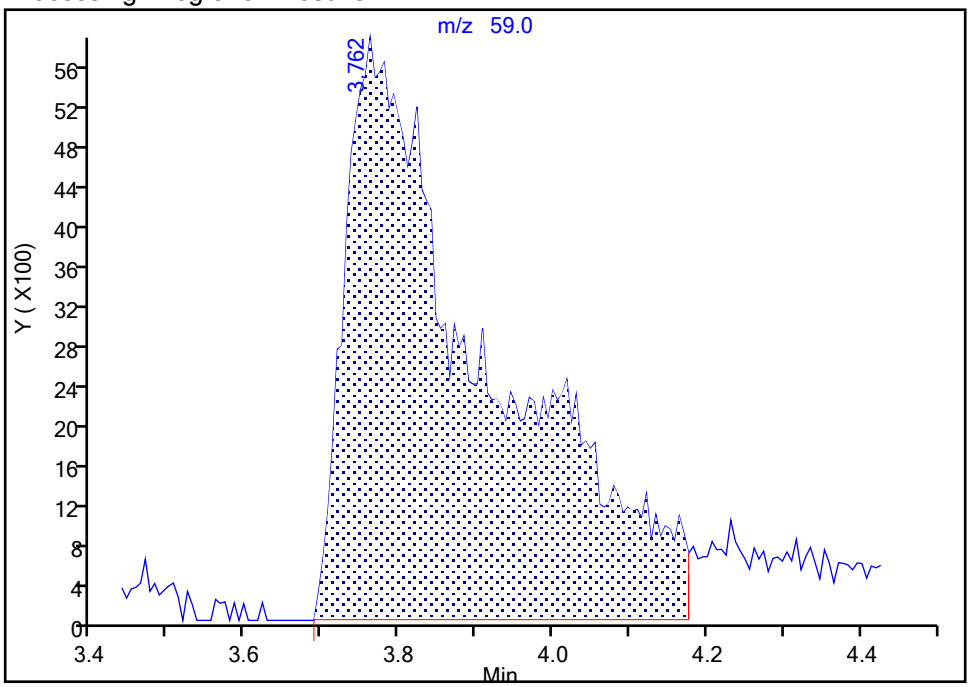
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

32 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

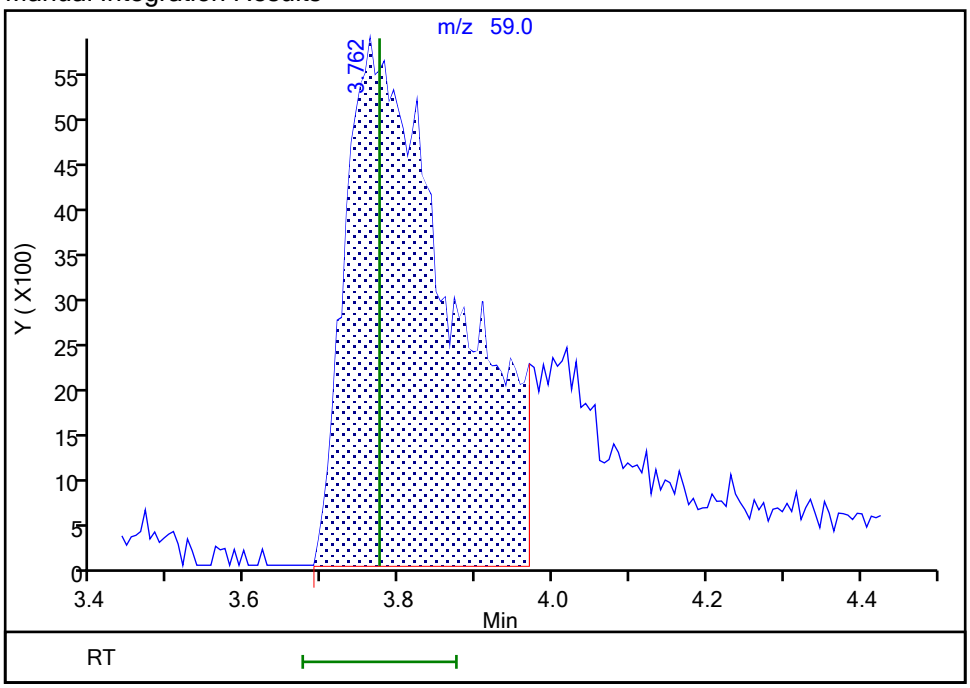
Processing Integration Results

RT: 3.76
Area: 74740
Amount: 25.222331
Amount Units: ug/l



Manual Integration Results

RT: 3.76
Area: 56644
Amount: 21.916930
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:13:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

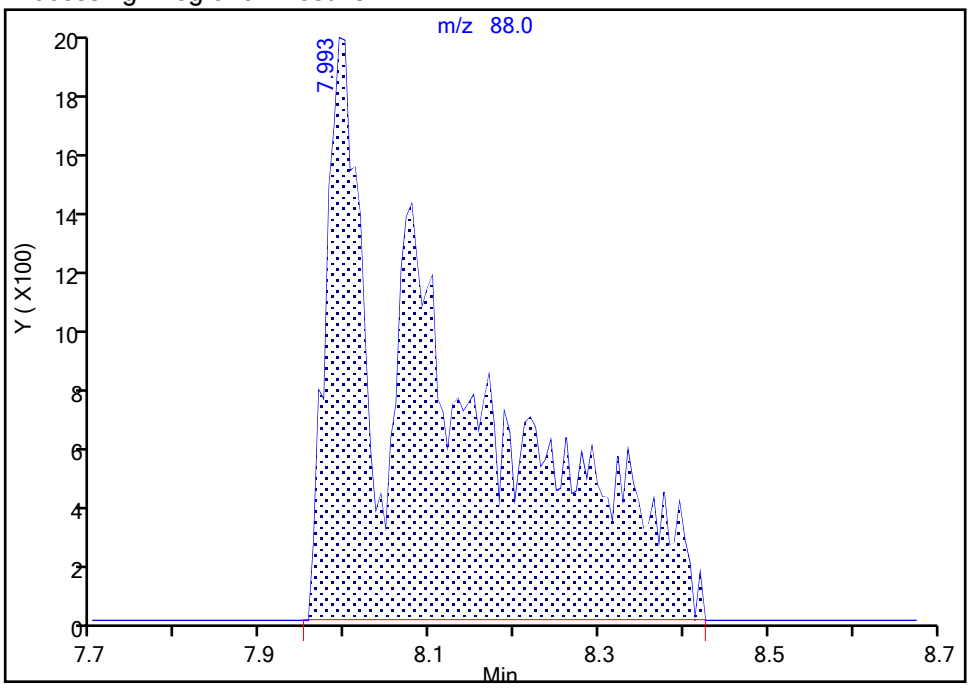
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X14.D				
Injection Date:	04-Jun-2025 21:51:30	Instrument ID:	10193		
Lims ID:	IC std3 1				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

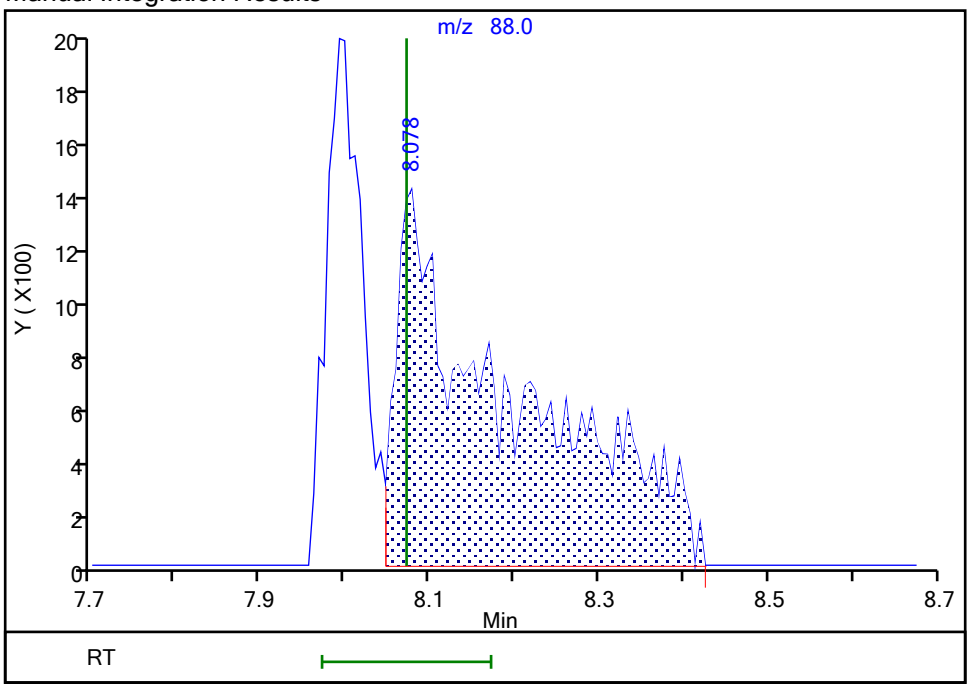
Processing Integration Results

RT: 7.99
Area: 18388
Amount: 75.016163
Amount Units: ug/l



Manual Integration Results

RT: 8.08
Area: 12867
Amount: 52.563231
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:51:53 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D
Lims ID: IC std4 2
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 04-Jun-2025 22:13:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-016
Misc. Info.: IC STD2 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:32 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 10:50:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.762	1.762	0.000	99	152735	2.00	2.02	
5 Chloromethane	50	1.945	1.945	0.000	99	176712	2.00	1.97	
7 Butadiene	39	2.024	2.025	-0.001	91	194574	2.00	1.89	M
6 Vinyl chloride	62	2.049	2.043	0.006	98	155580	2.00	1.96	
9 Bromomethane	94	2.354	2.348	0.006	91	104025	2.00	2.05	M
10 Chloroethane	64	2.378	2.372	0.006	100	89652	2.00	2.00	
11 Dichlorofluoromethane	67	2.634	2.634	0.000	97	258590	2.00	1.99	M
13 Pentane	43	2.646	2.646	0.000	97	163171	2.00	1.87	
12 Trichlorofluoromethane	101	2.677	2.677	0.000	99	199007	2.00	1.99	
14 Ethyl ether	59	2.829	2.823	0.006	93	94728	2.00	1.98	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.927	2.927	0.000	93	139024	2.00	1.99	
17 Acrolein	56	2.975	2.970	0.005	99	688718	97.6	94.0	M
18 1,1-Dichloroethene	96	3.097	3.098	-0.001	99	86979	2.00	1.76	
20 Acetone	43	3.116	3.116	0.000	76	170436	20.0	17.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	94	97879	2.00	1.91	
24 Isopropyl alcohol	45	3.256	3.250	0.006	34	63247	40.0	34.8	M
22 Iodomethane	142	3.262	3.262	0.000	99	186388	2.00	1.85	
23 Ethyl bromide	108	3.286	3.280	0.006	97	91693	2.00	1.94	
25 Carbon disulfide	76	3.353	3.347	0.006	99	331656	2.00	1.82	M
26 Methyl acetate	43	3.475	3.469	0.006	53	53691	2.00	2.08	
29 3-Chloro-1-propene	41	3.506	3.500	0.006	89	171803	2.00	1.85	
* 31 t-Butyl alcohol-d10 (IS)	65	3.695	3.652	0.043	94	202164	50.0	50.0	
30 Methylene Chloride	84	3.664	3.658	0.006	92	110553	2.00	1.85	
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	99	102513	40.0	34.1	M
33 Acrylonitrile	53	3.969	3.957	0.012	97	61778	5.00	4.40	M
34 Methyl tert-butyl ether	73	4.024	4.018	0.006	93	310841	2.00	1.84	
35 trans-1,2-Dichloroethene	96	4.018	4.018	0.000	99	113688	2.00	1.87	
36 Hexane	57	4.420	4.414	0.006	94	153463	2.00	1.85	
37 1,1-Dichloroethane	63	4.658	4.658	0.000	96	205117	2.00	1.85	
39 Isopropyl ether	45	4.731	4.725	0.006	94	378204	2.00	1.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.774	4.768	0.006	92	178208	2.00	1.82	
41 Tert-butyl ethyl ether	59	5.280	5.274	0.006	98	374966	2.00	1.86	
42 2-Butanone (MEK)	43	5.481	5.475	0.006	100	323305	20.0	17.6	
43 cis-1,2-Dichloroethene	96	5.518	5.512	0.006	84	131624	2.00	1.88	
44 2,2-Dichloropropane	77	5.524	5.530	-0.006	68	158689	2.00	1.82	
45 Propionitrile	54	5.579	5.573	0.006	98	180401	40.0	36.4	
47 Methacrylonitrile	67	5.798	5.798	0.000	91	324042	20.0	18.2	
48 Chlorobromomethane	128	5.853	5.853	0.000	92	58456	2.00	1.87	
49 Tetrahydrofuran	71	5.859	5.853	0.006	70	44058	10.0	8.44	
50 Chloroform	83	6.018	6.012	0.006	95	208918	2.00	1.85	
S 52 1,2-Dichloroethene, Total	100				0			3.74	
$ 54 Dibromofluoromethane (Surr)	113	6.237	6.231	0.006	93	555310	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.237	6.231	0.006	52	182214	2.00	1.85	
55 Cyclohexane	56	6.328	6.329	-0.001	91	195263	2.00	1.86	
56 Carbon tetrachloride	117	6.444	6.444	0.000	98	155309	2.00	1.85	
57 1,1-Dichloropropene	75	6.463	6.457	0.006	96	161099	2.00	1.82	
58 Isobutyl alcohol	41	6.658	6.652	0.006	91	109792	100.0	89.7	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	99	115978	10.0	10.3	
60 Benzene	78	6.725	6.725	0.000	96	481493	2.00	1.82	
61 1,2-Dichloroethane	62	6.798	6.798	0.000	97	133938	2.00	1.86	M
64 Tert-amyl methyl ether	73	6.932	6.932	0.000	98	332620	2.00	1.84	
* 65 Fluorobenzene (IS)	96	7.145	7.139	0.006	99	2320746	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	90	149894	2.00	1.83	
67 n-Butanol	56	7.578	7.566	0.012	89	182657	175.0	158.5	M
68 Trichloroethene	95	7.633	7.633	0.000	99	127863	2.00	1.83	
69 Methylcyclohexane	83	7.938	7.938	0.000	92	207437	2.00	1.85	
70 1,2-Dichloropropane	63	7.974	7.975	-0.001	95	123644	2.00	1.83	
71 2-ethoxy-2-methyl butane	87	8.005	8.005	0.000	93	196603	2.00	1.86	
74 1,4-Dioxane	88	8.078	8.072	0.006	37	26267	100.0	92.3	M
73 Methyl methacrylate	69	8.084	8.084	0.000	90	64576	2.00	1.76	
72 Dibromomethane	93	8.084	8.084	0.000	86	61876	2.00	1.85	
76 Dichlorobromomethane	83	8.334	8.334	0.000	99	151966	2.00	1.85	
77 2-Nitropropane	41	8.621	8.621	0.000	98	101963	10.0	8.62	
78 1-Bromo-2-chloroethane	63	8.730	8.731	-0.001	99	127120	2.00	1.92	
80 cis-1,3-Dichloropropene	75	8.907	8.907	0.000	95	186102	2.00	1.84	
82 4-Methyl-2-pentanone (MIBK)	43	9.121	9.115	0.006	97	850809	20.0	17.5	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2332401	10.0	9.96	
84 Toluene	92	9.334	9.328	0.006	98	315864	2.00	1.82	
85 trans-1,3-Dichloropropene	75	9.627	9.627	0.000	95	158386	2.00	1.81	
86 Ethyl methacrylate	69	9.712	9.706	0.006	89	137362	2.00	1.81	
87 1,1,2-Trichloroethane	97	9.846	9.846	0.000	91	91203	2.00	1.84	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	145331	2.00	1.81	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	92	155518	2.00	1.85	
S 107 1,3-Dichloropropene, Total	100				0			3.65	
106 2-Hexanone	43	10.090	10.090	0.000	97	618240	20.0	17.7	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	110483	2.00	1.82	
110 Ethylene Dibromide	107	10.352	10.352	0.000	99	88880	2.00	1.85	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.815	0.000	86	1782828	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	171417	2.00	1.76	
113 Chlorobenzene	112	10.840	10.840	0.000	96	363956	2.00	1.84	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	95	122089	2.00	1.81	
115 Ethylbenzene	91	10.937	10.937	0.000	98	620788	2.00	1.80	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	97	486454	4.00	3.64	
S 117 Xylenes, Total	106				0			5.45	
118 o-Xylene	106	11.401	11.401	0.000	97	239367	2.00	1.81	
119 Styrene	104	11.419	11.419	0.000	95	399285	2.00	1.82	
120 Bromoform	173	11.577	11.578	-0.001	97	63801	2.00	1.81	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	556019	2.00	1.83	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	91	882041	10.0	9.98	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	77	115023	2.00	1.88	
125 Bromobenzene	156	11.980	11.980	0.000	93	158356	2.00	1.84	
127 trans-1,4-Dichloro-2-butene	53	12.004	12.004	0.000	94	273068	20.0	18.6	
128 1,2,3-Trichloropropane	110	12.022	12.023	-0.001	82	31967	2.00	1.91	
129 N-Propylbenzene	91	12.059	12.059	0.000	99	736830	2.00	1.84	
130 2-Chlorotoluene	126	12.132	12.132	0.000	97	150474	2.00	1.83	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	526671	2.00	1.82	
132 4-Chlorotoluene	126	12.230	12.230	0.000	98	155124	2.00	1.82	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	121542	2.00	1.83	
134 Pentachloroethane	167	12.474	12.474	0.000	92	97302	2.00	1.91	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	549085	2.00	1.85	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	676177	2.00	1.83	
137 1,3-Dichlorobenzene	146	12.711	12.712	-0.001	98	304052	2.00	1.84	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	586132	2.00	1.82	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.772	-0.006	96	968209	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.791	12.785	0.006	97	318860	2.00	1.85	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	98	245691	2.00	1.83	
142 Benzyl chloride	126	12.870	12.870	0.000	99	39473	2.00	1.84	
145 p-Diethylbenzene	119	13.004	13.004	0.000	95	358587	2.00	1.84	
143 n-Butylbenzene	92	13.028	13.029	0.000	97	281274	2.00	1.81	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	279256	2.00	1.86	
148 1,2-Dibromo-3-Chloropropane	155	13.607	13.608	-0.001	86	15636	2.00	1.91	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	207850	2.00	1.80	
150 1,2,4-Trichlorobenzene	180	14.168	14.169	-0.001	95	157064	2.00	1.80	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	87493	2.00	1.79	
152 Naphthalene	128	14.351	14.345	0.006	96	263482	2.00	1.85	
153 1,2,3-Trichlorobenzene	180	14.498	14.492	0.006	96	121255	2.00	1.79	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	82503	2.00	1.76	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

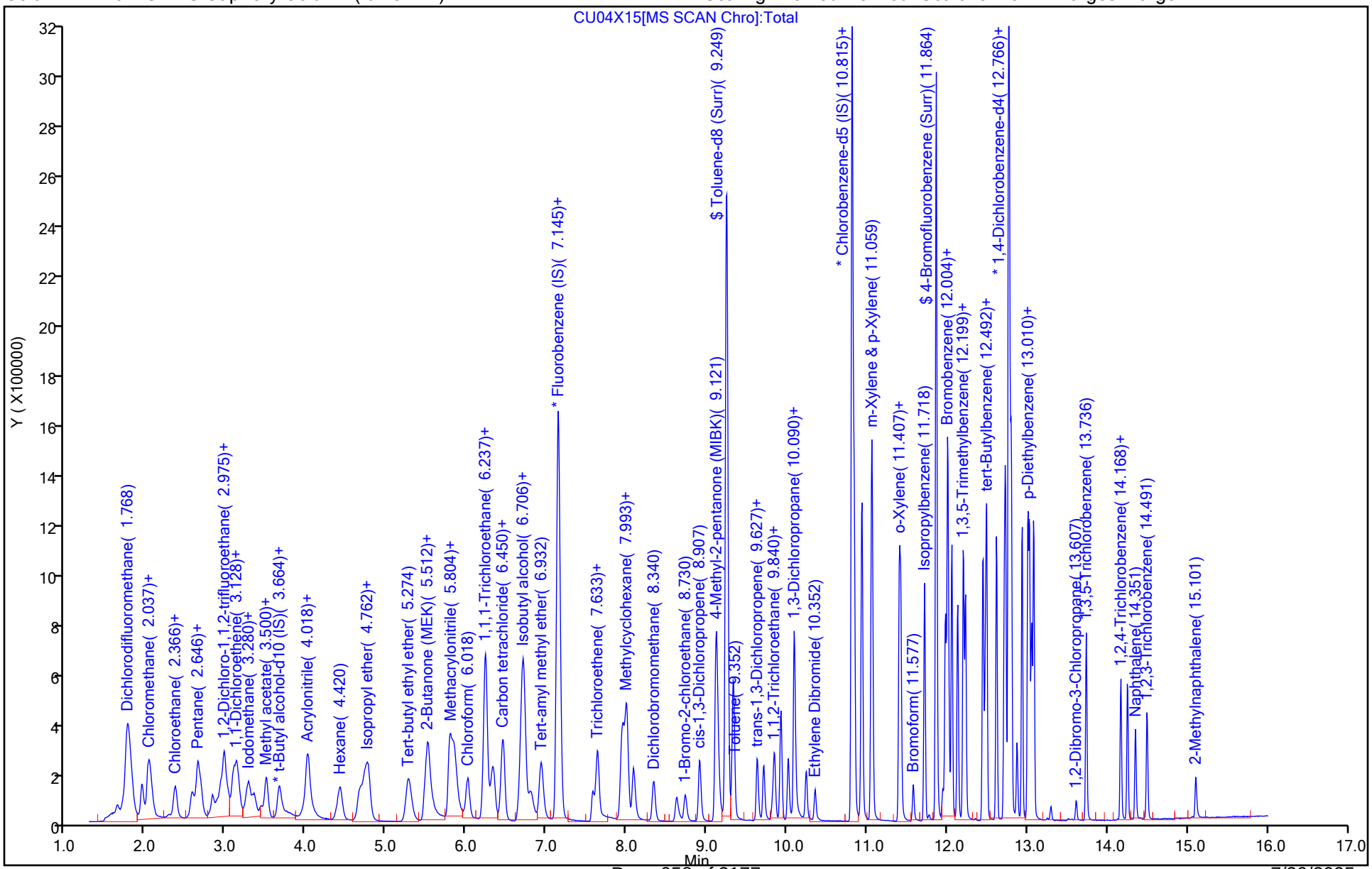
MSV_LL_#1_826_00168	Amount Added:	2.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added:	2.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added:	2.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jun-2025 09:18:33 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std4 2			Worklist Smp#:	16
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

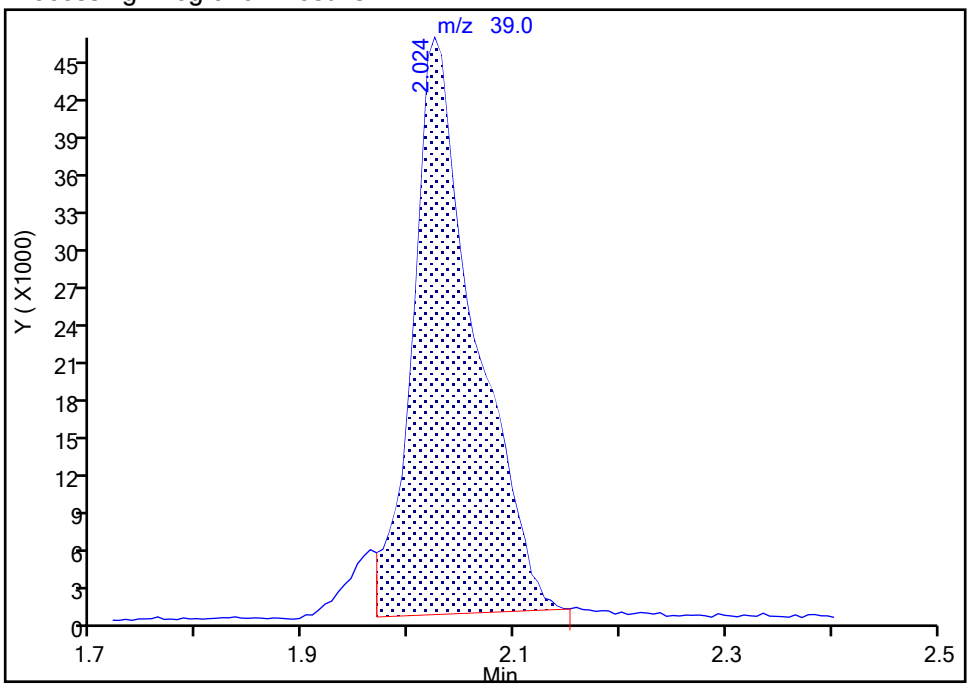
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

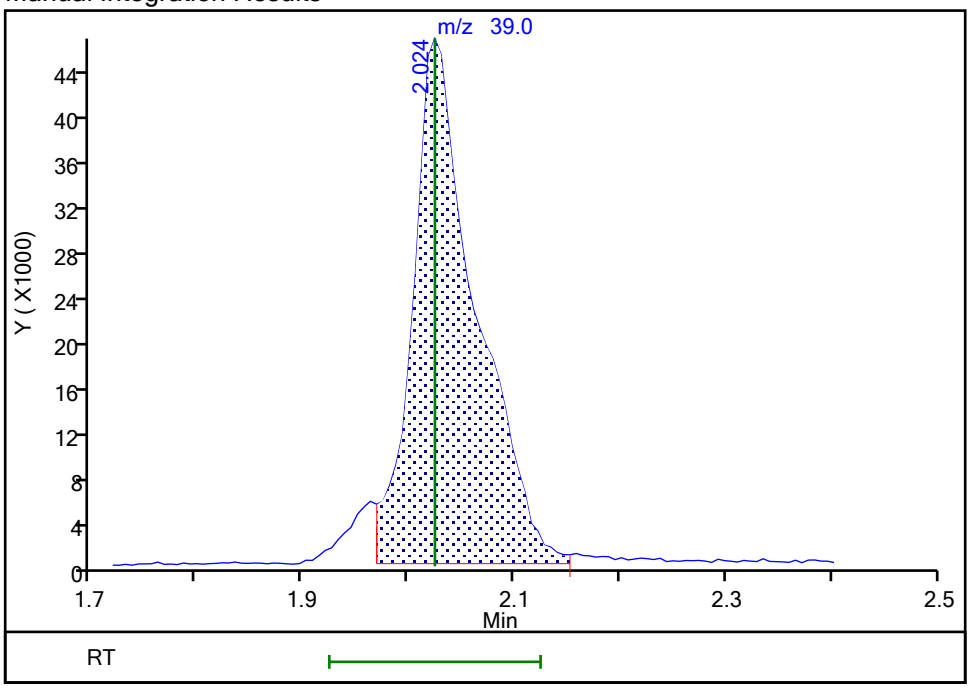
Processing Integration Results

RT: 2.02
Area: 188428
Amount: 2.144098
Amount Units: ug/l



Manual Integration Results

RT: 2.02
Area: 194574
Amount: 1.885932
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:48:37 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC

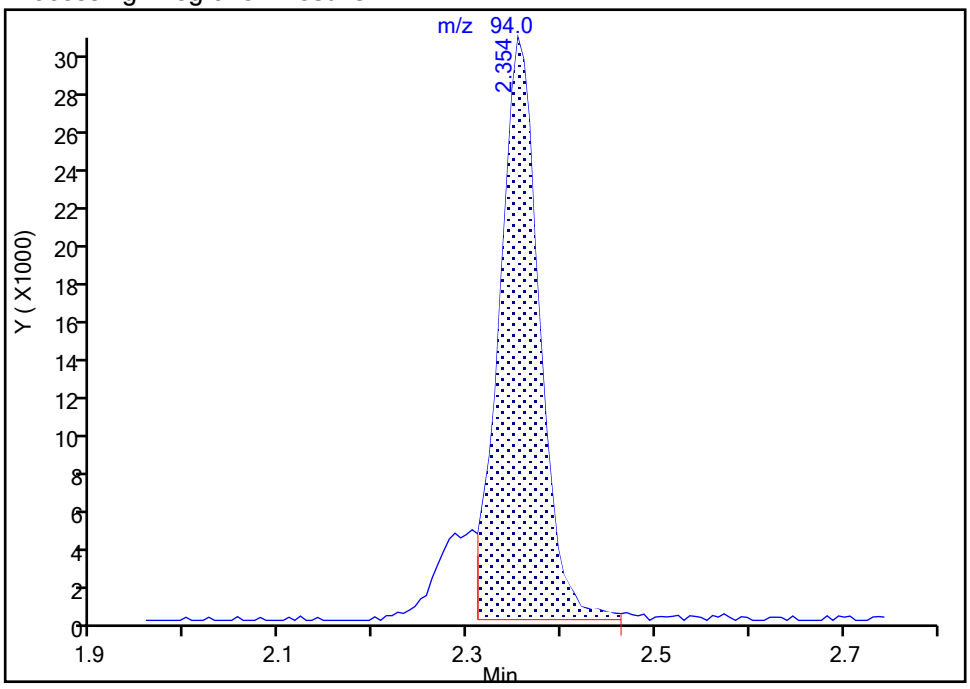
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

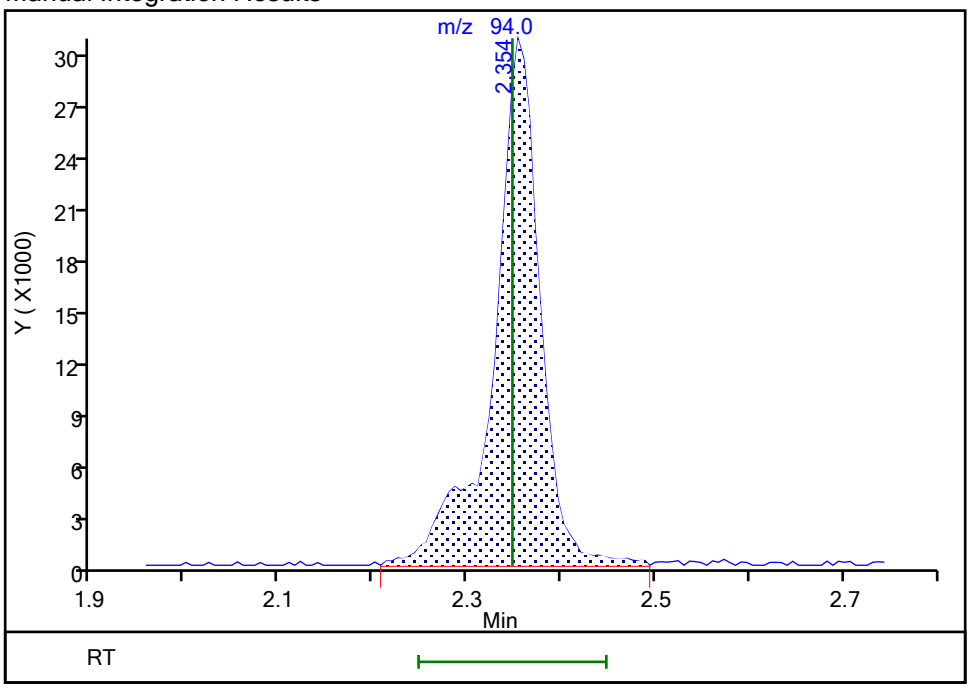
Processing Integration Results

RT: 2.35
Area: 90478
Amount: 1.989769
Amount Units: ug/l



Manual Integration Results

RT: 2.35
Area: 104025
Amount: 2.054557
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:48:43 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

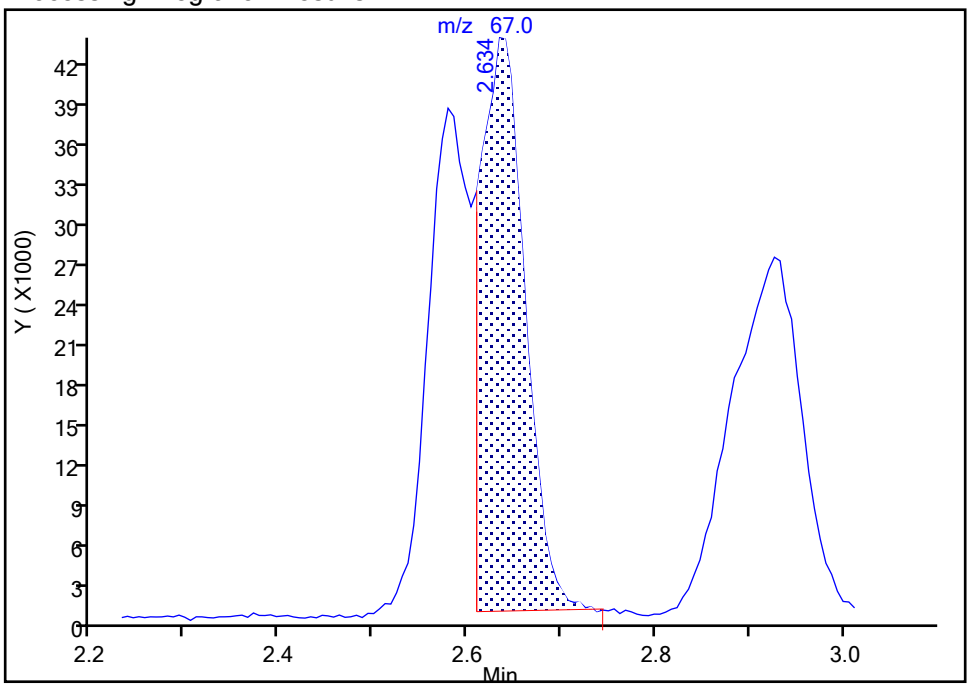
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

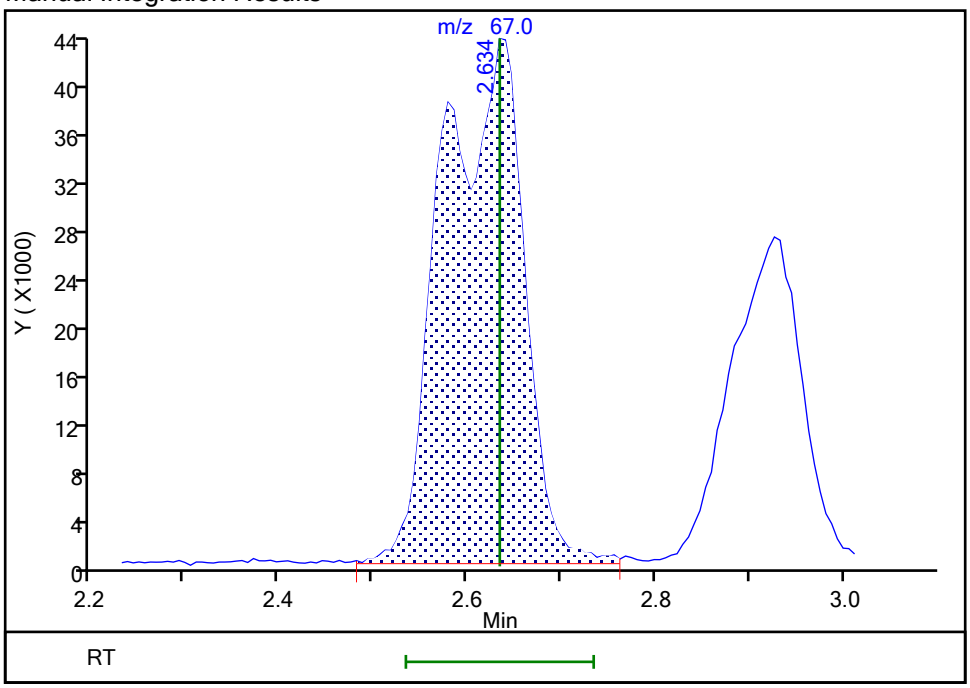
Processing Integration Results

RT: 2.63
Area: 139512
Amount: 1.428002
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 258590
Amount: 1.994712
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:48:58 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

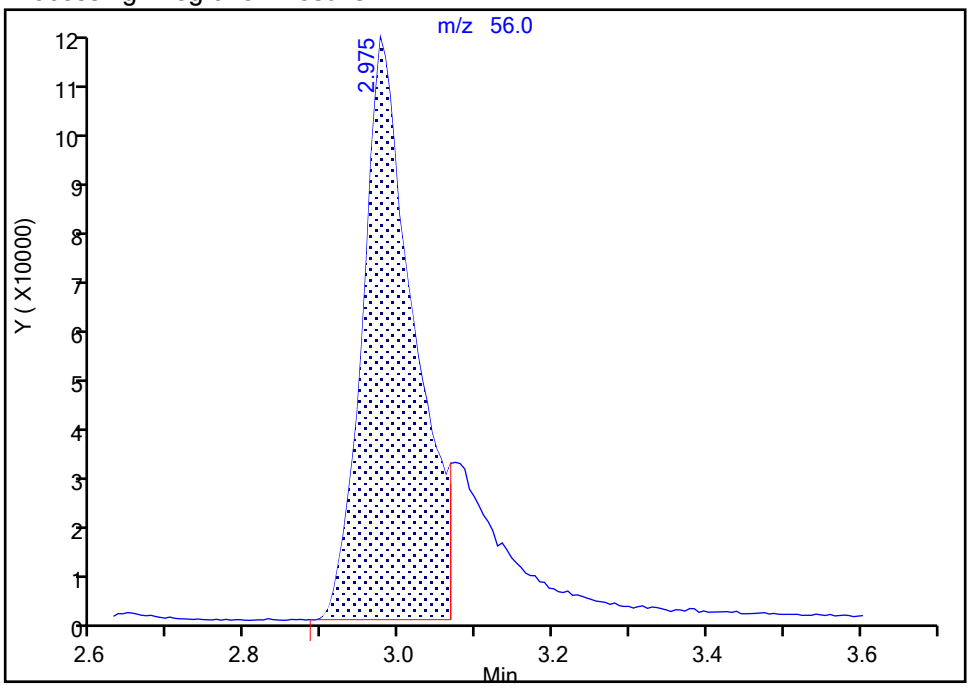
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

17 Acrolein, CAS: 107-02-8

Signal: 1

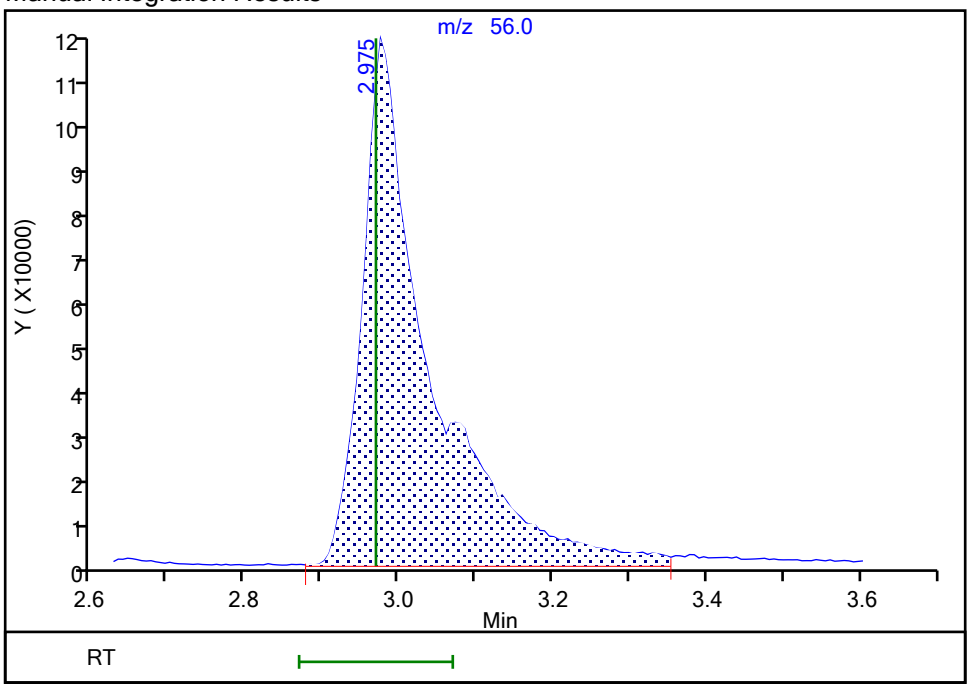
Processing Integration Results

RT: 2.98
Area: 527020
Amount: 74.327757
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 688718
Amount: 93.994583
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:49:16 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

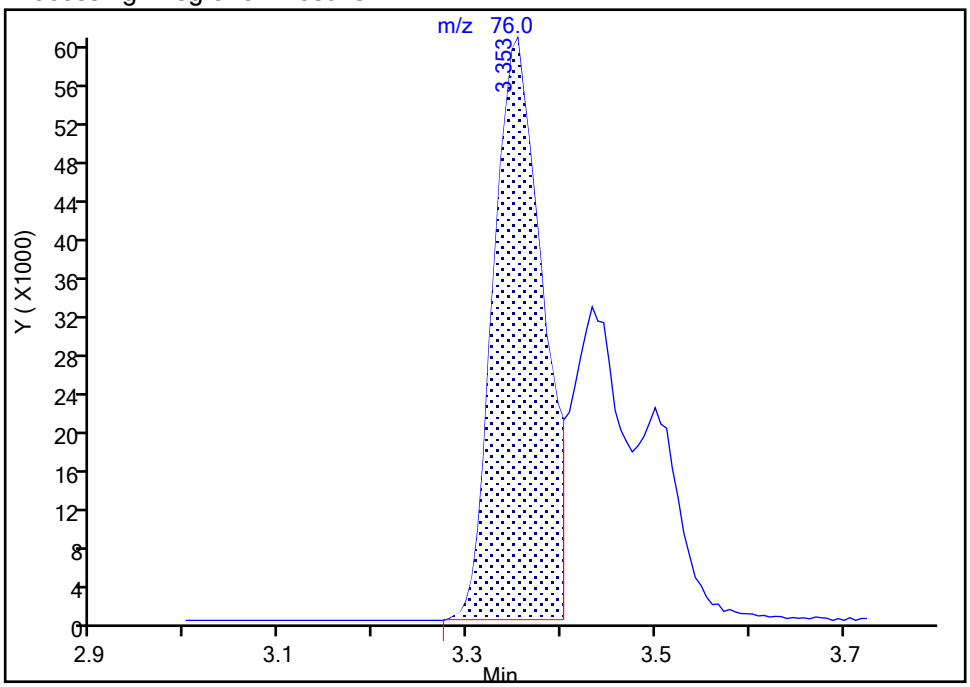
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

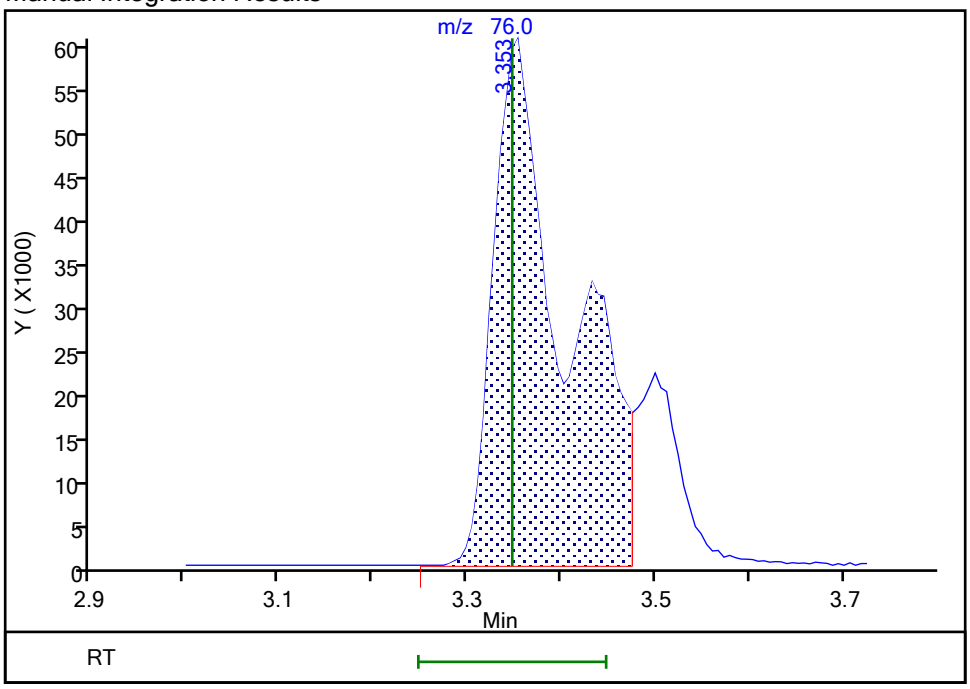
Processing Integration Results

RT: 3.35
Area: 221430
Amount: 1.510184
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 331656
Amount: 1.822402
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:10:56 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

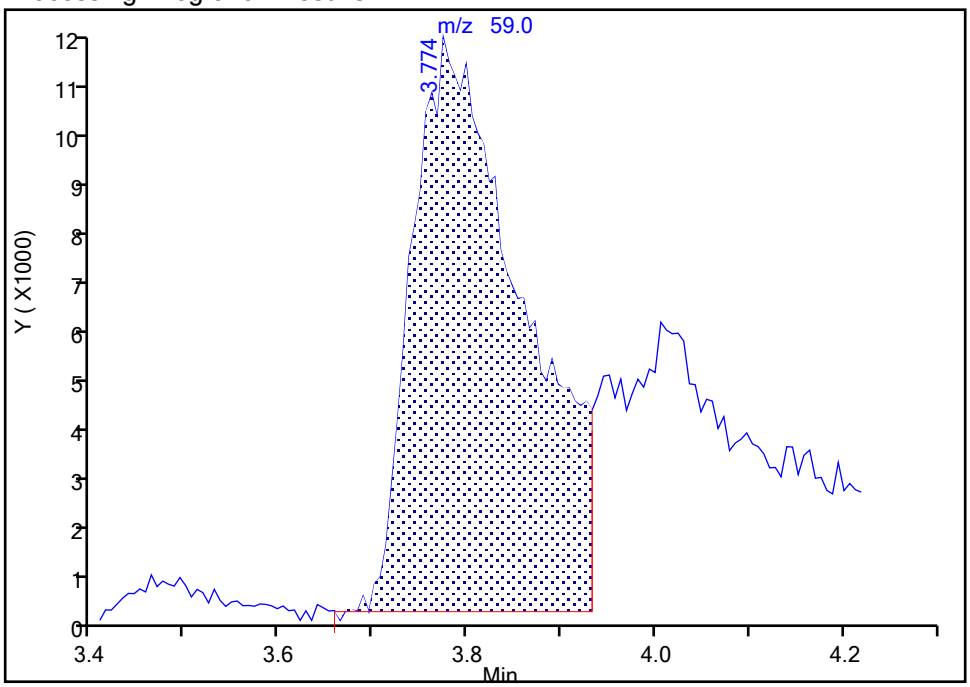
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

32 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

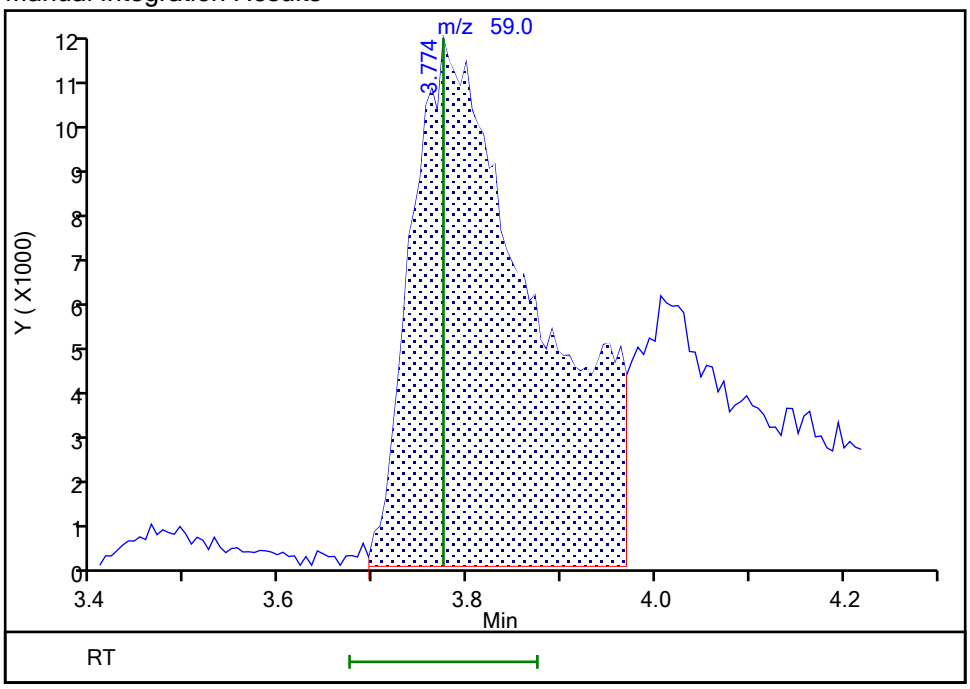
Processing Integration Results

RT: 3.77
Area: 90050
Amount: 26.491944
Amount Units: ug/l



Manual Integration Results

RT: 3.77
Area: 102513
Amount: 34.130122
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:11:38 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

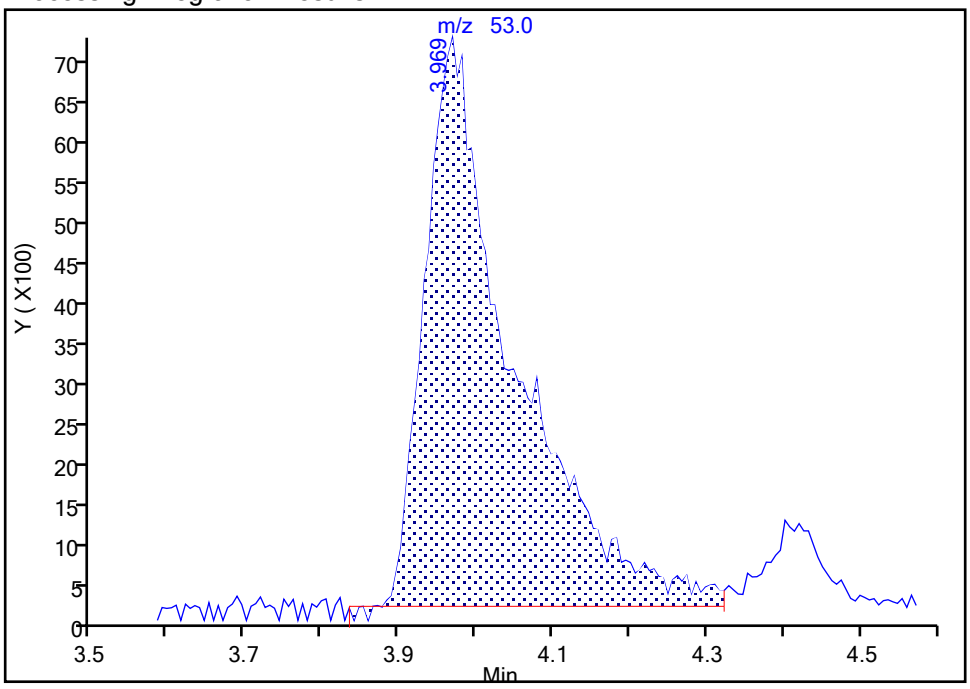
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

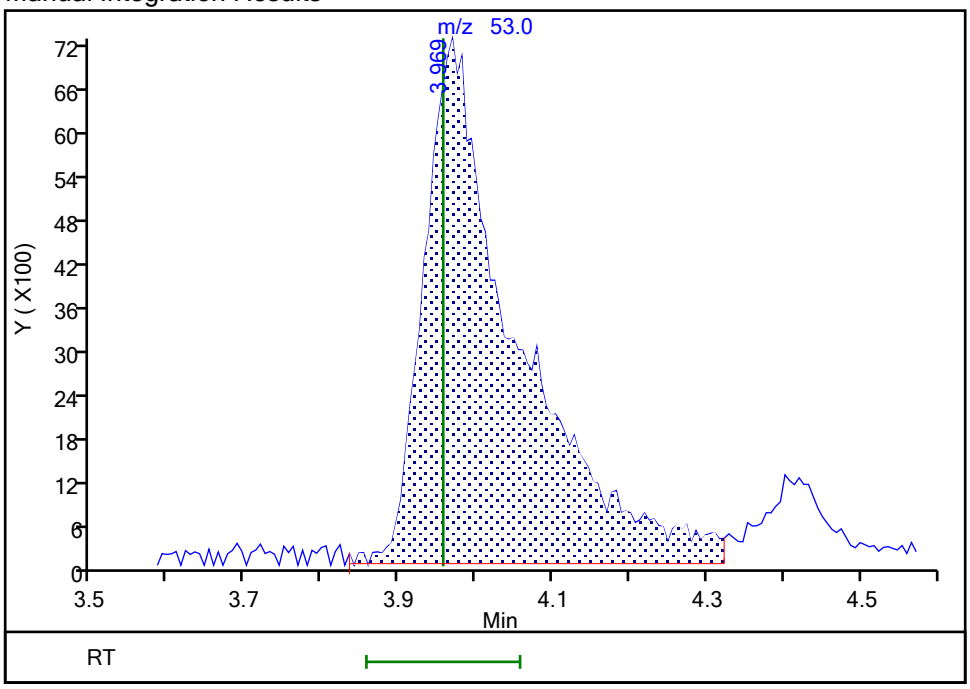
Processing Integration Results

RT: 3.97
Area: 57156
Amount: 4.113593
Amount Units: ug/l



Manual Integration Results

RT: 3.97
Area: 61778
Amount: 4.404383
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:49:48 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

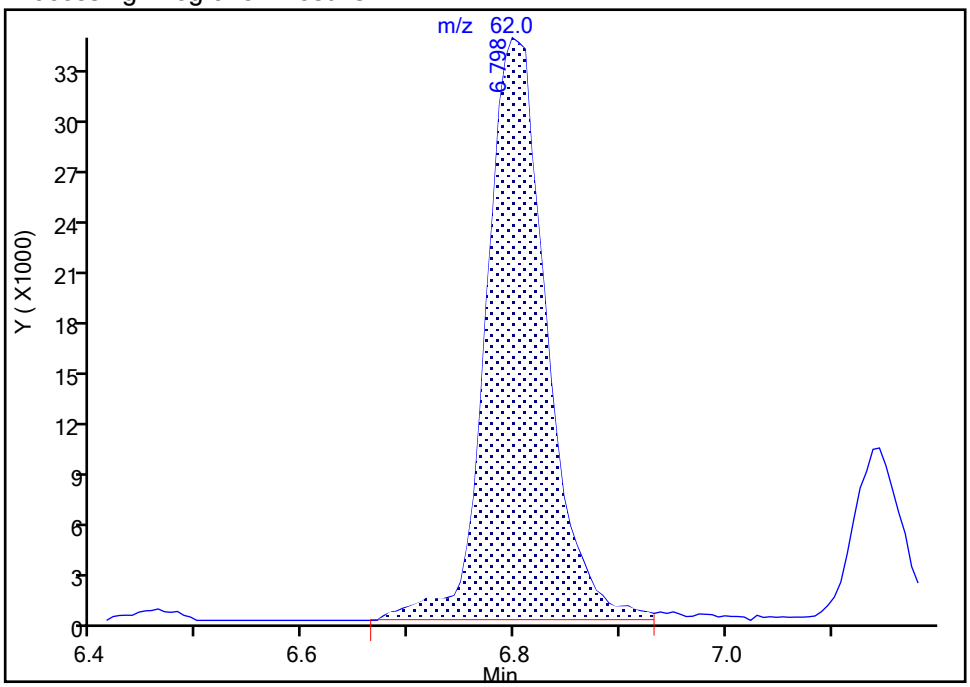
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

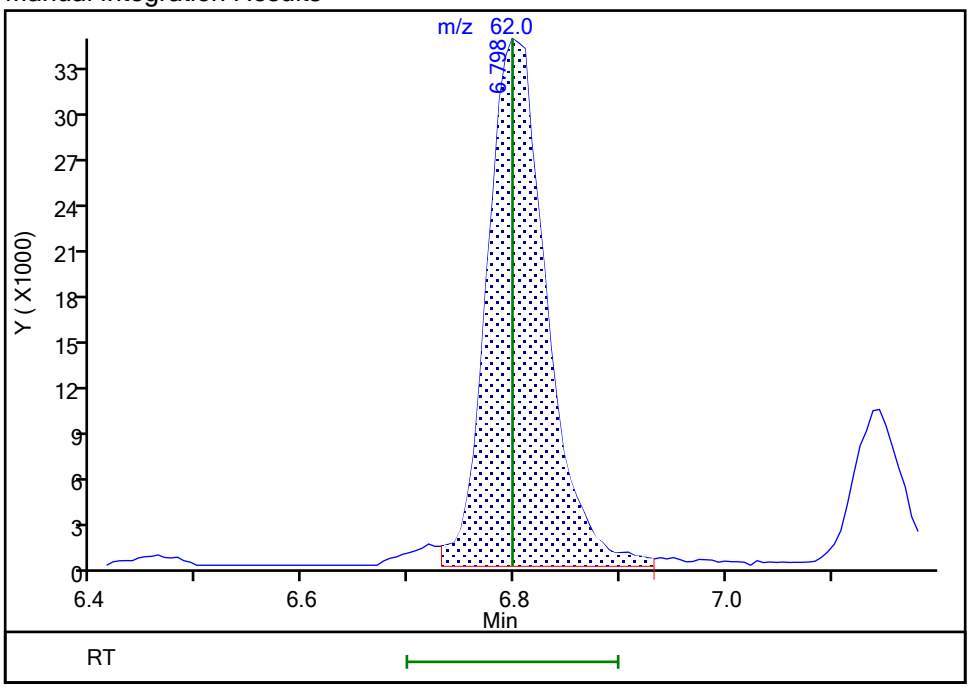
Processing Integration Results

RT: 6.80
Area: 136675
Amount: 1.860164
Amount Units: ug/l



Manual Integration Results

RT: 6.80
Area: 133938
Amount: 1.855425
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:22:48 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

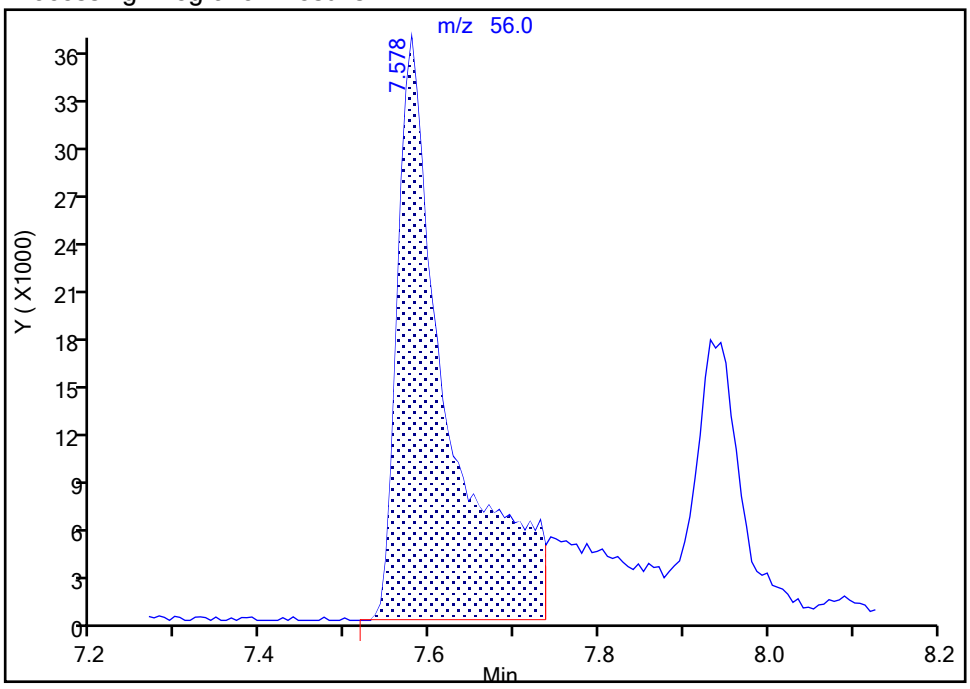
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

67 n-Butanol, CAS: 71-36-3

Signal: 1

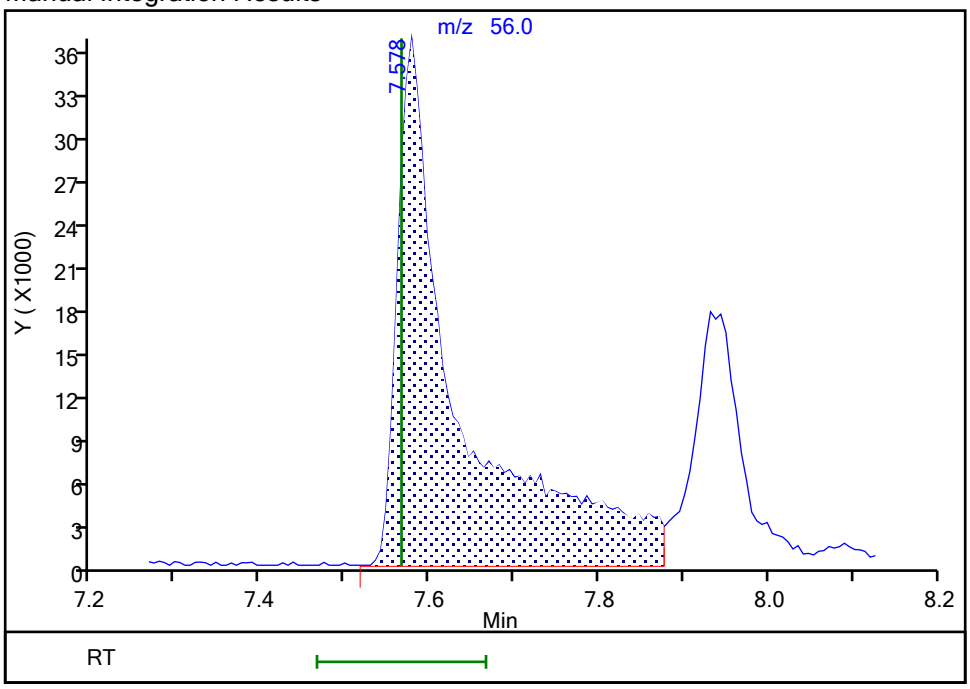
Processing Integration Results

RT: 7.58
Area: 148935
Amount: 135.3441
Amount Units: ug/l



Manual Integration Results

RT: 7.58
Area: 182657
Amount: 158.5027
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:50:14 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

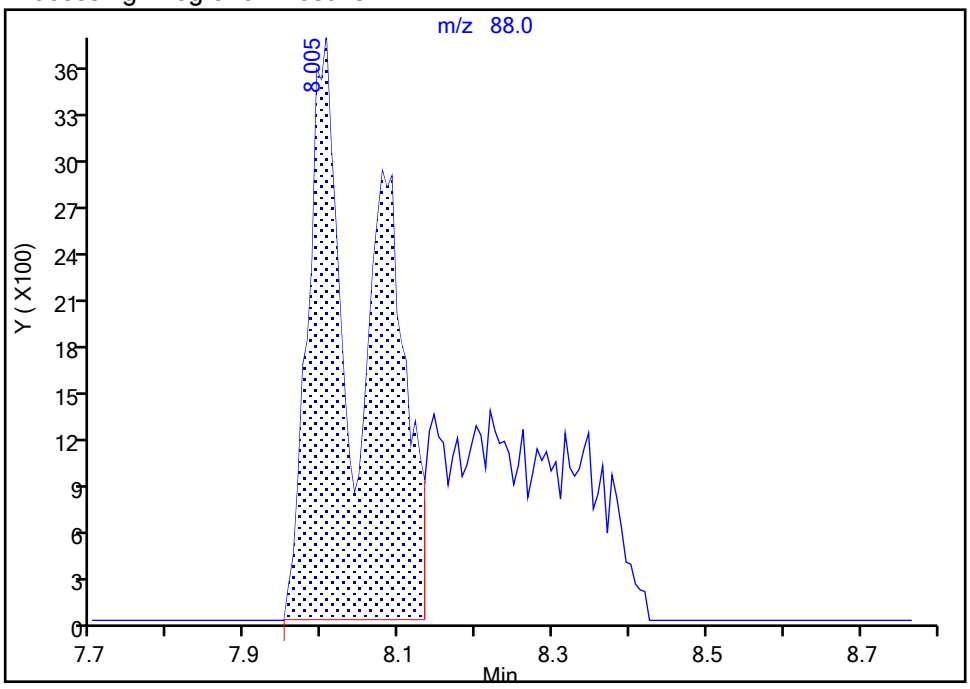
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X15.D				
Injection Date:	04-Jun-2025 22:13:30	Instrument ID:	10193		
Lims ID:	IC std4 2				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

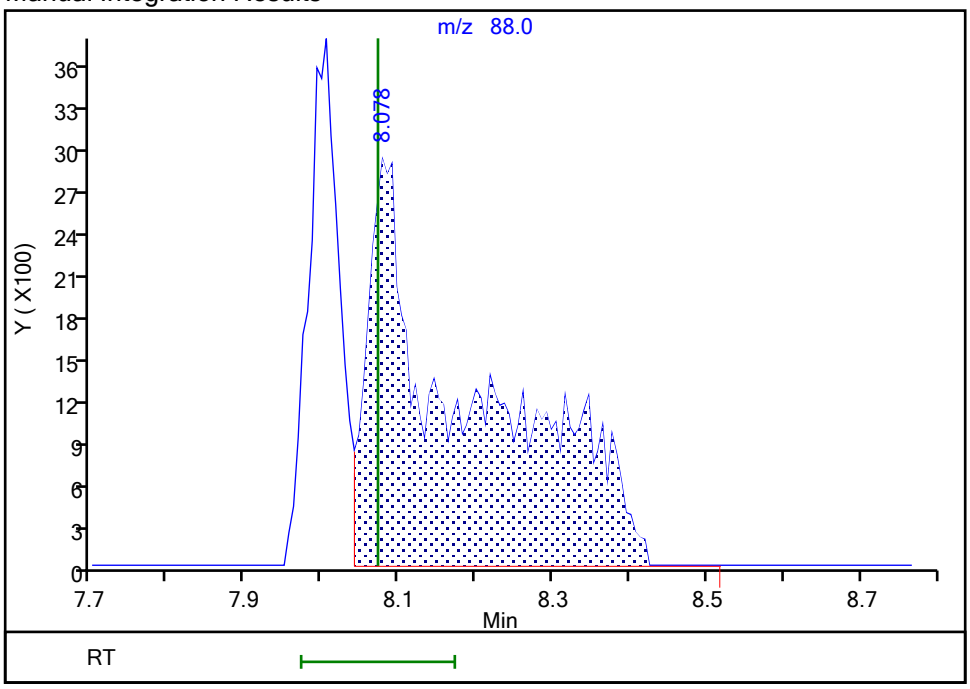
Processing Integration Results

RT: 8.00
Area: 20379
Amount: 73.714508
Amount Units: ug/l



Manual Integration Results

RT: 8.08
Area: 26267
Amount: 92.331167
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:50:24 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D
Lims ID: IC std5 5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 04-Jun-2025 22:35:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-017
Misc. Info.: IC STD5 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:37 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 10:48:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.762	1.762	0.000	100	368860	5.00	4.90	
5 Chloromethane	50	1.951	1.945	0.006	100	424548	5.00	4.75	
7 Butadiene	39	2.024	2.025	-0.001	93	487013	5.00	4.74	
6 Vinyl chloride	62	2.049	2.043	0.006	99	382975	5.00	4.85	
9 Bromomethane	94	2.354	2.348	0.006	90	234731	5.00	4.65	
10 Chloroethane	64	2.378	2.372	0.006	100	218478	5.00	4.88	
11 Dichlorofluoromethane	67	2.634	2.634	0.000	96	631197	5.00	4.88	M
13 Pentane	43	2.646	2.646	0.000	97	450993	5.00	5.19	
12 Trichlorofluoromethane	101	2.683	2.677	0.006	100	491822	5.00	4.93	
14 Ethyl ether	59	2.829	2.823	0.006	93	242768	5.00	5.10	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.927	-0.006	93	337108	5.00	4.83	
17 Acrolein	56	2.975	2.970	0.005	99	1934430	244.0	273.6	M
18 1,1-Dichloroethene	96	3.097	3.098	-0.001	99	246219	5.00	5.00	
20 Acetone	43	3.122	3.116	0.006	84	461621	50.0	50.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.146	3.140	0.006	94	274210	5.00	5.36	
24 Isopropyl alcohol	45	3.262	3.250	0.012	38	168123	100.0	95.8	M
22 Iodomethane	142	3.262	3.262	0.000	100	522326	5.00	5.21	
23 Ethyl bromide	108	3.286	3.280	0.006	99	244467	4.99	5.18	
25 Carbon disulfide	76	3.347	3.347	0.000	99	930282	5.00	5.13	M
26 Methyl acetate	43	3.481	3.469	0.012	57	122126	5.00	4.91	M
29 3-Chloro-1-propene	41	3.500	3.500	0.000	88	486779	5.00	5.25	
* 31 t-Butyl alcohol-d10 (IS)	65	3.683	3.652	0.031	93	195044	50.0	50.0	
30 Methylene Chloride	84	3.664	3.658	0.006	92	311605	5.00	5.24	
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	100	252888	100.0	87.3	
33 Acrylonitrile	53	3.963	3.957	0.006	98	161848	12.5	12.0	
34 Methyl tert-butyl ether	73	4.018	4.018	0.000	93	871880	5.00	5.18	
35 trans-1,2-Dichloroethene	96	4.018	4.018	0.000	99	317436	5.00	5.23	
36 Hexane	57	4.420	4.414	0.006	94	440670	5.00	5.33	
37 1,1-Dichloroethane	63	4.658	4.658	0.000	96	582751	5.00	5.27	
39 Isopropyl ether	45	4.725	4.725	0.000	94	1077291	5.00	5.27	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.774	4.768	0.006	92	505348	5.00	5.18	
41 Tert-butyl ethyl ether	59	5.280	5.274	0.006	98	1061955	5.00	5.27	
42 2-Butanone (MEK)	43	5.481	5.475	0.006	100	917331	50.0	51.8	
43 cis-1,2-Dichloroethene	96	5.518	5.512	0.006	84	369626	5.00	5.28	
44 2,2-Dichloropropane	77	5.530	5.530	0.000	89	443343	5.00	5.11	
45 Propionitrile	54	5.579	5.573	0.006	99	532040	100.0	111.3	
47 Methacrylonitrile	67	5.792	5.798	-0.006	93	925357	50.0	53.9	
48 Chlorobromomethane	128	5.853	5.853	0.000	93	166229	5.00	5.32	
49 Tetrahydrofuran	71	5.853	5.853	0.000	83	134185	25.0	26.6	
50 Chloroform	83	6.011	6.012	-0.001	95	594283	5.00	5.29	
S 52 1,2-Dichloroethene, Total	100				0			10.5	
$ 54 Dibromofluoromethane (Surr)	113	6.237	6.231	0.006	93	545788	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	84	511035	5.00	5.20	
55 Cyclohexane	56	6.335	6.329	0.006	92	549662	5.00	5.26	
56 Carbon tetrachloride	117	6.444	6.444	0.000	98	446477	5.00	5.33	
57 1,1-Dichloropropene	75	6.456	6.457	-0.001	95	456100	5.00	5.17	
58 Isobutyl alcohol	41	6.652	6.652	0.000	92	309892	250.0	262.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.700	6.694	0.006	99	113081	10.0	10.0	
60 Benzene	78	6.725	6.725	0.000	97	1375923	5.00	5.23	
61 1,2-Dichloroethane	62	6.804	6.798	0.006	97	380971	5.00	5.29	M
64 Tert-amyl methyl ether	73	6.932	6.932	0.000	98	955235	5.00	5.31	
* 65 Fluorobenzene (IS)	96	7.145	7.139	0.006	98	2313176	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	92	438591	5.00	5.38	
67 n-Butanol	56	7.572	7.566	0.006	90	541776	437.5	487.3	
68 Trichloroethene	95	7.633	7.633	0.000	99	365052	5.00	5.24	
69 Methylcyclohexane	83	7.944	7.938	0.006	92	599230	5.00	5.36	
70 1,2-Dichloropropane	63	7.974	7.975	-0.001	96	354789	5.00	5.27	
71 2-ethoxy-2-methyl butane	87	8.005	8.005	0.000	93	563060	5.00	5.34	
74 1,4-Dioxane	88	8.072	8.072	0.000	34	72553	250.0	264.3	M
73 Methyl methacrylate	69	8.084	8.084	0.000	91	185459	5.00	5.25	
72 Dibromomethane	93	8.084	8.084	0.000	91	177036	5.00	5.32	
76 Dichlorobromomethane	83	8.334	8.334	0.000	99	439442	5.00	5.36	
77 2-Nitropropane	41	8.621	8.621	0.000	99	295063	25.0	25.9	
78 1-Bromo-2-chloroethane	63	8.730	8.731	-0.001	99	350362	5.00	5.31	
80 cis-1,3-Dichloropropene	75	8.907	8.907	0.000	95	542722	5.00	5.37	
82 4-Methyl-2-pentanone (MIBK)	43	9.121	9.115	0.006	97	2453811	50.0	52.2	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2323180	10.0	10.0	
84 Toluene	92	9.334	9.328	0.006	98	898264	5.00	5.24	
85 trans-1,3-Dichloropropene	75	9.627	9.627	0.000	95	463719	5.00	5.35	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	412442	5.00	5.49	
87 1,1,2-Trichloroethane	97	9.840	9.846	-0.006	91	259067	5.00	5.27	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	413166	5.00	5.19	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	92	440551	5.00	5.29	
S 107 1,3-Dichloropropene, Total	100				0			10.7	
106 2-Hexanone	43	10.090	10.090	0.000	97	1807304	50.0	53.8	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	328142	5.00	5.47	
110 Ethylene Dibromide	107	10.352	10.352	0.000	99	257871	5.00	5.41	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.815	0.000	86	1764929	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	98	488277	5.00	5.08	
113 Chlorobenzene	112	10.840	10.840	0.000	95	1040176	5.00	5.30	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	96	364416	5.00	5.46	
115 Ethylbenzene	91	10.937	10.937	0.000	98	1807246	5.00	5.30	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	97	1425023	10.0	10.8	
S 117 Xylenes, Total	106				0			16.1	
118 o-Xylene	106	11.401	11.401	0.000	97	695086	5.00	5.32	
119 Styrene	104	11.419	11.419	0.000	94	1183154	5.00	5.45	
120 Bromoform	173	11.577	11.578	-0.001	97	196118	5.00	5.61	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	1611339	5.00	5.36	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	92	883630	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	93	331165	5.00	5.34	
125 Bromobenzene	156	11.980	11.980	0.000	97	458738	5.00	5.26	
127 trans-1,4-Dichloro-2-butene	53	12.004	12.004	0.000	94	832051	50.0	56.0	
128 1,2,3-Trichloropropane	110	12.022	12.023	-0.001	82	90769	5.00	5.34	
129 N-Propylbenzene	91	12.059	12.059	0.000	99	2148429	5.00	5.30	
130 2-Chlorotoluene	126	12.132	12.132	0.000	96	431288	5.00	5.18	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	93	1556329	5.00	5.31	
132 4-Chlorotoluene	126	12.230	12.230	0.000	97	451553	5.00	5.23	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	347754	5.00	5.17	
134 Pentachloroethane	167	12.480	12.474	0.006	93	273834	5.00	5.30	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	1601753	5.00	5.32	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1986304	5.00	5.31	
137 1,3-Dichlorobenzene	146	12.711	12.712	-0.001	98	896416	5.00	5.36	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	1740754	5.00	5.32	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.772	0.000	94	982114	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	-0.001	95	910871	5.00	5.22	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	99	710123	5.00	5.22	
142 Benzyl chloride	126	12.870	12.870	0.000	99	121164	5.00	5.56	
145 p-Diethylbenzene	119	13.004	13.004	0.000	96	1058758	5.00	5.35	
143 n-Butylbenzene	92	13.028	13.029	0.000	97	838585	5.00	5.32	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	811448	5.00	5.32	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	86	47000	5.00	5.67	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	631233	5.00	5.39	
150 1,2,4-Trichlorobenzene	180	14.168	14.169	-0.001	94	487193	5.00	5.50	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	256357	5.00	5.18	
152 Naphthalene	128	14.351	14.345	0.006	97	826933	5.00	5.71	
153 1,2,3-Trichlorobenzene	180	14.491	14.492	-0.001	96	381517	5.00	5.56	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	288960	5.00	4.92	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00168	Amount Added:	5.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added:	5.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added:	5.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

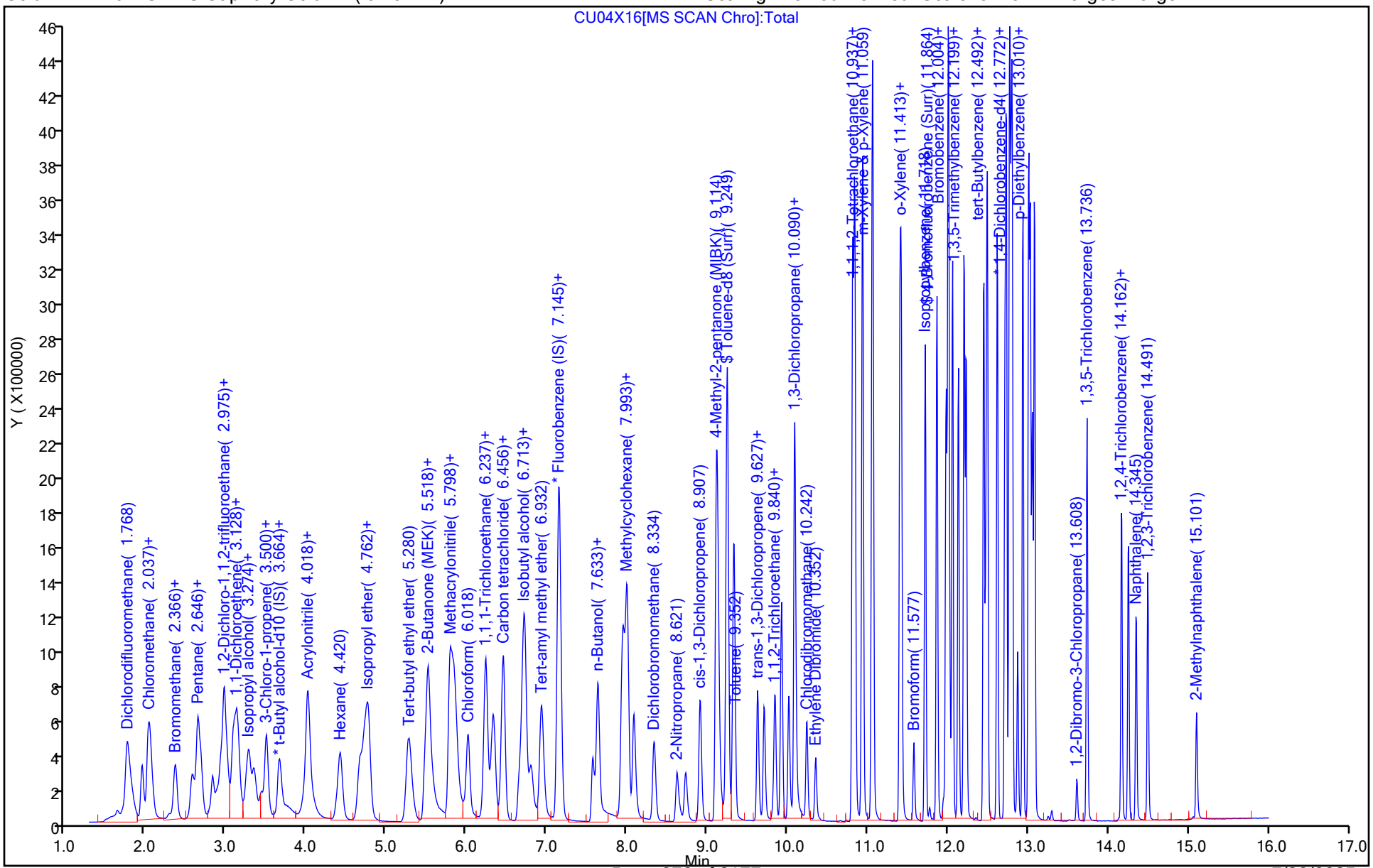
Report Date: 06-Jun-2025 09:18:38 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D

Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std5 5			Worklist Smp#:	17
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

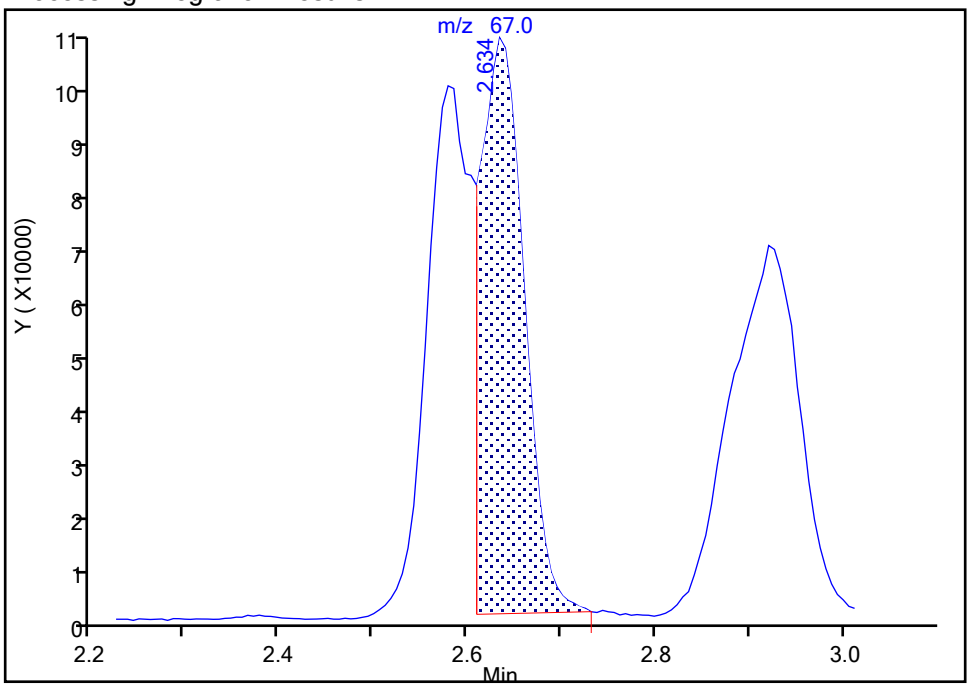
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D				
Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

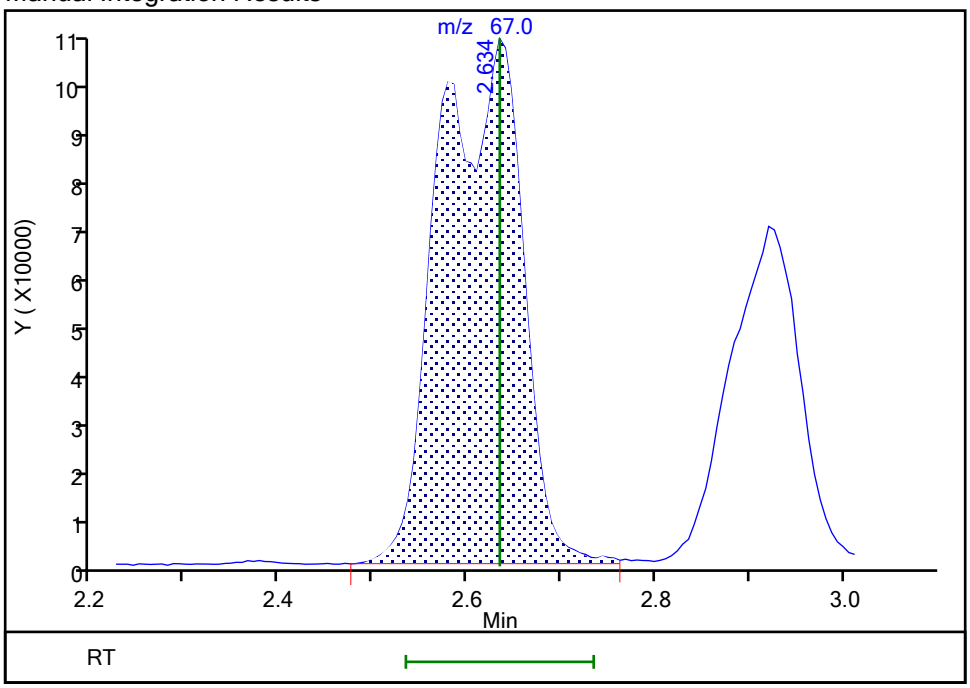
Processing Integration Results

RT: 2.63
Area: 328728
Amount: 3.704532
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 631197
Amount: 4.884863
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:46:56 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

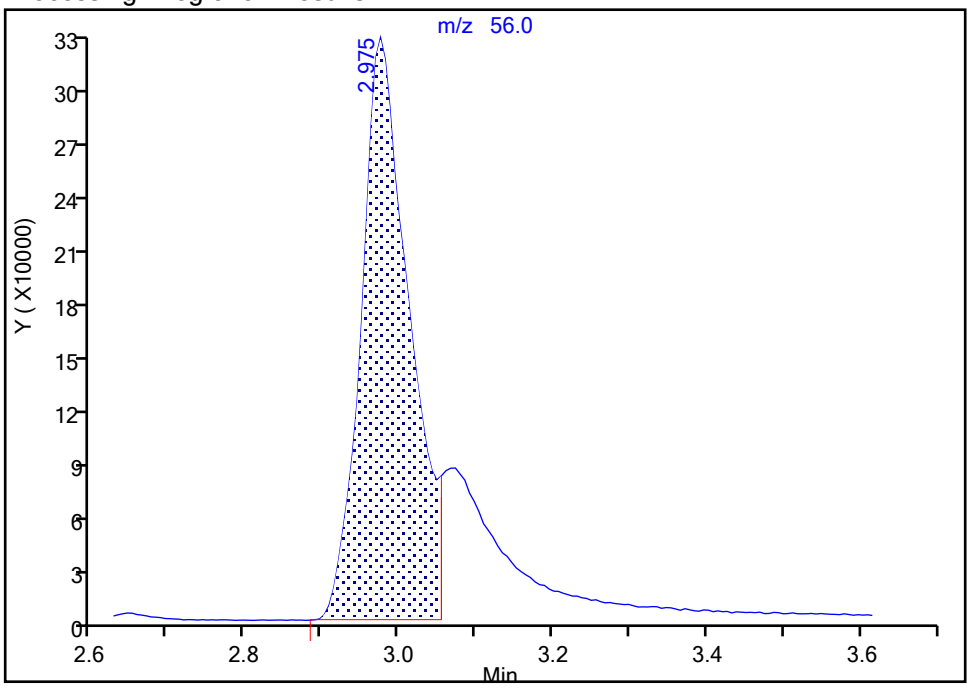
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D				
Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

17 Acrolein, CAS: 107-02-8

Signal: 1

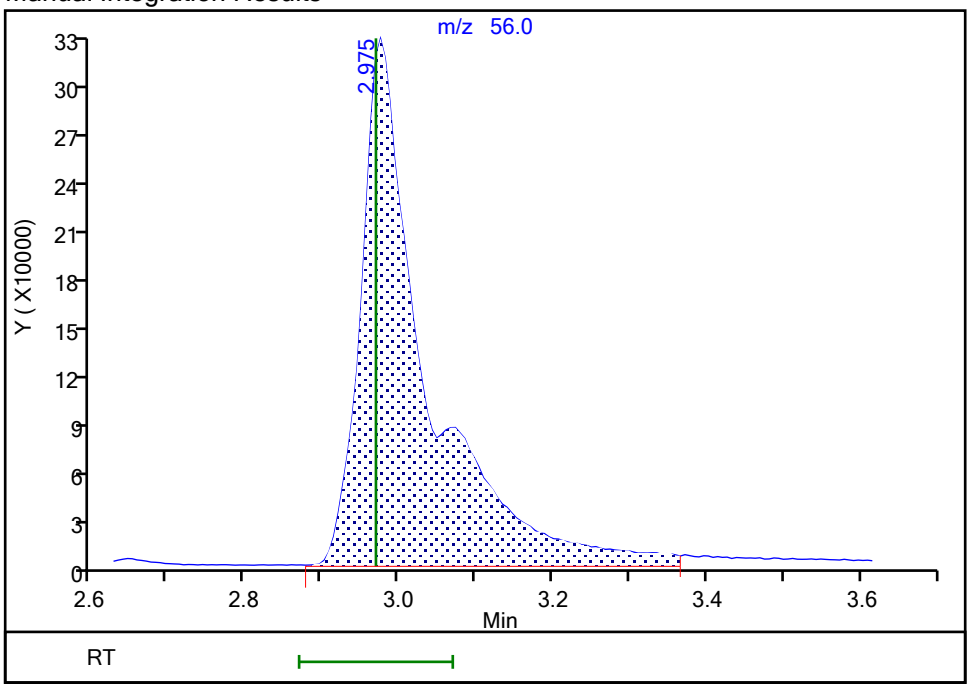
Processing Integration Results

RT: 2.98
Area: 1427678
Amount: 218.1653
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 1934430
Amount: 273.6438
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:47:10 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

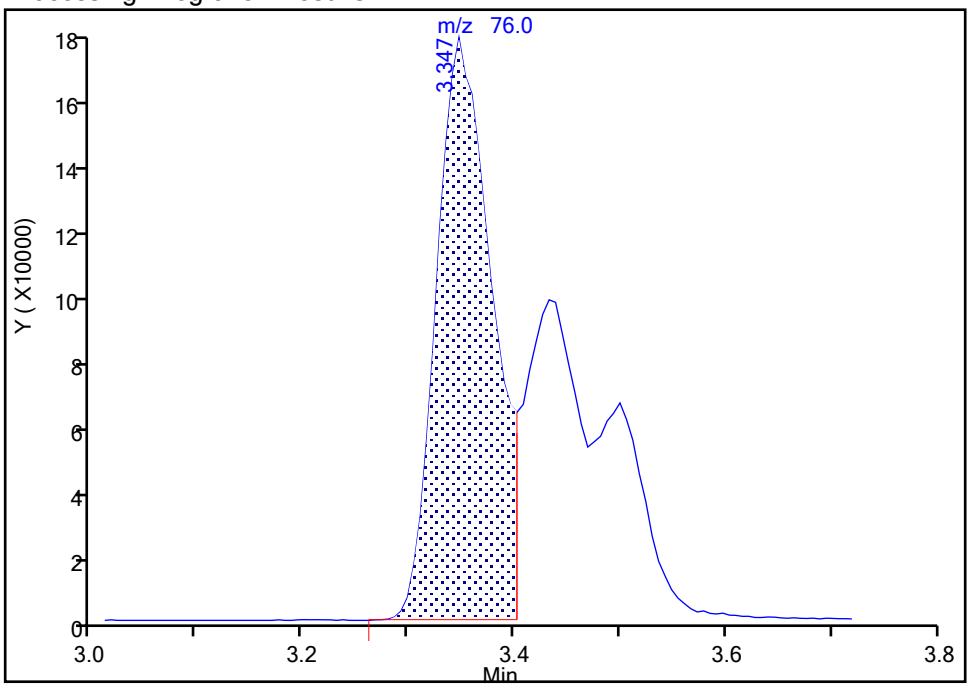
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D				
Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

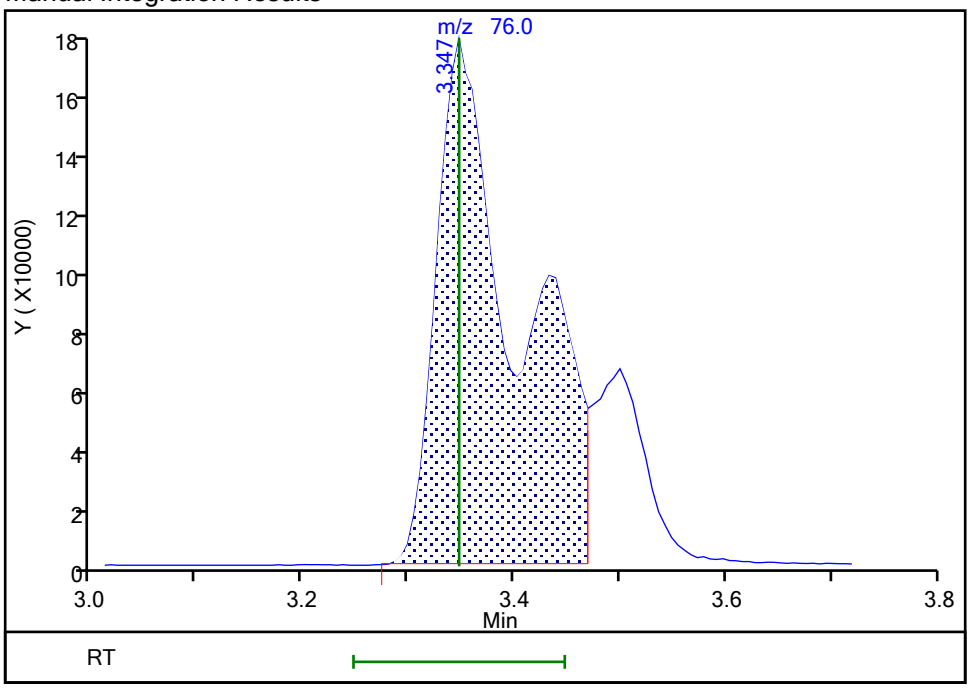
Processing Integration Results

RT: 3.35
Area: 631006
Amount: 4.585951
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 930282
Amount: 5.128496
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:47:24 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

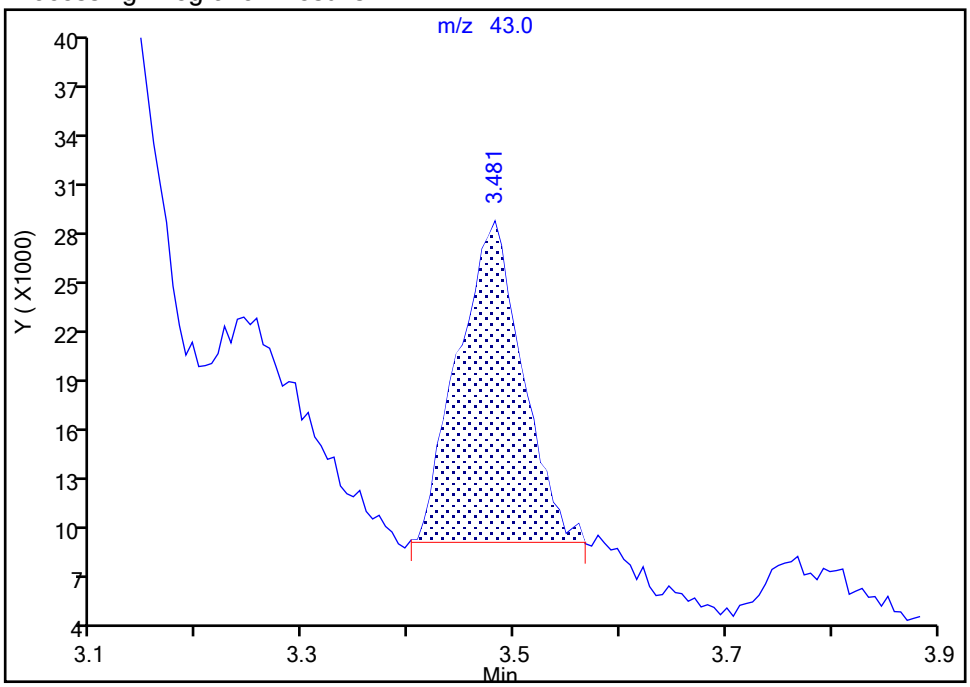
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D				
Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

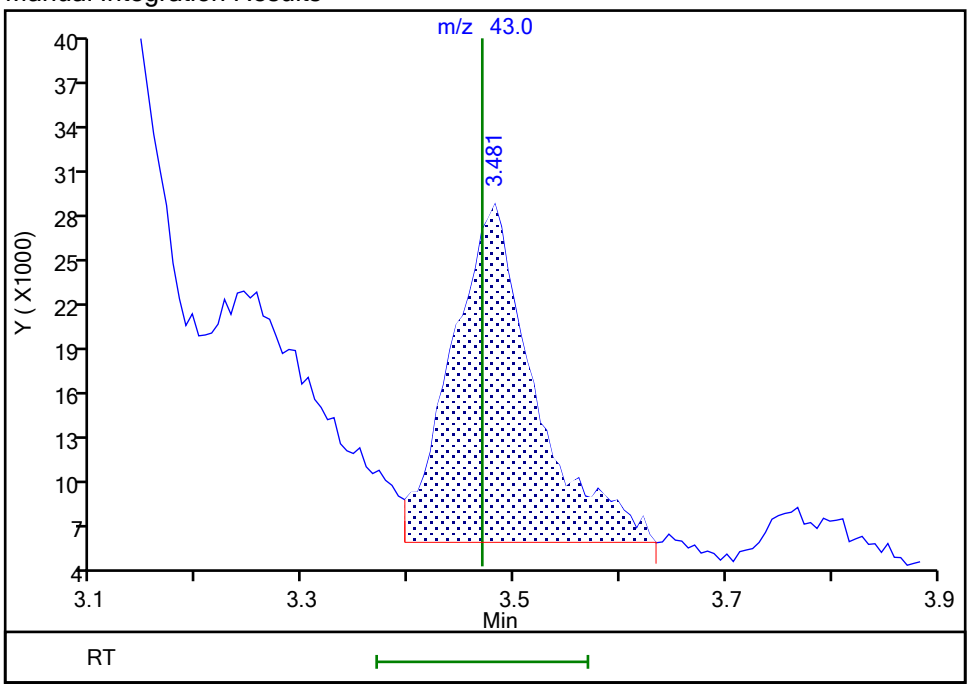
Processing Integration Results

RT: 3.48
Area: 81867
Amount: 3.904442
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 122126
Amount: 4.914816
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:47:38 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

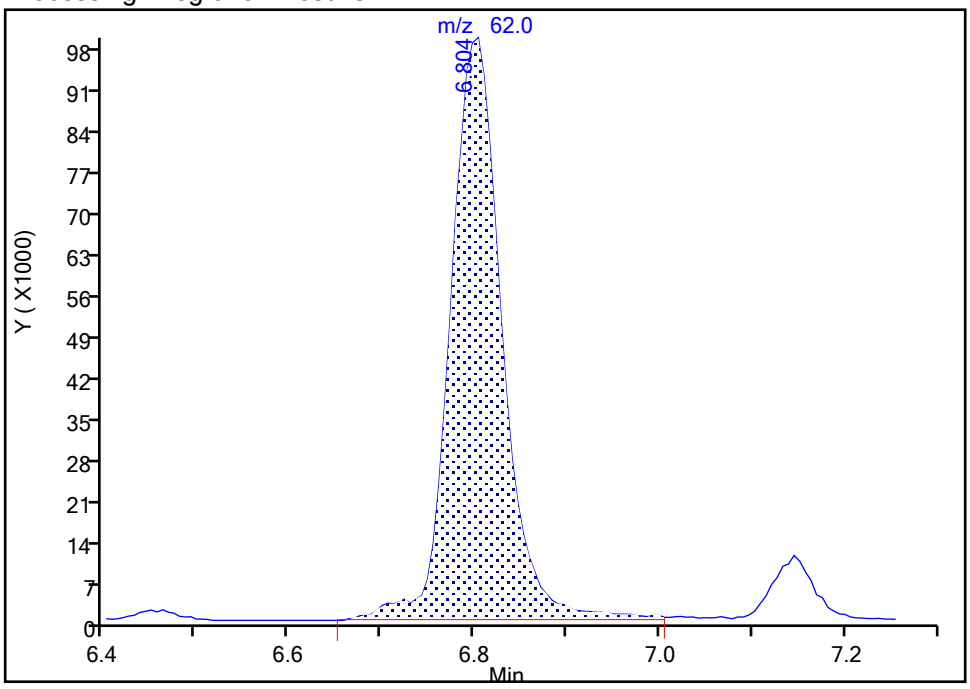
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D				
Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

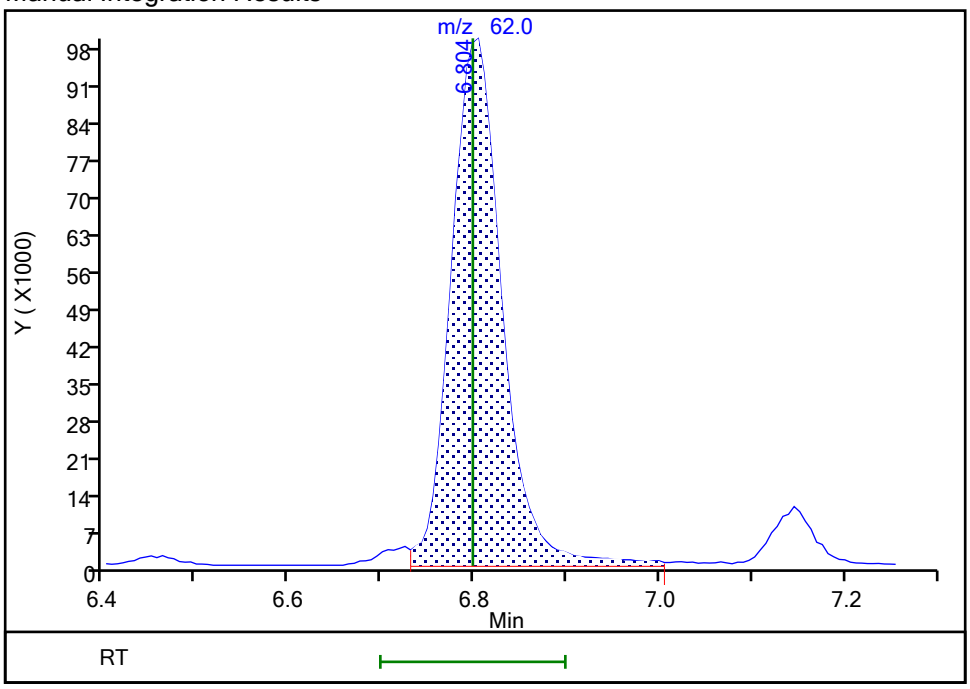
Processing Integration Results

RT: 6.80
Area: 388314
Amount: 5.316443
Amount Units: ug/l



Manual Integration Results

RT: 6.80
Area: 380971
Amount: 5.294811
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:23:02 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

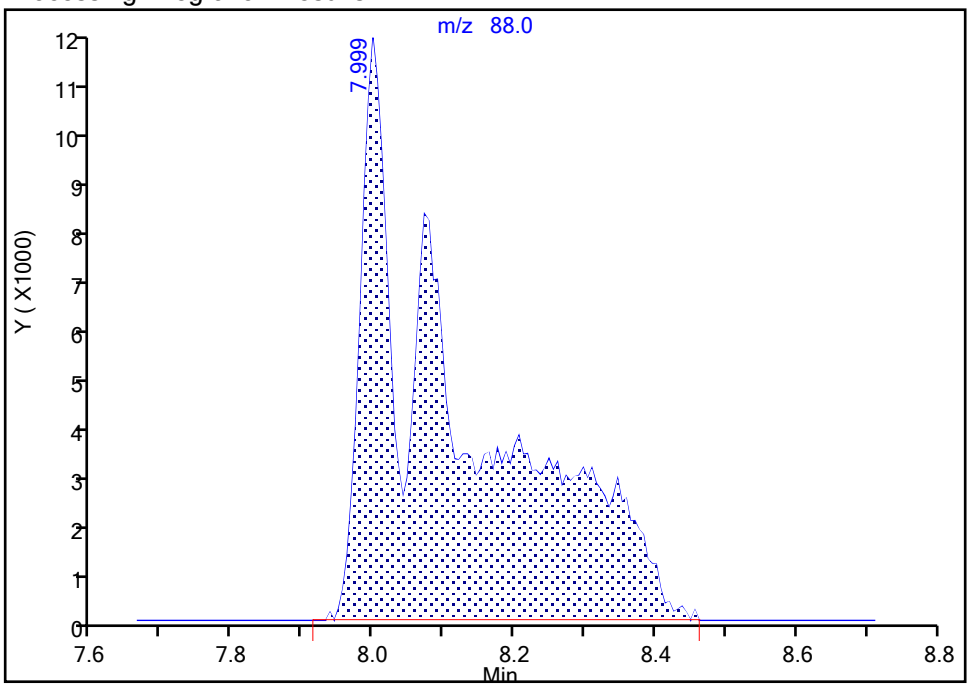
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X16.D				
Injection Date:	04-Jun-2025 22:35:30	Instrument ID:	10193		
Lims ID:	IC std5 5				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

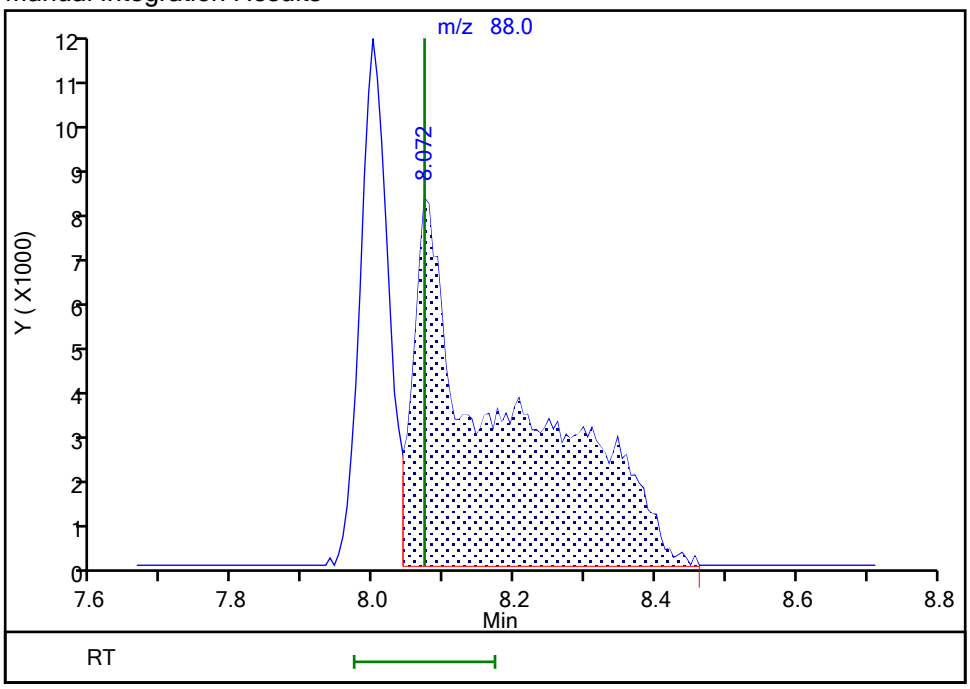
Processing Integration Results

RT: 8.00
Area: 103490
Amount: 363.8887
Amount Units: ug/l



Manual Integration Results

RT: 8.07
Area: 72553
Amount: 264.3410
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:48:01 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D
Lims ID: ICIS 10
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 04-Jun-2025 22:57:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-018
Misc. Info.: IC STD10 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:18:42 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: UKEK Date: 06-Jun-2025 09:16:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.762	1.762	0.000	100	711315	10.0	9.27	
5 Chloromethane	50	1.945	1.945	0.000	100	829326	10.0	9.11	
7 Butadiene	39	2.025	2.025	0.000	91	867379	10.0	8.28	M
6 Vinyl chloride	62	2.043	2.043	0.000	99	755121	10.0	9.39	
9 Bromomethane	94	2.348	2.348	0.000	92	481890	10.0	9.37	
10 Chloroethane	64	2.372	2.372	0.000	100	428938	10.0	9.41	
11 Dichlorofluoromethane	67	2.634	2.634	0.000	98	1243761	10.0	9.45	M
13 Pentane	43	2.646	2.646	0.000	97	834535	10.0	9.43	
12 Trichlorofluoromethane	101	2.677	2.677	0.000	99	940667	10.0	9.25	
14 Ethyl ether	59	2.823	2.823	0.000	93	491609	10.0	10.1	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.927	2.927	0.000	93	675780	10.0	9.50	
17 Acrolein	56	2.970	2.970	0.000	99	2884485	487.9	406.7	
18 1,1-Dichloroethene	96	3.098	3.098	0.000	99	483327	10.0	9.64	
20 Acetone	43	3.116	3.116	0.000	99	889005	100.0	96.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	95	503735	10.0	9.67	
24 Isopropyl alcohol	45	3.250	3.250	0.000	36	331921	200.0	188.6	M
22 Iodomethane	142	3.262	3.262	0.000	99	1037853	10.0	10.2	
23 Ethyl bromide	108	3.280	3.280	0.000	99	488634	9.99	10.2	
25 Carbon disulfide	76	3.347	3.347	0.000	99	1831634	10.0	9.91	M
26 Methyl acetate	43	3.469	3.469	0.000	81	222342	10.0	8.92	M
29 3-Chloro-1-propene	41	3.500	3.500	0.000	90	969689	10.0	10.3	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	93	195687	50.0	50.0	
30 Methylene Chloride	84	3.658	3.658	0.000	92	621763	10.0	10.3	
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	100	526705	200.0	181.2	
33 Acrylonitrile	53	3.957	3.957	0.000	98	323997	25.0	23.9	
34 Methyl tert-butyl ether	73	4.018	4.018	0.000	95	1732814	10.0	10.1	
35 trans-1,2-Dichloroethene	96	4.018	4.018	0.000	99	629272	10.0	10.2	
36 Hexane	57	4.414	4.414	0.000	93	815383	10.0	9.68	
37 1,1-Dichloroethane	63	4.658	4.658	0.000	97	1143325	10.0	10.1	
39 Isopropyl ether	45	4.725	4.725	0.000	94	2133631	10.0	10.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	92	1005337	10.0	10.1	
41 Tert-butyl ethyl ether	59	5.274	5.274	0.000	98	2111946	10.0	10.3	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	100	1820498	100.0	102.5	
43 cis-1,2-Dichloroethene	96	5.512	5.512	0.000	84	728703	10.0	10.2	
44 2,2-Dichloropropane	77	5.530	5.530	0.000	89	864914	10.0	9.78	
45 Propionitrile	54	5.573	5.573	0.000	99	1035564	200.0	216.0	
47 Methacrylonitrile	67	5.798	5.798	0.000	92	1818764	100.0	105.7	
48 Chlorobromomethane	128	5.853	5.853	0.000	94	323186	10.0	10.2	
49 Tetrahydrofuran	71	5.853	5.853	0.000	74	262439	50.0	51.9	
50 Chloroform	83	6.012	6.012	0.000	95	1169649	10.0	10.2	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	559311	10.0	10.1	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	98	1008421	10.0	10.1	
55 Cyclohexane	56	6.329	6.329	0.000	92	1047509	10.0	9.84	
56 Carbon tetrachloride	117	6.444	6.444	0.000	98	873731	10.0	10.2	
57 1,1-Dichloropropene	75	6.457	6.457	0.000	96	900783	10.0	10.0	
58 Isobutyl alcohol	41	6.652	6.652	0.000	94	598754	500.0	505.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	96	113375	10.0	9.88	
60 Benzene	78	6.725	6.725	0.000	97	2772615	10.0	10.3	
61 1,2-Dichloroethane	62	6.798	6.798	0.000	98	737050	10.0	10.1	
64 Tert-amyl methyl ether	73	6.932	6.932	0.000	98	1895057	10.0	10.3	
* 65 Fluorobenzene (IS)	96	7.146	7.146	0.000	99	2356745	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	91	815564	10.0	9.83	
67 n-Butanol	56	7.566	7.566	0.000	89	1064292	875.0	954.1	
68 Trichloroethene	95	7.633	7.633	0.000	99	719194	10.0	10.1	
69 Methylcyclohexane	83	7.938	7.938	0.000	91	1126284	10.0	9.88	
70 1,2-Dichloropropane	63	7.975	7.975	0.000	96	701824	10.0	10.2	
71 2-ethoxy-2-methyl butane	87	8.005	8.005	0.000	93	1122374	10.0	10.4	
74 1,4-Dioxane	88	8.072	8.072	0.000	33	133857	500.0	486.1	M
73 Methyl methacrylate	69	8.084	8.084	0.000	90	356016	10.0	10.0	
72 Dibromomethane	93	8.084	8.084	0.000	90	350295	10.0	10.3	
76 Dichlorobromomethane	83	8.334	8.334	0.000	100	872507	10.0	10.4	
77 2-Nitropropane	41	8.621	8.621	0.000	99	585376	50.0	51.1	
78 1-Bromo-2-chloroethane	63	8.731	8.731	0.000	99	710679	10.0	10.6	
80 cis-1,3-Dichloropropene	75	8.907	8.907	0.000	95	1083083	10.0	10.5	
82 4-Methyl-2-pentanone (MIBK)	43	9.115	9.115	0.000	97	5021327	100.0	106.5	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2339352	10.0	9.98	
84 Toluene	92	9.328	9.328	0.000	98	1766699	10.0	10.2	
85 trans-1,3-Dichloropropene	75	9.627	9.627	0.000	94	936248	10.0	10.7	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	824386	10.0	10.9	
87 1,1,2-Trichloroethane	97	9.846	9.846	0.000	91	505817	10.0	10.2	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	800949	10.0	9.95	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	92	871446	10.0	10.3	
106 2-Hexanone	43	10.090	10.090	0.000	96	3583142	100.0	106.3	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	654881	10.0	10.8	
110 Ethylene Dibromide	107	10.352	10.352	0.000	99	508777	10.0	10.6	
* 111 Chlorobenzene-d5 (IS)	117	10.816	10.816	0.000	86	1784969	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	938849	10.0	9.65	
113 Chlorobenzene	112	10.840	10.840	0.000	95	2035693	10.0	10.3	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	96	714022	10.0	10.6	
115 Ethylbenzene	91	10.937	10.937	0.000	98	3573708	10.0	10.4	
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	96	2785164	20.0	20.8	
118 o-Xylene	106	11.401	11.401	0.000	97	1373841	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.419	11.419	0.000	95	2333644	10.0	10.6	
120 Bromoform	173	11.578	11.578	0.000	97	393310	10.0	11.1	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	3160521	10.0	10.4	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	92	892633	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	91	658027	10.0	10.4	
125 Bromobenzene	156	11.980	11.980	0.000	95	897841	10.0	10.1	
127 trans-1,4-Dichloro-2-butene	53	12.004	12.004	0.000	94	1730386	100.0	114.6	
128 1,2,3-Trichloropropane	110	12.023	12.023	0.000	82	177391	10.0	10.3	
129 N-Propylbenzene	91	12.059	12.059	0.000	99	4231523	10.0	10.3	
130 2-Chlorotoluene	126	12.132	12.132	0.000	97	854229	10.0	10.1	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	3063306	10.0	10.3	
132 4-Chlorotoluene	126	12.230	12.230	0.000	97	891868	10.0	10.2	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	685518	10.0	10.0	
134 Pentachloroethane	167	12.474	12.474	0.000	93	573273	10.0	10.9	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	3198872	10.0	10.5	
136 sec-Butylbenzene	105	12.614	12.614	0.000	95	3895567	10.0	10.2	
137 1,3-Dichlorobenzene	146	12.712	12.712	0.000	98	1754616	10.0	10.3	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	3396561	10.0	10.2	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	997762	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	95	1796973	10.0	10.1	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	99	1413730	10.0	10.2	
142 Benzyl chloride	126	12.870	12.870	0.000	99	242134	10.0	10.9	
145 p-Diethylbenzene	119	13.004	13.004	0.000	93	2096466	10.0	10.4	
143 n-Butylbenzene	92	13.029	13.029	0.000	97	1655944	10.0	10.3	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	1622585	10.0	10.5	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	86	94571	10.0	11.2	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	1270413	10.0	10.7	
150 1,2,4-Trichlorobenzene	180	14.169	14.169	0.000	94	1008958	10.0	11.2	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	500714	10.0	9.96	
152 Naphthalene	128	14.345	14.345	0.000	97	1726665	10.0	11.7	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	785866	10.0	11.3	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	657120	10.0	10.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

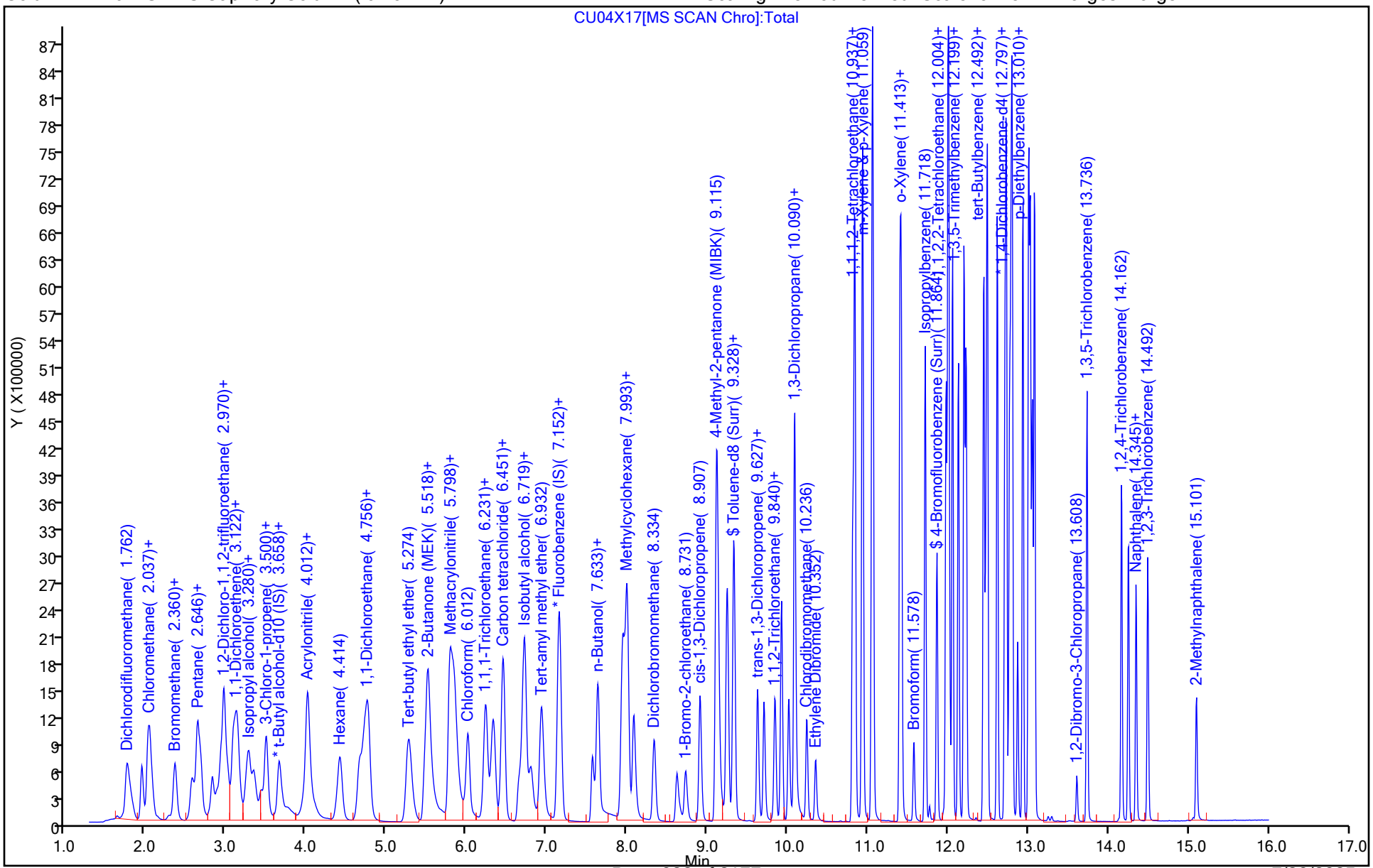
MSV_LL_#1_826_00168	Amount Added: 10.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added: 10.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added: 10.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 06-Jun-2025 09:18:43 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D				
Injection Date:	04-Jun-2025 22:57:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	ICIS 10			Worklist Smp#:	18
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

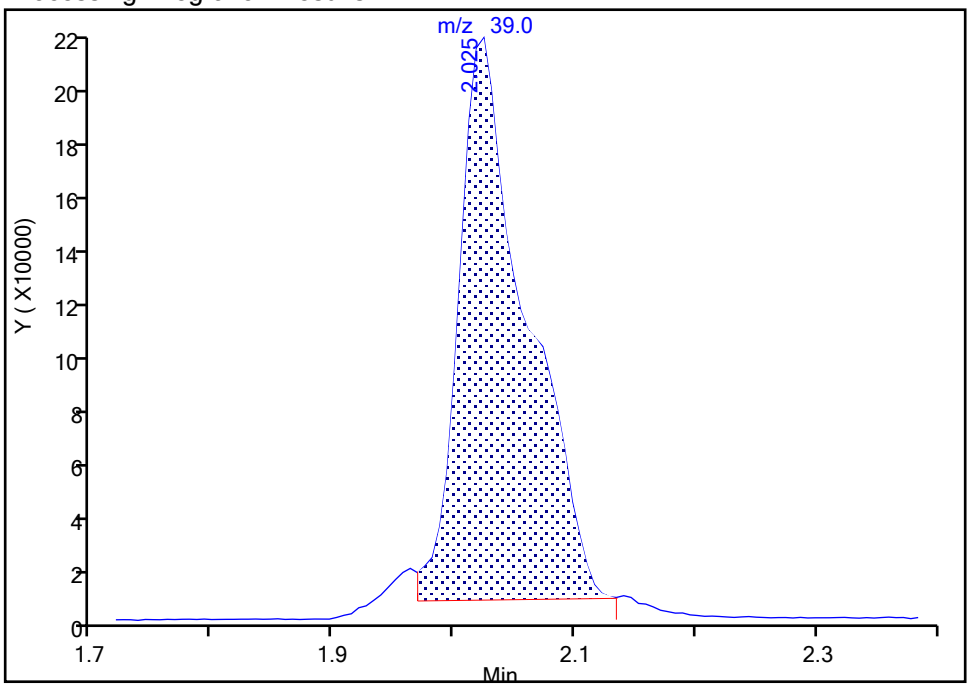
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D				
Injection Date:	04-Jun-2025 22:57:30	Instrument ID:	10193		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

7 Butadiene, CAS: 106-99-0

Signal: 1

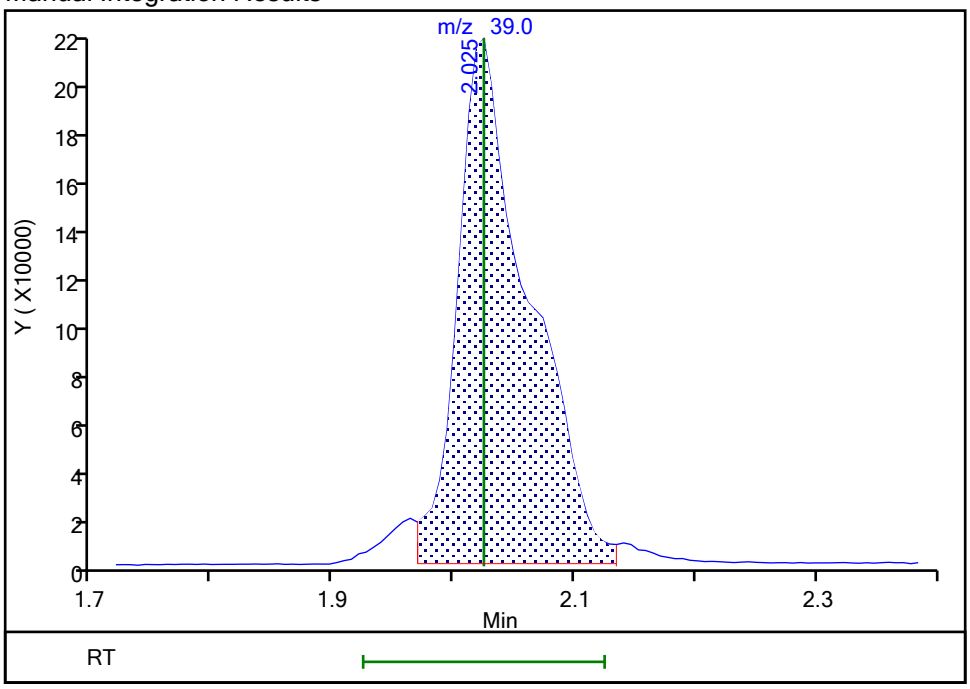
Processing Integration Results

RT: 2.02
Area: 795144
Amount: 9.004439
Amount Units: ug/l



Manual Integration Results

RT: 2.02
Area: 867379
Amount: 8.278755
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:37:32 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

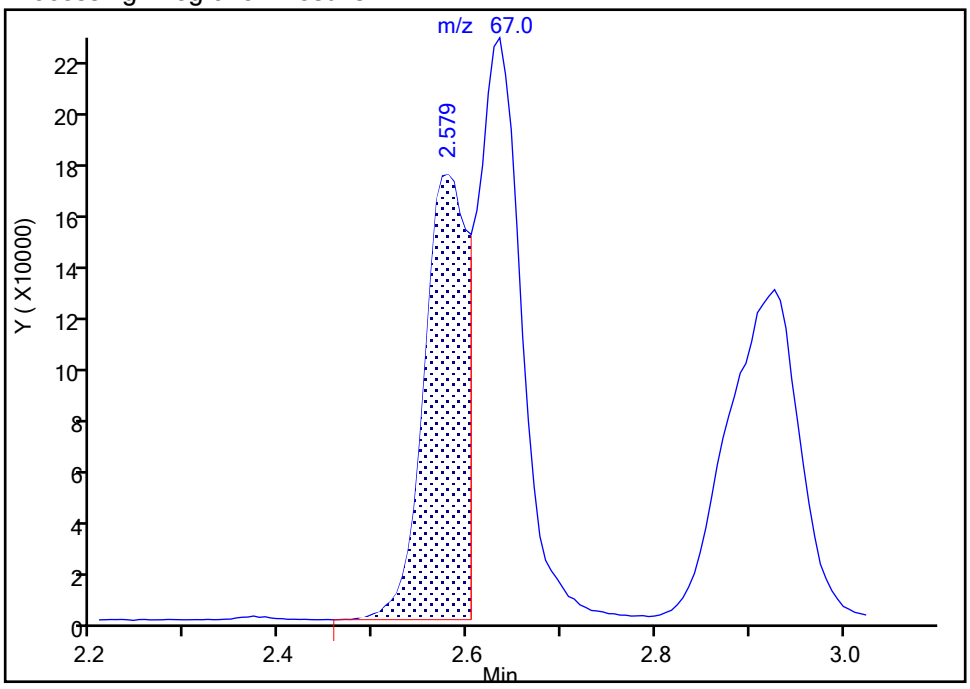
Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D
Injection Date: 04-Jun-2025 22:57:30 Instrument ID: 10193
Lims ID: ICIS 10
Client ID:
Operator ID: knk41612 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

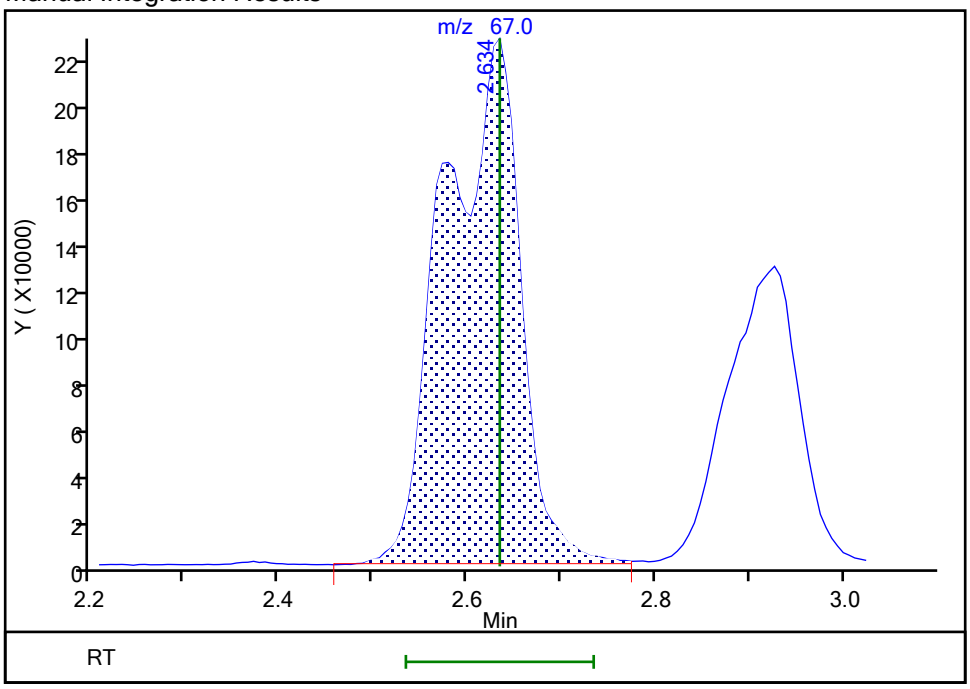
Processing Integration Results

RT: 2.58
Area: 555396
Amount: 9.568384
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 1243761
Amount: 9.447578
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:37:49 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

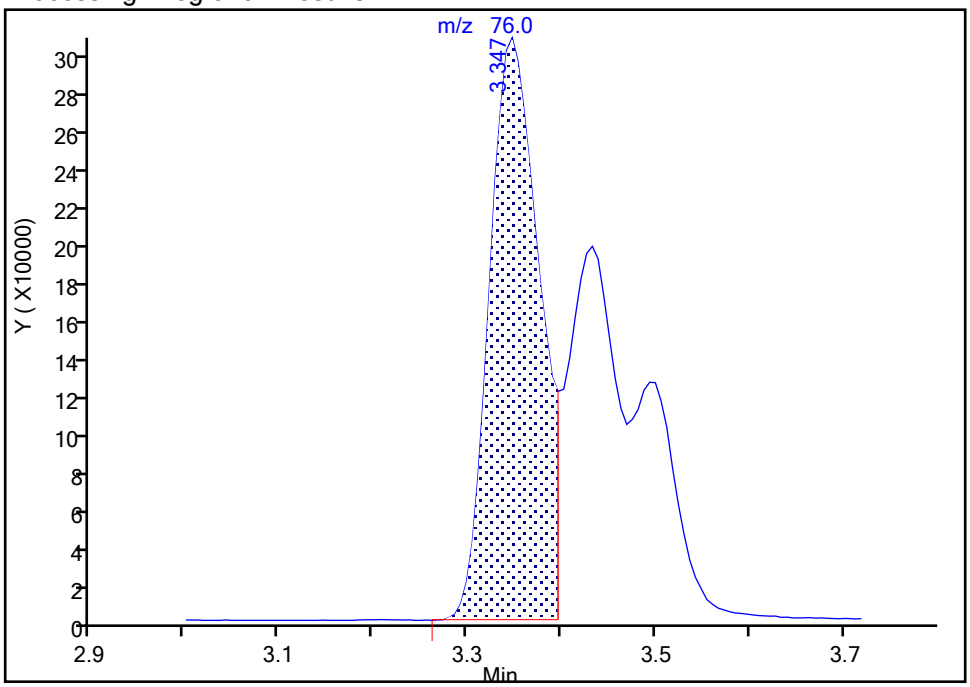
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D				
Injection Date:	04-Jun-2025 22:57:30	Instrument ID:	10193		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

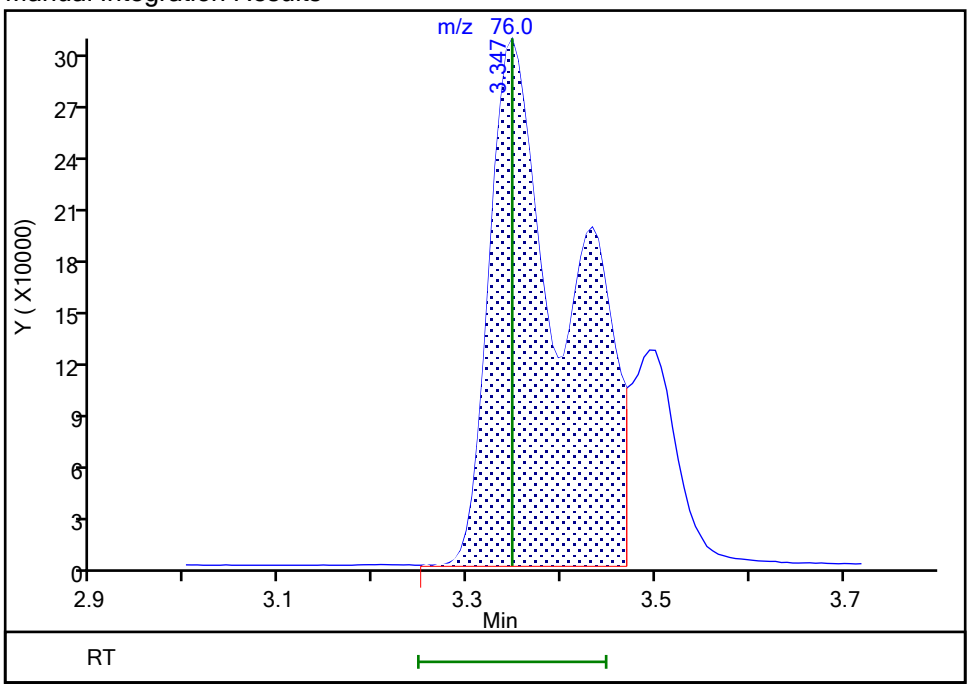
Processing Integration Results

RT: 3.35
Area: 1155340
Amount: 9.718425
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 1831634
Amount: 9.910833
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:09:54 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

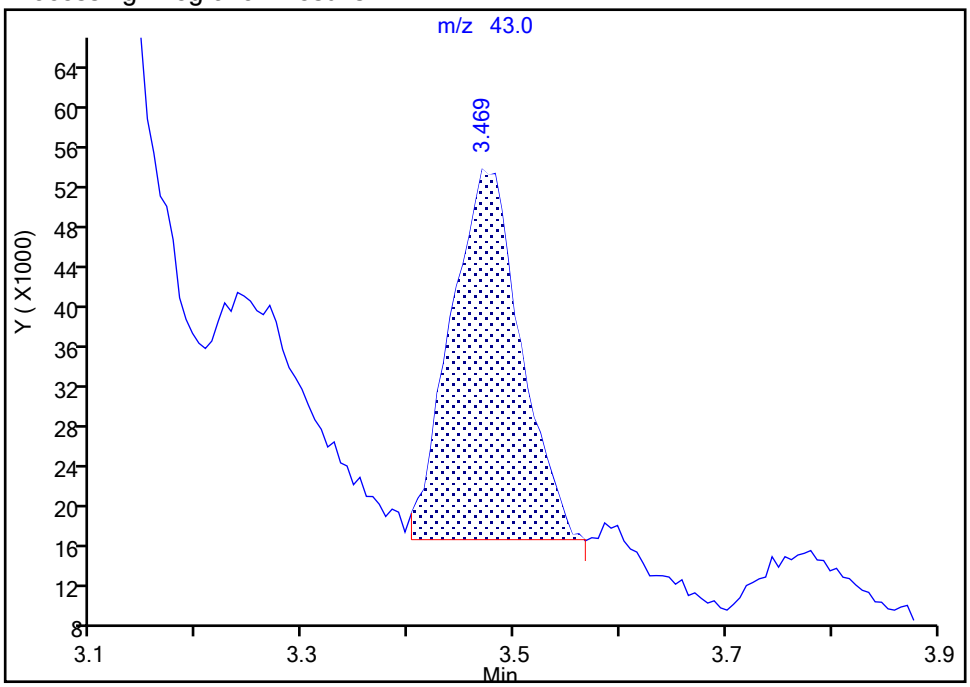
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D				
Injection Date:	04-Jun-2025 22:57:30	Instrument ID:	10193		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

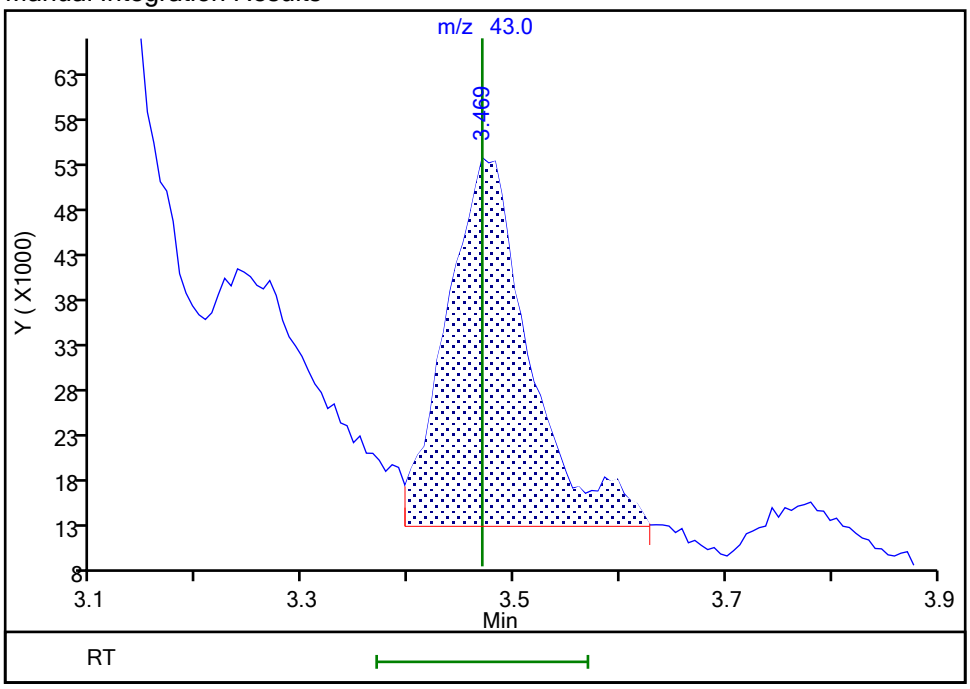
Processing Integration Results

RT: 3.47
Area: 172474
Amount: 7.303074
Amount Units: ug/l



Manual Integration Results

RT: 3.47
Area: 222342
Amount: 8.918488
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:39:48 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

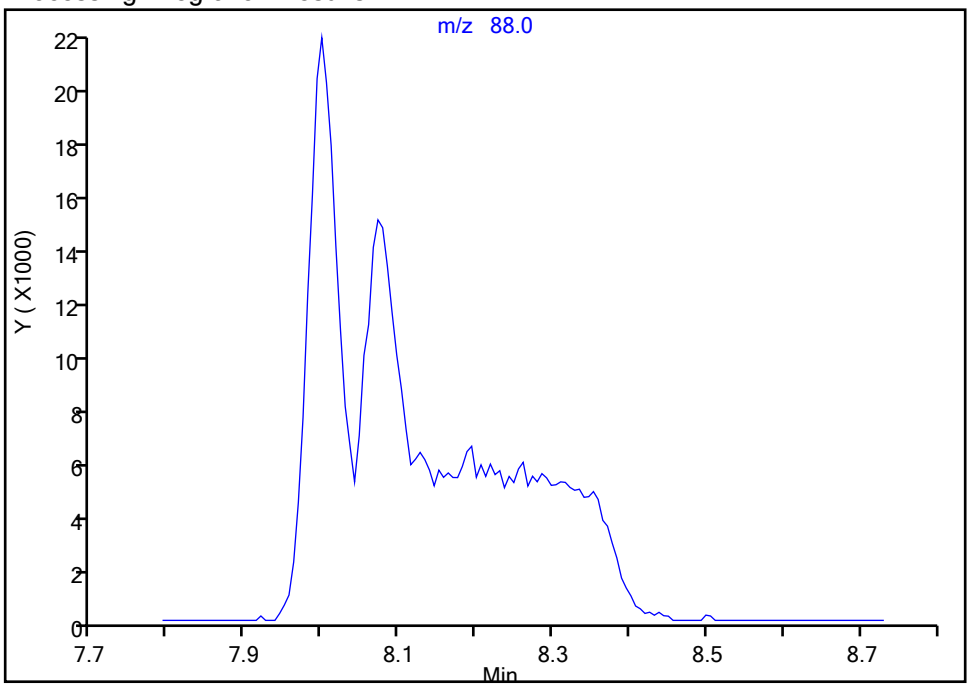
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X17.D				
Injection Date:	04-Jun-2025 22:57:30	Instrument ID:	10193		
Lims ID:	ICIS 10				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

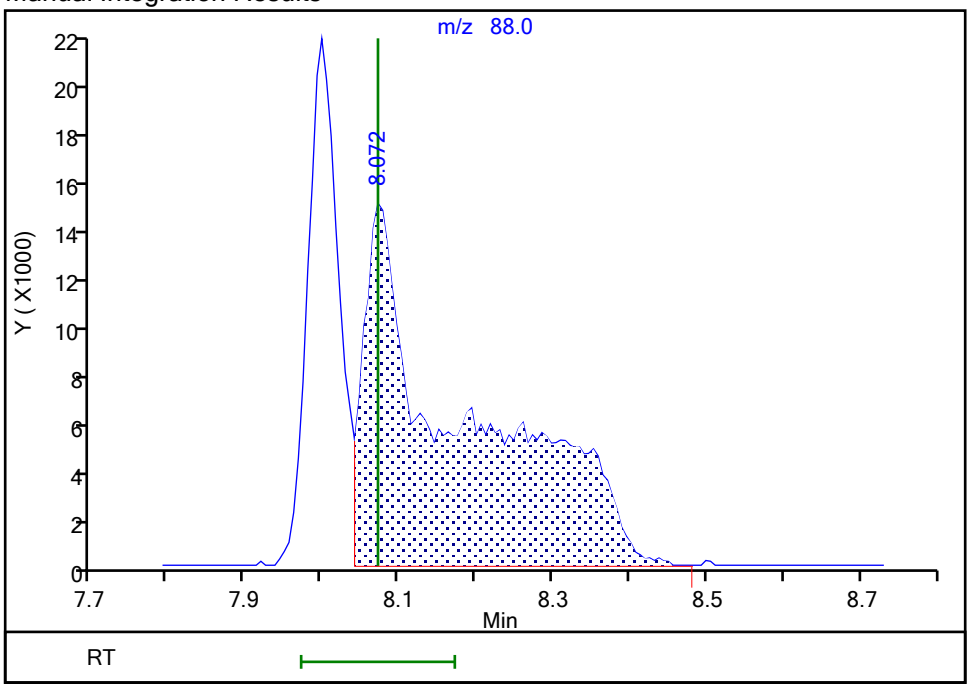
Not Detected
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 8.07
Area: 133857
Amount: 486.0946
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:42:37 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D
Lims ID: IC std7 25
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 04-Jun-2025 23:20:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-019
Misc. Info.: IC STD25 LG
Operator ID: knk41612 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:19:08 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: UKEK Date: 06-Jun-2025 08:28:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.750	1.762	-0.012	100	1910119	25.0	24.6	
5 Chloromethane	50	1.939	1.945	-0.006	100	2125456	25.0	23.1	
7 Butadiene	39	2.018	2.025	-0.007	93	2348344	25.0	22.2	
6 Vinyl chloride	62	2.037	2.043	-0.006	99	1999388	25.0	24.6	
9 Bromomethane	94	2.342	2.348	-0.006	91	1264486	25.0	24.3	
10 Chloroethane	64	2.366	2.372	-0.006	100	1082708	25.0	23.5	
11 Dichlorofluoromethane	67	2.628	2.634	-0.006	99	3236174	25.0	24.3	M
13 Pentane	43	2.634	2.646	-0.012	96	2228415	25.0	24.9	
12 Trichlorofluoromethane	101	2.671	2.677	-0.006	99	2509183	25.0	24.4	M
14 Ethyl ether	59	2.817	2.823	-0.006	93	1255788	25.0	25.6	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.927	-0.006	94	1768142	25.0	24.6	
17 Acrolein	56	2.963	2.970	-0.007	99	7658408	1219.8	1111.2	
18 1,1-Dichloroethene	96	3.085	3.098	-0.013	99	1204919	25.0	23.7	
20 Acetone	43	3.110	3.116	-0.006	99	2140201	250.0	237.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.134	3.140	-0.006	94	1330135	25.0	25.2	
24 Isopropyl alcohol	45	3.256	3.250	0.006	40	817781	500.0	478.1	M
22 Iodomethane	142	3.256	3.262	-0.006	99	2529869	25.0	24.5	
23 Ethyl bromide	108	3.274	3.280	-0.006	98	1226687	25.0	25.2	
25 Carbon disulfide	76	3.335	3.347	-0.012	100	4892051	25.0	26.2	M
26 Methyl acetate	43	3.463	3.469	-0.006	98	599138	25.0	24.7	M
29 3-Chloro-1-propene	41	3.488	3.500	-0.012	91	2470462	25.0	25.9	a
30 Methylene Chloride	84	3.652	3.658	-0.006	92	1502742	25.0	24.5	
* 31 t-Butyl alcohol-d10 (IS)	65	3.677	3.671	0.006	39	190156	50.0	50.0	
32 2-Methyl-2-propanol	59	3.768	3.774	-0.006	100	1435907	500.0	508.3	
33 Acrylonitrile	53	3.951	3.957	-0.006	99	781903	62.5	59.3	
34 Methyl tert-butyl ether	73	4.012	4.018	-0.006	95	4332630	25.0	25.0	
35 trans-1,2-Dichloroethene	96	4.006	4.018	-0.012	99	1563294	25.0	25.0	
36 Hexane	57	4.408	4.414	-0.006	94	2225357	25.0	26.1	
37 1,1-Dichloroethane	63	4.646	4.658	-0.012	97	2897243	25.0	25.4	
39 Isopropyl ether	45	4.719	4.725	-0.006	94	5349070	25.0	25.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.762	4.768	-0.006	92	2585459	25.0	25.7	
41 Tert-butyl ethyl ether	59	5.274	5.274	0.000	98	5309585	25.0	25.6	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	100	4479096	250.0	259.4	
43 cis-1,2-Dichloroethene	96	5.506	5.512	-0.006	84	1806840	25.0	25.1	
44 2,2-Dichloropropane	77	5.524	5.530	-0.006	88	2164076	25.0	24.2	
45 Propionitrile	54	5.567	5.573	-0.006	98	2533586	500.0	543.8	
47 Methacrylonitrile	67	5.798	5.798	0.000	92	3870205	250.0	231.4	
48 Chlorobromomethane	128	5.847	5.853	-0.006	97	771616	25.0	24.0	
49 Tetrahydrofuran	71	5.853	5.853	0.000	88	528121	125.0	107.6	
50 Chloroform	83	6.005	6.012	-0.007	95	2899179	25.0	25.1	
S 52 1,2-Dichloroethene, Total	100				0			50.0	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	95	549208	10.0	9.76	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	98	2574084	25.0	25.4	
55 Cyclohexane	56	6.329	6.329	0.000	92	2787364	25.0	25.9	
56 Carbon tetrachloride	117	6.444	6.444	0.000	97	2268674	25.0	26.3	
57 1,1-Dichloropropene	75	6.450	6.457	-0.007	95	2321034	25.0	25.5	
58 Isobutyl alcohol	41	6.646	6.652	-0.006	93	1472738	1250.0	1279.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	99	107416	10.0	9.25	
60 Benzene	78	6.719	6.725	-0.006	96	7005346	25.0	25.8	
61 1,2-Dichloroethane	62	6.798	6.798	0.000	98	1768362	25.0	23.9	M
64 Tert-amyl methyl ether	73	6.932	6.932	0.000	98	4721921	25.0	25.5	
* 65 Fluorobenzene (IS)	96	7.139	7.146	-0.007	99	2383670	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	92	2227963	25.0	26.5	
67 n-Butanol	56	7.560	7.566	-0.006	89	2647108	2187.5	2442.1	
68 Trichloroethene	95	7.633	7.633	0.000	99	1822983	25.0	25.4	
69 Methylcyclohexane	83	7.938	7.938	0.000	92	3004540	25.0	26.1	
70 1,2-Dichloropropane	63	7.968	7.975	-0.007	97	1793224	25.0	25.8	
71 2-ethoxy-2-methyl butane	87	7.999	8.005	-0.006	92	2848740	25.0	26.2	
74 1,4-Dioxane	88	8.072	8.072	0.000	86	324106	1250.0	1211.2	M
73 Methyl methacrylate	69	8.078	8.084	-0.006	90	945817	25.0	27.5	
72 Dibromomethane	93	8.084	8.084	0.000	93	880191	25.0	25.7	
76 Dichlorobromomethane	83	8.334	8.334	0.000	100	2234689	25.0	26.4	
77 2-Nitropropane	41	8.621	8.621	0.000	98	1527427	125.0	137.3	
78 1-Bromo-2-chloroethane	63	8.724	8.731	-0.007	99	1793643	25.0	26.4	
80 cis-1,3-Dichloropropene	75	8.907	8.907	0.000	95	2789224	25.0	26.8	
82 4-Methyl-2-pentanone (MIBK)	43	9.115	9.115	0.000	97	12595503	250.0	275.0	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2374813	10.0	10.1	
84 Toluene	92	9.328	9.328	0.000	98	4500182	25.0	25.9	
85 trans-1,3-Dichloropropene	75	9.627	9.627	0.000	94	2407520	25.0	27.4	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	2077034	25.0	27.2	
87 1,1,2-Trichloroethane	97	9.840	9.846	-0.006	91	1266610	25.0	25.4	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	2034654	25.0	25.2	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	92	2211341	25.0	26.1	
S 107 1,3-Dichloropropene, Total	100				0			54.2	
106 2-Hexanone	43	10.090	10.090	0.000	96	9124749	250.0	278.5	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	1686150	25.0	27.7	
110 Ethylene Dibromide	107	10.352	10.352	0.000	98	1291218	25.0	26.7	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.816	-0.001	87	1791241	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	98	2445378	25.0	25.1	
113 Chlorobenzene	112	10.840	10.840	0.000	94	5044757	25.0	25.3	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	97	1799576	25.0	26.6	
115 Ethylbenzene	91	10.937	10.937	0.000	98	9005284	25.0	26.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	97	7024802	50.0	52.3	
S 117 Xylenes, Total	106				0			78.1	
118 o-Xylene	106	11.401	11.401	0.000	97	3426341	25.0	25.8	
119 Styrene	104	11.419	11.419	0.000	95	5865468	25.0	26.6	
120 Bromoform	173	11.578	11.578	0.000	97	1023710	25.0	28.9	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	7994918	25.0	26.2	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	92	907728	10.0	10.2	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	91	1671405	25.0	25.5	
125 Bromobenzene	156	11.980	11.980	0.000	92	2255347	25.0	24.5	
127 trans-1,4-Dichloro-2-butene	53	12.004	12.004	0.000	94	4558072	250.0	290.9	
128 1,2,3-Trichloropropane	110	12.023	12.023	0.000	84	450975	25.0	25.1	
129 N-Propylbenzene	91	12.059	12.059	0.000	98	10638326	25.0	24.9	
130 2-Chlorotoluene	126	12.132	12.132	0.000	96	2179924	25.0	24.8	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	7931026	25.0	25.7	
132 4-Chlorotoluene	126	12.230	12.230	0.000	98	2280252	25.0	25.0	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	1770290	25.0	25.0	
134 Pentachloroethane	167	12.480	12.474	0.006	94	1503708	25.0	27.6	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	98	8242089	25.0	25.9	
136 sec-Butylbenzene	105	12.614	12.614	0.000	96	9944673	25.0	25.2	
137 1,3-Dichlorobenzene	146	12.711	12.712	-0.001	98	4552267	25.0	25.8	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	8792472	25.0	25.5	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	1035762	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	94	4594565	25.0	25.0	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	99	3654193	25.0	25.5	
142 Benzyl chloride	126	12.870	12.870	0.000	99	635228	25.0	27.6	
145 p-Diethylbenzene	119	13.010	13.004	0.006	93	5512365	25.0	26.4	
143 n-Butylbenzene	92	13.028	13.029	0.000	98	4432606	25.0	26.7	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	98	4163188	25.0	25.9	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	87	251795	25.0	28.8	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	3431609	25.0	27.8	
150 1,2,4-Trichlorobenzene	180	14.162	14.169	-0.007	94	2813772	25.0	30.1	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	1403830	25.0	26.9	
152 Naphthalene	128	14.345	14.345	0.000	97	4803722	25.0	31.5	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	2202657	25.0	30.5	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	1928909	25.0	25.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

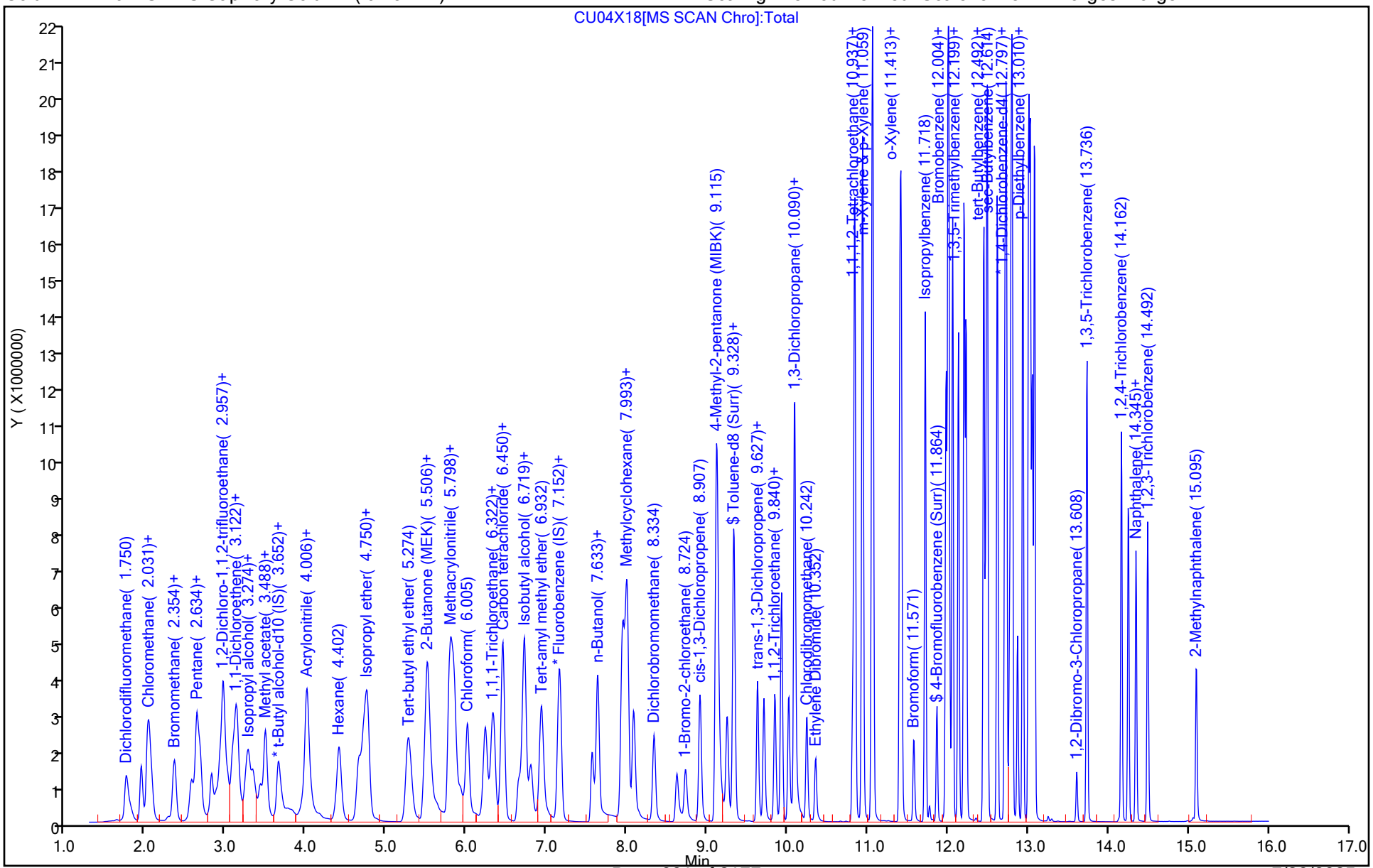
MSV_LL_#1_826_00168	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00181	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00274	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 06-Jun-2025 09:19:09 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	IC std7 25			Worklist Smp#:	19
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

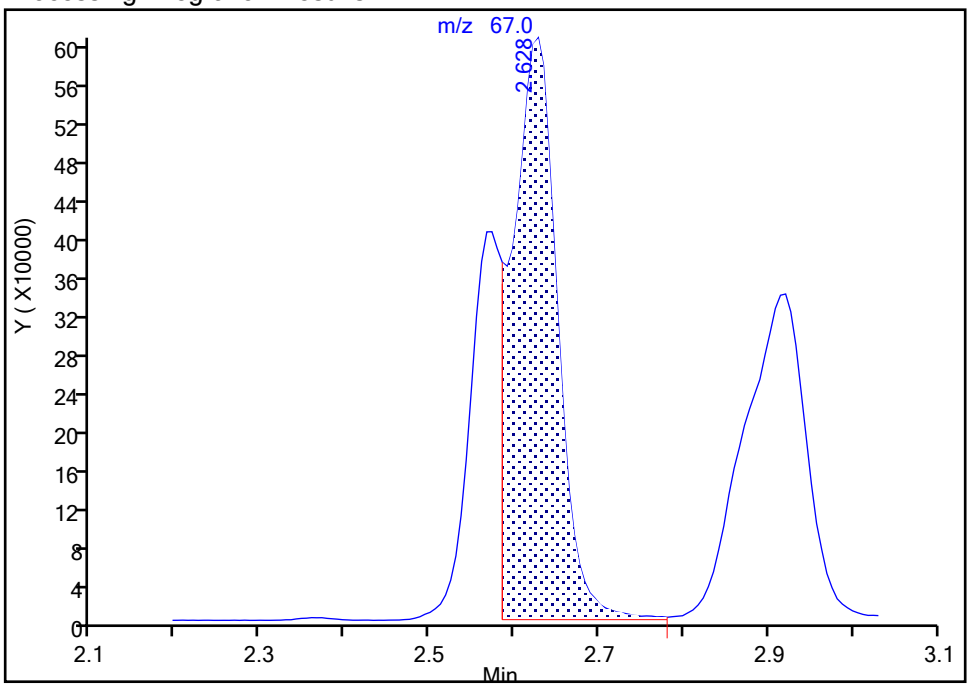
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

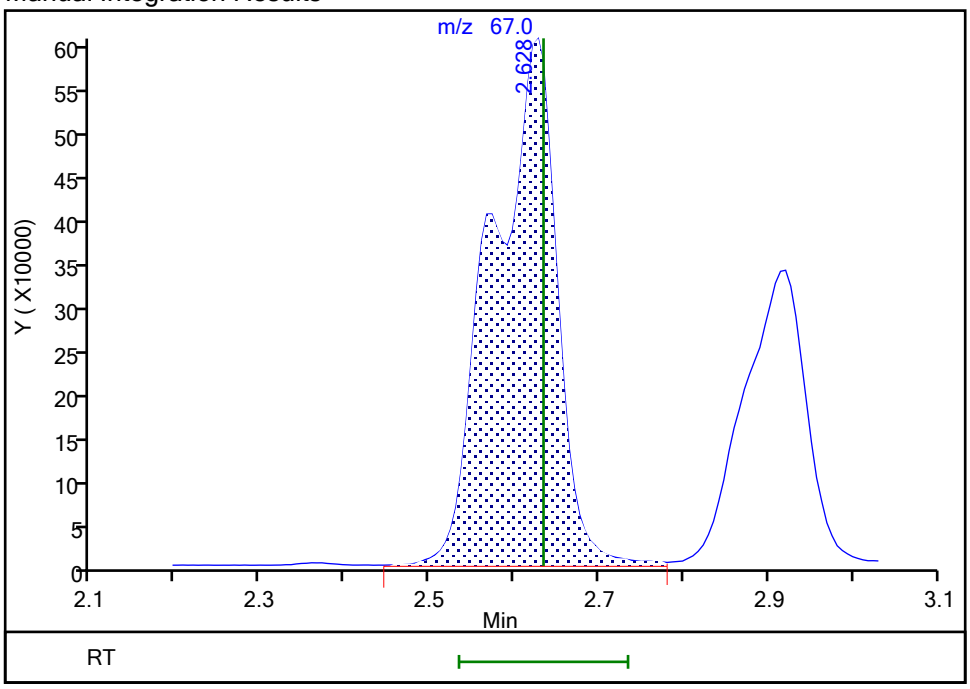
Processing Integration Results

RT: 2.63
Area: 2285913
Amount: 26.577017
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 3236174
Amount: 24.304231
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:44:49 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

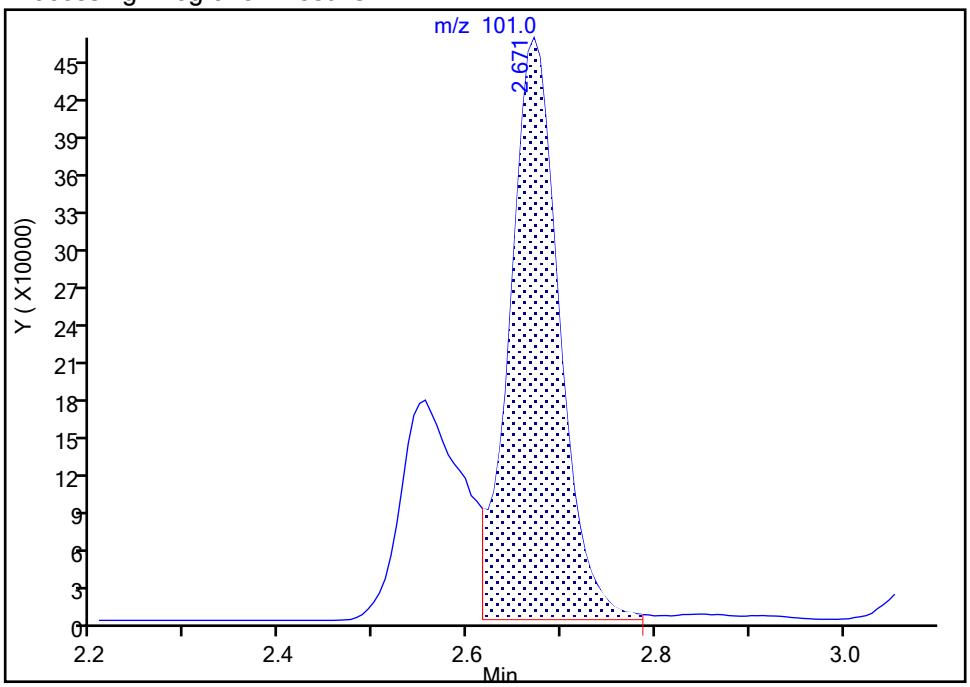
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

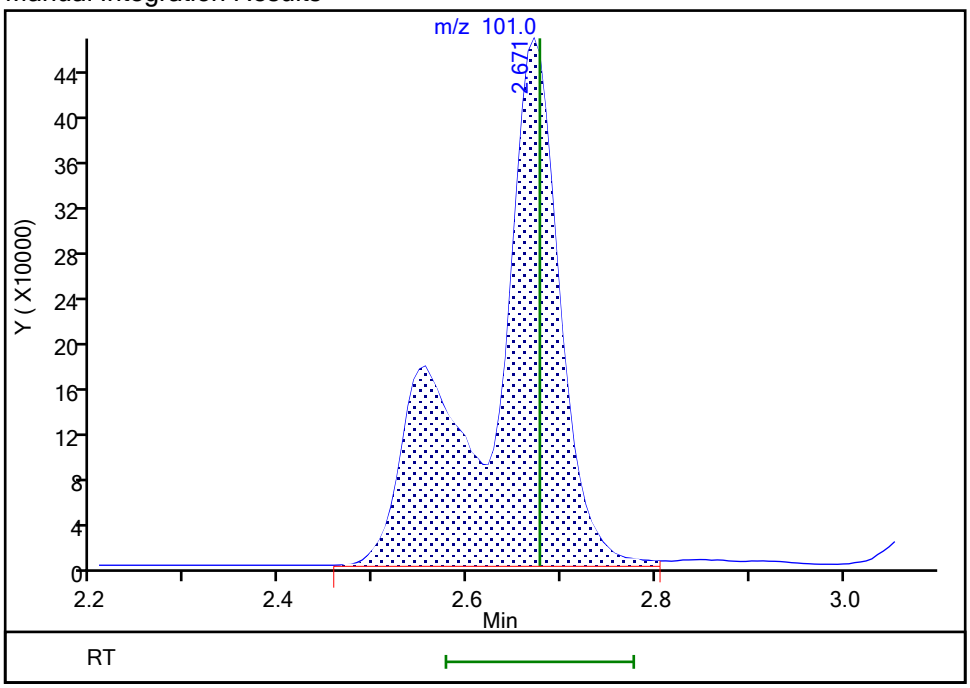
Processing Integration Results

RT: 2.67
Area: 1724805
Amount: 19.765113
Amount Units: ug/l



Manual Integration Results

RT: 2.67
Area: 2509183
Amount: 24.384771
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:07:43 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

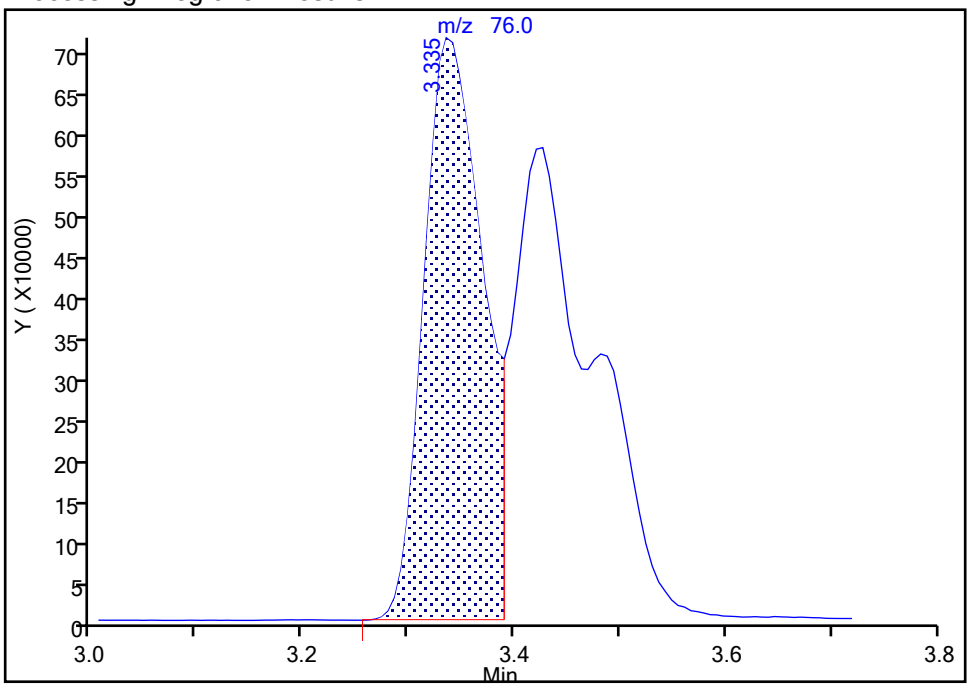
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

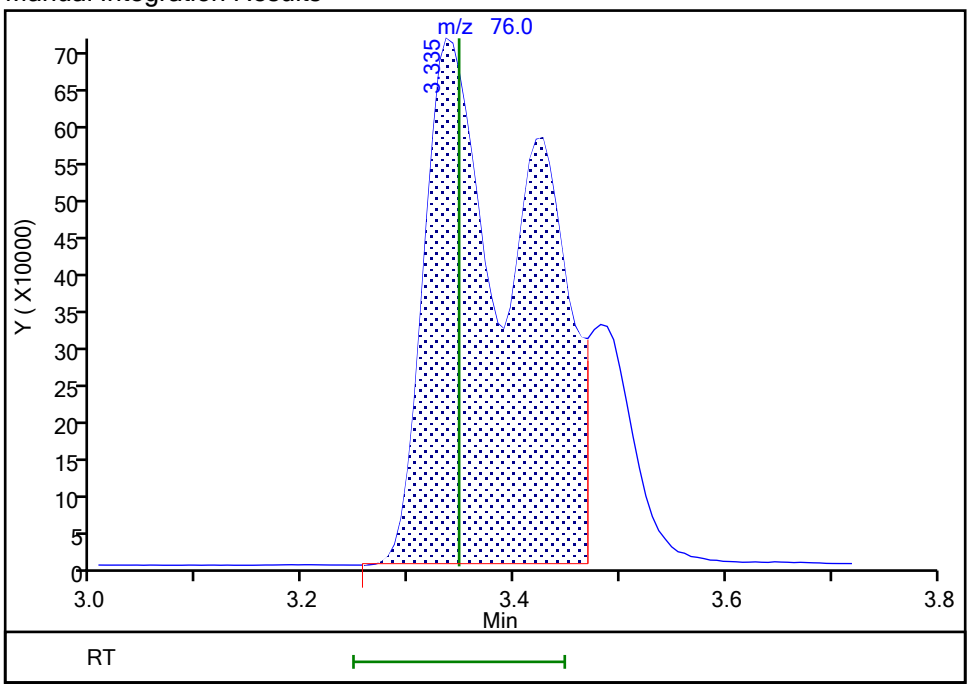
Processing Integration Results

RT: 3.34
Area: 2810849
Amount: 21.639210
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 4892051
Amount: 26.171517
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:45:25 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

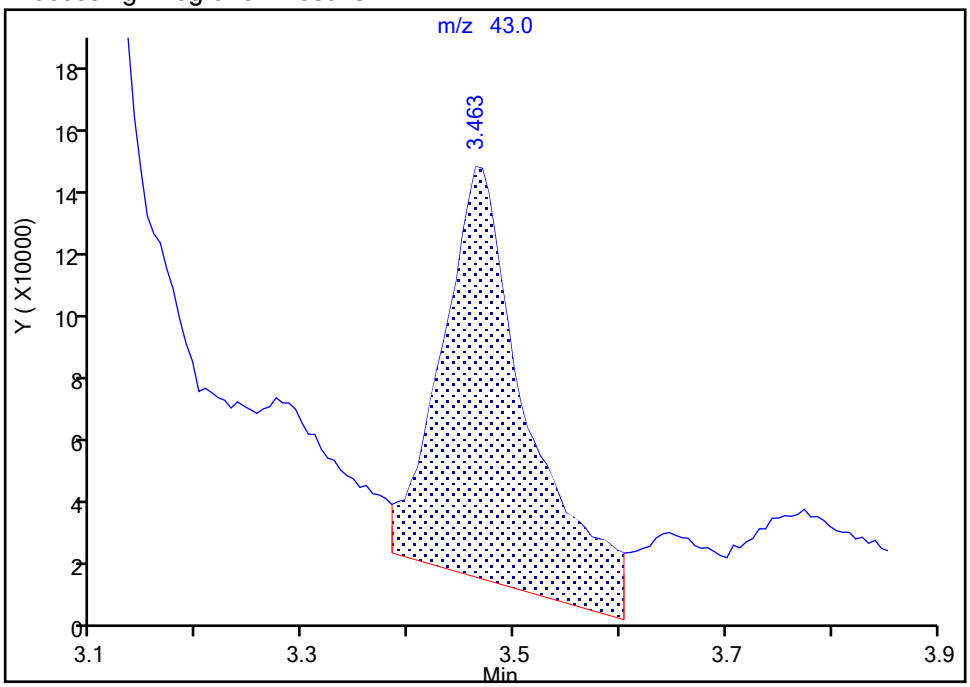
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

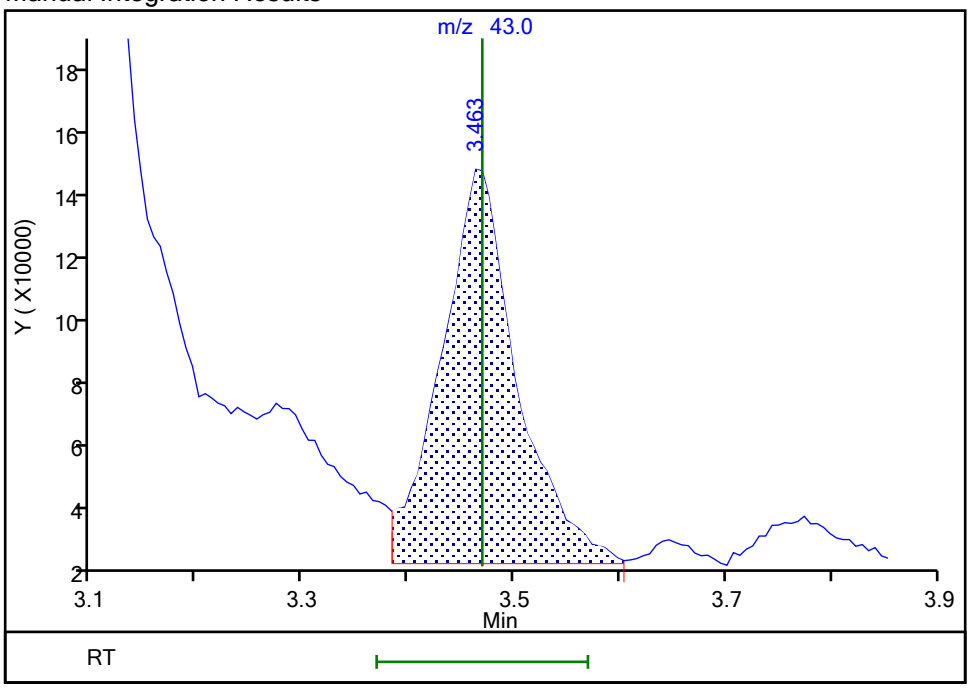
Processing Integration Results

RT: 3.46
Area: 727479
Amount: 34.354643
Amount Units: ug/l



Manual Integration Results

RT: 3.46
Area: 599138
Amount: 24.731391
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:45:31 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

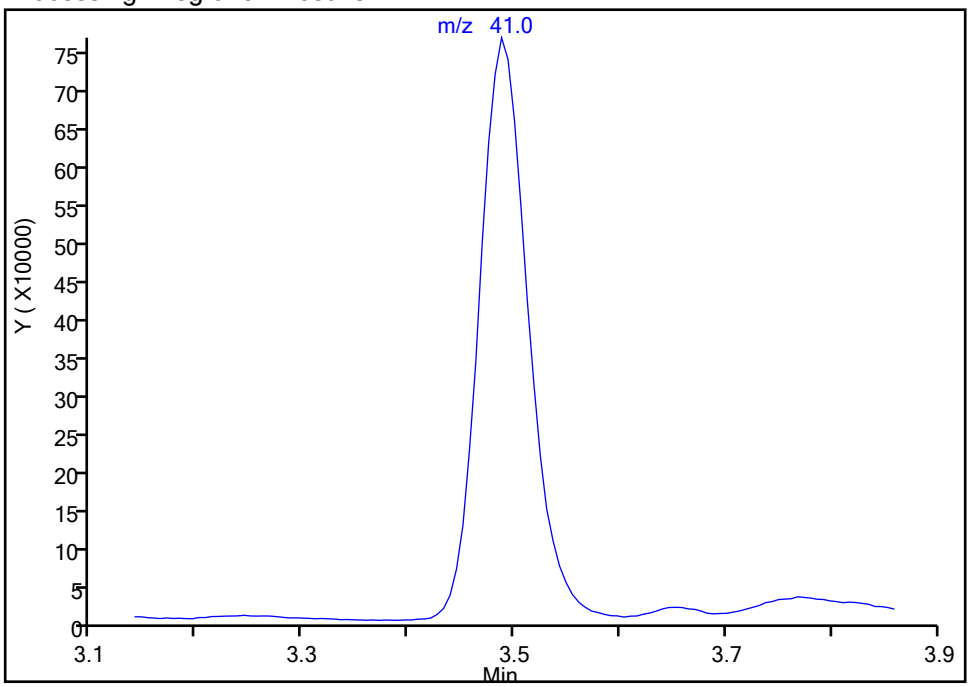
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

29 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

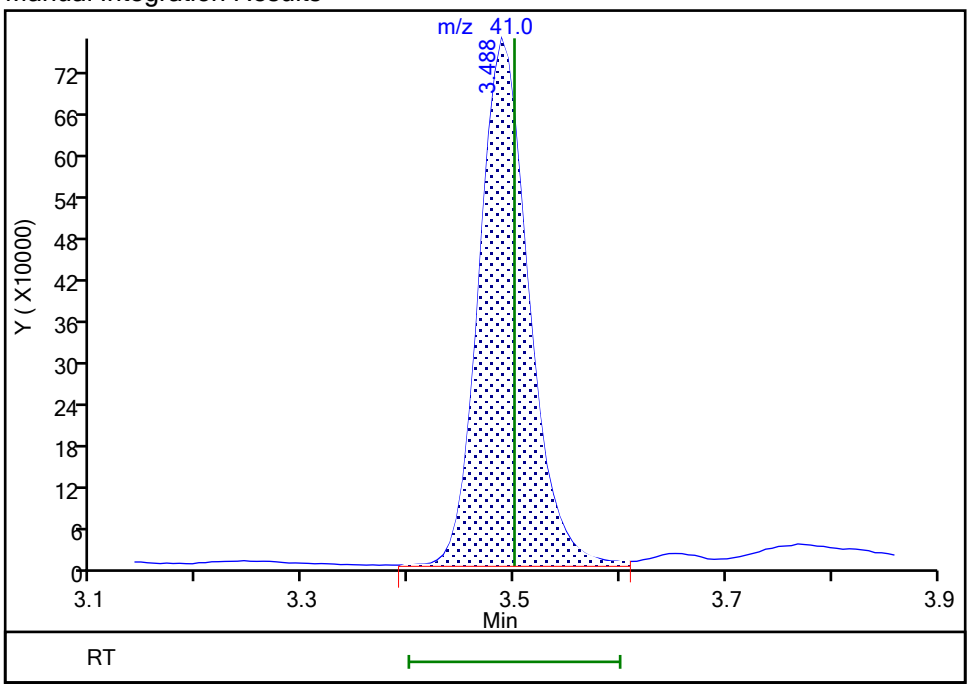
Not Detected
Expected RT: 3.50

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 2470462
Amount: 25.868571
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:45:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

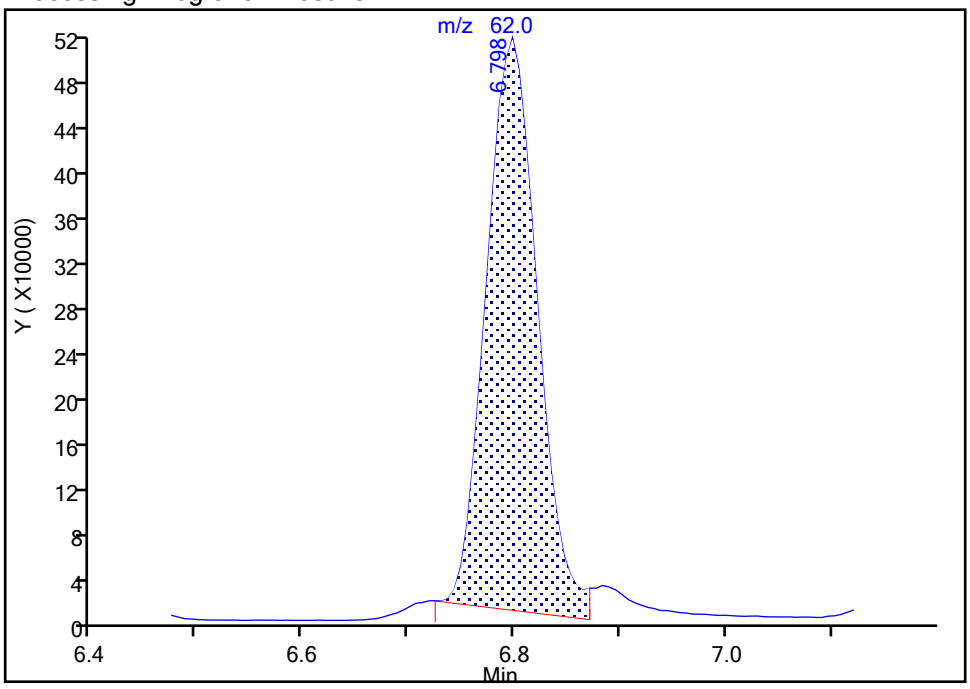
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

61 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

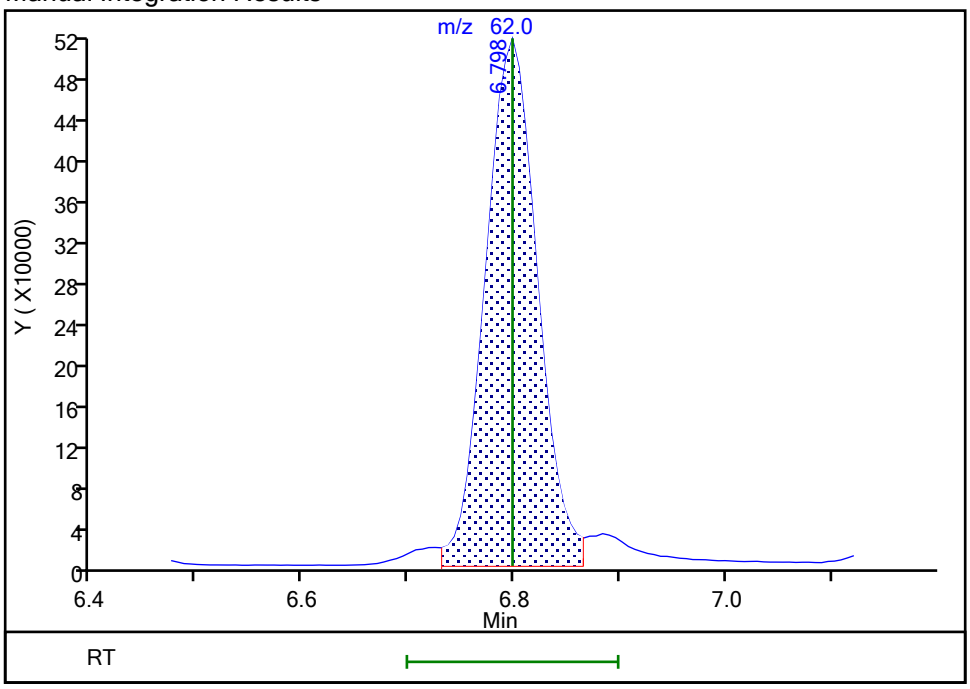
Processing Integration Results

RT: 6.80
Area: 1703860
Amount: 22.965269
Amount Units: ug/l



Manual Integration Results

RT: 6.80
Area: 1768362
Amount: 23.850213
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:27:36 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

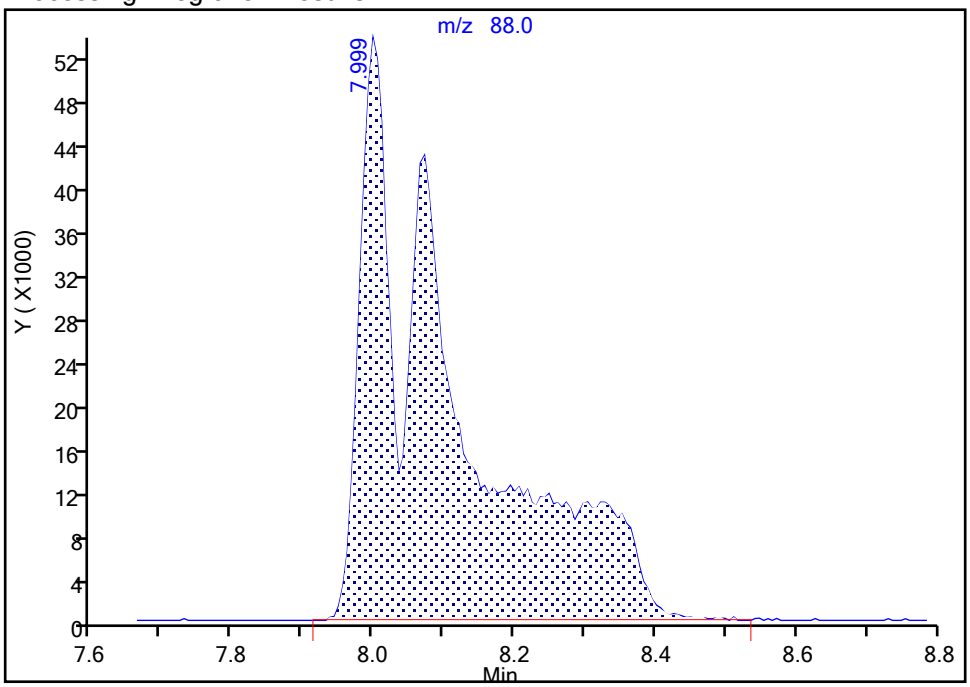
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Injection Date:	04-Jun-2025 23:20:30	Instrument ID:	10193		
Lims ID:	IC std7 25				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

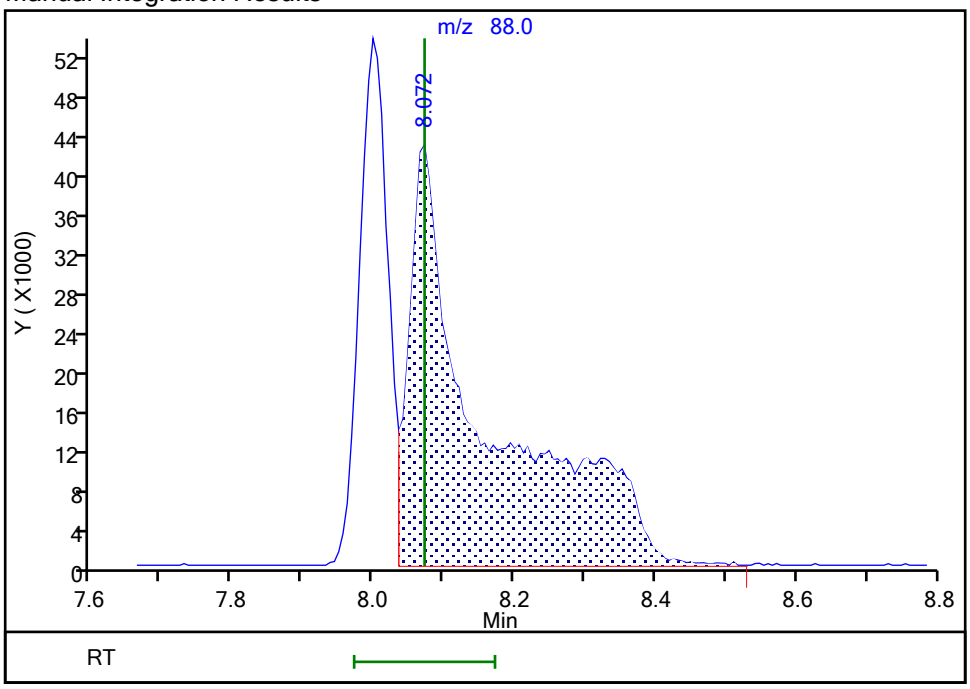
Processing Integration Results

RT: 8.00
Area: 470587
Amount: 1597.4757
Amount Units: ug/l



Manual Integration Results

RT: 8.07
Area: 324106
Amount: 1211.2079
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:32:55 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

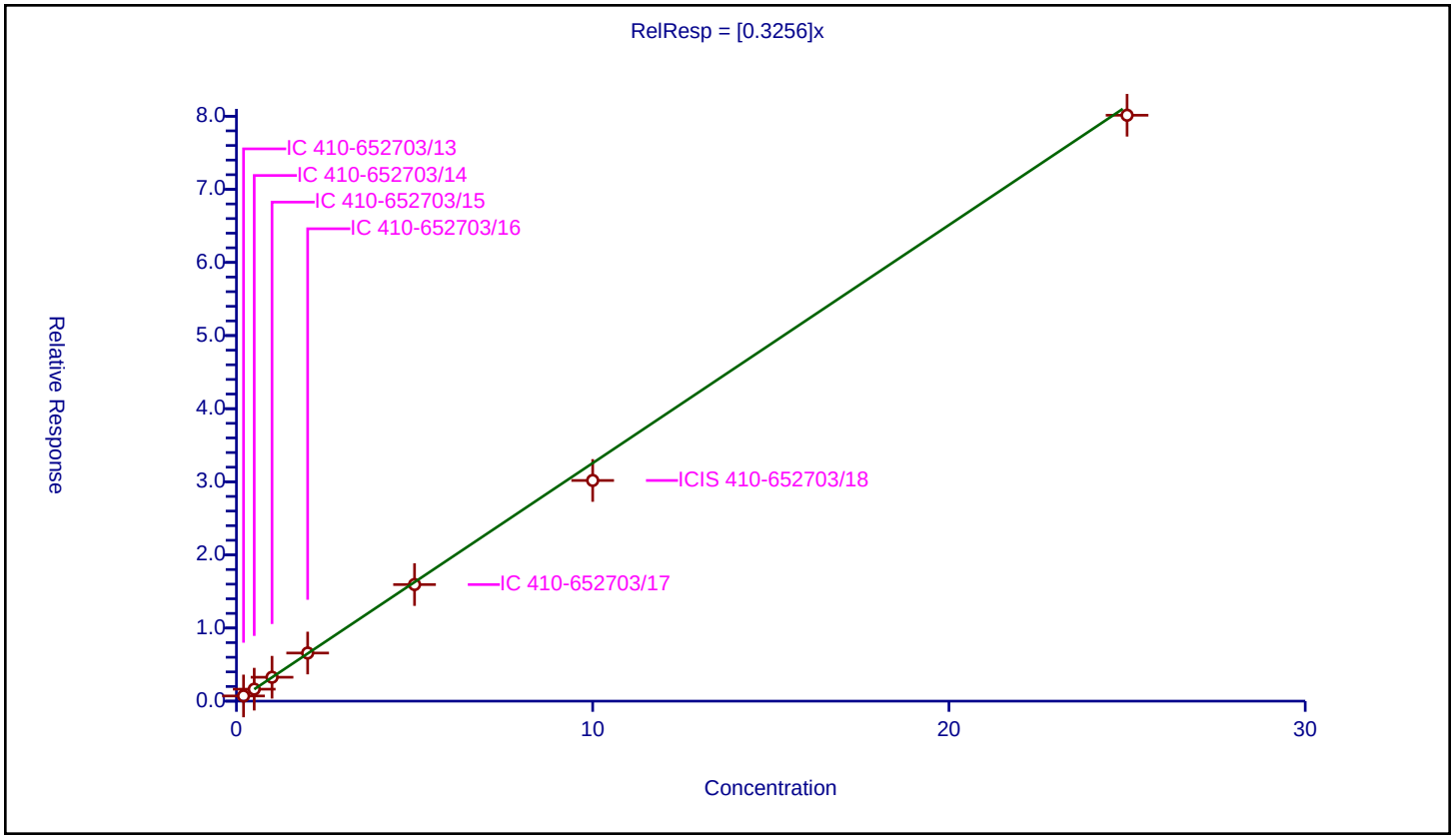
Curve Coefficients

Intercept:	0
Slope:	0.3256

Error Coefficients

Relative Standard Deviation:	4.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.070898	10.0	2284843.0	0.354488	Y
2	IC 410-652703/14	0.5	0.163657	10.0	2238774.0	0.327313	Y
3	IC 410-652703/15	1.0	0.326891	10.0	2276632.0	0.326891	Y
4	IC 410-652703/16	2.0	0.658129	10.0	2320746.0	0.329064	Y
5	IC 410-652703/17	5.0	1.594604	10.0	2313176.0	0.318921	Y
6	ICIS 410-652703/18	10.0	3.018209	10.0	2356745.0	0.301821	Y
7	IC 410-652703/19	25.0	8.013353	10.0	2383670.0	0.320534	Y



7/30/2025
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Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

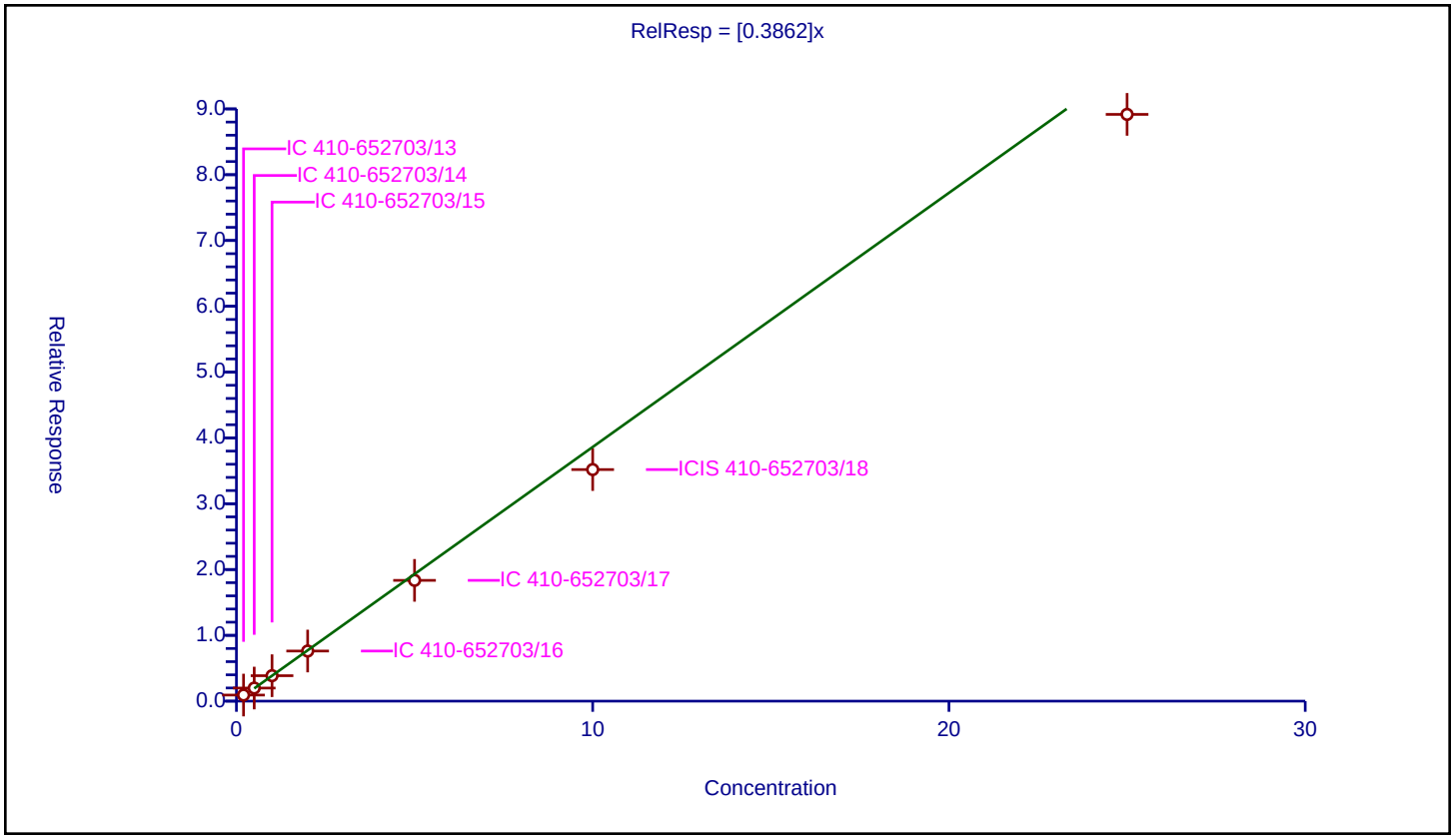
Curve Coefficients

Intercept:	0
Slope:	0.3862

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.092518	10.0	2284843.0	0.462592	Y
2	IC 410-652703/14	0.5	0.19885	10.0	2238774.0	0.3977	Y
3	IC 410-652703/15	1.0	0.386751	10.0	2276632.0	0.386751	Y
4	IC 410-652703/16	2.0	0.761445	10.0	2320746.0	0.380722	Y
5	IC 410-652703/17	5.0	1.835347	10.0	2313176.0	0.367069	Y
6	ICIS 410-652703/18	10.0	3.518947	10.0	2356745.0	0.351895	Y
7	IC 410-652703/19	25.0	8.916738	10.0	2383670.0	0.35667	Y



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Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

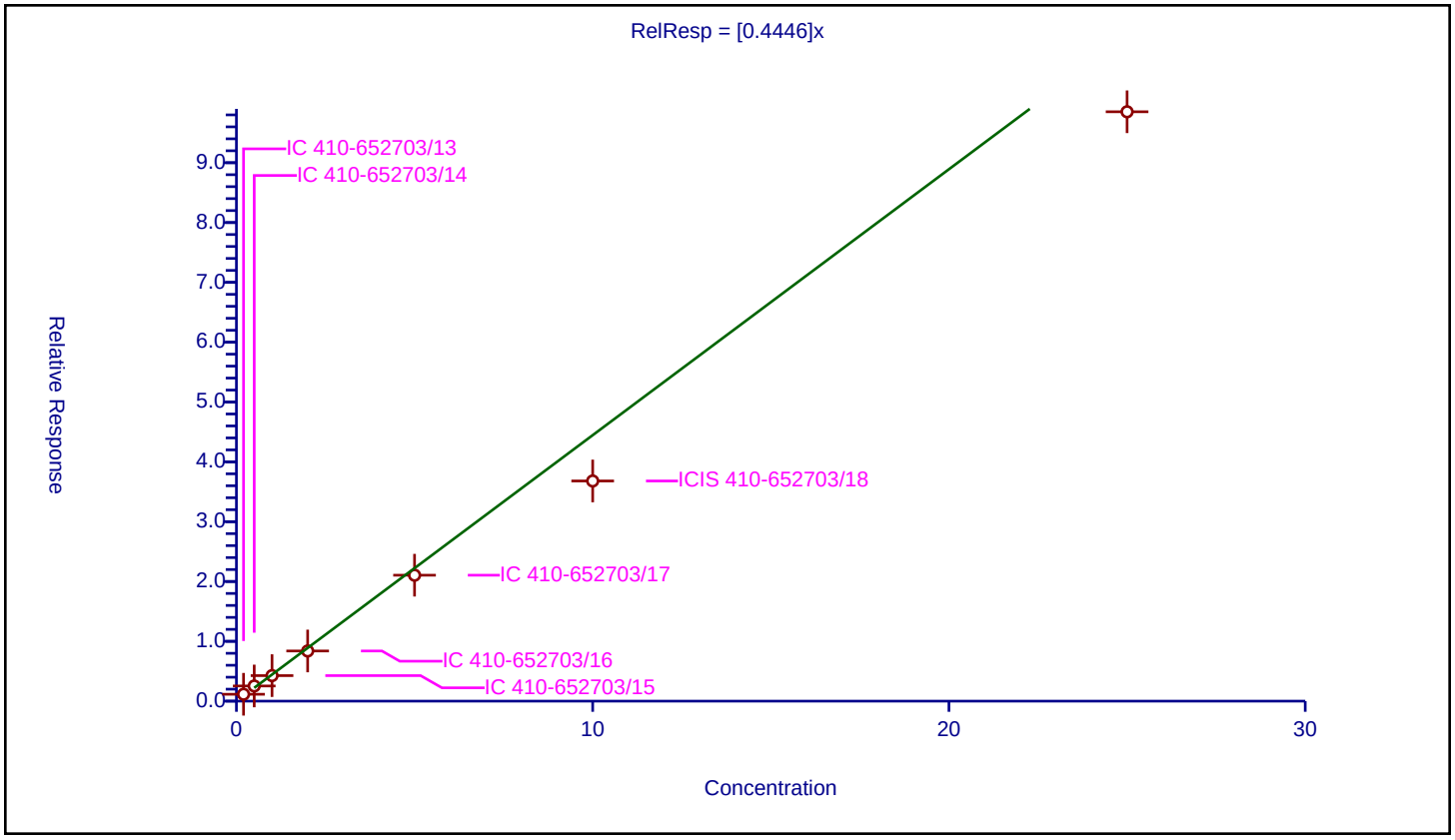
Curve Coefficients

Intercept:	0
Slope:	0.4446

Error Coefficients

Relative Standard Deviation:	16.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.115133	10.0	2284843.0	0.575663	Y
2	IC 410-652703/14	0.5	0.253465	10.0	2238774.0	0.506929	Y
3	IC 410-652703/15	1.0	0.426938	10.0	2276632.0	0.426938	Y
4	IC 410-652703/16	2.0	0.838411	10.0	2320746.0	0.419206	Y
5	IC 410-652703/17	5.0	2.105387	10.0	2313176.0	0.421077	Y
6	ICIS 410-652703/18	10.0	3.680411	10.0	2356745.0	0.368041	Y
7	IC 410-652703/19	25.0	9.8518	10.0	2383670.0	0.394072	Y



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Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

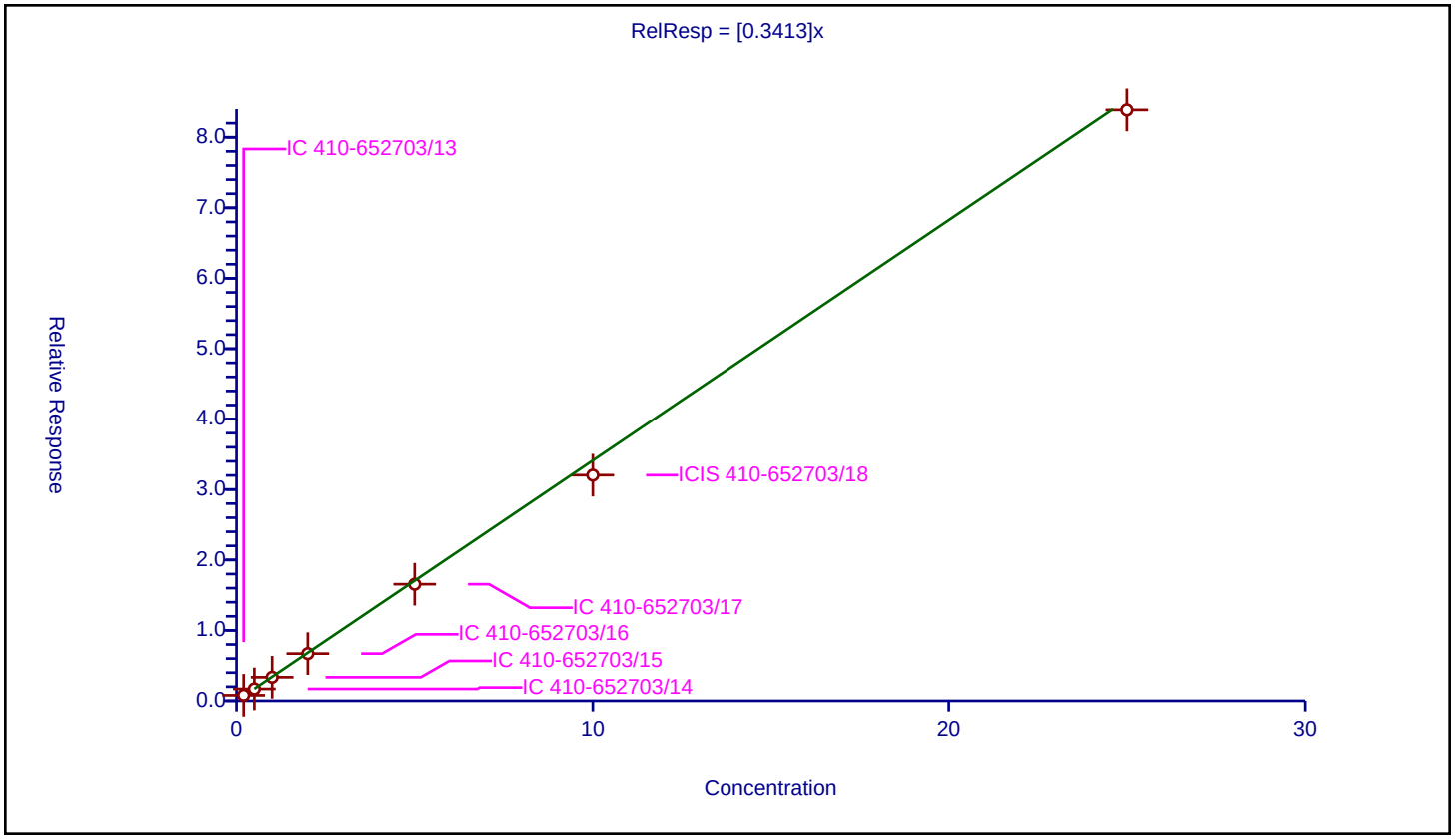
Curve Coefficients

Intercept:	0
Slope:	0.3413

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.078763	10.0	2284843.0	0.393813	Y
2	IC 410-652703/14	0.5	0.169227	10.0	2238774.0	0.338453	Y
3	IC 410-652703/15	1.0	0.334674	10.0	2276632.0	0.334674	Y
4	IC 410-652703/16	2.0	0.670388	10.0	2320746.0	0.335194	Y
5	IC 410-652703/17	5.0	1.655624	10.0	2313176.0	0.331125	Y
6	ICIS 410-652703/18	10.0	3.204084	10.0	2356745.0	0.320408	Y
7	IC 410-652703/19	25.0	8.387856	10.0	2383670.0	0.335514	Y



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Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

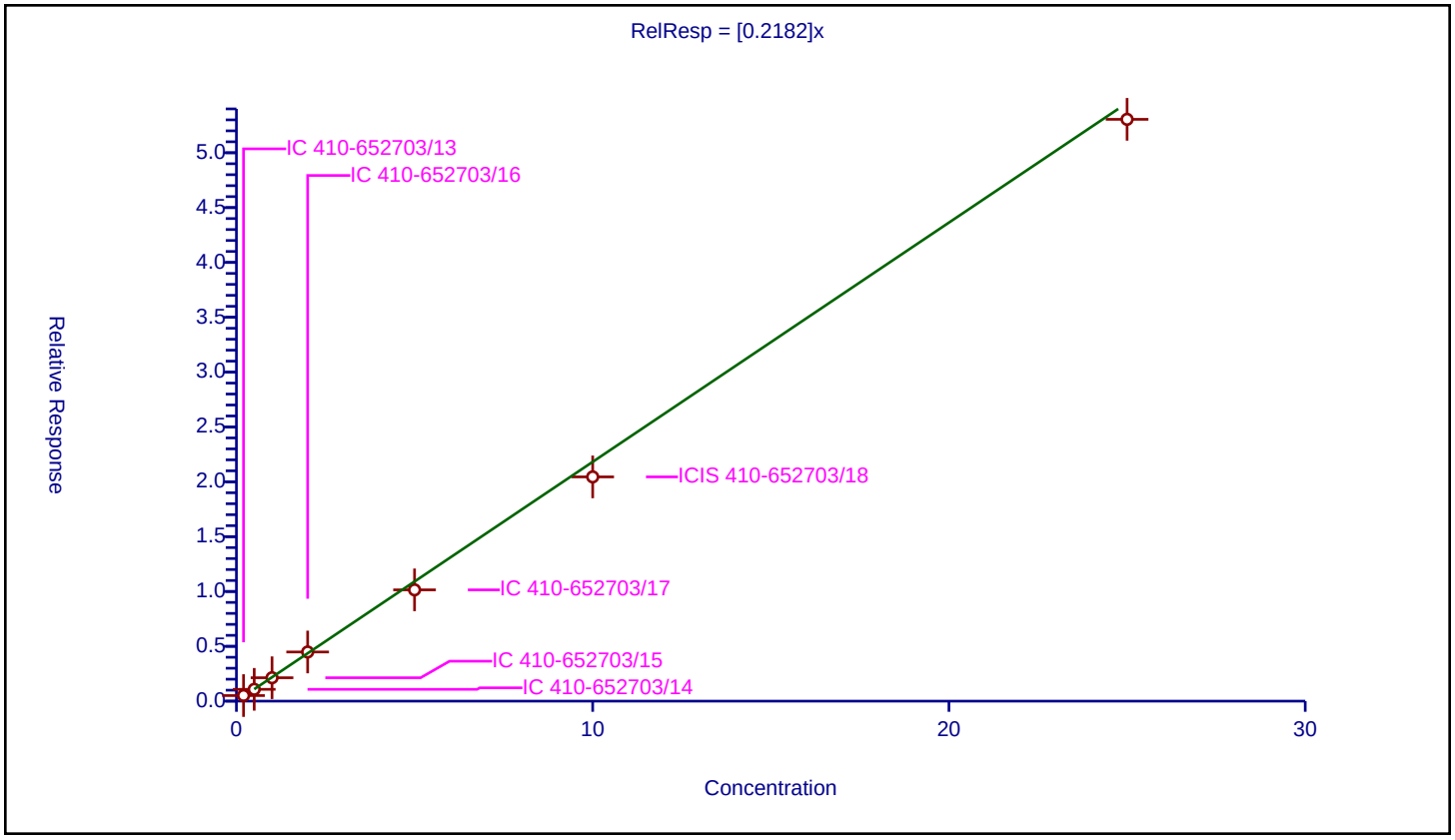
Curve Coefficients

Intercept:	0
Slope:	0.2182

Error Coefficients

Relative Standard Deviation:	8.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.050953	10.0	2284843.0	0.254766	Y
2	IC 410-652703/14	0.5	0.107671	10.0	2238774.0	0.215341	Y
3	IC 410-652703/15	1.0	0.213337	10.0	2276632.0	0.213337	Y
4	IC 410-652703/16	2.0	0.448239	10.0	2320746.0	0.22412	Y
5	IC 410-652703/17	5.0	1.014756	10.0	2313176.0	0.202951	Y
6	ICIS 410-652703/18	10.0	2.044727	10.0	2356745.0	0.204473	Y
7	IC 410-652703/19	25.0	5.304786	10.0	2383670.0	0.212191	Y



7/30/2025
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Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

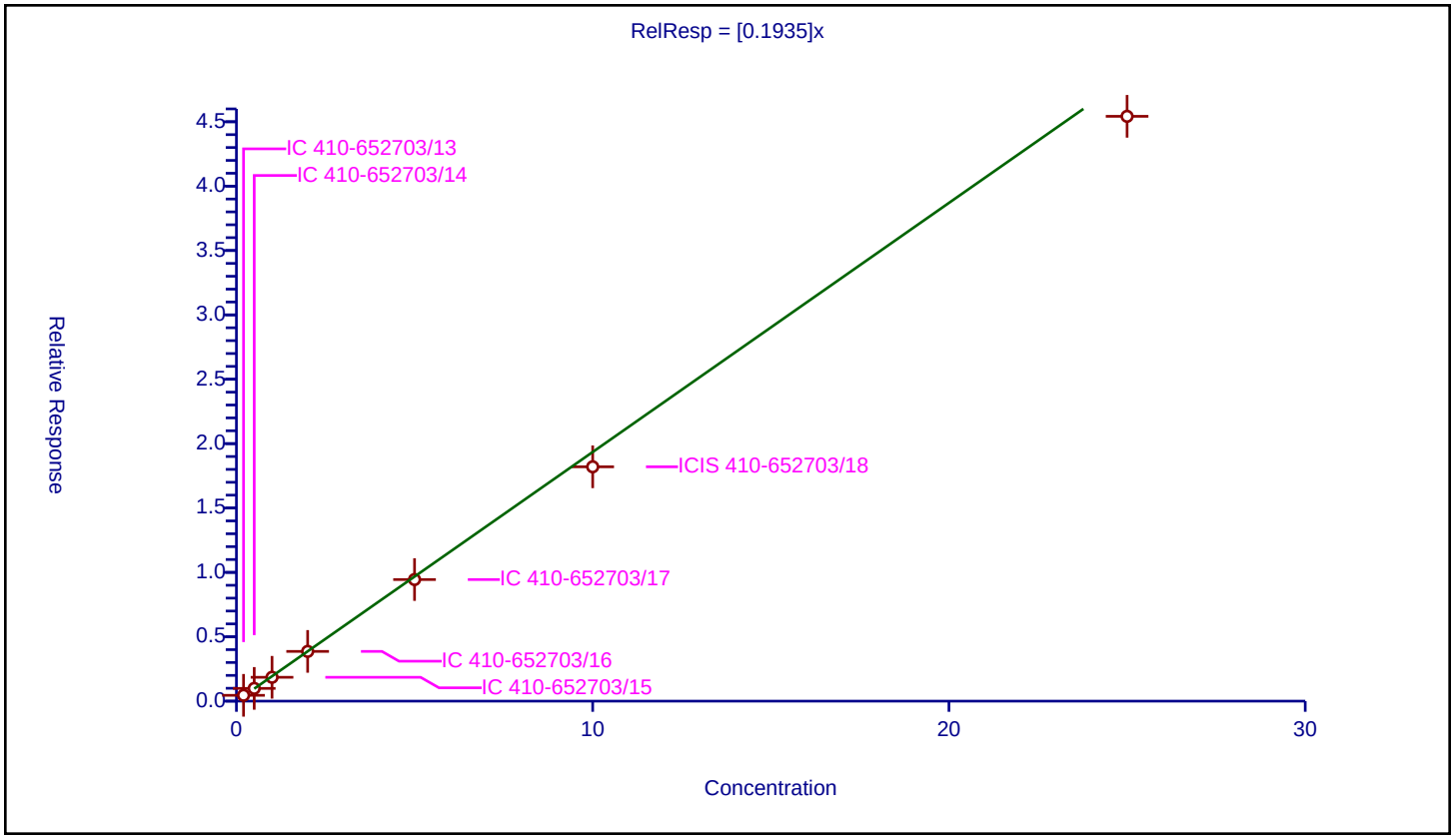
Curve Coefficients

Intercept:	0
Slope:	0.1935

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.045102	10.0	2284843.0	0.225508	Y
2	IC 410-652703/14	0.5	0.099001	10.0	2238774.0	0.198001	Y
3	IC 410-652703/15	1.0	0.185151	10.0	2276632.0	0.185151	Y
4	IC 410-652703/16	2.0	0.386307	10.0	2320746.0	0.193153	Y
5	IC 410-652703/17	5.0	0.944494	10.0	2313176.0	0.188899	Y
6	ICIS 410-652703/18	10.0	1.820044	10.0	2356745.0	0.182004	Y
7	IC 410-652703/19	25.0	4.542189	10.0	2383670.0	0.181688	Y



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Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

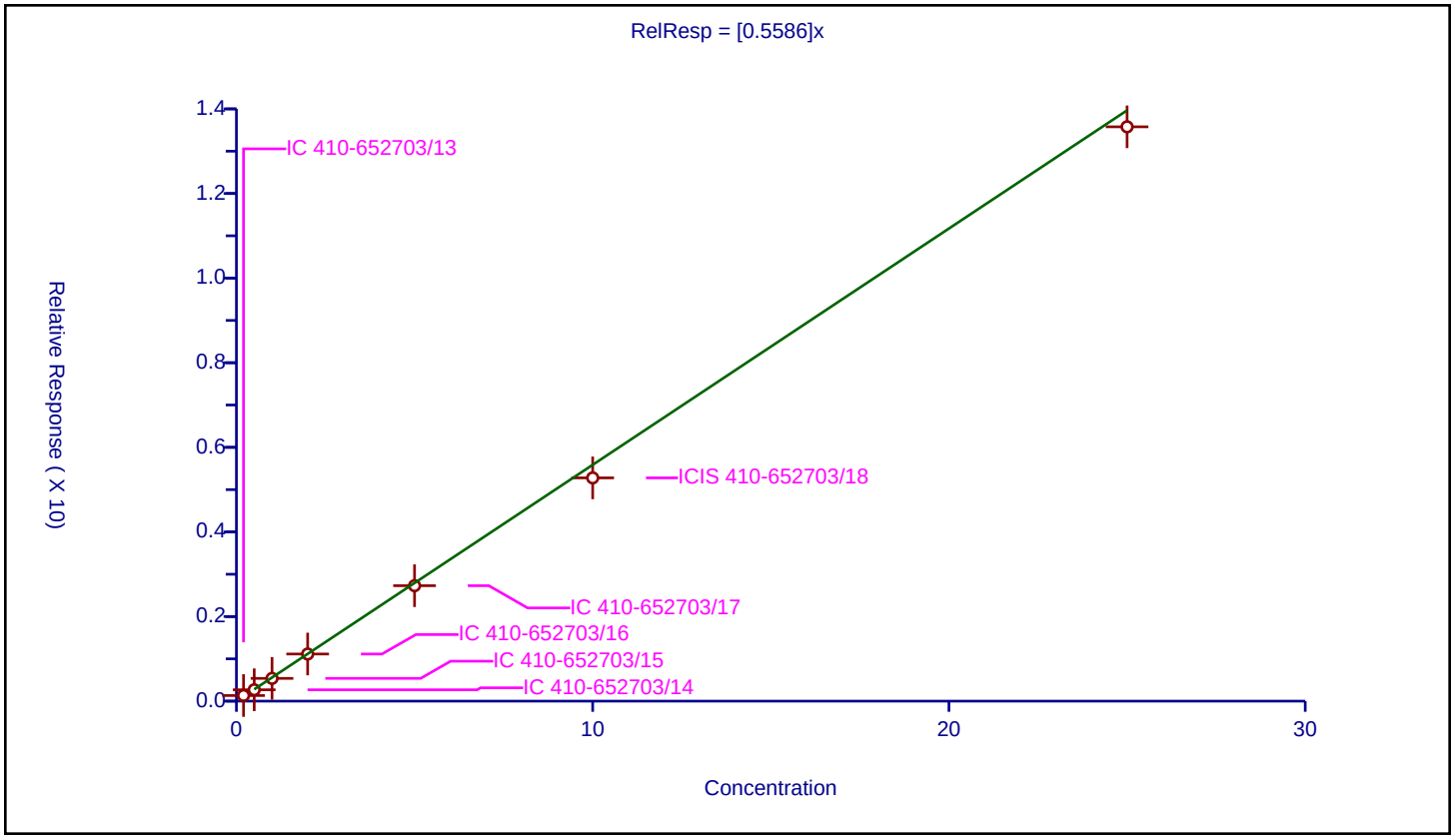
Curve Coefficients

Intercept:	0
Slope:	0.5586

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.132276	10.0	2284843.0	0.66138	Y
2	IC 410-652703/14	0.5	0.268634	10.0	2238774.0	0.537267	Y
3	IC 410-652703/15	1.0	0.537909	10.0	2276632.0	0.537909	Y
4	IC 410-652703/16	2.0	1.114254	10.0	2320746.0	0.557127	Y
5	IC 410-652703/17	5.0	2.728703	10.0	2313176.0	0.545741	Y
6	ICIS 410-652703/18	10.0	5.277453	10.0	2356745.0	0.527745	Y
7	IC 410-652703/19	25.0	13.576435	10.0	2383670.0	0.543057	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

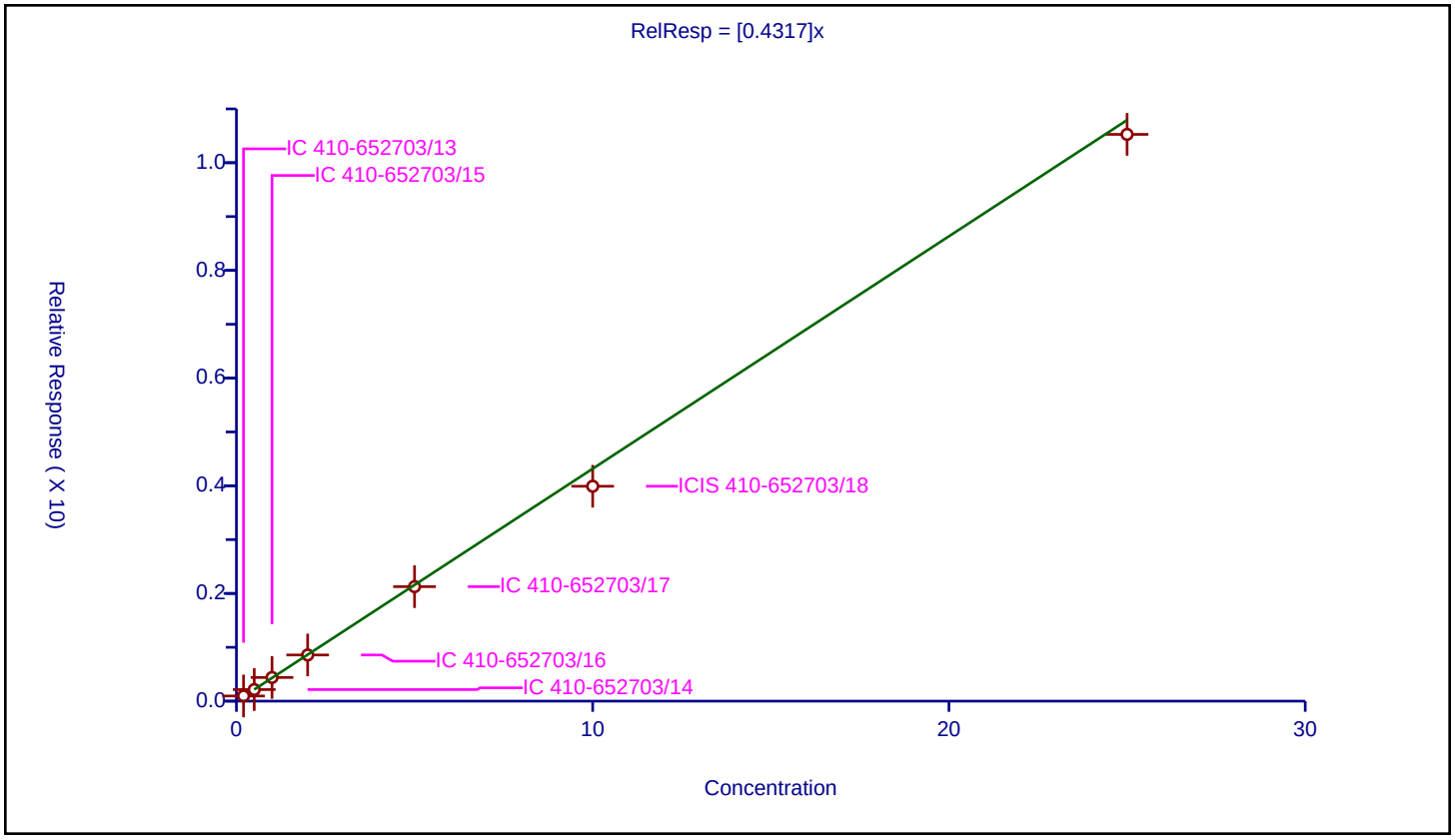
Curve Coefficients

Intercept:	0
Slope:	0.4317

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.095547	10.0	2284843.0	0.477735	Y
2	IC 410-652703/14	0.5	0.215113	10.0	2238774.0	0.430227	Y
3	IC 410-652703/15	1.0	0.439645	10.0	2276632.0	0.439645	Y
4	IC 410-652703/16	2.0	0.857513	10.0	2320746.0	0.428757	Y
5	IC 410-652703/17	5.0	2.126176	10.0	2313176.0	0.425235	Y
6	ICIS 410-652703/18	10.0	3.991382	10.0	2356745.0	0.399138	Y
7	IC 410-652703/19	25.0	10.526554	10.0	2383670.0	0.421062	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

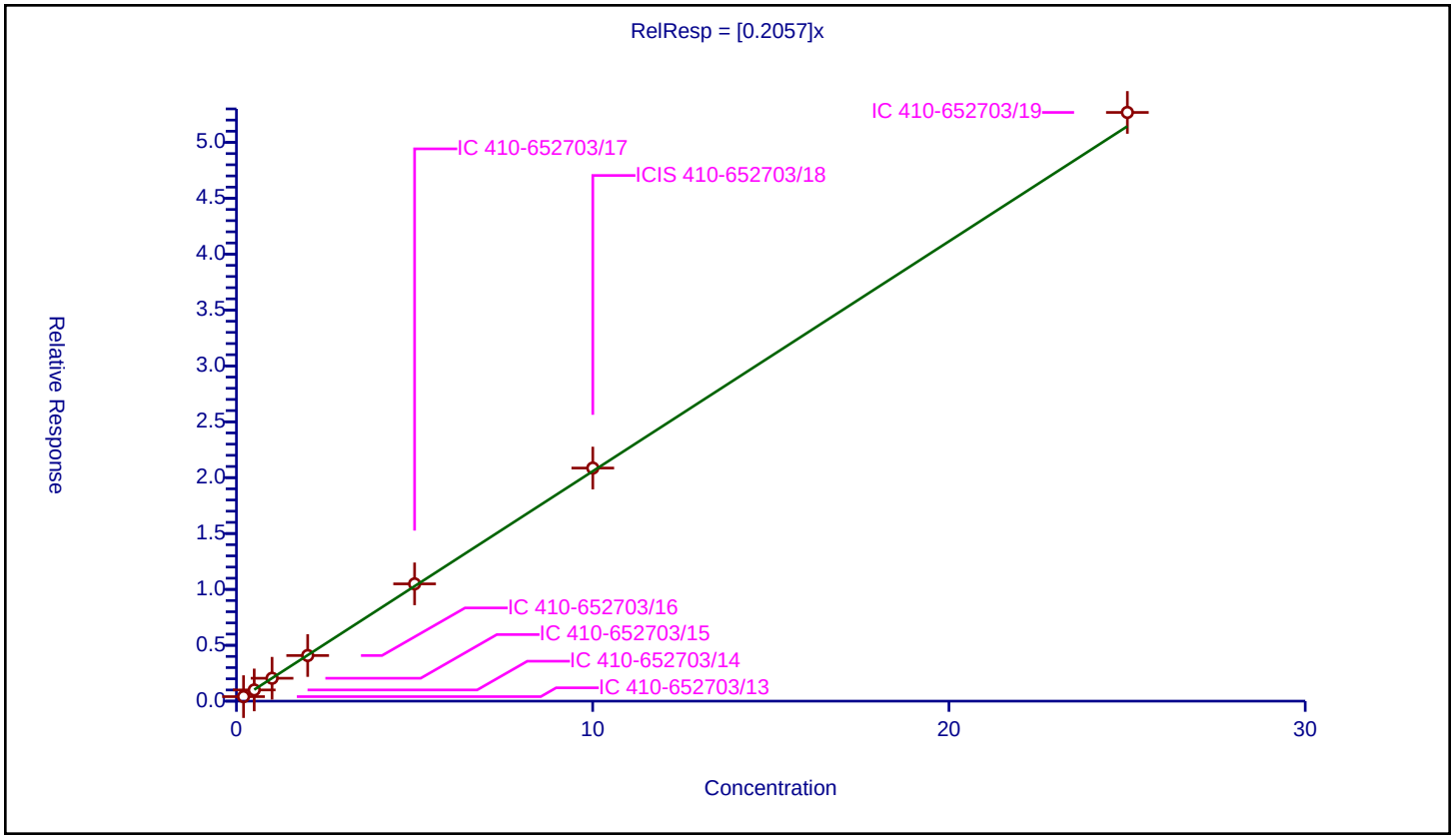
Curve Coefficients

Intercept:	0
Slope:	0.2057

Error Coefficients

Relative Standard Deviation:	2.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.200066	0.040375	10.0	2284843.0	0.201807	Y
2	IC 410-652703/14	0.500166	0.100216	10.0	2238774.0	0.200365	Y
3	IC 410-652703/15	1.000332	0.204895	10.0	2276632.0	0.204827	Y
4	IC 410-652703/16	2.000664	0.408179	10.0	2320746.0	0.204022	Y
5	IC 410-652703/17	5.00166	1.049501	10.0	2313176.0	0.20983	Y
6	ICIS 410-652703/18	10.00332	2.085966	10.0	2356745.0	0.208527	Y
7	IC 410-652703/19	25.0083	5.268296	10.0	2383670.0	0.210662	Y



7/30/2025
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Calibration / 1,2-Dichloro-1,1,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

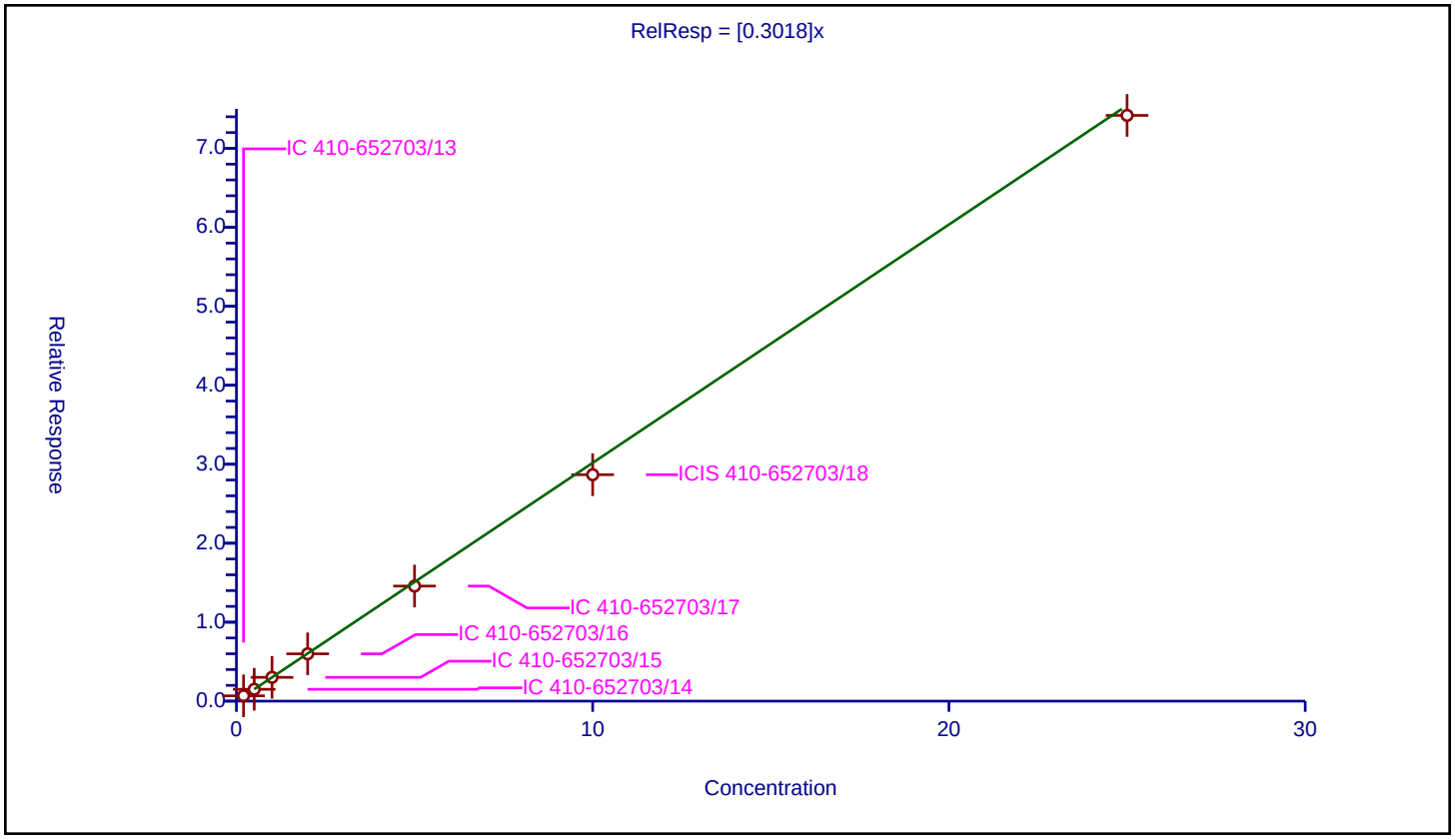
Curve Coefficients

Intercept:	0
Slope:	0.3018

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.067353	10.0	2284843.0	0.336763	Y
2	IC 410-652703/14	0.5	0.149836	10.0	2238774.0	0.299673	Y
3	IC 410-652703/15	1.0	0.301445	10.0	2276632.0	0.301445	Y
4	IC 410-652703/16	2.0	0.599049	10.0	2320746.0	0.299524	Y
5	IC 410-652703/17	5.0	1.457338	10.0	2313176.0	0.291468	Y
6	ICIS 410-652703/18	10.0	2.867429	10.0	2356745.0	0.286743	Y
7	IC 410-652703/19	25.0	7.41773	10.0	2383670.0	0.296709	Y



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Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

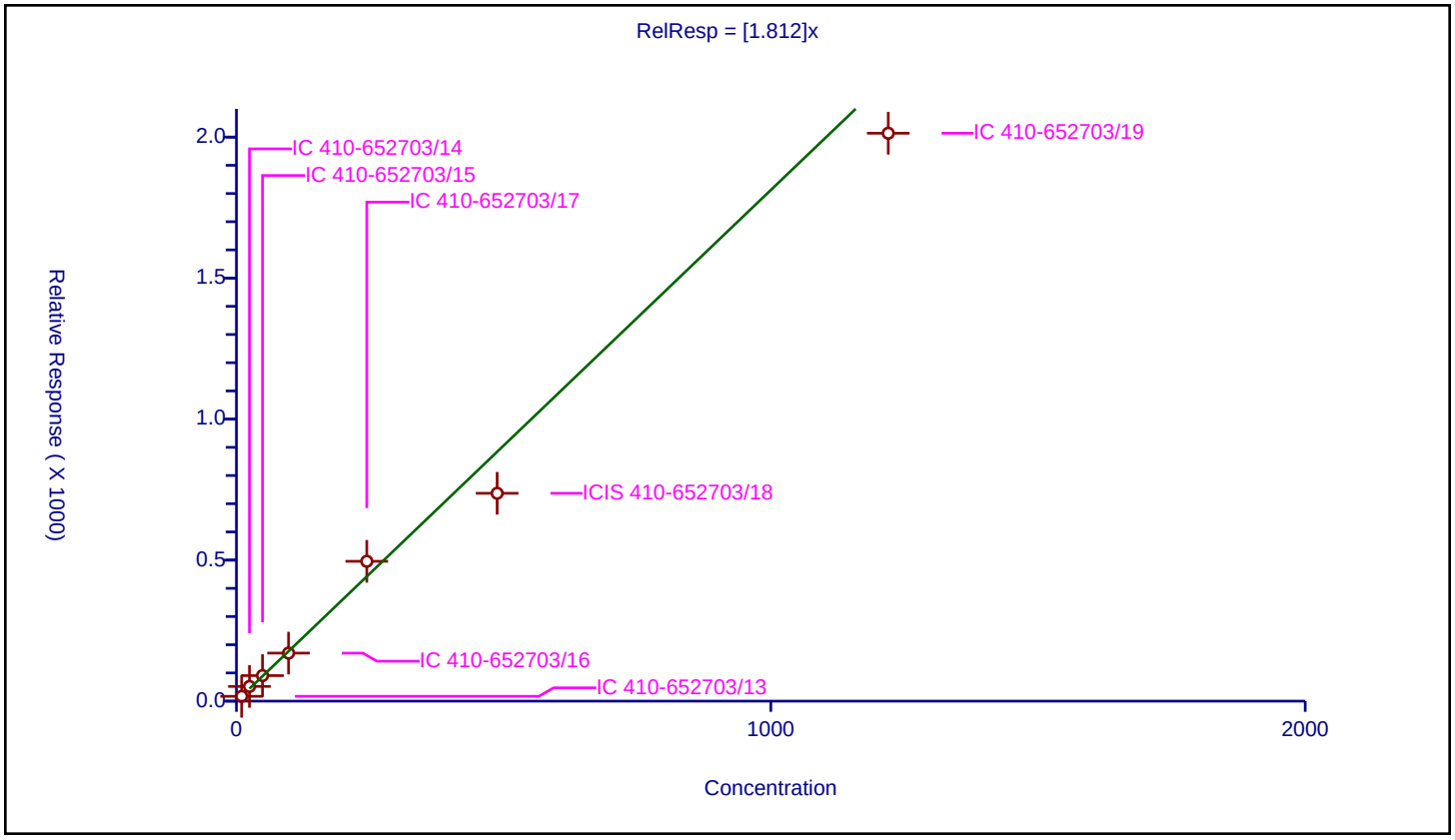
Curve Coefficients

Intercept:	0
Slope:	1.812

Error Coefficients

Relative Standard Deviation:	11.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	9.758146	17.102822	50.0	176275.0	1.752671	Y
2	IC 410-652703/14	24.395365	52.140566	50.0	174580.0	2.137314	Y
3	IC 410-652703/15	48.790729	90.535196	50.0	173955.0	1.855582	Y
4	IC 410-652703/16	97.581458	170.33646	50.0	202164.0	1.745582	Y
5	IC 410-652703/17	243.953646	495.895798	50.0	195044.0	2.032746	Y
6	ICIS 410-652703/18	487.907292	737.014978	50.0	195687.0	1.510564	Y
7	IC 410-652703/19	1219.76823	2013.717159	50.0	190156.0	1.650901	Y



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Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

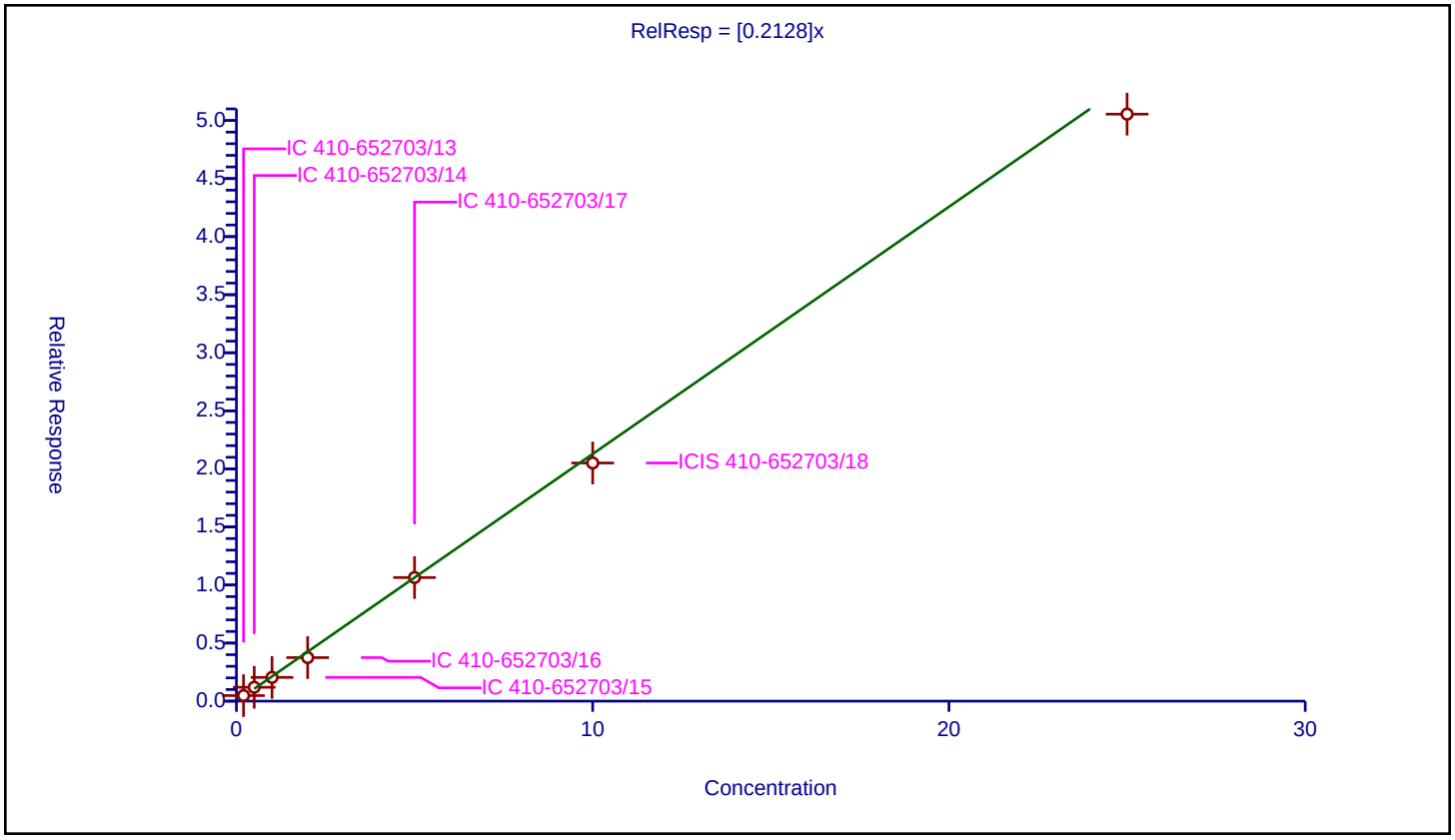
Curve Coefficients

Intercept:	0
Slope:	0.2128

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.047798	10.0	2284843.0	0.238988	Y
2	IC 410-652703/14	0.5	0.119409	10.0	2238774.0	0.238818	Y
3	IC 410-652703/15	1.0	0.204557	10.0	2276632.0	0.204557	Y
4	IC 410-652703/16	2.0	0.374789	10.0	2320746.0	0.187394	Y
5	IC 410-652703/17	5.0	1.06442	10.0	2313176.0	0.212884	Y
6	ICIS 410-652703/18	10.0	2.050824	10.0	2356745.0	0.205082	Y
7	IC 410-652703/19	25.0	5.05489	10.0	2383670.0	0.202196	Y



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Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

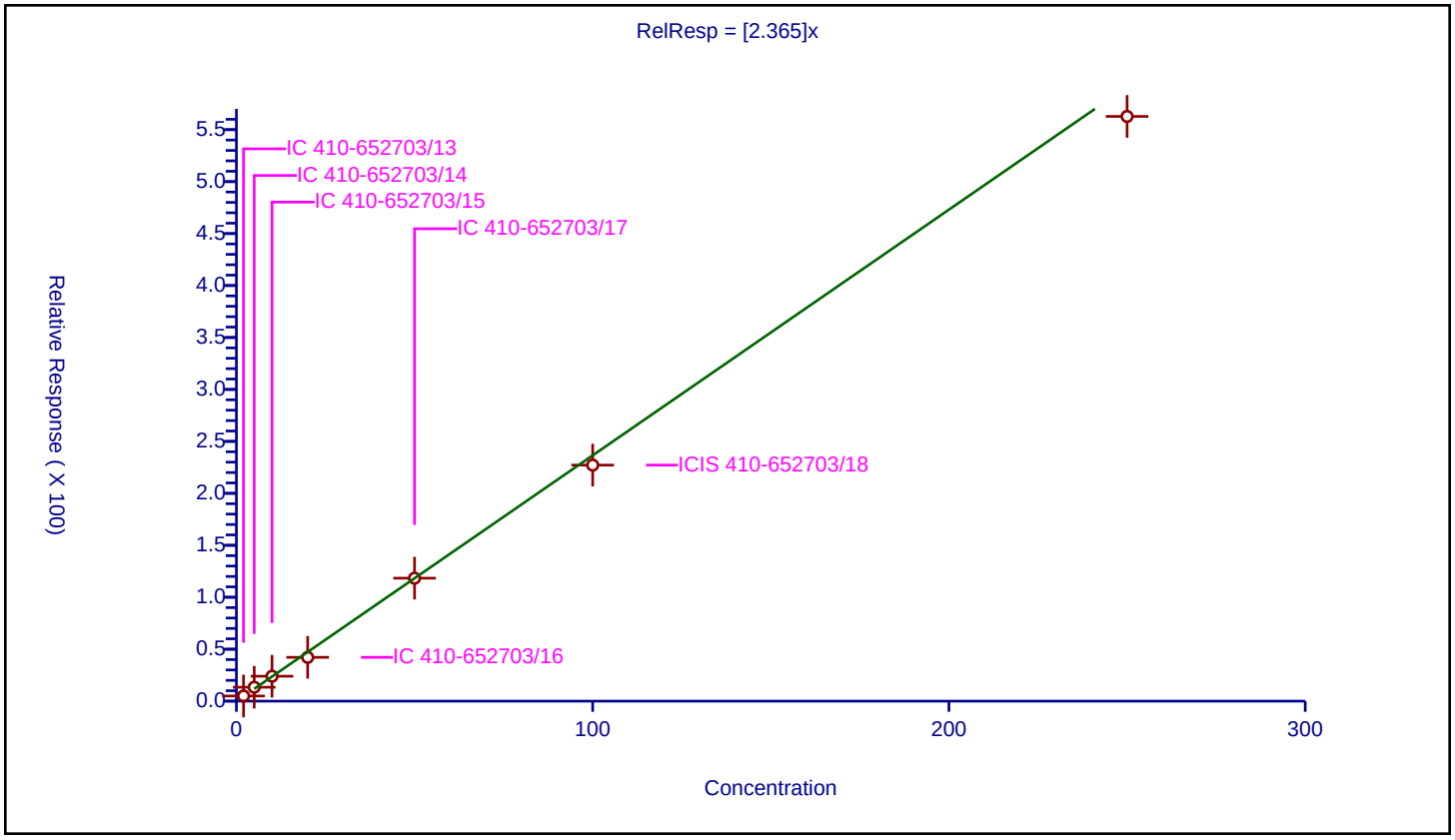
Curve Coefficients

Intercept:	0
Slope:	2.365

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	2.0	4.95958	50.0	176275.0	2.47979	Y
2	IC 410-652703/14	5.0	13.405029	50.0	174580.0	2.681006	Y
3	IC 410-652703/15	10.0	23.98925	50.0	173955.0	2.398925	Y
4	IC 410-652703/16	20.0	42.152906	50.0	202164.0	2.107645	Y
5	IC 410-652703/17	50.0	118.337657	50.0	195044.0	2.366753	Y
6	ICIS 410-652703/18	100.0	227.149734	50.0	195687.0	2.271497	Y
7	IC 410-652703/19	250.0	562.748743	50.0	190156.0	2.250995	Y



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Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

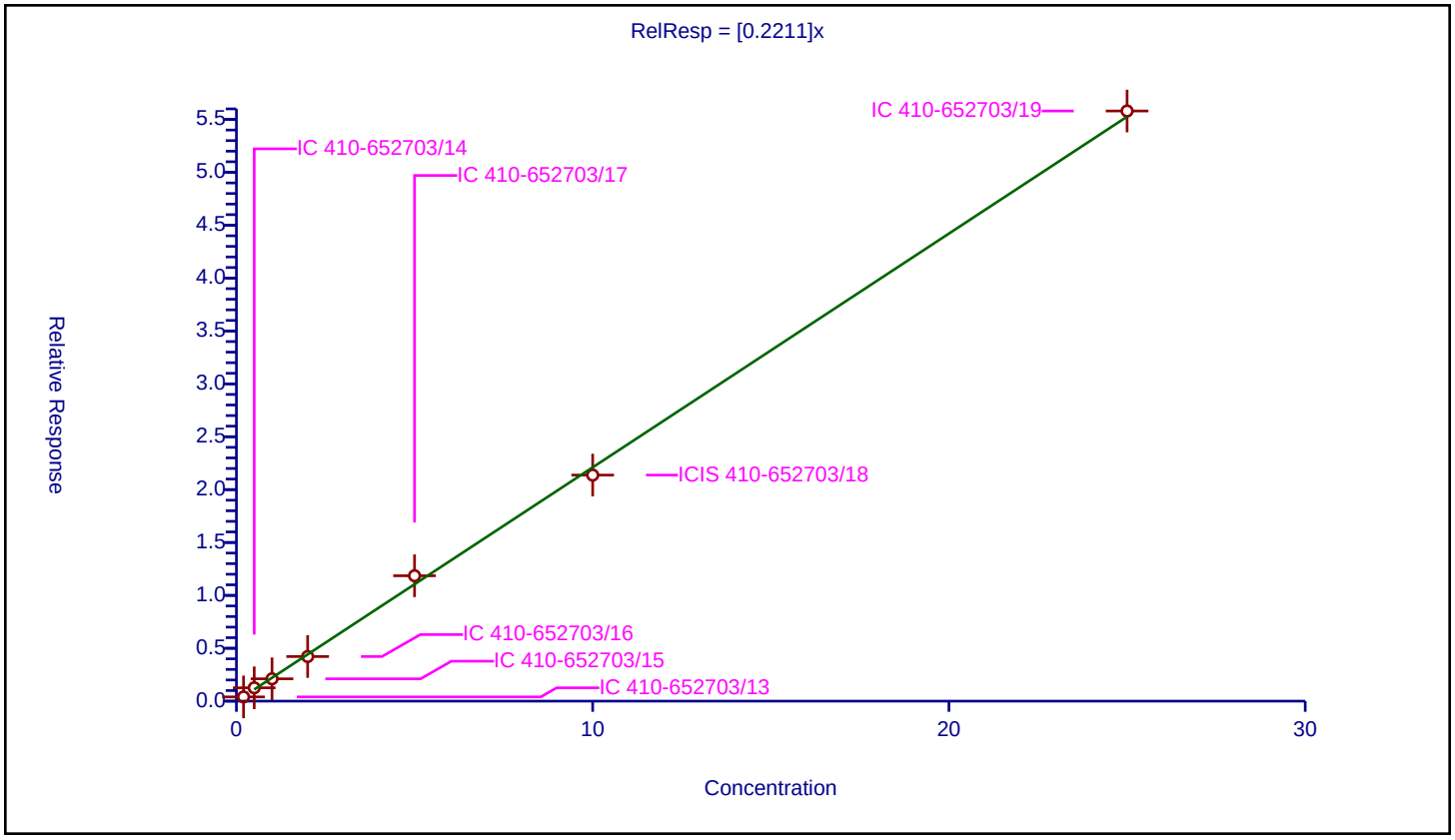
Curve Coefficients

Intercept:	0
Slope:	0.2211

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.039823	10.0	2284843.0	0.199117	Y
2	IC 410-652703/14	0.5	0.126033	10.0	2238774.0	0.252067	Y
3	IC 410-652703/15	1.0	0.21129	10.0	2276632.0	0.21129	Y
4	IC 410-652703/16	2.0	0.421757	10.0	2320746.0	0.210878	Y
5	IC 410-652703/17	5.0	1.185426	10.0	2313176.0	0.237085	Y
6	ICIS 410-652703/18	10.0	2.137418	10.0	2356745.0	0.213742	Y
7	IC 410-652703/19	25.0	5.580198	10.0	2383670.0	0.223208	Y



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Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

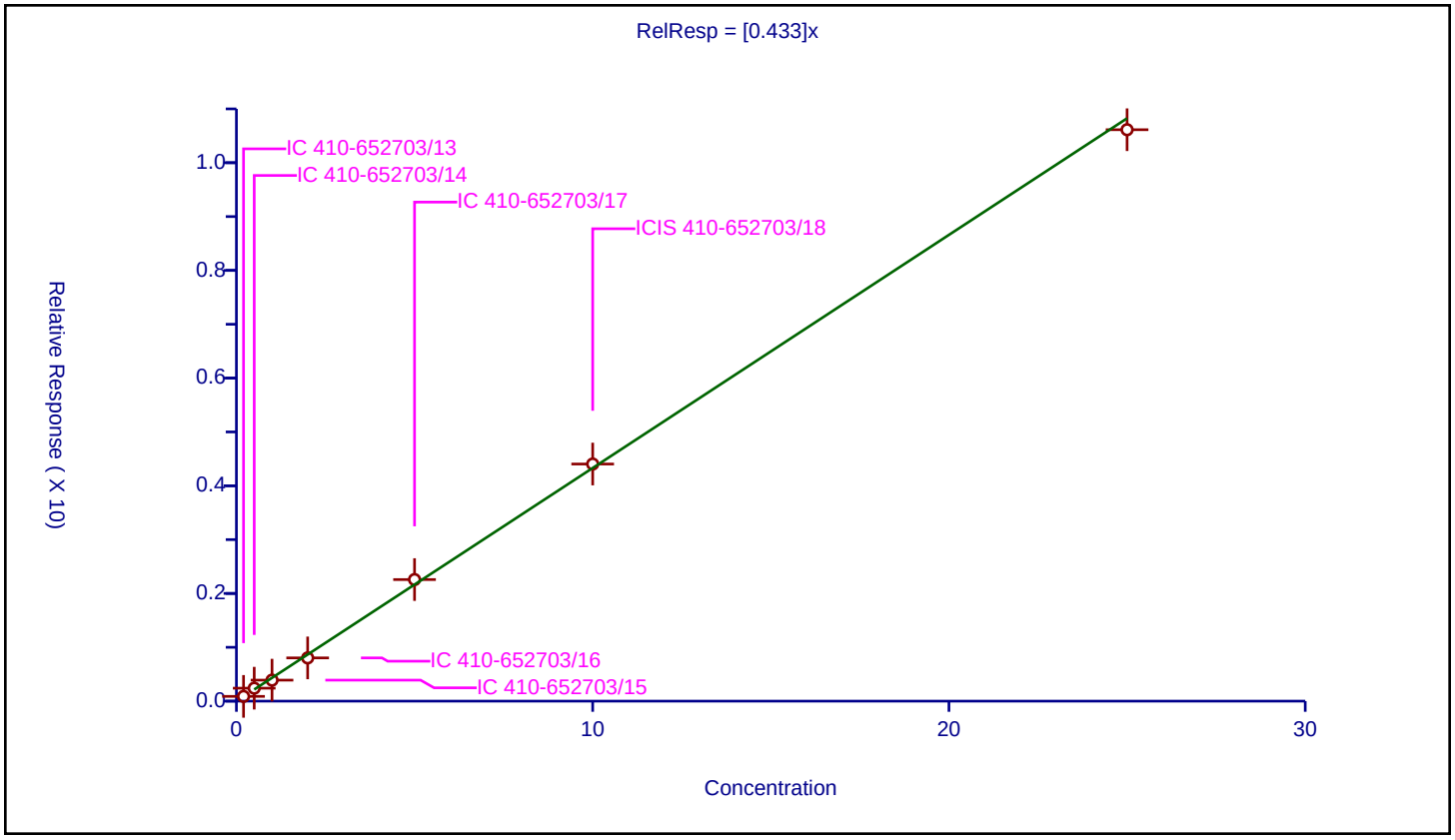
Curve Coefficients

Intercept:	0
Slope:	0.433

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.088164	10.0	2284843.0	0.440818	Y
2	IC 410-652703/14	0.5	0.240886	10.0	2238774.0	0.481773	Y
3	IC 410-652703/15	1.0	0.390296	10.0	2276632.0	0.390296	Y
4	IC 410-652703/16	2.0	0.803138	10.0	2320746.0	0.401569	Y
5	IC 410-652703/17	5.0	2.258047	10.0	2313176.0	0.451609	Y
6	ICIS 410-652703/18	10.0	4.403756	10.0	2356745.0	0.440376	Y
7	IC 410-652703/19	25.0	10.613336	10.0	2383670.0	0.424533	Y



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Calibration / Ethyl bromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

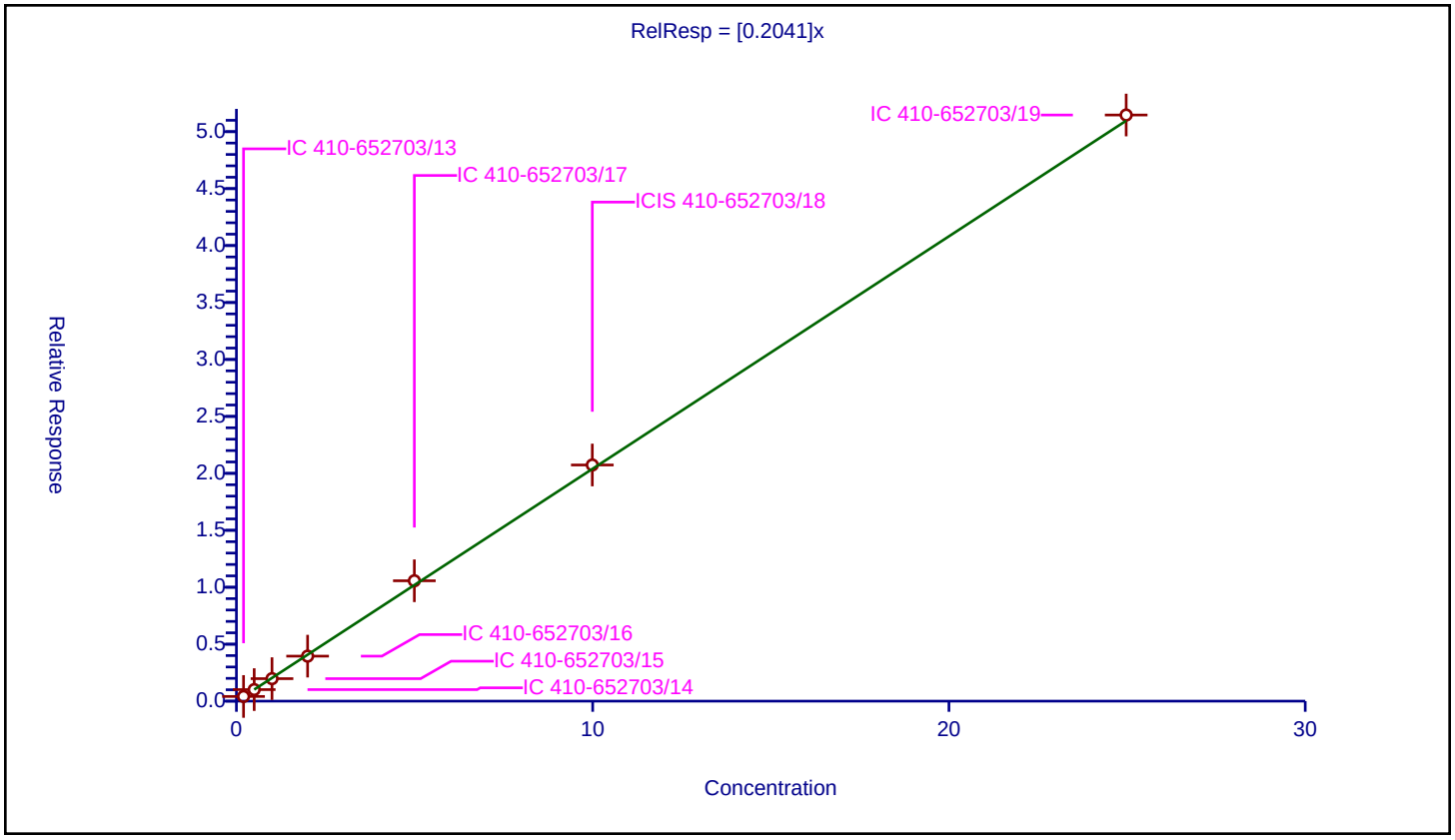
Curve Coefficients

Intercept:	0
Slope:	0.2041

Error Coefficients

Relative Standard Deviation:	2.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.199795	0.040926	10.0	2284843.0	0.204841	Y
2	IC 410-652703/14	0.499488	0.101408	10.0	2238774.0	0.203024	Y
3	IC 410-652703/15	0.998976	0.197392	10.0	2276632.0	0.197595	Y
4	IC 410-652703/16	1.997952	0.395101	10.0	2320746.0	0.197753	Y
5	IC 410-652703/17	4.99488	1.056846	10.0	2313176.0	0.211586	Y
6	ICIS 410-652703/18	9.98976	2.073343	10.0	2356745.0	0.207547	Y
7	IC 410-652703/19	24.9744	5.146212	10.0	2383670.0	0.206059	Y



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Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

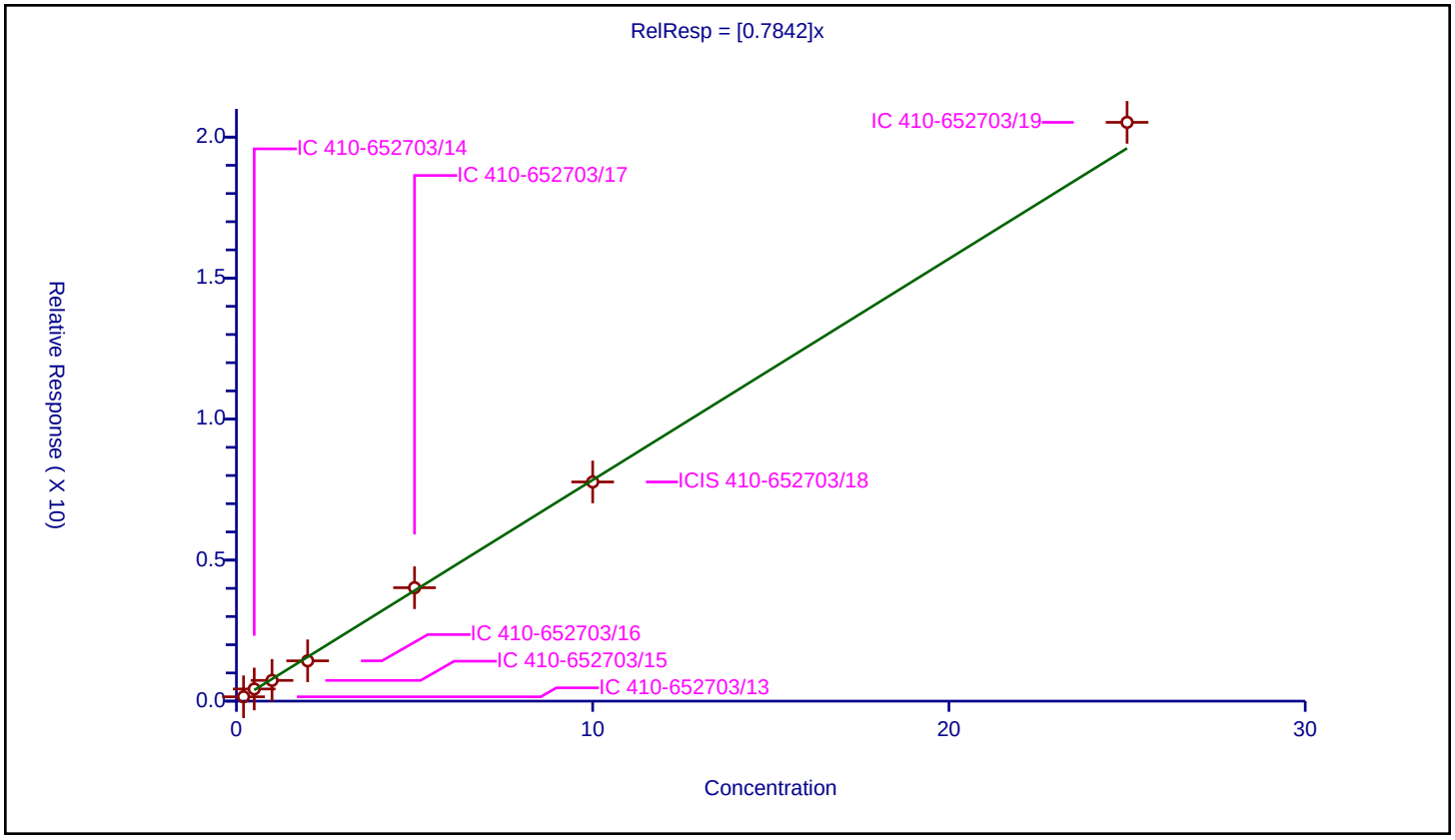
Curve Coefficients

Intercept:	0
Slope:	0.7842

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.154825	10.0	2284843.0	0.774123	Y
2	IC 410-652703/14	0.5	0.431303	10.0	2238774.0	0.862606	Y
3	IC 410-652703/15	1.0	0.735538	10.0	2276632.0	0.735538	Y
4	IC 410-652703/16	2.0	1.429092	10.0	2320746.0	0.714546	Y
5	IC 410-652703/17	5.0	4.021665	10.0	2313176.0	0.804333	Y
6	ICIS 410-652703/18	10.0	7.77188	10.0	2356745.0	0.777188	Y
7	IC 410-652703/19	25.0	20.523189	10.0	2383670.0	0.820928	Y



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Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

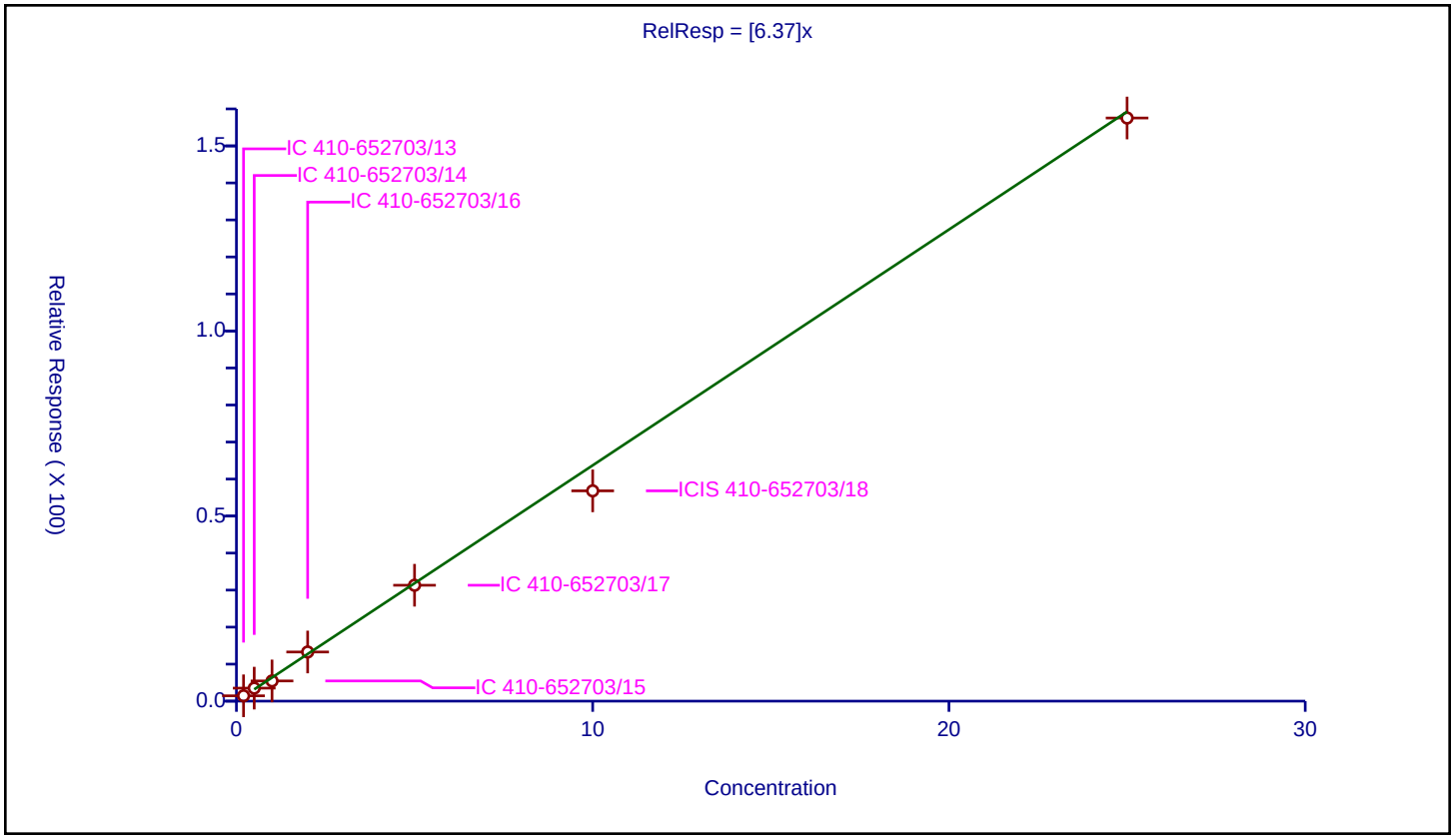
Curve Coefficients

Intercept:	0
Slope:	6.37

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	1.443767	50.0	176275.0	7.218834	Y
2	IC 410-652703/14	0.5	3.516439	50.0	174580.0	7.032879	Y
3	IC 410-652703/15	1.0	5.454572	50.0	173955.0	5.454572	Y
4	IC 410-652703/16	2.0	13.27907	50.0	202164.0	6.639535	Y
5	IC 410-652703/17	5.0	31.307295	50.0	195044.0	6.261459	Y
6	ICIS 410-652703/18	10.0	56.810621	50.0	195687.0	5.681062	Y
7	IC 410-652703/19	25.0	157.538547	50.0	190156.0	6.301542	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

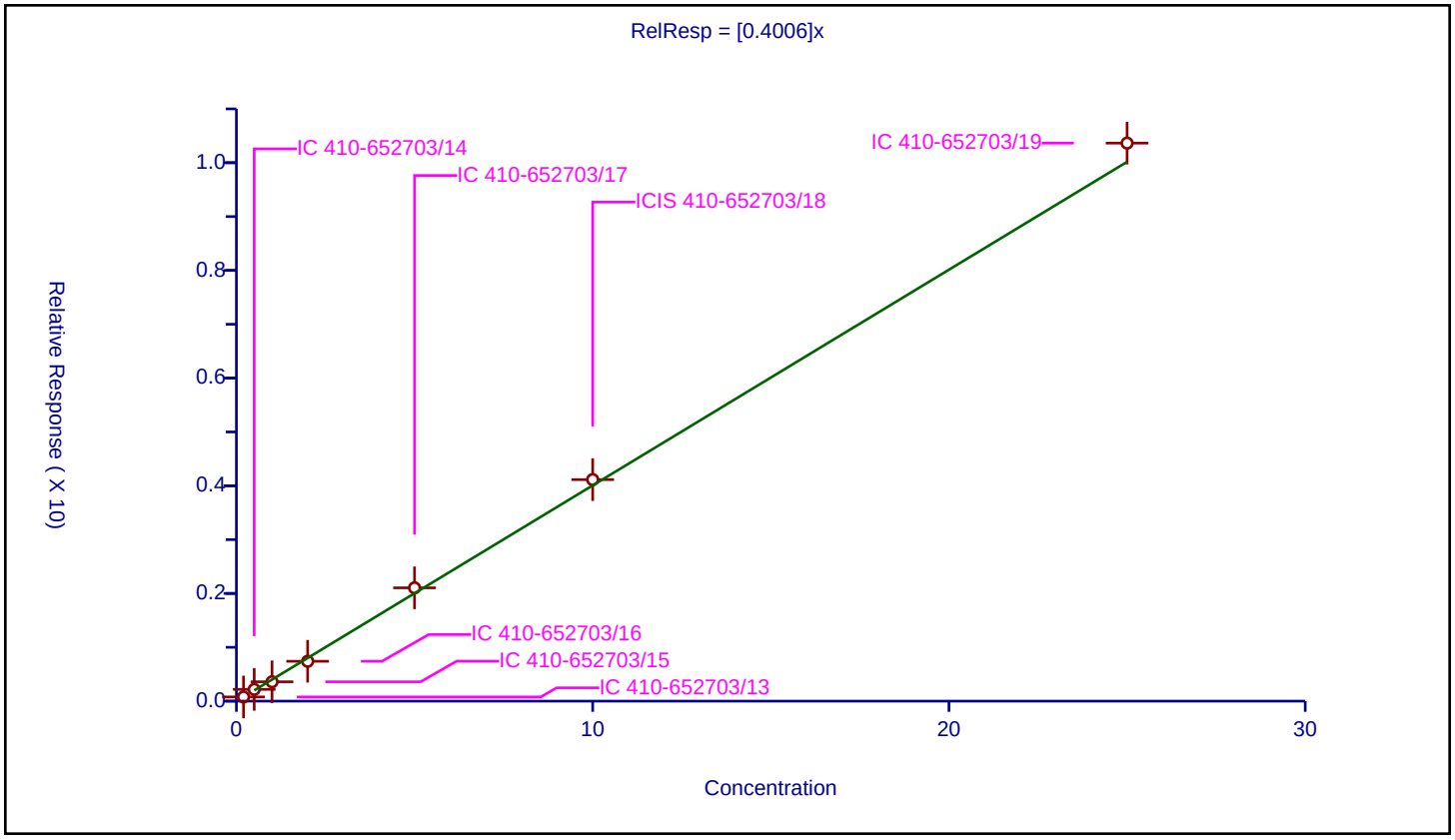
Curve Coefficients

Intercept:	0
Slope:	0.4006

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.07815	10.0	2284843.0	0.390749	Y
2	IC 410-652703/14	0.5	0.218638	10.0	2238774.0	0.437275	Y
3	IC 410-652703/15	1.0	0.359452	10.0	2276632.0	0.359452	Y
4	IC 410-652703/16	2.0	0.740292	10.0	2320746.0	0.370146	Y
5	IC 410-652703/17	5.0	2.104375	10.0	2313176.0	0.420875	Y
6	ICIS 410-652703/18	10.0	4.114527	10.0	2356745.0	0.411453	Y
7	IC 410-652703/19	25.0	10.364111	10.0	2383670.0	0.414564	Y



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Calibration / Methylene Chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

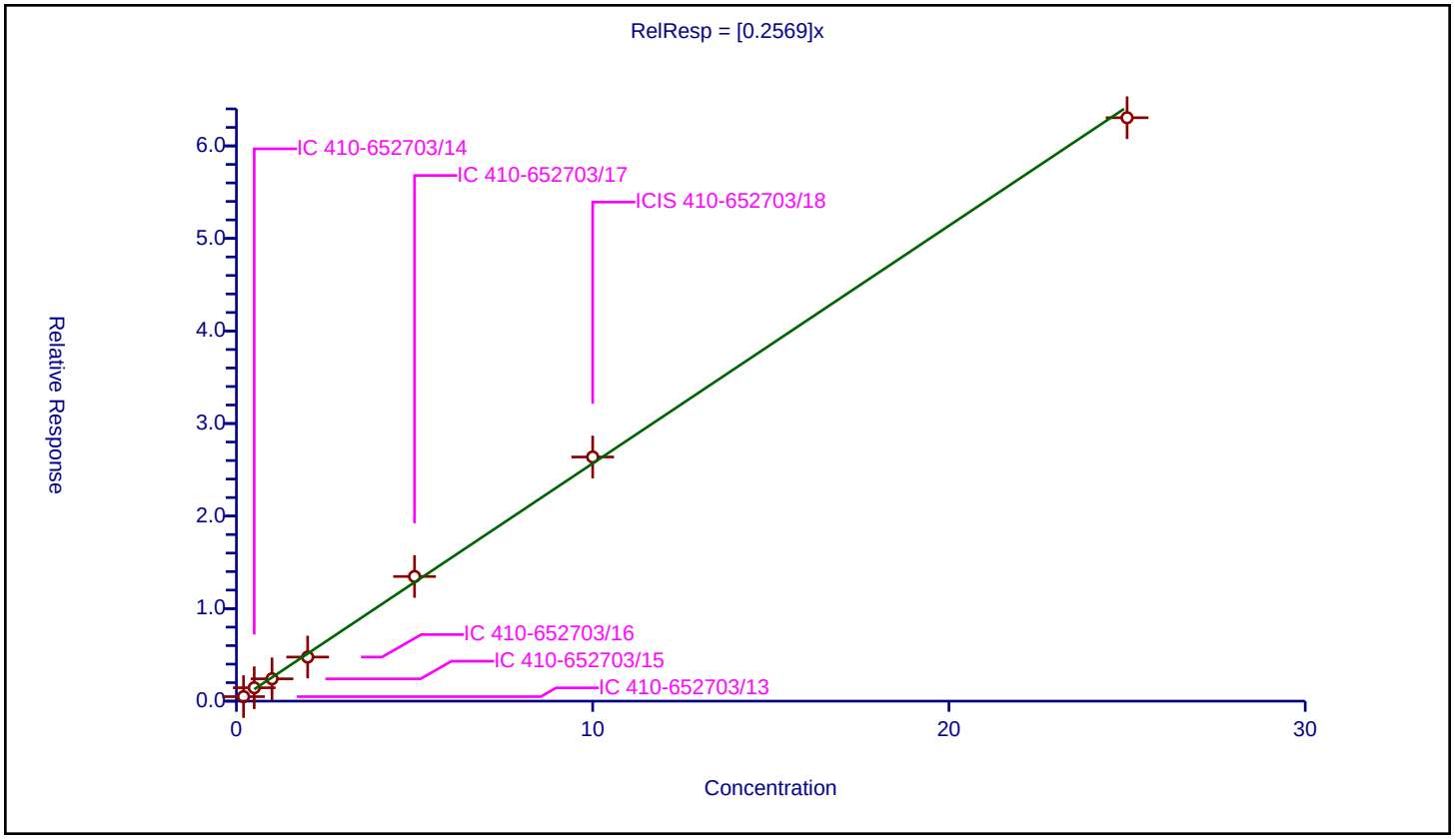
Curve Coefficients

Intercept:	0
Slope:	0.2569

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.048765	10.0	2284843.0	0.243824	Y
2	IC 410-652703/14	0.5	0.144646	10.0	2238774.0	0.289292	Y
3	IC 410-652703/15	1.0	0.241348	10.0	2276632.0	0.241348	Y
4	IC 410-652703/16	2.0	0.476368	10.0	2320746.0	0.238184	Y
5	IC 410-652703/17	5.0	1.347087	10.0	2313176.0	0.269417	Y
6	ICIS 410-652703/18	10.0	2.638228	10.0	2356745.0	0.263823	Y
7	IC 410-652703/19	25.0	6.304321	10.0	2383670.0	0.252173	Y



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Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

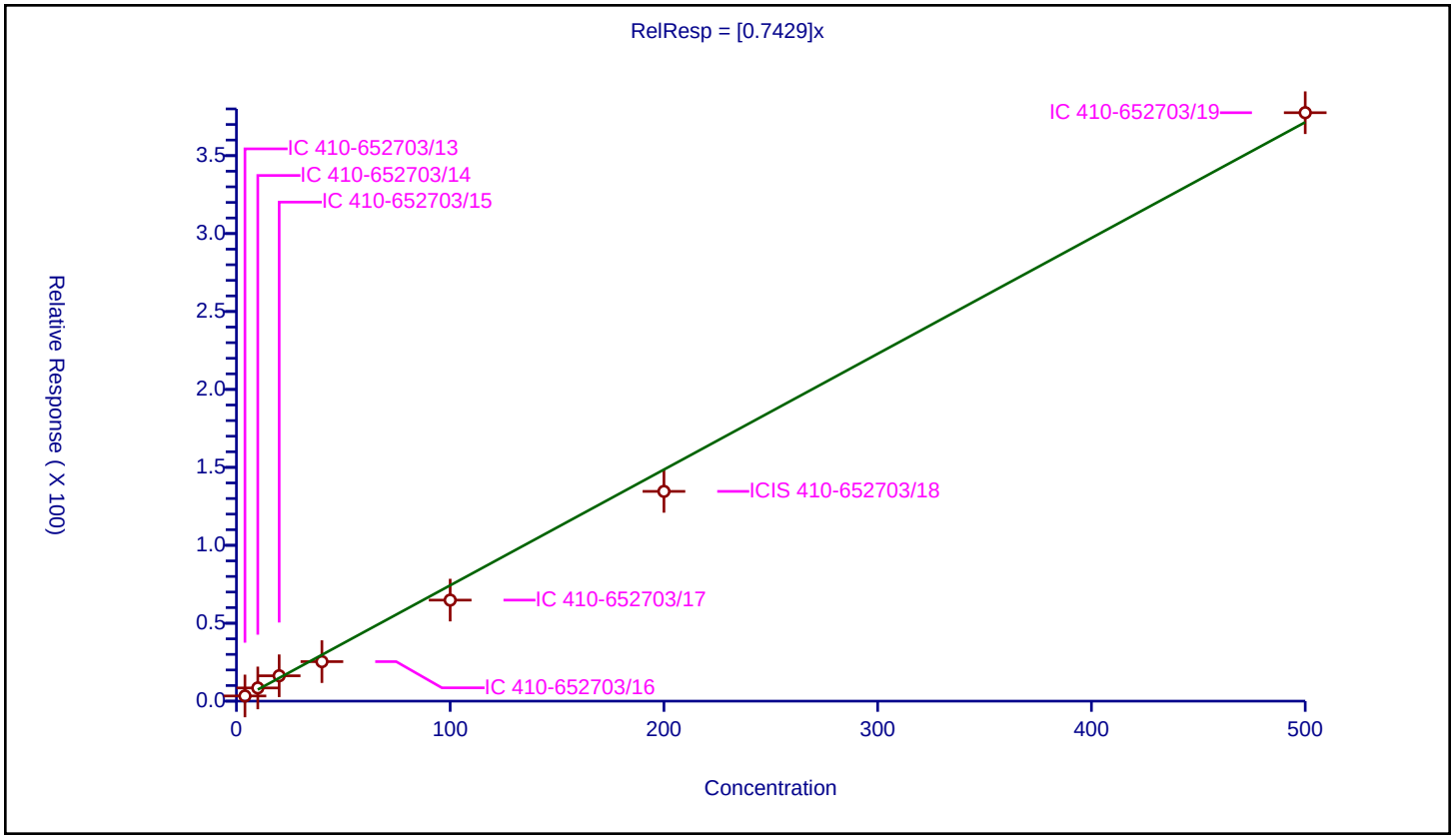
Curve Coefficients

Intercept:	0
Slope:	0.7429

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	4.0	3.317544	50.0	176275.0	0.829386	Y
2	IC 410-652703/14	10.0	8.464314	50.0	174580.0	0.846431	Y
3	IC 410-652703/15	20.0	16.281222	50.0	173955.0	0.814061	Y
4	IC 410-652703/16	40.0	25.353921	50.0	202164.0	0.633848	Y
5	IC 410-652703/17	100.0	64.828449	50.0	195044.0	0.648284	Y
6	ICIS 410-652703/18	200.0	134.578434	50.0	195687.0	0.672892	Y
7	IC 410-652703/19	500.0	377.560266	50.0	190156.0	0.755121	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

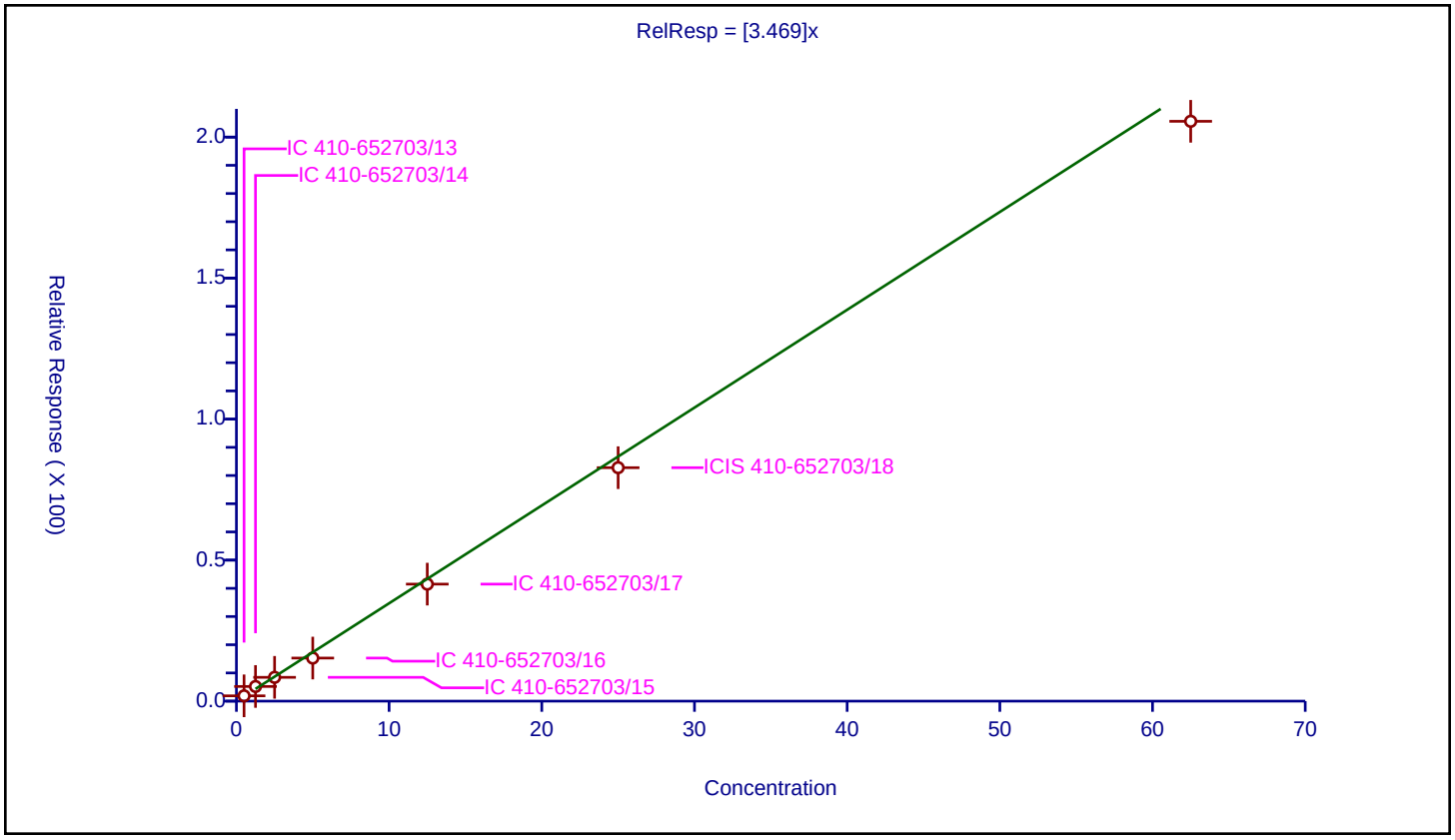
Curve Coefficients

Intercept:	0
Slope:	3.469

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.5	1.887959	50.0	176275.0	3.775918	Y
2	IC 410-652703/14	1.25	5.196758	50.0	174580.0	4.157406	Y
3	IC 410-652703/15	2.5	8.435802	50.0	173955.0	3.374321	Y
4	IC 410-652703/16	5.0	15.279179	50.0	202164.0	3.055836	Y
5	IC 410-652703/17	12.5	41.490125	50.0	195044.0	3.31921	Y
6	ICIS 410-652703/18	25.0	82.784498	50.0	195687.0	3.31138	Y
7	IC 410-652703/19	62.5	205.595143	50.0	190156.0	3.289522	Y



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Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

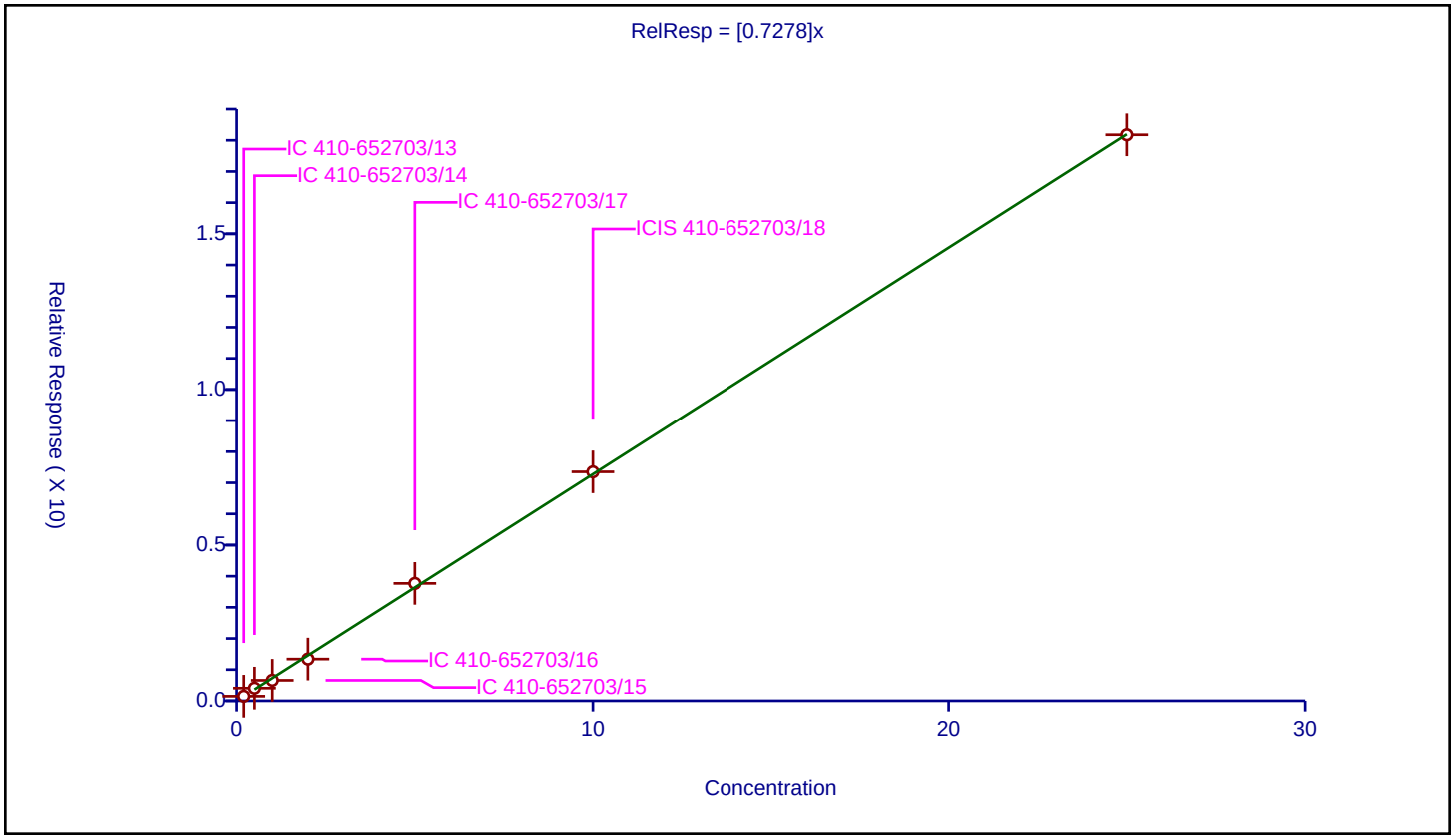
Curve Coefficients

Intercept:	0
Slope:	0.7278

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.147804	10.0	2284843.0	0.739022	Y
2	IC 410-652703/14	0.5	0.405892	10.0	2238774.0	0.811784	Y
3	IC 410-652703/15	1.0	0.657752	10.0	2276632.0	0.657752	Y
4	IC 410-652703/16	2.0	1.339401	10.0	2320746.0	0.669701	Y
5	IC 410-652703/17	5.0	3.76919	10.0	2313176.0	0.753838	Y
6	ICIS 410-652703/18	10.0	7.352573	10.0	2356745.0	0.735257	Y
7	IC 410-652703/19	25.0	18.1763	10.0	2383670.0	0.727052	Y



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Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

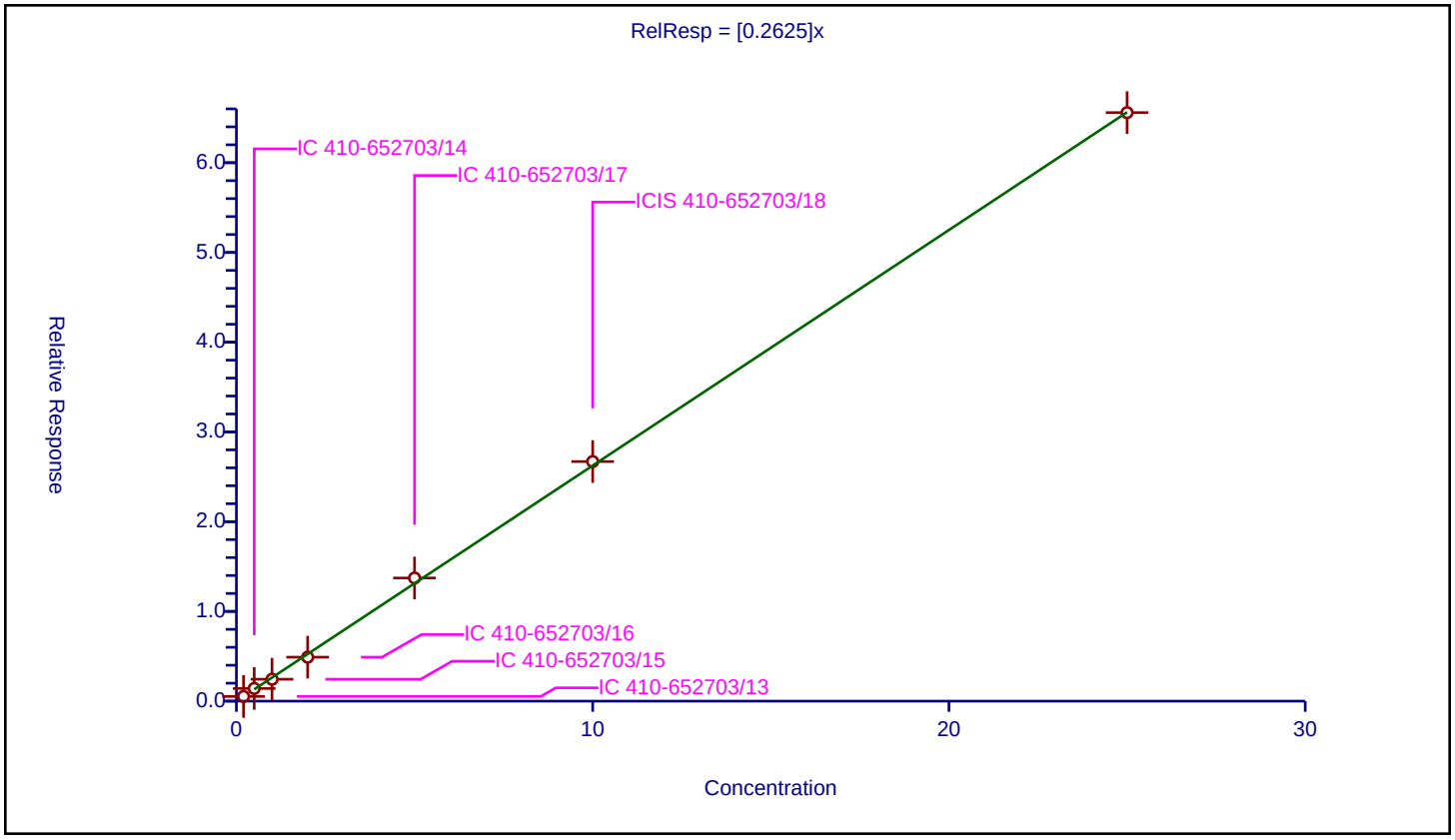
Curve Coefficients

Intercept:	0
Slope:	0.2625

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.052367	10.0	2284843.0	0.261834	Y
2	IC 410-652703/14	0.5	0.14147	10.0	2238774.0	0.282941	Y
3	IC 410-652703/15	1.0	0.24401	10.0	2276632.0	0.24401	Y
4	IC 410-652703/16	2.0	0.489877	10.0	2320746.0	0.244938	Y
5	IC 410-652703/17	5.0	1.372295	10.0	2313176.0	0.274459	Y
6	ICIS 410-652703/18	10.0	2.670089	10.0	2356745.0	0.267009	Y
7	IC 410-652703/19	25.0	6.558349	10.0	2383670.0	0.262334	Y



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Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

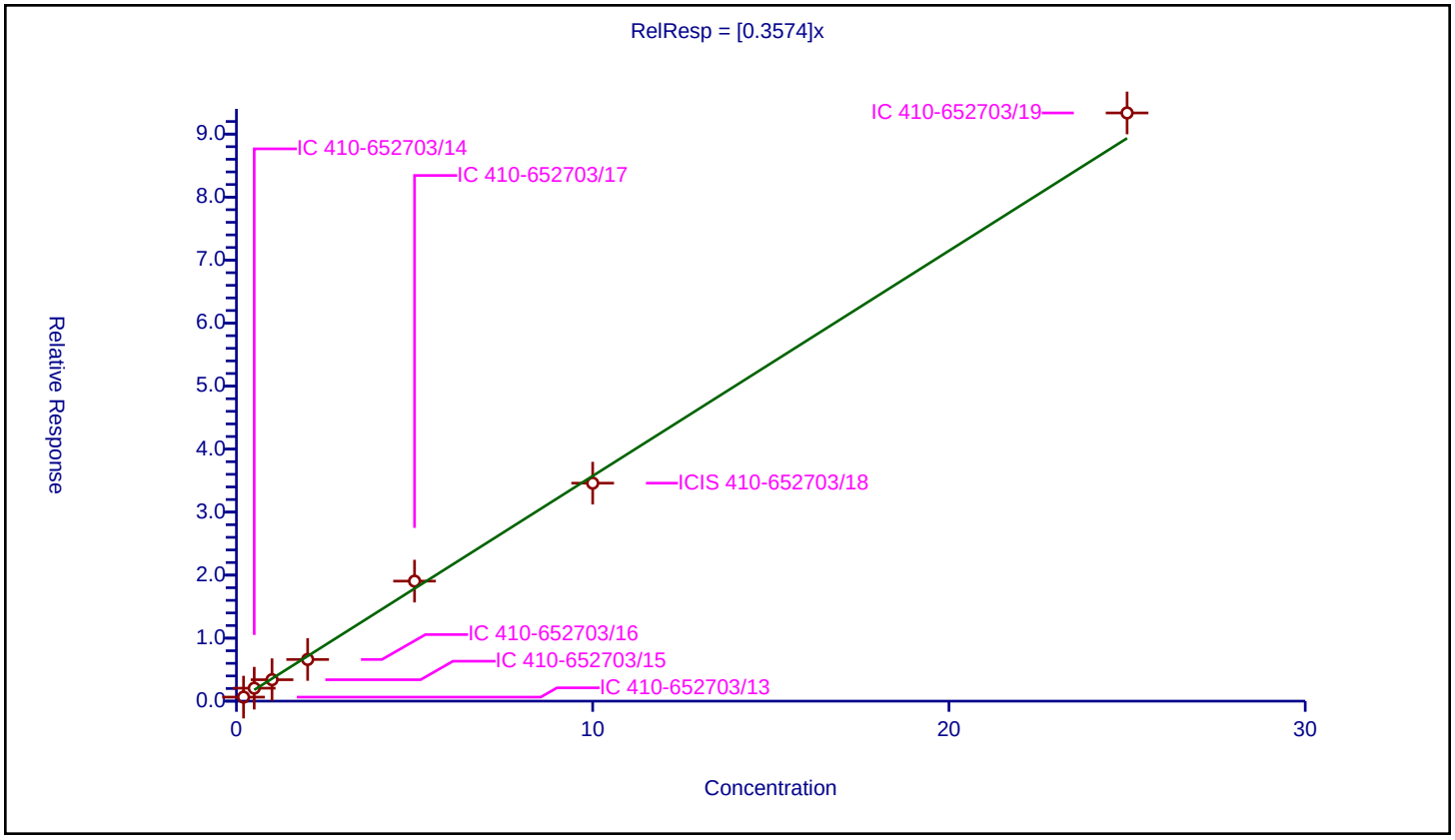
Curve Coefficients

Intercept:	0
Slope:	0.3574

Error Coefficients

Relative Standard Deviation:	9.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.063856	10.0	2284843.0	0.319278	Y
2	IC 410-652703/14	0.5	0.205563	10.0	2238774.0	0.411127	Y
3	IC 410-652703/15	1.0	0.340196	10.0	2276632.0	0.340196	Y
4	IC 410-652703/16	2.0	0.661266	10.0	2320746.0	0.330633	Y
5	IC 410-652703/17	5.0	1.905043	10.0	2313176.0	0.381009	Y
6	ICIS 410-652703/18	10.0	3.459785	10.0	2356745.0	0.345978	Y
7	IC 410-652703/19	25.0	9.335843	10.0	2383670.0	0.373434	Y



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Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

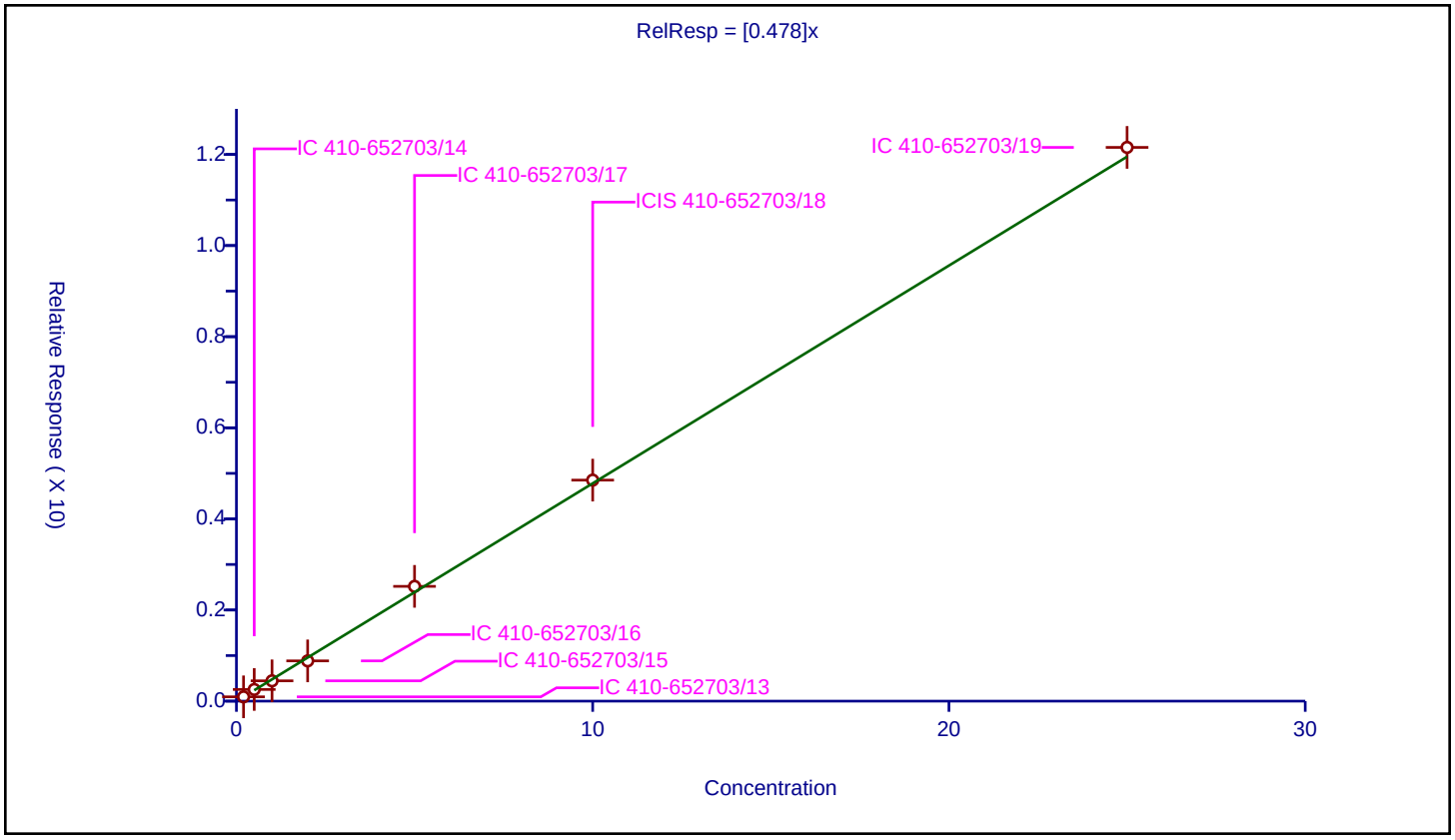
Curve Coefficients

Intercept:	0
Slope:	0.478

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.094147	10.0	2284843.0	0.470733	Y
2	IC 410-652703/14	0.5	0.256453	10.0	2238774.0	0.512906	Y
3	IC 410-652703/15	1.0	0.445496	10.0	2276632.0	0.445496	Y
4	IC 410-652703/16	2.0	0.883841	10.0	2320746.0	0.44192	Y
5	IC 410-652703/17	5.0	2.519268	10.0	2313176.0	0.503854	Y
6	ICIS 410-652703/18	10.0	4.851289	10.0	2356745.0	0.485129	Y
7	IC 410-652703/19	25.0	12.154547	10.0	2383670.0	0.486182	Y



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Calibration / Isopropyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

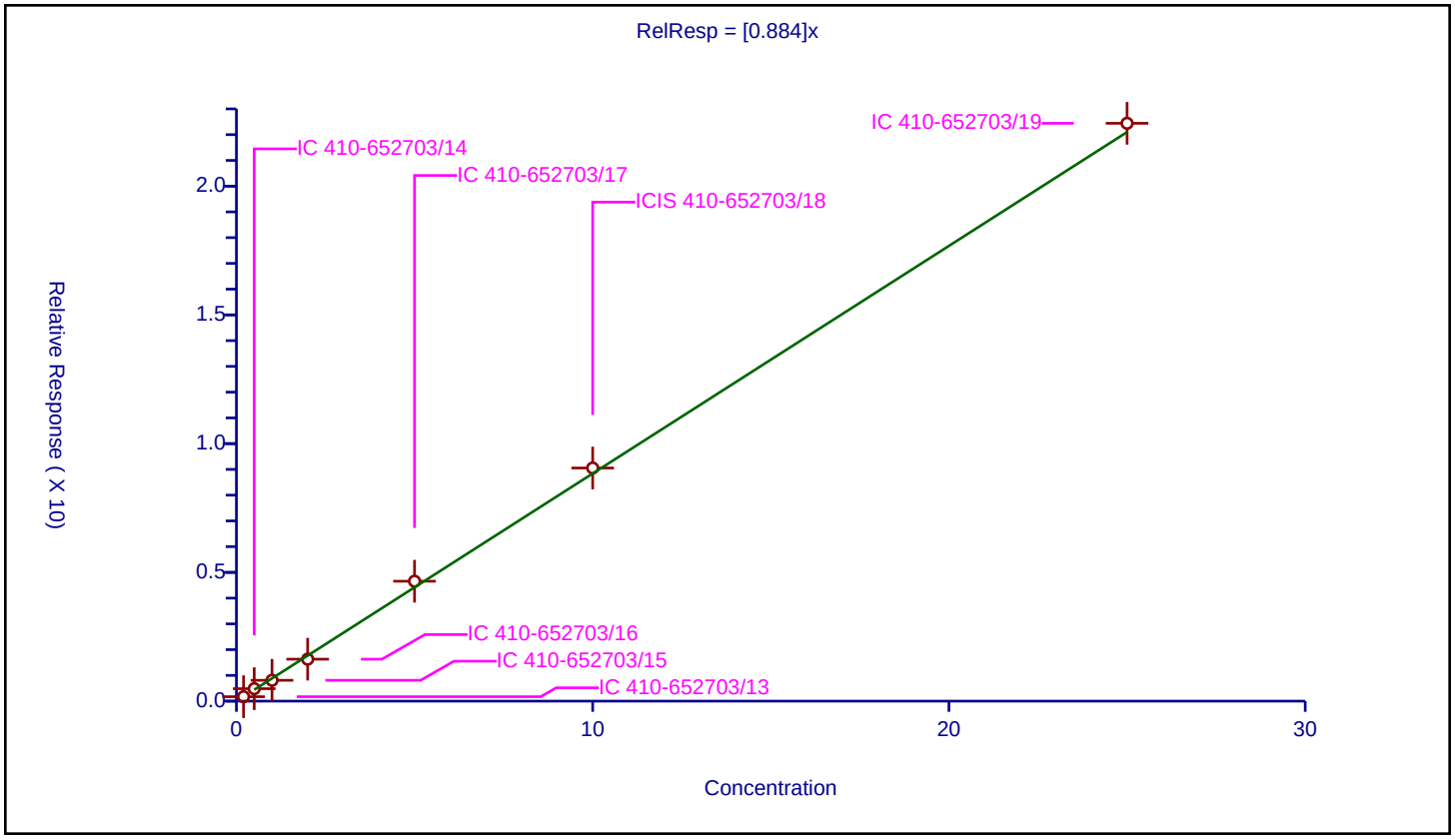
Curve Coefficients

Intercept:	0
Slope:	0.884

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.17252	10.0	2284843.0	0.862598	Y
2	IC 410-652703/14	0.5	0.483081	10.0	2238774.0	0.966163	Y
3	IC 410-652703/15	1.0	0.809727	10.0	2276632.0	0.809727	Y
4	IC 410-652703/16	2.0	1.629666	10.0	2320746.0	0.814833	Y
5	IC 410-652703/17	5.0	4.657194	10.0	2313176.0	0.931439	Y
6	ICIS 410-652703/18	10.0	9.053296	10.0	2356745.0	0.90533	Y
7	IC 410-652703/19	25.0	22.44048	10.0	2383670.0	0.897619	Y



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Calibration / 2-Chloro-1,3-butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

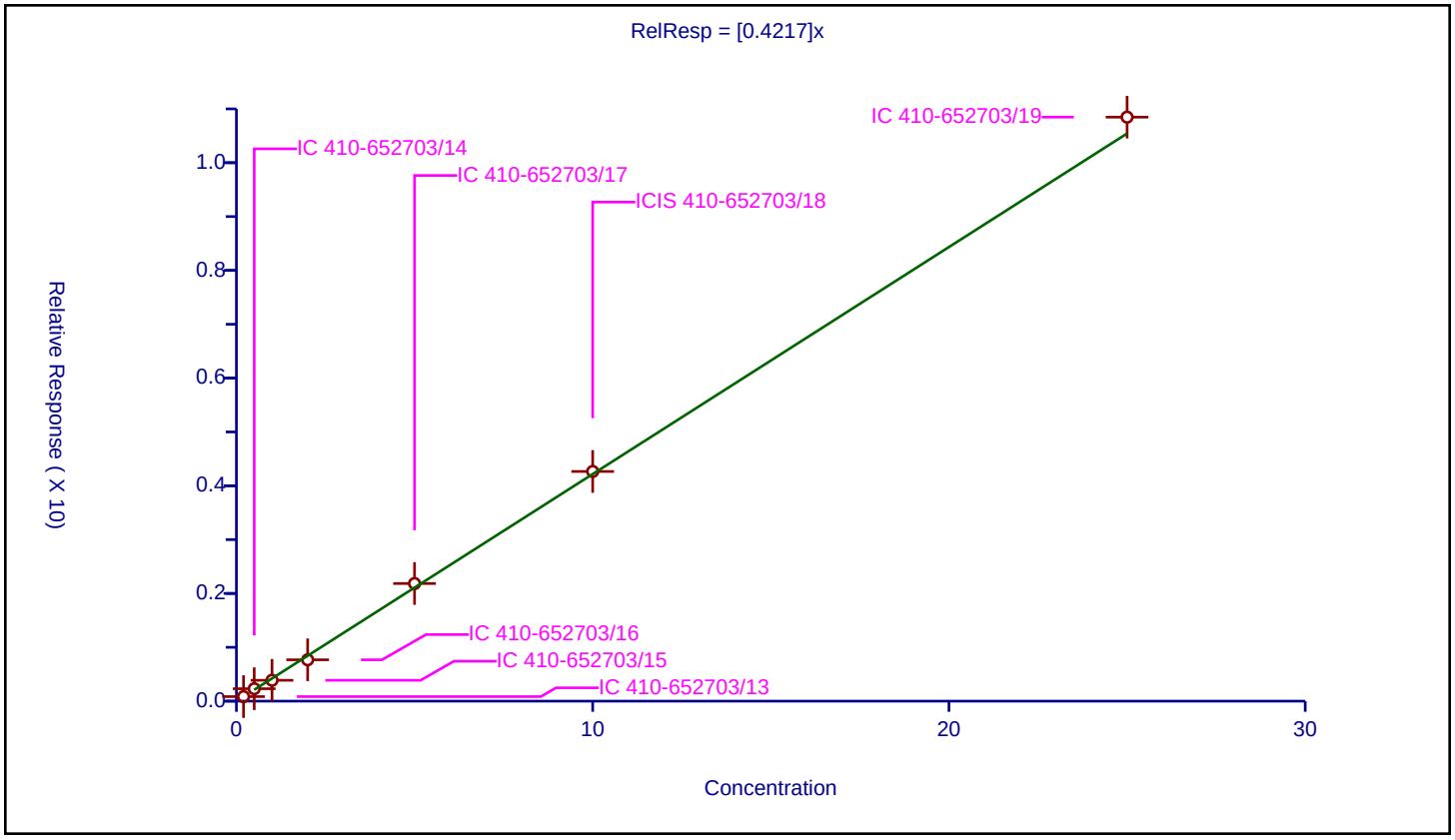
Curve Coefficients

Intercept:	0
Slope:	0.4217

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.084273	10.0	2284843.0	0.421364	Y
2	IC 410-652703/14	0.5	0.230698	10.0	2238774.0	0.461395	Y
3	IC 410-652703/15	1.0	0.387814	10.0	2276632.0	0.387814	Y
4	IC 410-652703/16	2.0	0.767891	10.0	2320746.0	0.383946	Y
5	IC 410-652703/17	5.0	2.18465	10.0	2313176.0	0.43693	Y
6	ICIS 410-652703/18	10.0	4.265786	10.0	2356745.0	0.426579	Y
7	IC 410-652703/19	25.0	10.846548	10.0	2383670.0	0.433862	Y



Calibration / Tert-butyl ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

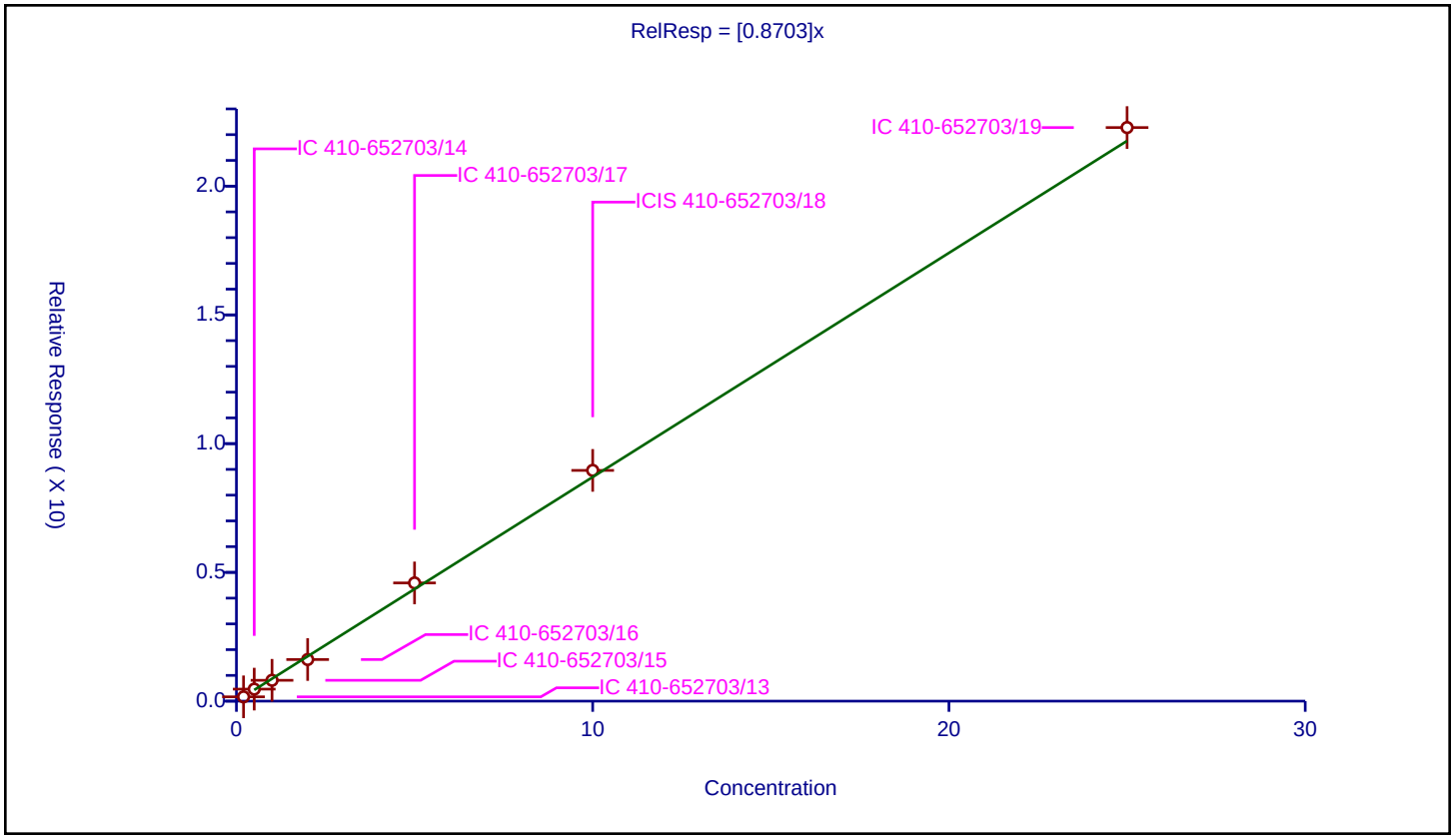
Curve Coefficients

Intercept:	0
Slope:	0.8703

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.167289	10.0	2284843.0	0.836447	Y
2	IC 410-652703/14	0.5	0.46659	10.0	2238774.0	0.93318	Y
3	IC 410-652703/15	1.0	0.809454	10.0	2276632.0	0.809454	Y
4	IC 410-652703/16	2.0	1.615713	10.0	2320746.0	0.807857	Y
5	IC 410-652703/17	5.0	4.590896	10.0	2313176.0	0.918179	Y
6	ICIS 410-652703/18	10.0	8.961283	10.0	2356745.0	0.896128	Y
7	IC 410-652703/19	25.0	22.274833	10.0	2383670.0	0.890993	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

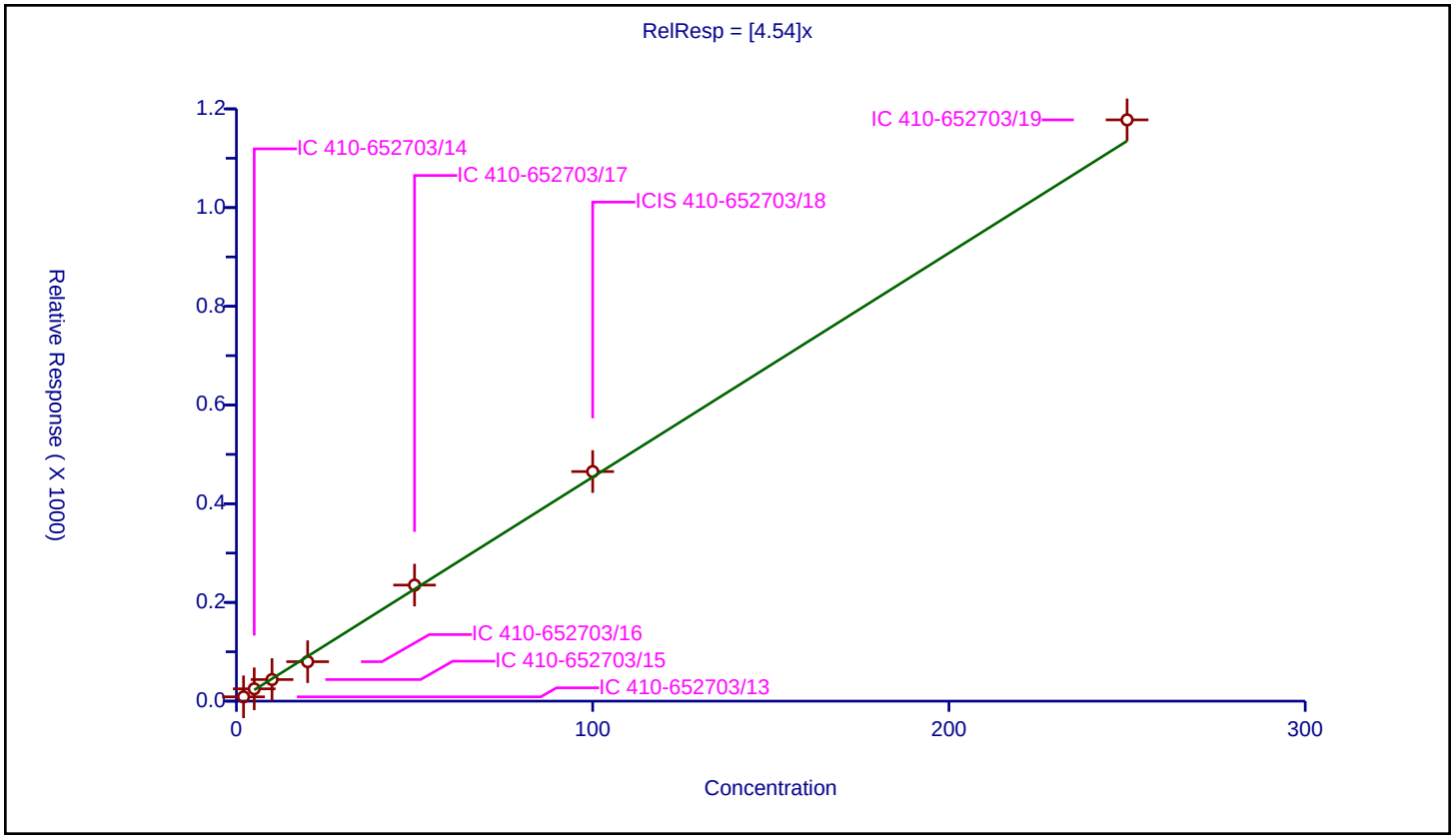
Curve Coefficients

Intercept:	0
Slope:	4.54

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	2.0	8.698057	50.0	176275.0	4.349029	Y
2	IC 410-652703/14	5.0	24.970214	50.0	174580.0	4.994043	Y
3	IC 410-652703/15	10.0	43.7297	50.0	173955.0	4.37297	Y
4	IC 410-652703/16	20.0	79.961071	50.0	202164.0	3.998054	Y
5	IC 410-652703/17	50.0	235.160015	50.0	195044.0	4.7032	Y
6	ICIS 410-652703/18	100.0	465.15558	50.0	195687.0	4.651556	Y
7	IC 410-652703/19	250.0	1177.742485	50.0	190156.0	4.71097	Y



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Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

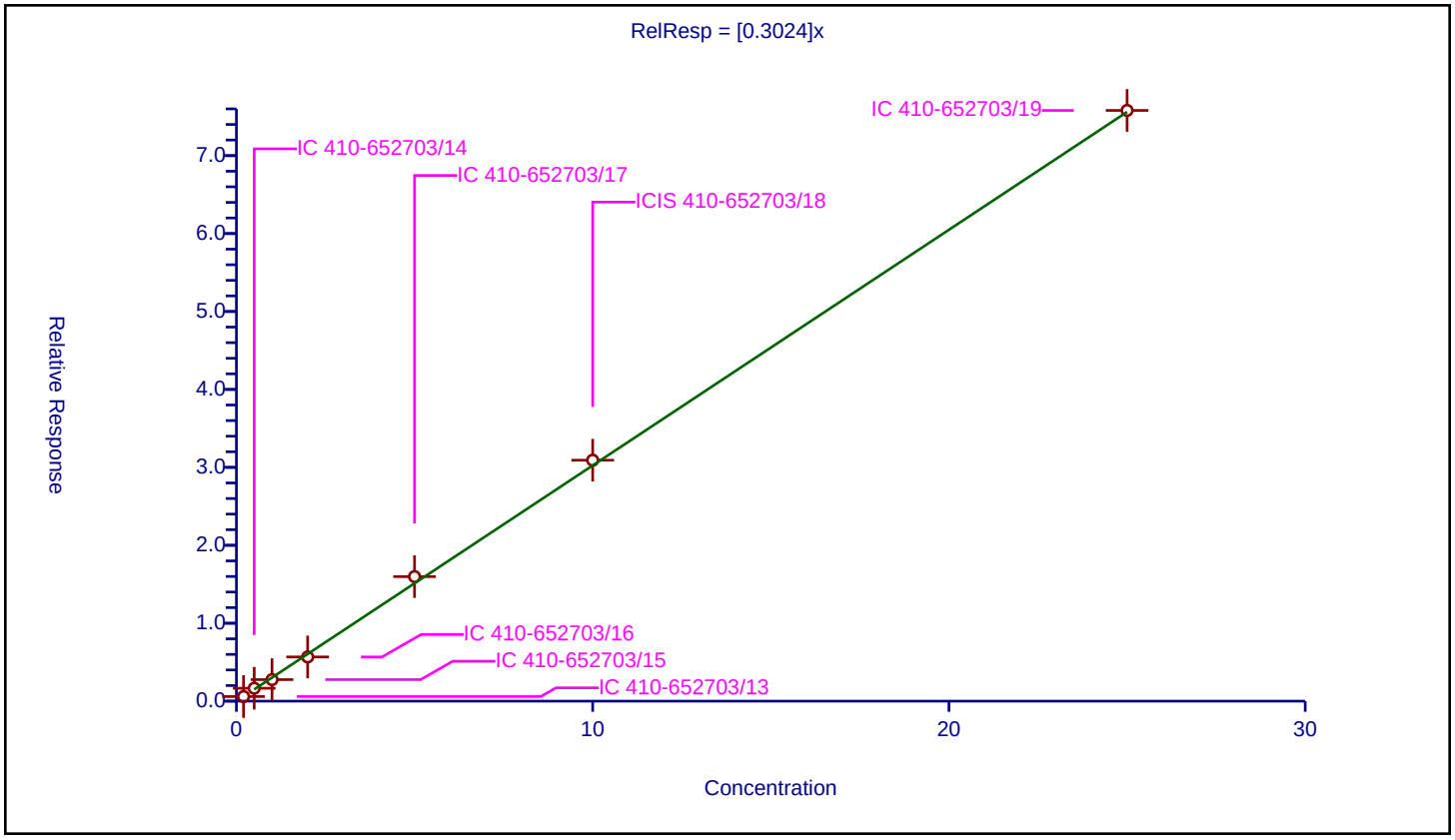
Curve Coefficients

Intercept:	0
Slope:	0.3024

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.058814	10.0	2284843.0	0.294068	Y
2	IC 410-652703/14	0.5	0.165555	10.0	2238774.0	0.33111	Y
3	IC 410-652703/15	1.0	0.276263	10.0	2276632.0	0.276263	Y
4	IC 410-652703/16	2.0	0.567162	10.0	2320746.0	0.283581	Y
5	IC 410-652703/17	5.0	1.597916	10.0	2313176.0	0.319583	Y
6	ICIS 410-652703/18	10.0	3.091989	10.0	2356745.0	0.309199	Y
7	IC 410-652703/19	25.0	7.580076	10.0	2383670.0	0.303203	Y



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Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

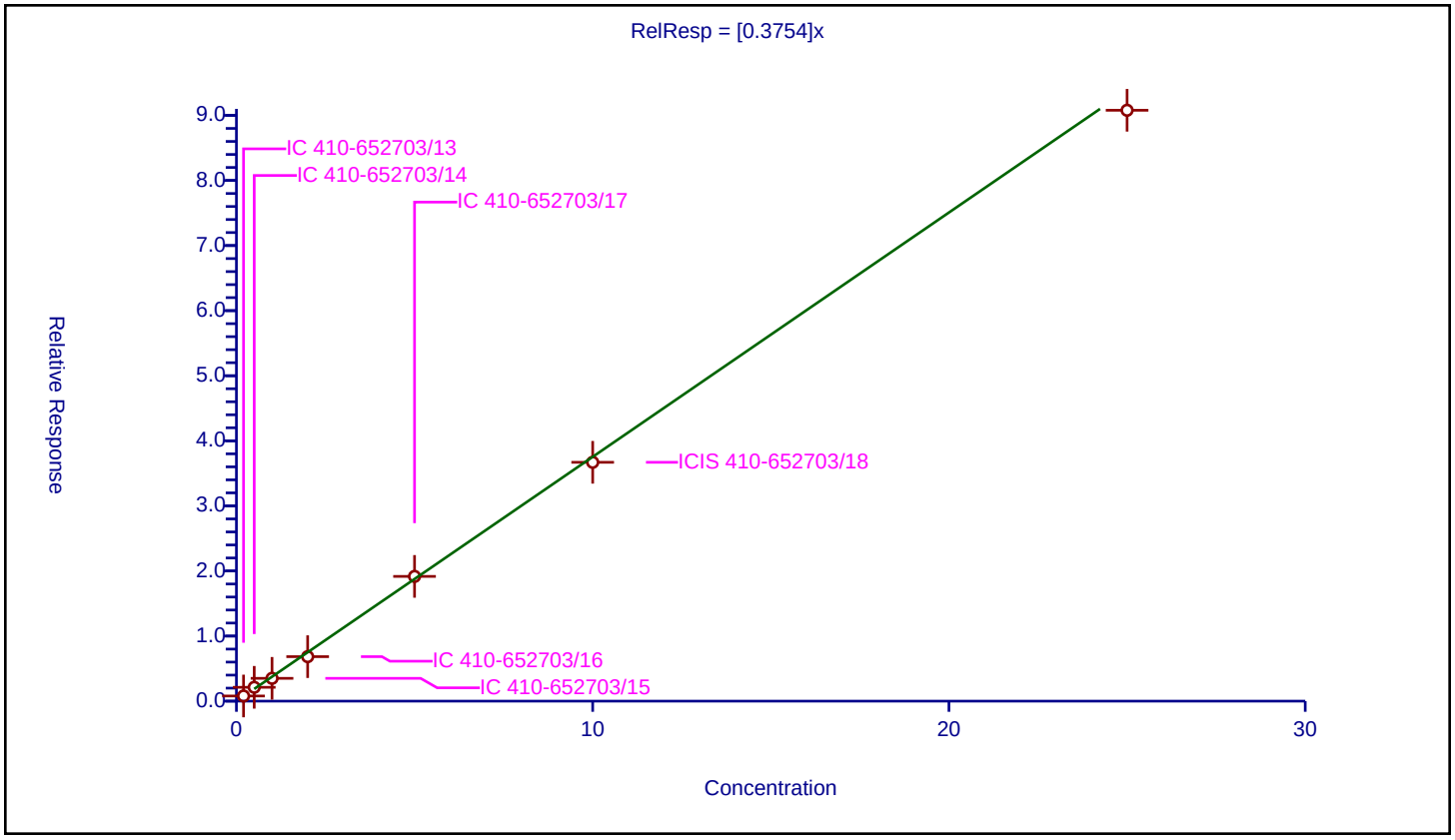
Curve Coefficients

Intercept:	0
Slope:	0.3754

Error Coefficients

Relative Standard Deviation:	7.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.079358	10.0	2284843.0	0.396789	Y
2	IC 410-652703/14	0.5	0.212599	10.0	2238774.0	0.425197	Y
3	IC 410-652703/15	1.0	0.350325	10.0	2276632.0	0.350325	Y
4	IC 410-652703/16	2.0	0.683784	10.0	2320746.0	0.341892	Y
5	IC 410-652703/17	5.0	1.916599	10.0	2313176.0	0.38332	Y
6	ICIS 410-652703/18	10.0	3.669952	10.0	2356745.0	0.366995	Y
7	IC 410-652703/19	25.0	9.078757	10.0	2383670.0	0.36315	Y



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Calibration / Propionitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

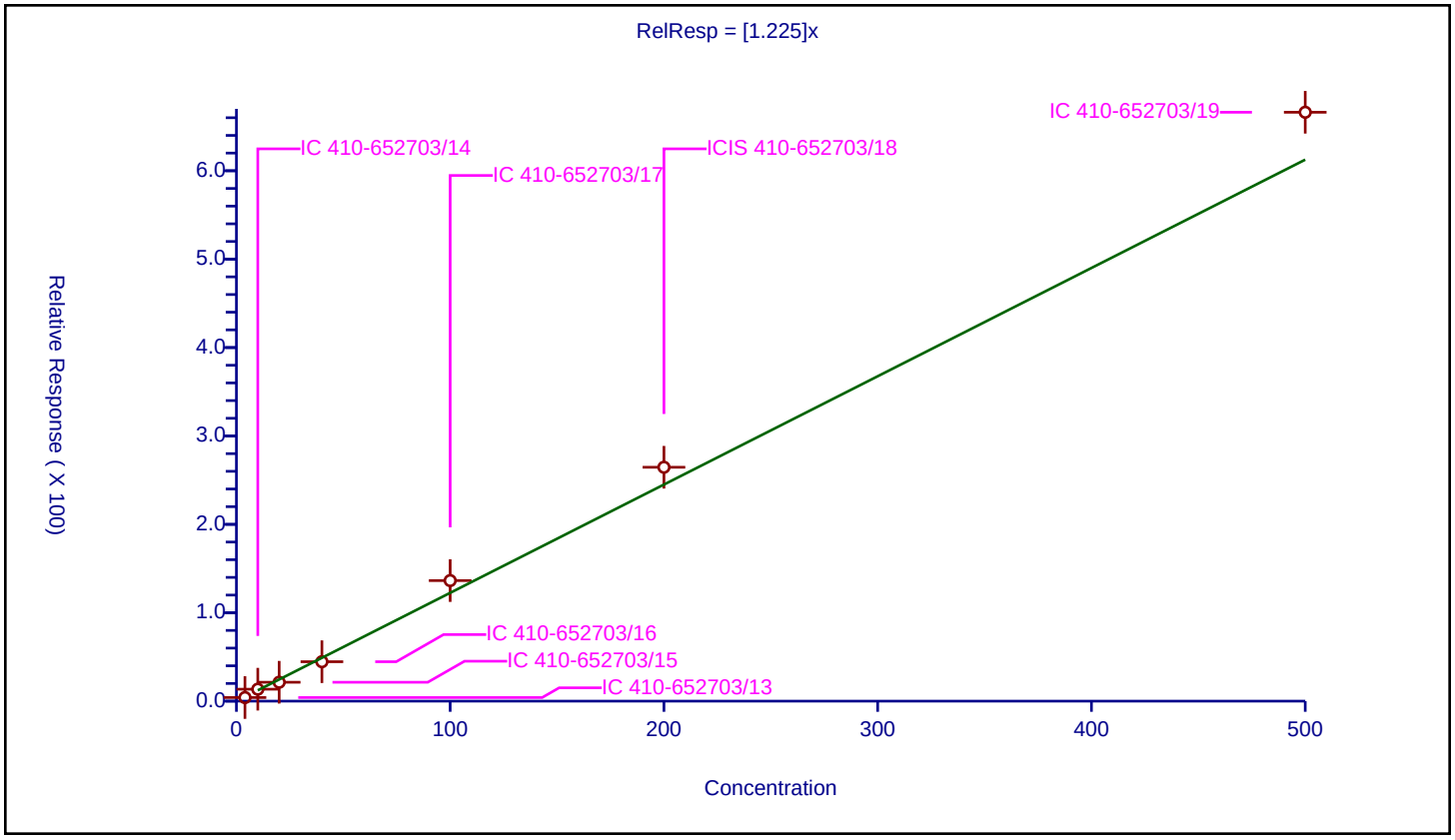
Curve Coefficients

Intercept:	0
Slope:	1.225

Error Coefficients

Relative Standard Deviation:	12.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	4.0	4.086229	50.0	176275.0	1.021557	Y
2	IC 410-652703/14	10.0	13.506988	50.0	174580.0	1.350699	Y
3	IC 410-652703/15	20.0	21.369895	50.0	173955.0	1.068495	Y
4	IC 410-652703/16	40.0	44.617489	50.0	202164.0	1.115437	Y
5	IC 410-652703/17	100.0	136.389738	50.0	195044.0	1.363897	Y
6	ICIS 410-652703/18	200.0	264.597035	50.0	195687.0	1.322985	Y
7	IC 410-652703/19	500.0	666.186184	50.0	190156.0	1.332372	Y



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Calibration / Methacrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

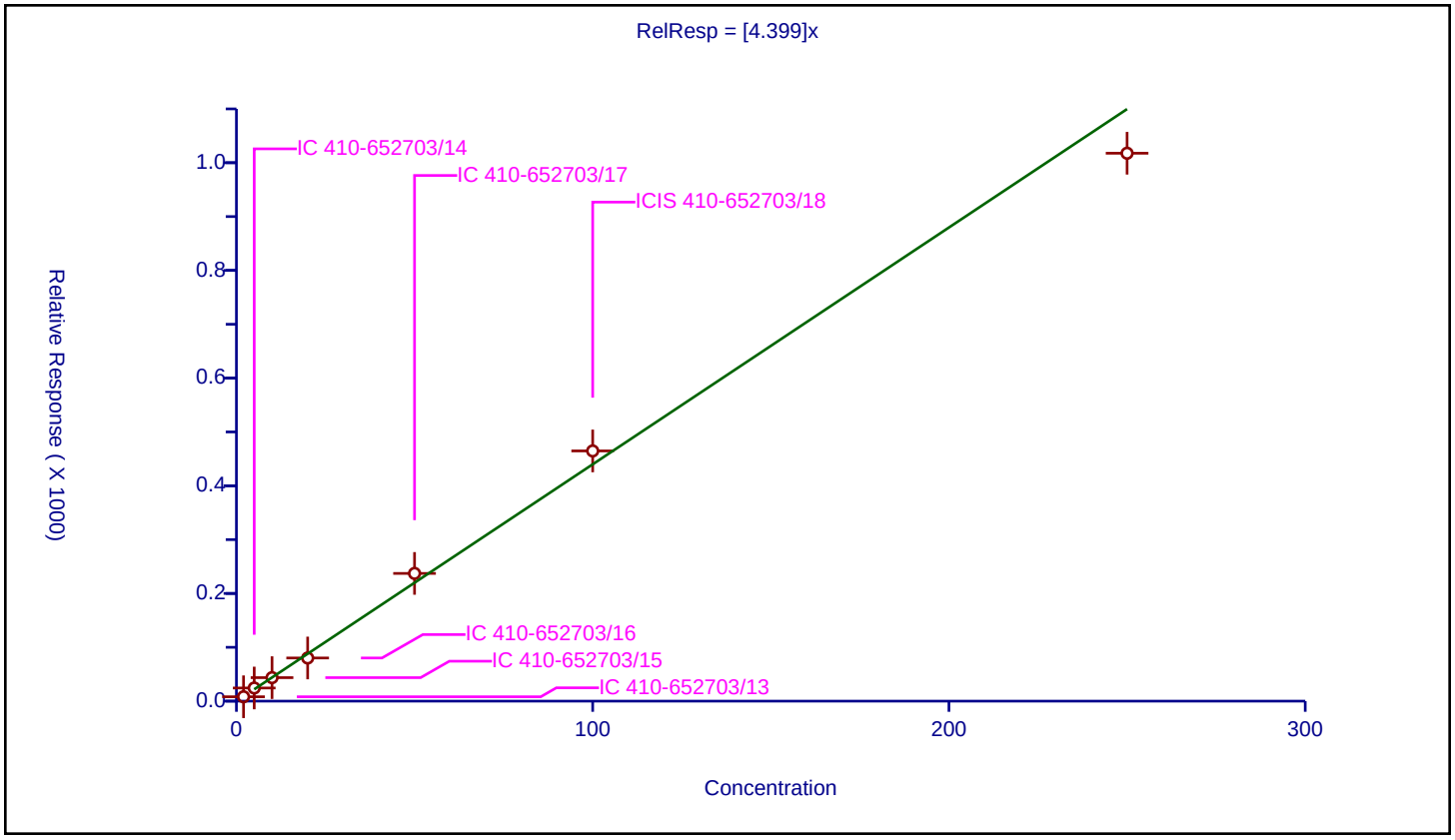
Curve Coefficients

Intercept:	0
Slope:	4.399

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	2.0	8.147213	50.0	176275.0	4.073607	Y
2	IC 410-652703/14	5.0	24.39512	50.0	174580.0	4.879024	Y
3	IC 410-652703/15	10.0	43.678825	50.0	173955.0	4.367882	Y
4	IC 410-652703/16	20.0	80.143349	50.0	202164.0	4.007167	Y
5	IC 410-652703/17	50.0	237.2175	50.0	195044.0	4.74435	Y
6	ICIS 410-652703/18	100.0	464.712526	50.0	195687.0	4.647125	Y
7	IC 410-652703/19	250.0	1017.639464	50.0	190156.0	4.070558	Y



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Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

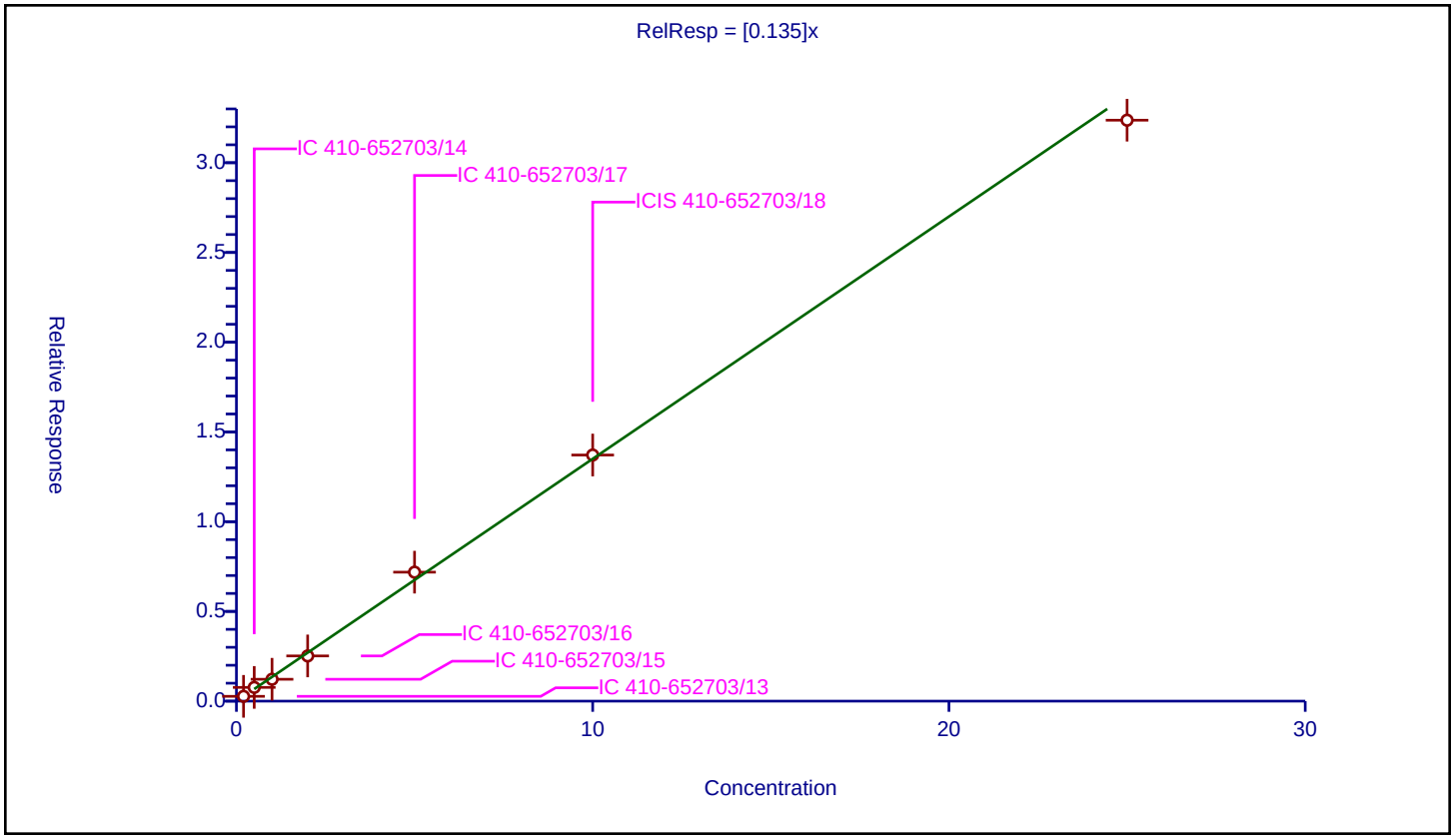
Curve Coefficients

Intercept:	0
Slope:	0.135

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.026768	10.0	2284843.0	0.133839	Y
2	IC 410-652703/14	0.5	0.076533	10.0	2238774.0	0.153066	Y
3	IC 410-652703/15	1.0	0.121842	10.0	2276632.0	0.121842	Y
4	IC 410-652703/16	2.0	0.251885	10.0	2320746.0	0.125942	Y
5	IC 410-652703/17	5.0	0.718618	10.0	2313176.0	0.143724	Y
6	ICIS 410-652703/18	10.0	1.371324	10.0	2356745.0	0.137132	Y
7	IC 410-652703/19	25.0	3.237092	10.0	2383670.0	0.129484	Y



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Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

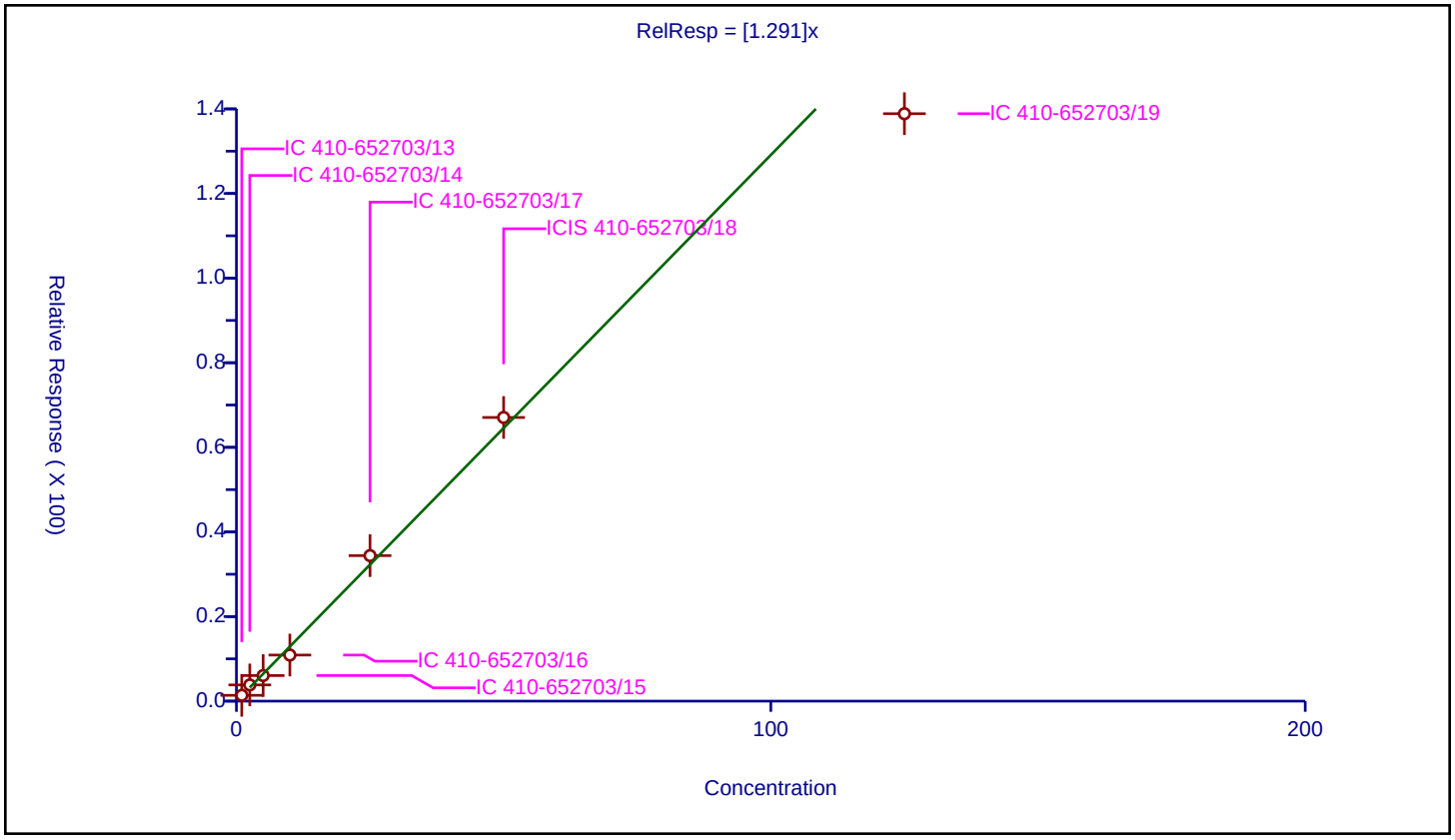
Curve Coefficients

Intercept:	0
Slope:	1.291

Error Coefficients

Relative Standard Deviation:	12.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	1.0	1.378528	50.0	176275.0	1.378528	Y
2	IC 410-652703/14	2.5	3.830049	50.0	174580.0	1.53202	Y
3	IC 410-652703/15	5.0	6.045242	50.0	173955.0	1.209048	Y
4	IC 410-652703/16	10.0	10.896599	50.0	202164.0	1.08966	Y
5	IC 410-652703/17	25.0	34.398649	50.0	195044.0	1.375946	Y
6	ICIS 410-652703/18	50.0	67.055809	50.0	195687.0	1.341116	Y
7	IC 410-652703/19	125.0	138.865195	50.0	190156.0	1.110922	Y



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Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

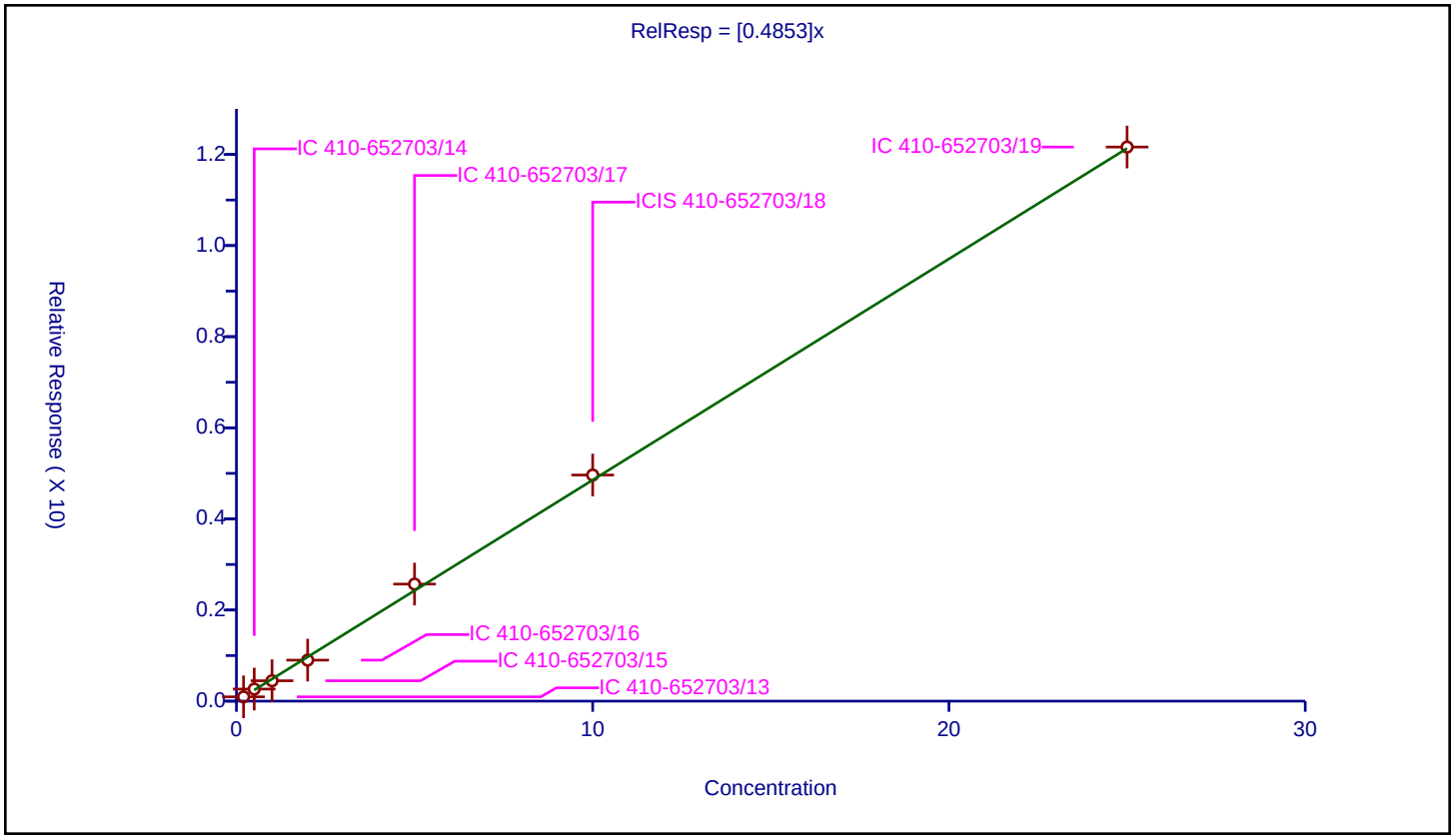
Curve Coefficients

Intercept:	0
Slope:	0.4853

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.094602	10.0	2284843.0	0.473008	Y
2	IC 410-652703/14	0.5	0.264944	10.0	2238774.0	0.529888	Y
3	IC 410-652703/15	1.0	0.447784	10.0	2276632.0	0.447784	Y
4	IC 410-652703/16	2.0	0.900219	10.0	2320746.0	0.45011	Y
5	IC 410-652703/17	5.0	2.569121	10.0	2313176.0	0.513824	Y
6	ICIS 410-652703/18	10.0	4.962985	10.0	2356745.0	0.496298	Y
7	IC 410-652703/19	25.0	12.162669	10.0	2383670.0	0.486507	Y



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Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

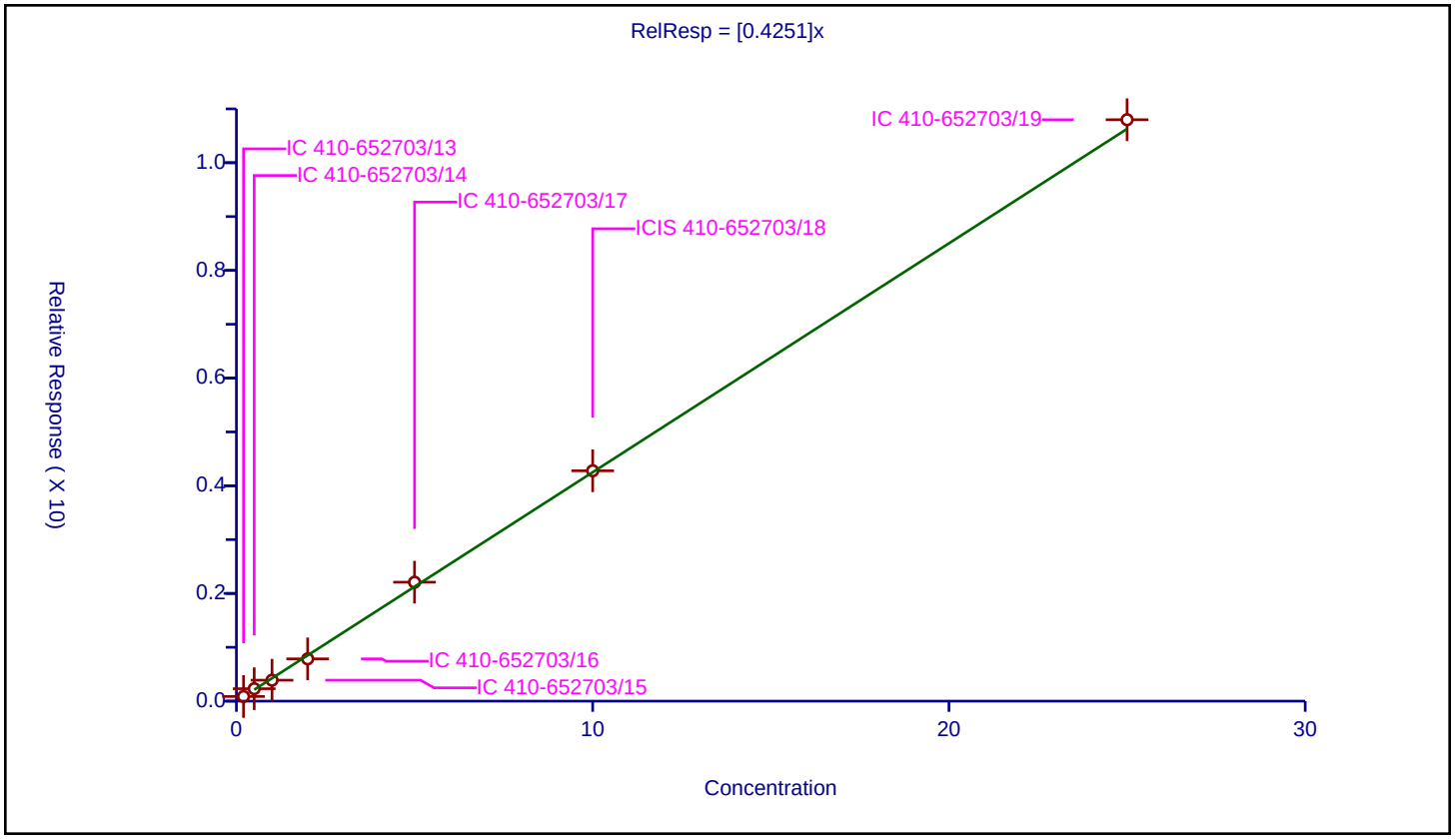
Curve Coefficients

Intercept:	0
Slope:	0.4251

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.086321	10.0	2284843.0	0.431605	Y
2	IC 410-652703/14	0.5	0.230541	10.0	2238774.0	0.461083	Y
3	IC 410-652703/15	1.0	0.389022	10.0	2276632.0	0.389022	Y
4	IC 410-652703/16	2.0	0.785153	10.0	2320746.0	0.392576	Y
5	IC 410-652703/17	5.0	2.209235	10.0	2313176.0	0.441847	Y
6	ICIS 410-652703/18	10.0	4.278872	10.0	2356745.0	0.427887	Y
7	IC 410-652703/19	25.0	10.798827	10.0	2383670.0	0.431953	Y



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Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

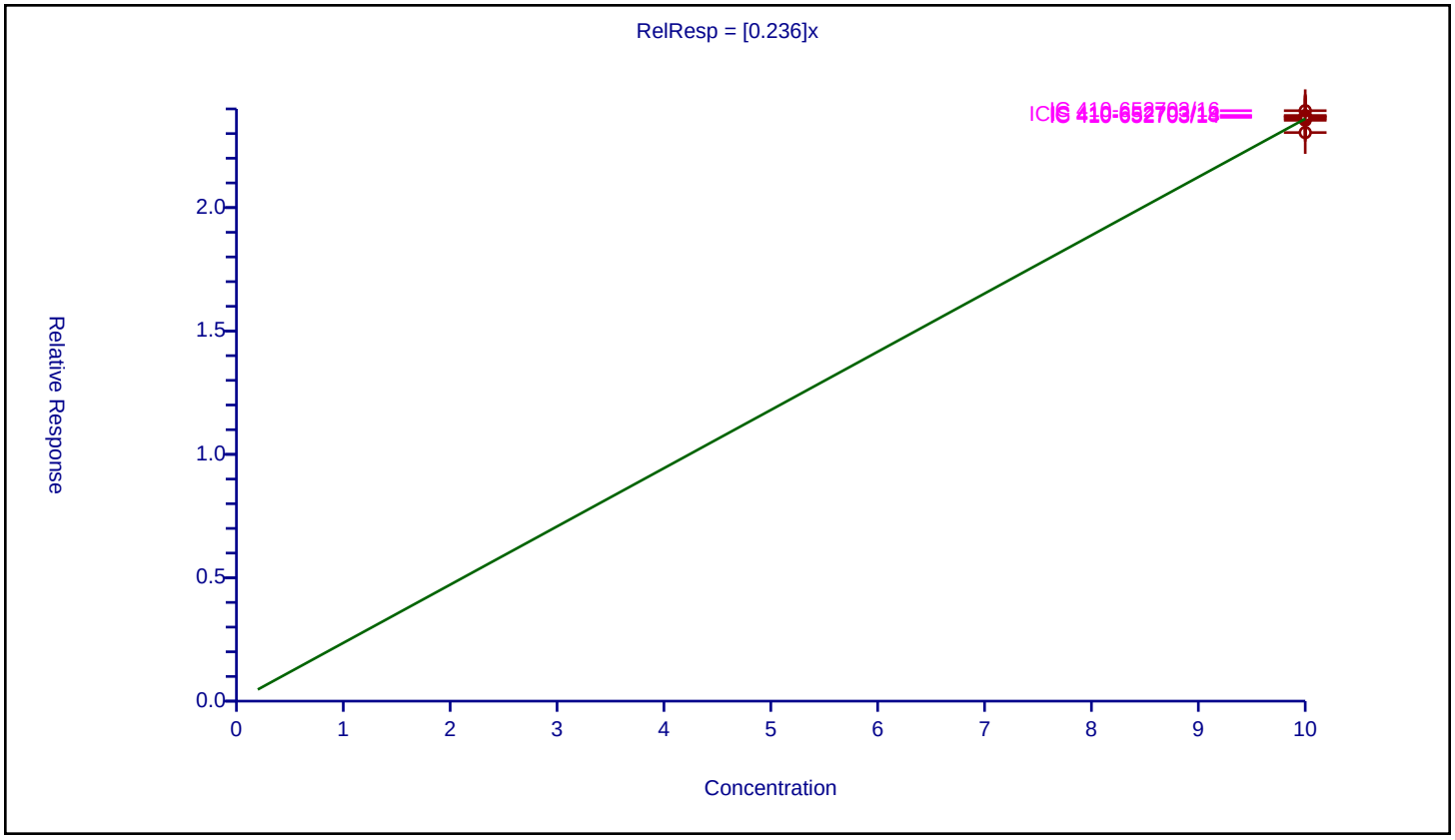
Curve Coefficients

Intercept:	0
Slope:	0.236

Error Coefficients

Relative Standard Deviation:	1.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	10.0	2.369209	10.0	2284843.0	0.236921	Y
2	IC 410-652703/14	10.0	2.365822	10.0	2238774.0	0.236582	Y
3	IC 410-652703/15	10.0	2.353788	10.0	2276632.0	0.235379	Y
4	IC 410-652703/16	10.0	2.392808	10.0	2320746.0	0.239281	Y
5	IC 410-652703/17	10.0	2.359475	10.0	2313176.0	0.235947	Y
6	ICIS 410-652703/18	10.0	2.373235	10.0	2356745.0	0.237324	Y
7	IC 410-652703/19	10.0	2.304044	10.0	2383670.0	0.230404	Y



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Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

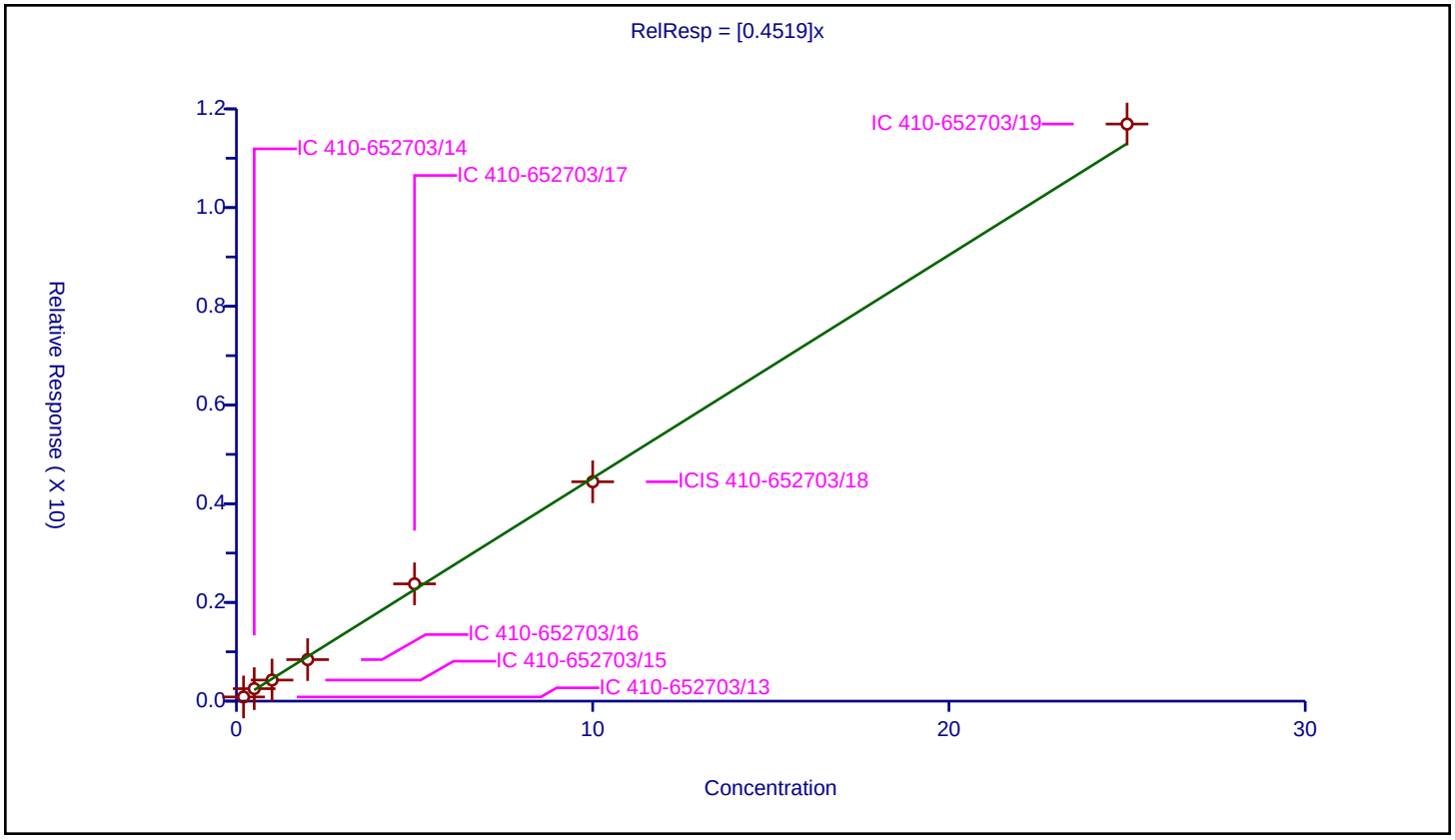
Curve Coefficients

Intercept:	0
Slope:	0.4519

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.084496	10.0	2284843.0	0.42248	Y
2	IC 410-652703/14	0.5	0.25267	10.0	2238774.0	0.505339	Y
3	IC 410-652703/15	1.0	0.427368	10.0	2276632.0	0.427368	Y
4	IC 410-652703/16	2.0	0.84138	10.0	2320746.0	0.42069	Y
5	IC 410-652703/17	5.0	2.376222	10.0	2313176.0	0.475244	Y
6	ICIS 410-652703/18	10.0	4.444728	10.0	2356745.0	0.444473	Y
7	IC 410-652703/19	25.0	11.693582	10.0	2383670.0	0.467743	Y



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Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

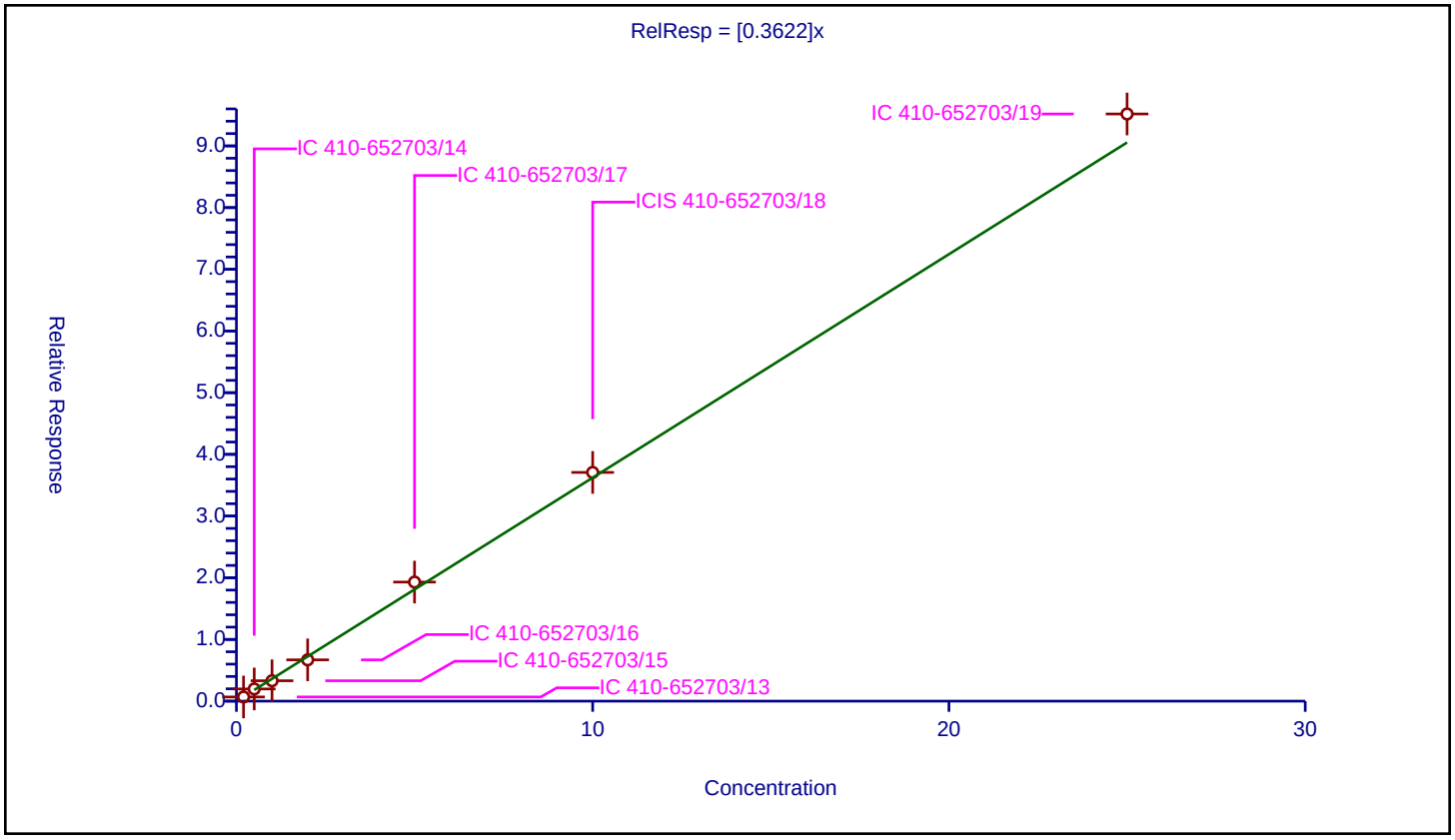
Curve Coefficients

Intercept:	0
Slope:	0.3622

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.06758	10.0	2284843.0	0.337901	Y
2	IC 410-652703/14	0.5	0.19759	10.0	2238774.0	0.395181	Y
3	IC 410-652703/15	1.0	0.330291	10.0	2276632.0	0.330291	Y
4	IC 410-652703/16	2.0	0.66922	10.0	2320746.0	0.33461	Y
5	IC 410-652703/17	5.0	1.930147	10.0	2313176.0	0.386029	Y
6	ICIS 410-652703/18	10.0	3.707363	10.0	2356745.0	0.370736	Y
7	IC 410-652703/19	25.0	9.517567	10.0	2383670.0	0.380703	Y



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Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

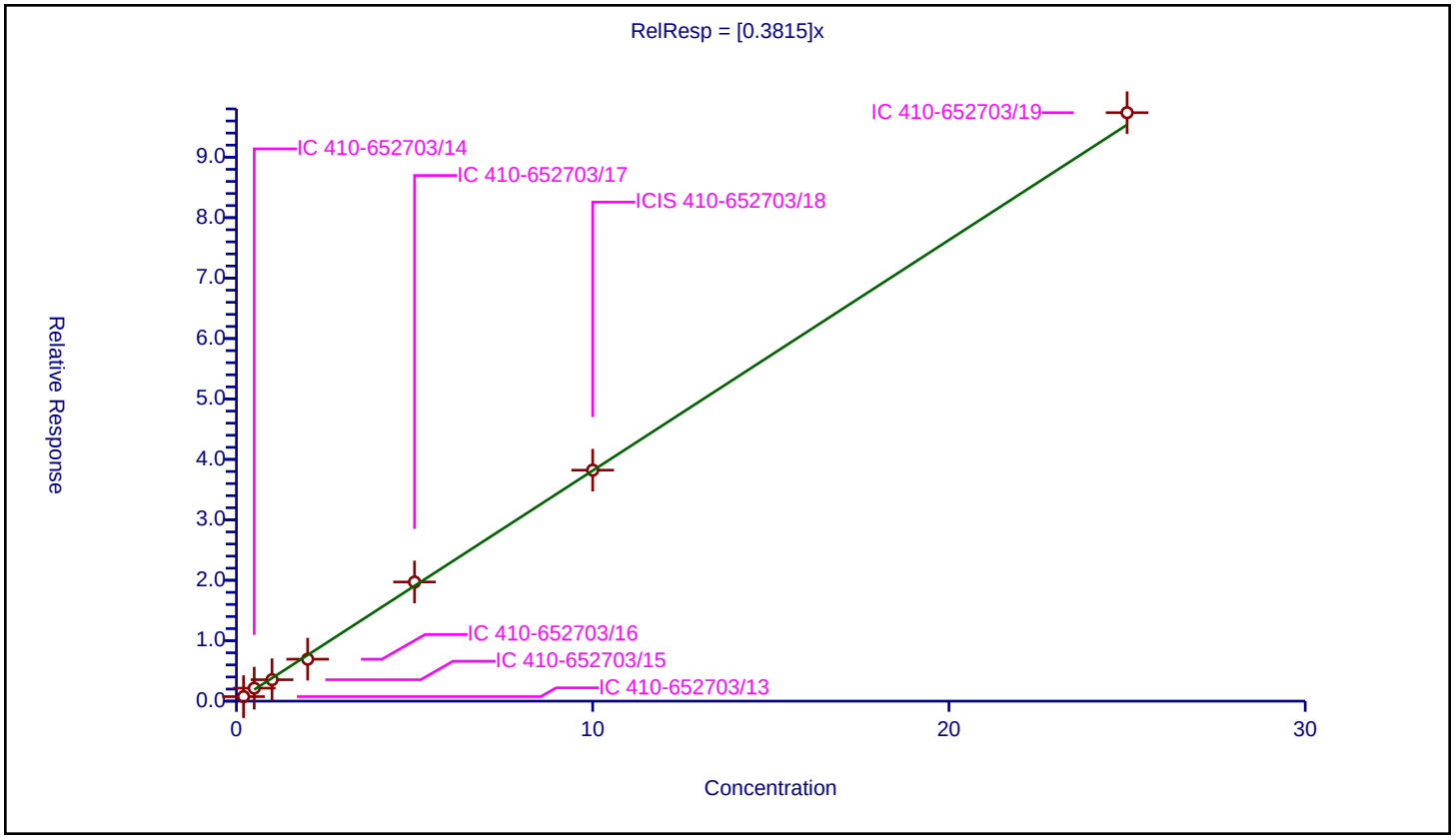
Curve Coefficients

Intercept:	0
Slope:	0.3815

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.074648	10.0	2284843.0	0.373242	Y
2	IC 410-652703/14	0.5	0.214787	10.0	2238774.0	0.429574	Y
3	IC 410-652703/15	1.0	0.354484	10.0	2276632.0	0.354484	Y
4	IC 410-652703/16	2.0	0.694169	10.0	2320746.0	0.347085	Y
5	IC 410-652703/17	5.0	1.971748	10.0	2313176.0	0.39435	Y
6	ICIS 410-652703/18	10.0	3.822149	10.0	2356745.0	0.382215	Y
7	IC 410-652703/19	25.0	9.737229	10.0	2383670.0	0.389489	Y



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Calibration / Isobutyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

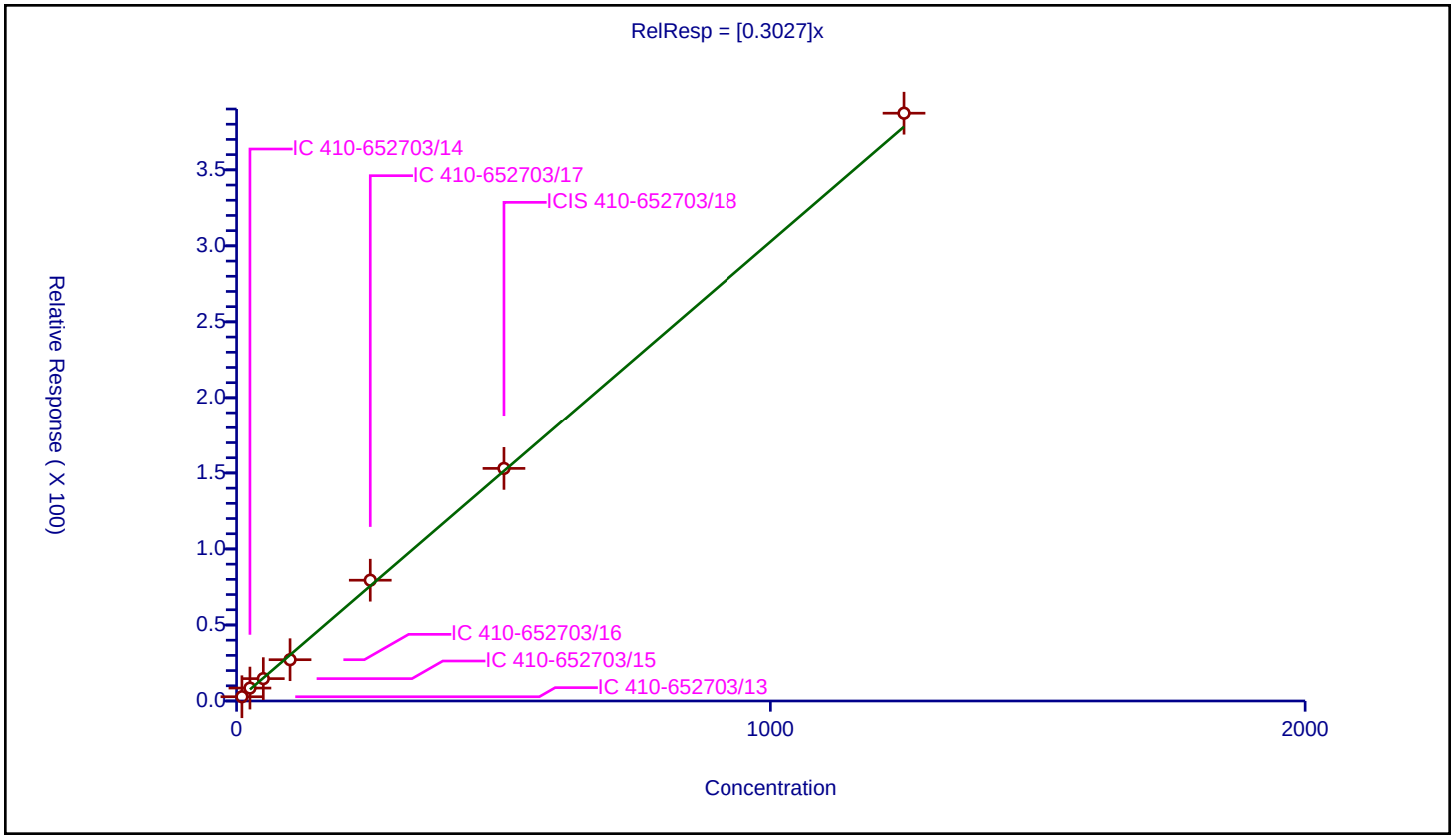
Curve Coefficients

Intercept:	0
Slope:	0.3027

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	10.0	2.801021	50.0	176275.0	0.280102	Y
2	IC 410-652703/14	25.0	8.491809	50.0	174580.0	0.339672	Y
3	IC 410-652703/15	50.0	14.705815	50.0	173955.0	0.294116	Y
4	IC 410-652703/16	100.0	27.154192	50.0	202164.0	0.271542	Y
5	IC 410-652703/17	250.0	79.441562	50.0	195044.0	0.317766	Y
6	ICIS 410-652703/18	500.0	152.987679	50.0	195687.0	0.305975	Y
7	IC 410-652703/19	1250.0	387.244683	50.0	190156.0	0.309796	Y



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Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

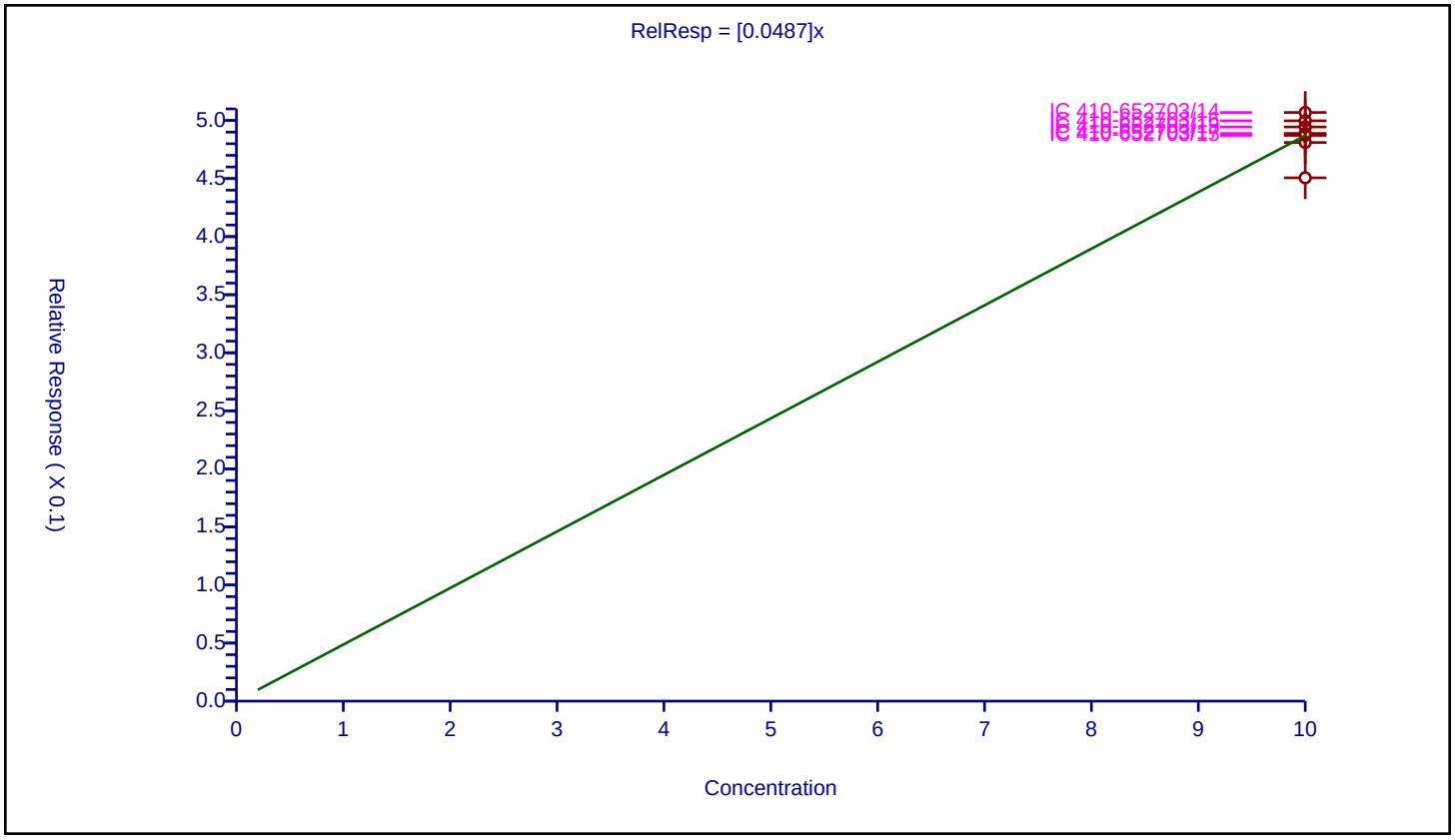
Curve Coefficients

Intercept:	0
Slope:	0.0487

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	10.0	0.49445	10.0	2284843.0	0.049445	Y
2	IC 410-652703/14	10.0	0.506902	10.0	2238774.0	0.05069	Y
3	IC 410-652703/15	10.0	0.48718	10.0	2276632.0	0.048718	Y
4	IC 410-652703/16	10.0	0.499744	10.0	2320746.0	0.049974	Y
5	IC 410-652703/17	10.0	0.488856	10.0	2313176.0	0.048886	Y
6	ICIS 410-652703/18	10.0	0.481066	10.0	2356745.0	0.048107	Y
7	IC 410-652703/19	10.0	0.450633	10.0	2383670.0	0.045063	Y



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Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

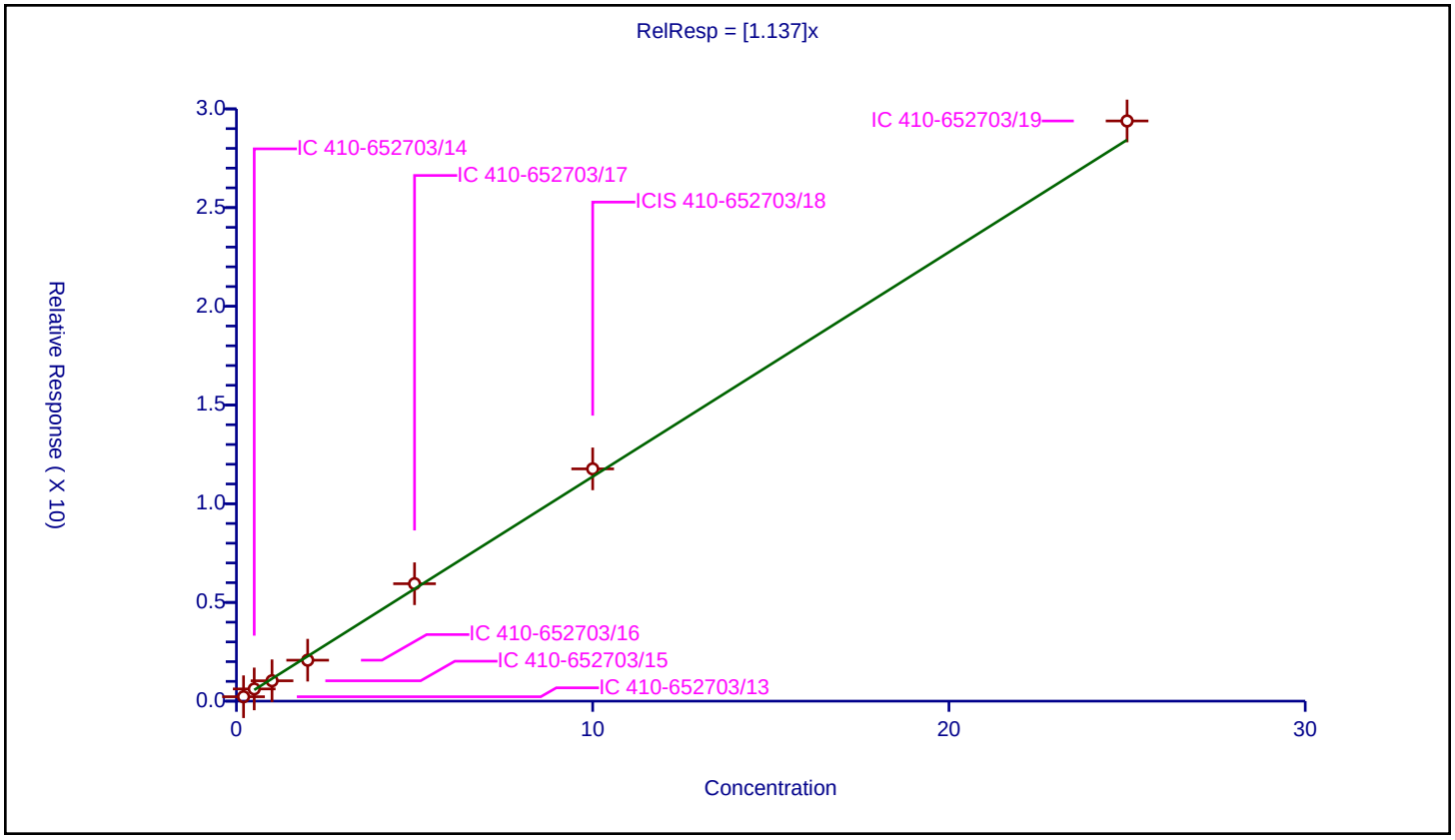
Curve Coefficients

Intercept:	0
Slope:	1.137

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.222641	10.0	2284843.0	1.113206	Y
2	IC 410-652703/14	0.5	0.618584	10.0	2238774.0	1.237168	Y
3	IC 410-652703/15	1.0	1.031374	10.0	2276632.0	1.031374	Y
4	IC 410-652703/16	2.0	2.074734	10.0	2320746.0	1.037367	Y
5	IC 410-652703/17	5.0	5.948198	10.0	2313176.0	1.18964	Y
6	ICIS 410-652703/18	10.0	11.764595	10.0	2356745.0	1.176459	Y
7	IC 410-652703/19	25.0	29.388909	10.0	2383670.0	1.175556	Y



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Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

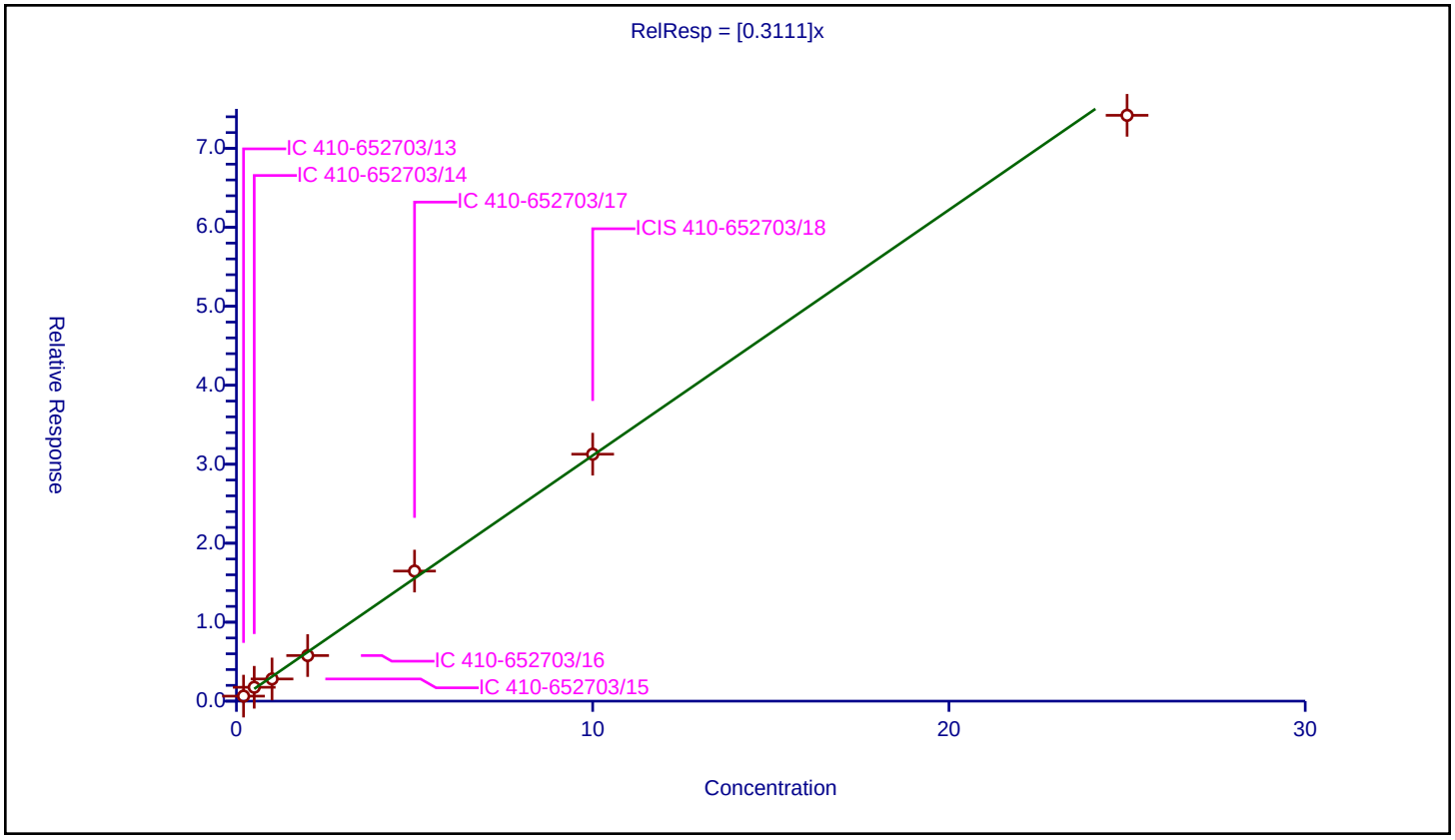
Curve Coefficients

Intercept:	0
Slope:	0.3111

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.063628	10.0	2284843.0	0.31814	Y
2	IC 410-652703/14	0.5	0.175449	10.0	2238774.0	0.350897	Y
3	IC 410-652703/15	1.0	0.28088	10.0	2276632.0	0.28088	Y
4	IC 410-652703/16	2.0	0.577133	10.0	2320746.0	0.288567	Y
5	IC 410-652703/17	5.0	1.646961	10.0	2313176.0	0.329392	Y
6	ICIS 410-652703/18	10.0	3.127407	10.0	2356745.0	0.312741	Y
7	IC 410-652703/19	25.0	7.418653	10.0	2383670.0	0.296746	Y



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Calibration / Tert-amyl methyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

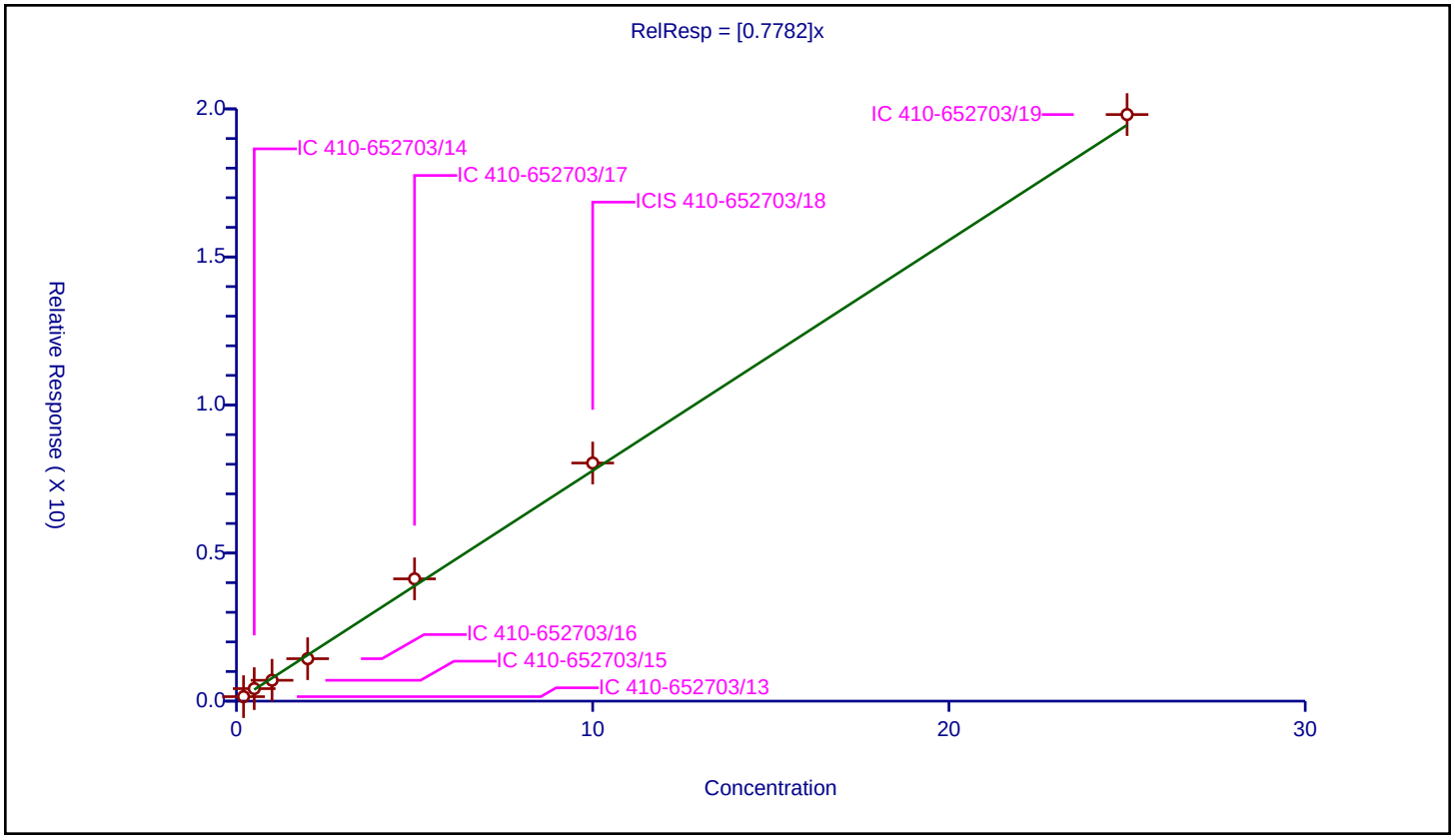
Curve Coefficients

Intercept:	0
Slope:	0.7782

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.151809	10.0	2284843.0	0.759046	Y
2	IC 410-652703/14	0.5	0.42258	10.0	2238774.0	0.845159	Y
3	IC 410-652703/15	1.0	0.704326	10.0	2276632.0	0.704326	Y
4	IC 410-652703/16	2.0	1.433246	10.0	2320746.0	0.716623	Y
5	IC 410-652703/17	5.0	4.129539	10.0	2313176.0	0.825908	Y
6	ICIS 410-652703/18	10.0	8.040993	10.0	2356745.0	0.804099	Y
7	IC 410-652703/19	25.0	19.809458	10.0	2383670.0	0.792378	Y



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Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

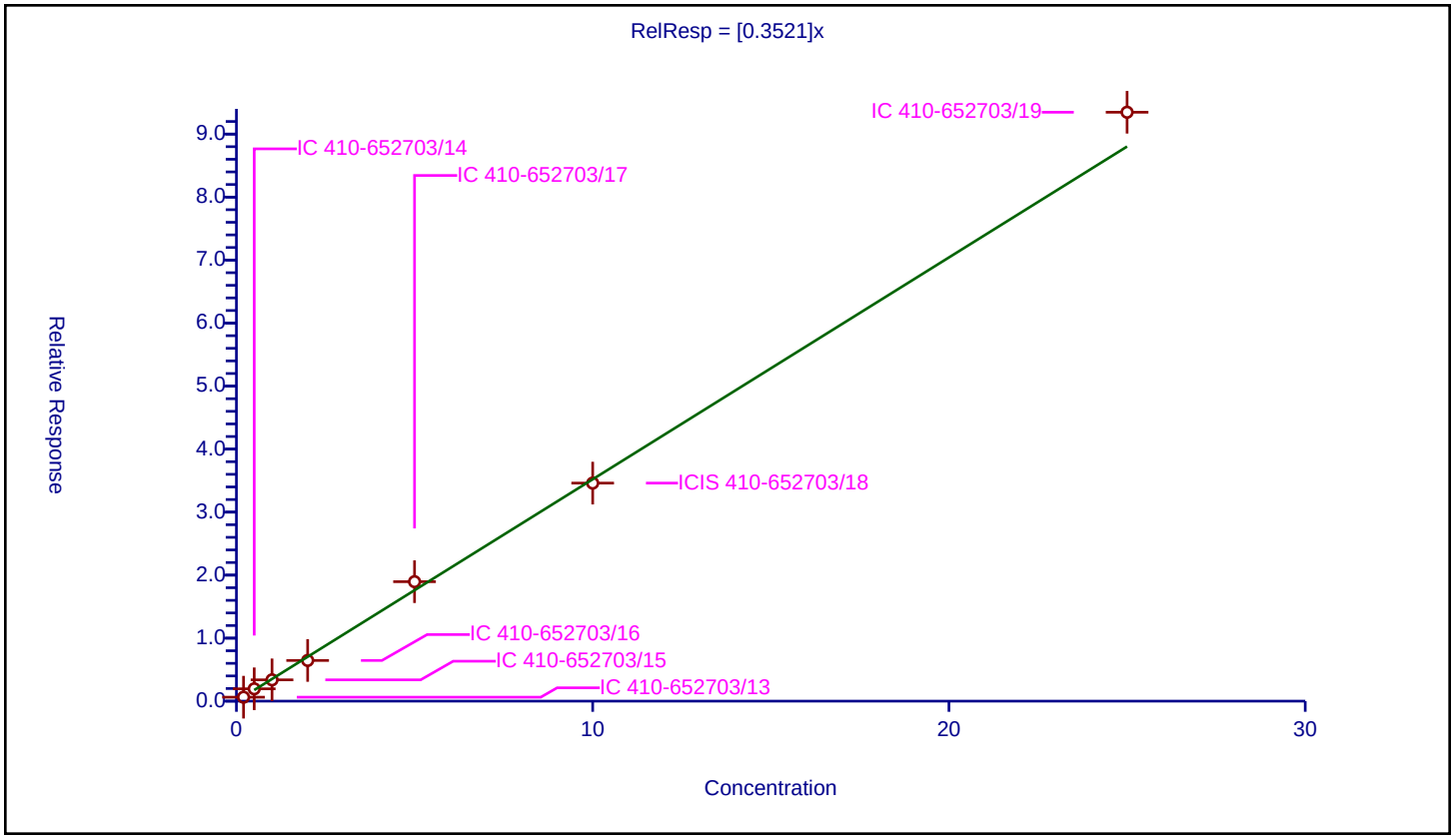
Curve Coefficients

Intercept:	0
Slope:	0.3521

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.062621	10.0	2284843.0	0.313107	Y
2	IC 410-652703/14	0.5	0.19575	10.0	2238774.0	0.3915	Y
3	IC 410-652703/15	1.0	0.338048	10.0	2276632.0	0.338048	Y
4	IC 410-652703/16	2.0	0.645887	10.0	2320746.0	0.322944	Y
5	IC 410-652703/17	5.0	1.896055	10.0	2313176.0	0.379211	Y
6	ICIS 410-652703/18	10.0	3.460553	10.0	2356745.0	0.346055	Y
7	IC 410-652703/19	25.0	9.346776	10.0	2383670.0	0.373871	Y



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Calibration / n-Butanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

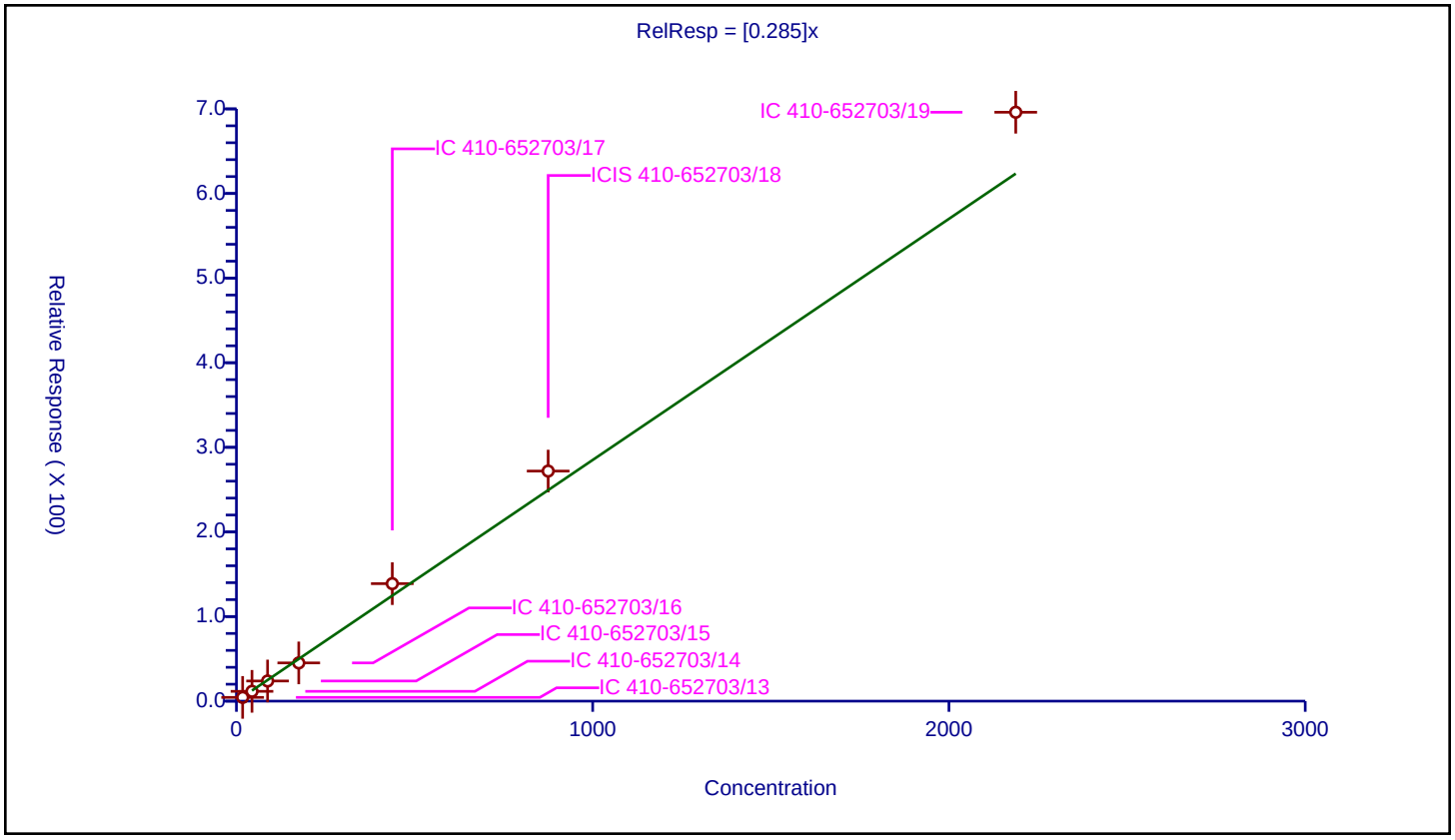
Curve Coefficients

Intercept:	0
Slope:	0.285

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	17.5	4.433697	50.0	176275.0	0.253354	Y
2	IC 410-652703/14	43.75	11.599267	50.0	174580.0	0.265126	Y
3	IC 410-652703/15	87.5	23.803857	50.0	173955.0	0.272044	Y
4	IC 410-652703/16	175.0	45.175452	50.0	202164.0	0.258145	Y
5	IC 410-652703/17	437.5	138.885585	50.0	195044.0	0.317453	Y
6	ICIS 410-652703/18	875.0	271.937328	50.0	195687.0	0.310786	Y
7	IC 410-652703/19	2187.5	696.035886	50.0	190156.0	0.318188	Y



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Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

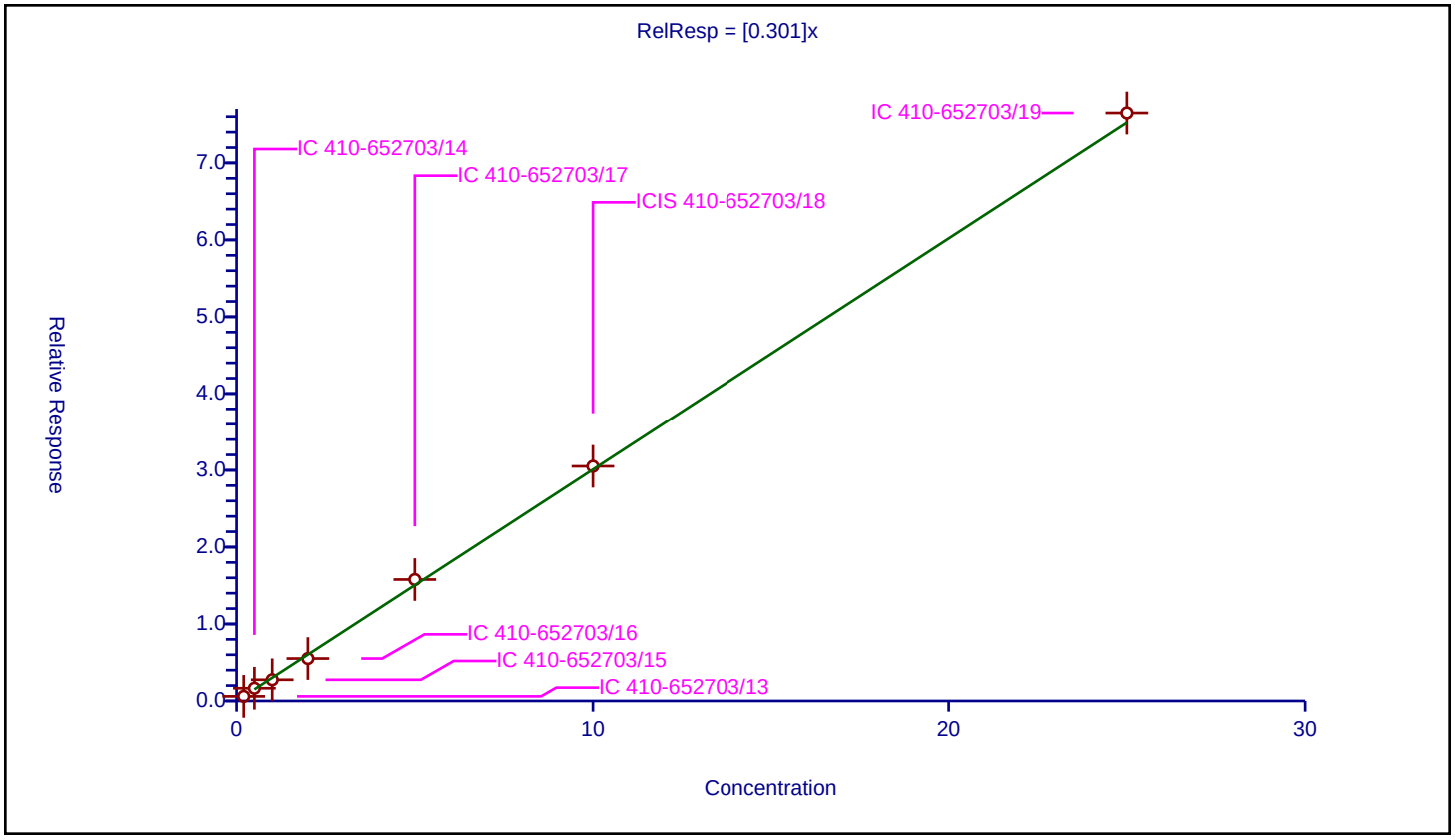
Curve Coefficients

Intercept:	0
Slope:	0.301

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.059829	10.0	2284843.0	0.299145	Y
2	IC 410-652703/14	0.5	0.165202	10.0	2238774.0	0.330404	Y
3	IC 410-652703/15	1.0	0.275143	10.0	2276632.0	0.275143	Y
4	IC 410-652703/16	2.0	0.550956	10.0	2320746.0	0.275478	Y
5	IC 410-652703/17	5.0	1.578142	10.0	2313176.0	0.315628	Y
6	ICIS 410-652703/18	10.0	3.051641	10.0	2356745.0	0.305164	Y
7	IC 410-652703/19	25.0	7.647799	10.0	2383670.0	0.305912	Y



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Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

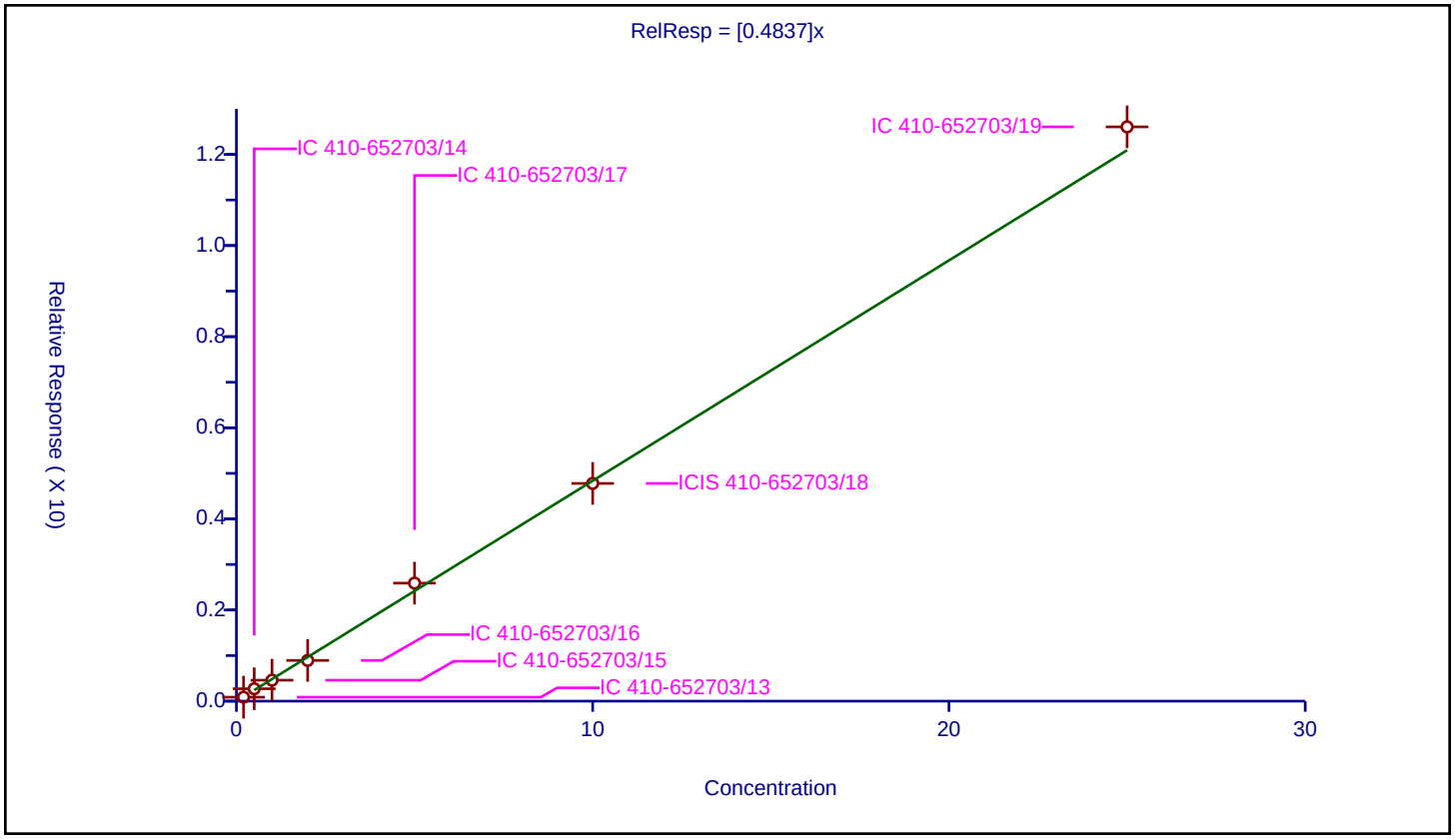
Curve Coefficients

Intercept:	0
Slope:	0.4837

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.086894	10.0	2284843.0	0.434472	Y
2	IC 410-652703/14	0.5	0.27185	10.0	2238774.0	0.543699	Y
3	IC 410-652703/15	1.0	0.460369	10.0	2276632.0	0.460369	Y
4	IC 410-652703/16	2.0	0.893838	10.0	2320746.0	0.446919	Y
5	IC 410-652703/17	5.0	2.590508	10.0	2313176.0	0.518102	Y
6	ICIS 410-652703/18	10.0	4.778981	10.0	2356745.0	0.477898	Y
7	IC 410-652703/19	25.0	12.604681	10.0	2383670.0	0.504187	Y



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Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

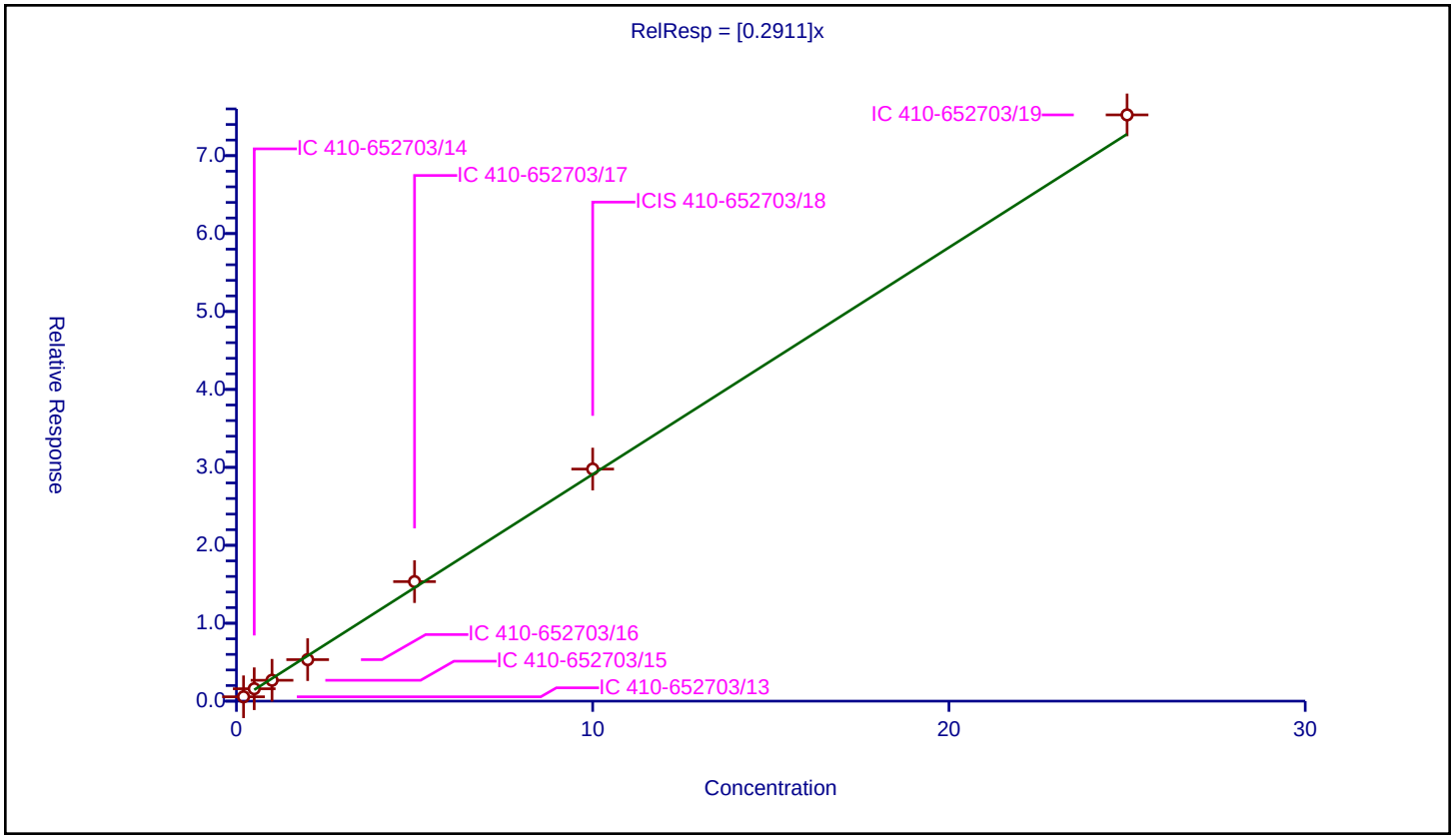
Curve Coefficients

Intercept:	0
Slope:	0.2911

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.055824	10.0	2284843.0	0.279122	Y
2	IC 410-652703/14	0.5	0.159257	10.0	2238774.0	0.318514	Y
3	IC 410-652703/15	1.0	0.267948	10.0	2276632.0	0.267948	Y
4	IC 410-652703/16	2.0	0.532777	10.0	2320746.0	0.266388	Y
5	IC 410-652703/17	5.0	1.533774	10.0	2313176.0	0.306755	Y
6	ICIS 410-652703/18	10.0	2.977938	10.0	2356745.0	0.297794	Y
7	IC 410-652703/19	25.0	7.522954	10.0	2383670.0	0.300918	Y



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Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

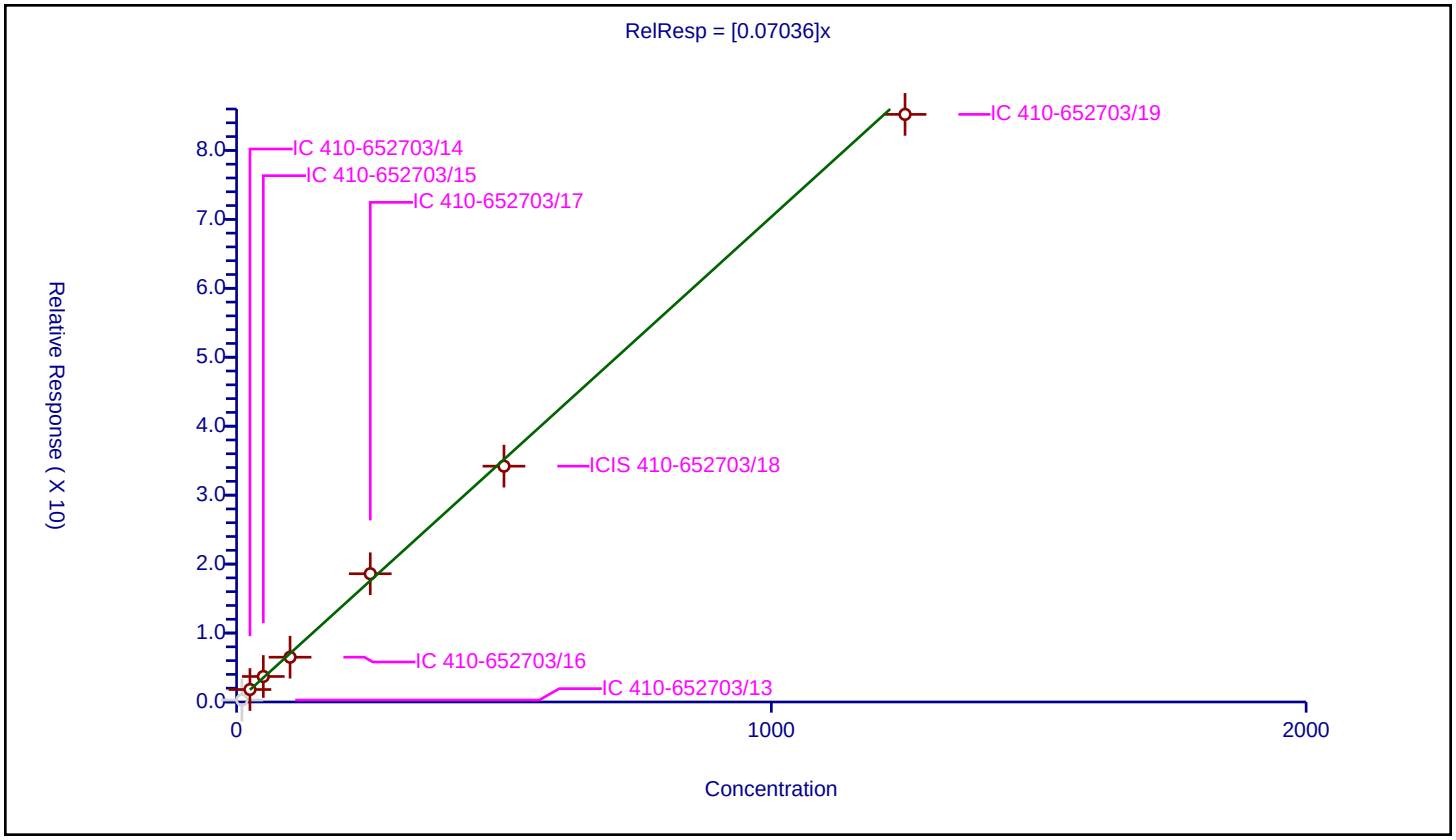
Curve Coefficients

Intercept:	0
Slope:	0.07036

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	10.0	0.284782	50.0	176275.0	0.028478	N
2	IC 410-652703/14	25.0	1.806335	50.0	174580.0	0.072253	Y
3	IC 410-652703/15	50.0	3.69837	50.0	173955.0	0.073967	Y
4	IC 410-652703/16	100.0	6.496458	50.0	202164.0	0.064965	Y
5	IC 410-652703/17	250.0	18.599137	50.0	195044.0	0.074397	Y
6	ICIS 410-652703/18	500.0	34.201812	50.0	195687.0	0.068404	Y
7	IC 410-652703/19	1250.0	85.221082	50.0	190156.0	0.068177	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

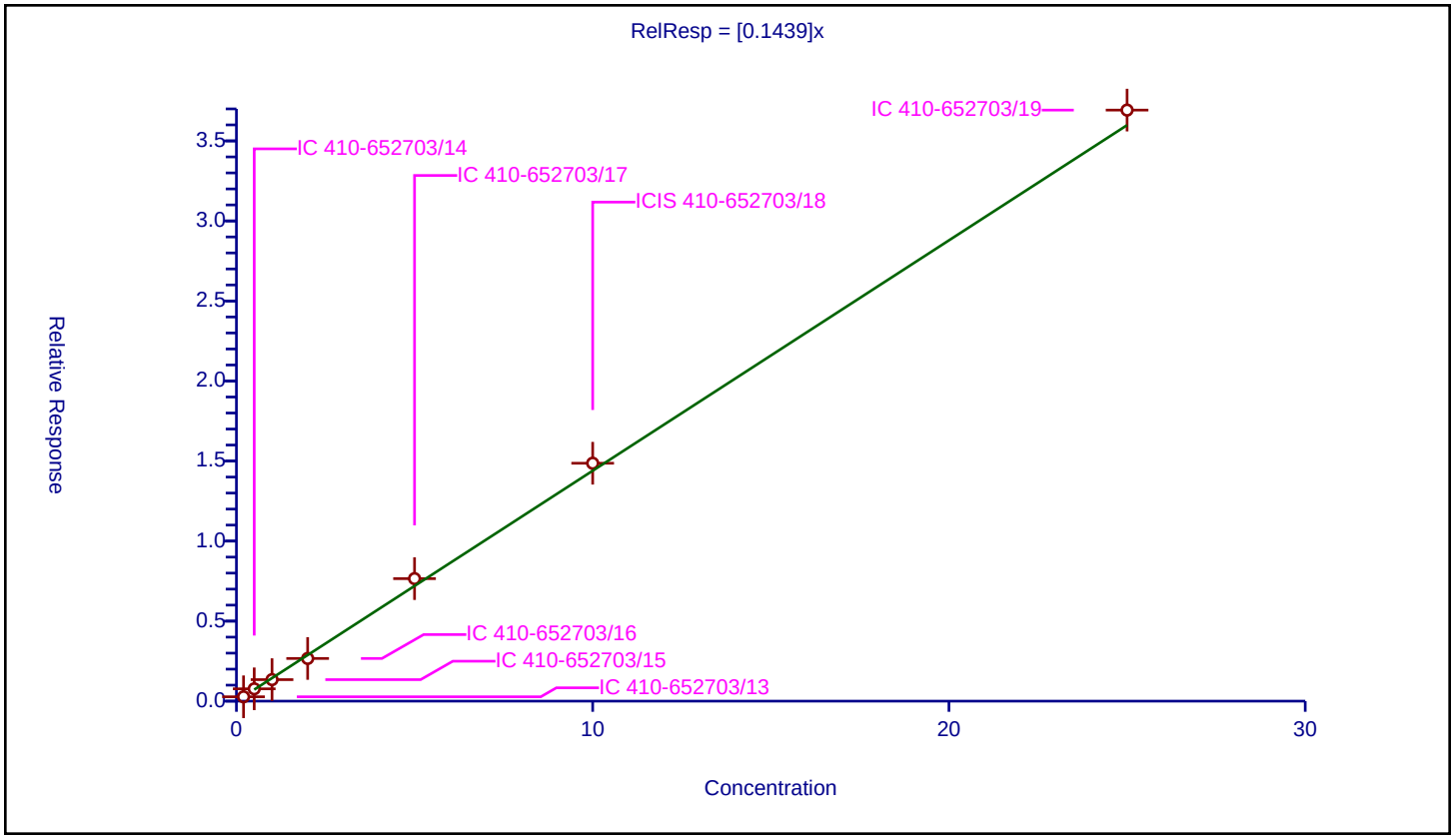
Curve Coefficients

Intercept:	0
Slope:	0.1439

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.027275	10.0	2284843.0	0.136377	Y
2	IC 410-652703/14	0.5	0.077015	10.0	2238774.0	0.154031	Y
3	IC 410-652703/15	1.0	0.1344	10.0	2276632.0	0.1344	Y
4	IC 410-652703/16	2.0	0.266621	10.0	2320746.0	0.133311	Y
5	IC 410-652703/17	5.0	0.765337	10.0	2313176.0	0.153067	Y
6	ICIS 410-652703/18	10.0	1.486351	10.0	2356745.0	0.148635	Y
7	IC 410-652703/19	25.0	3.692587	10.0	2383670.0	0.147703	Y



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Calibration / Methyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

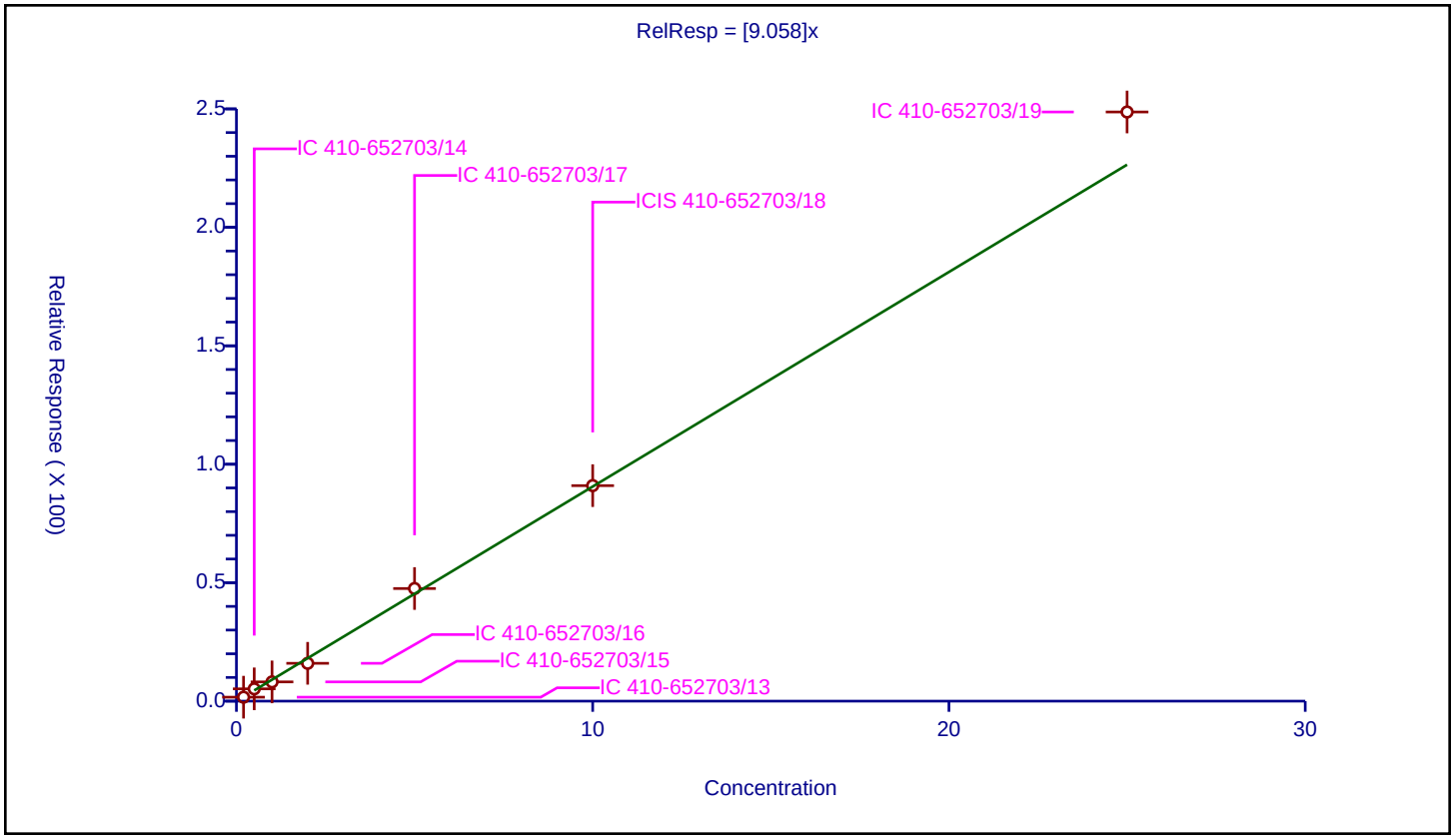
Curve Coefficients

Intercept:	0
Slope:	9.058

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	1.670969	50.0	176275.0	8.354843	Y
2	IC 410-652703/14	0.5	5.191889	50.0	174580.0	10.383778	Y
3	IC 410-652703/15	1.0	8.126814	50.0	173955.0	8.126814	Y
4	IC 410-652703/16	2.0	15.971192	50.0	202164.0	7.985596	Y
5	IC 410-652703/17	5.0	47.542862	50.0	195044.0	9.508572	Y
6	ICIS 410-652703/18	10.0	90.965675	50.0	195687.0	9.096567	Y
7	IC 410-652703/19	25.0	248.695019	50.0	190156.0	9.947801	Y



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Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

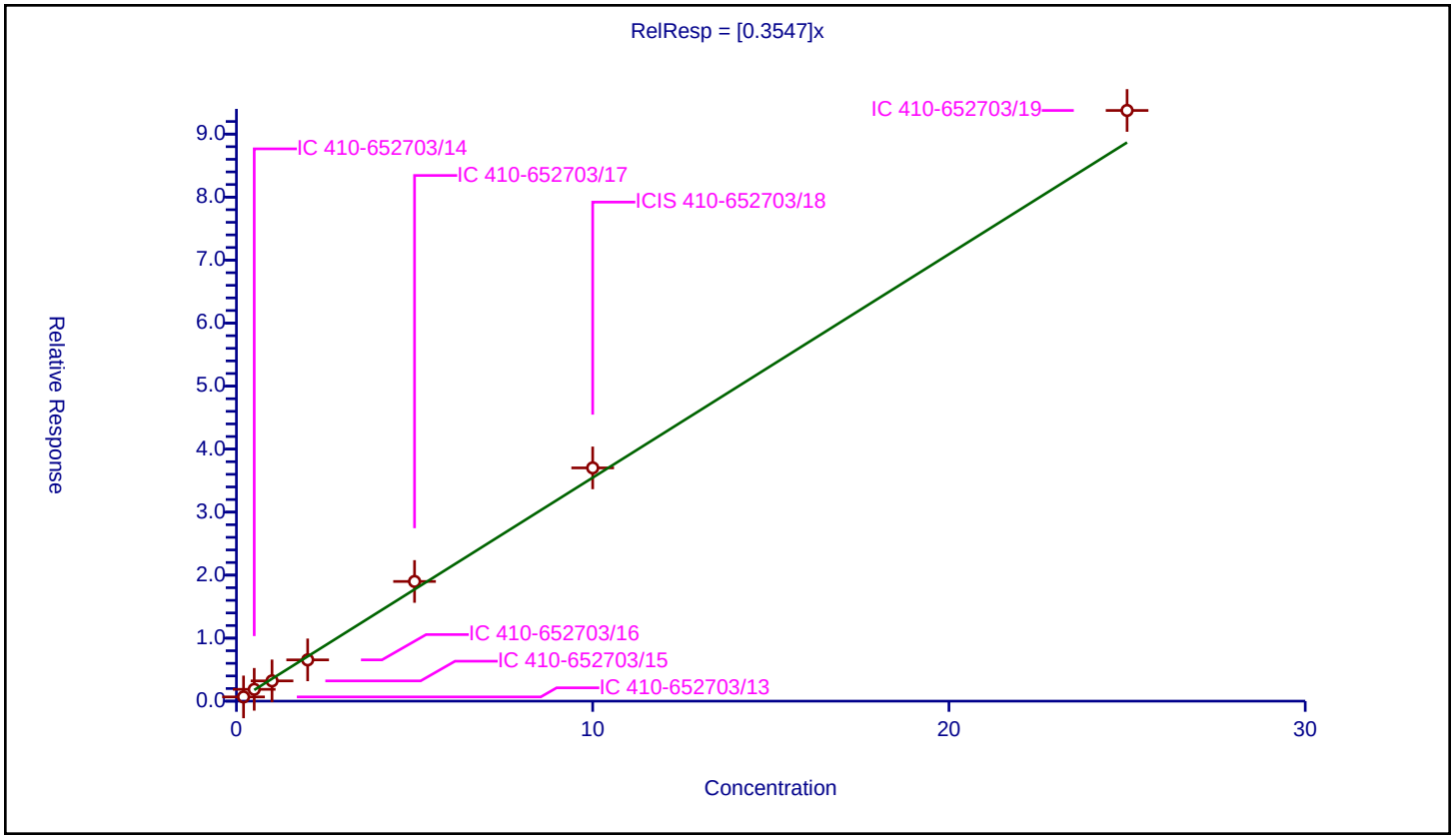
Curve Coefficients

Intercept:	0
Slope:	0.3547

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.066884	10.0	2284843.0	0.334421	Y
2	IC 410-652703/14	0.5	0.187272	10.0	2238774.0	0.374544	Y
3	IC 410-652703/15	1.0	0.321365	10.0	2276632.0	0.321365	Y
4	IC 410-652703/16	2.0	0.654815	10.0	2320746.0	0.327408	Y
5	IC 410-652703/17	5.0	1.899734	10.0	2313176.0	0.379947	Y
6	ICIS 410-652703/18	10.0	3.70217	10.0	2356745.0	0.370217	Y
7	IC 410-652703/19	25.0	9.374993	10.0	2383670.0	0.375	Y



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Calibration / 2-Nitropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

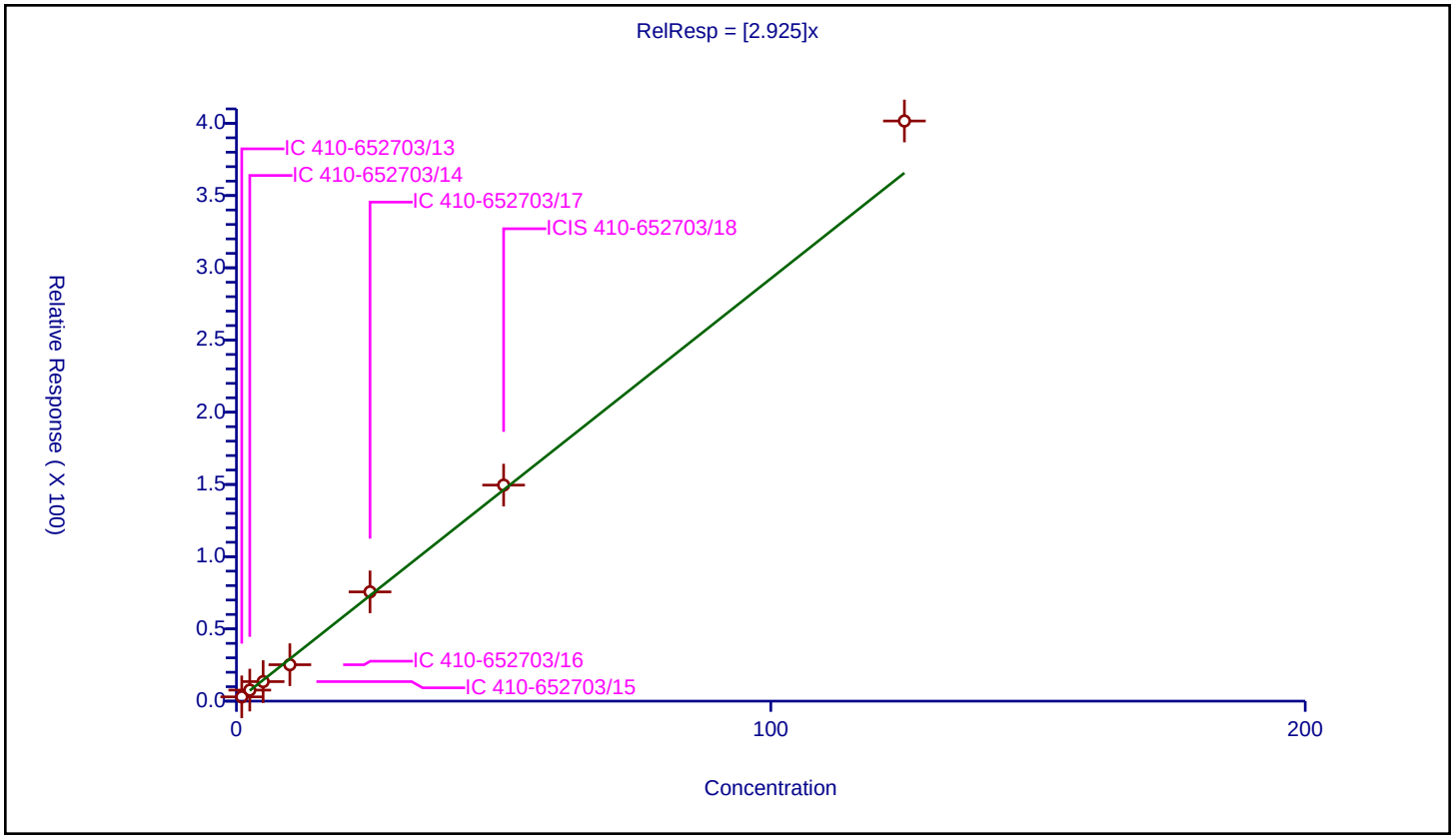
Curve Coefficients

Intercept:	0
Slope:	2.925

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	1.0	2.963268	50.0	176275.0	2.963268	Y
2	IC 410-652703/14	2.5	7.646065	50.0	174580.0	3.058426	Y
3	IC 410-652703/15	5.0	13.520738	50.0	173955.0	2.704148	Y
4	IC 410-652703/16	10.0	25.217892	50.0	202164.0	2.521789	Y
5	IC 410-652703/17	25.0	75.640112	50.0	195044.0	3.025604	Y
6	ICIS 410-652703/18	50.0	149.569466	50.0	195687.0	2.991389	Y
7	IC 410-652703/19	125.0	401.624719	50.0	190156.0	3.212998	Y



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Calibration / 1-Bromo-2-chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

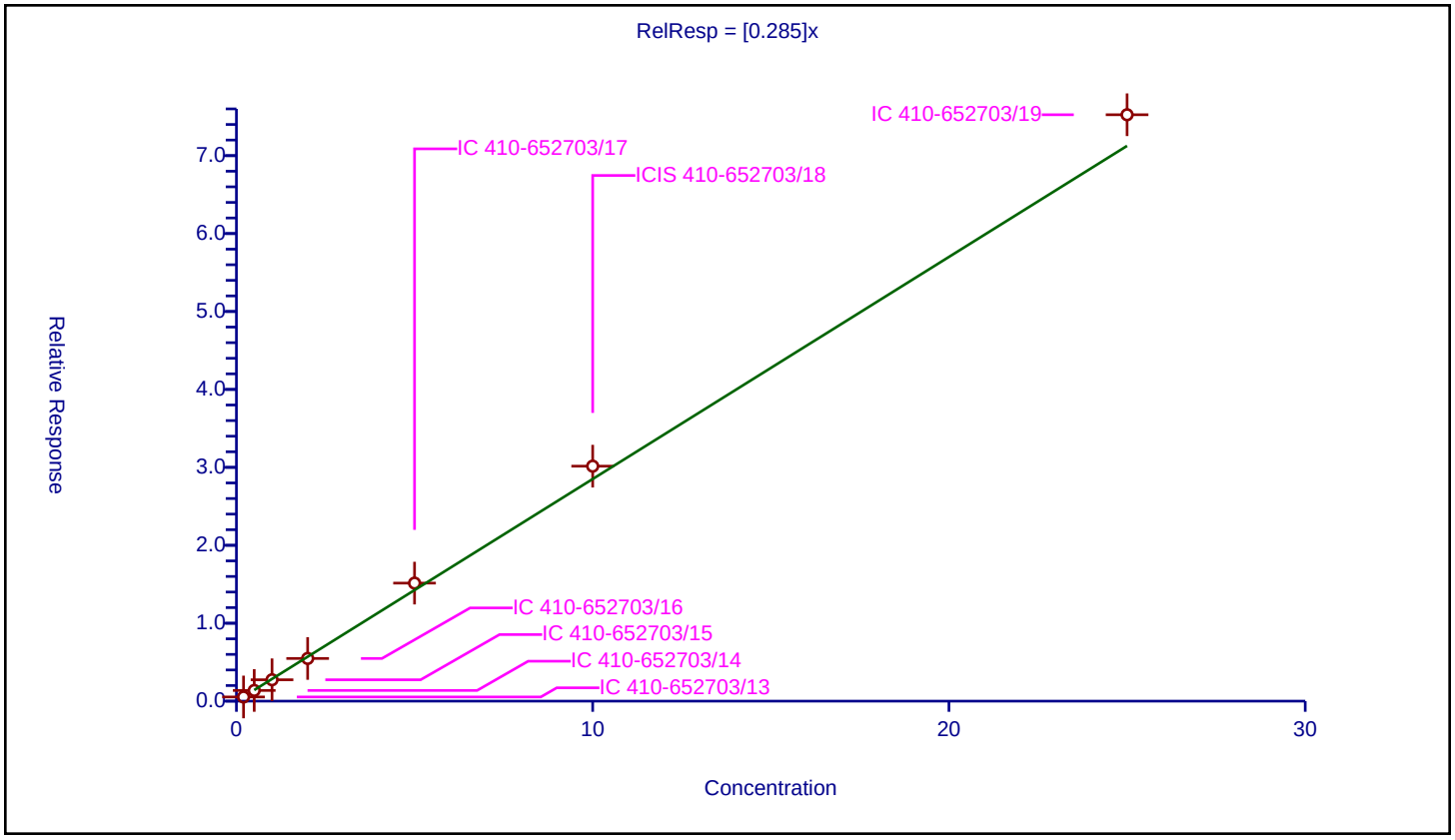
Curve Coefficients

Intercept:	0
Slope:	0.285

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.05336	10.0	2284843.0	0.266802	Y
2	IC 410-652703/14	0.5	0.137365	10.0	2238774.0	0.274731	Y
3	IC 410-652703/15	1.0	0.274287	10.0	2276632.0	0.274287	Y
4	IC 410-652703/16	2.0	0.547755	10.0	2320746.0	0.273877	Y
5	IC 410-652703/17	5.0	1.514636	10.0	2313176.0	0.302927	Y
6	ICIS 410-652703/18	10.0	3.015511	10.0	2356745.0	0.301551	Y
7	IC 410-652703/19	25.0	7.524712	10.0	2383670.0	0.300988	Y



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Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

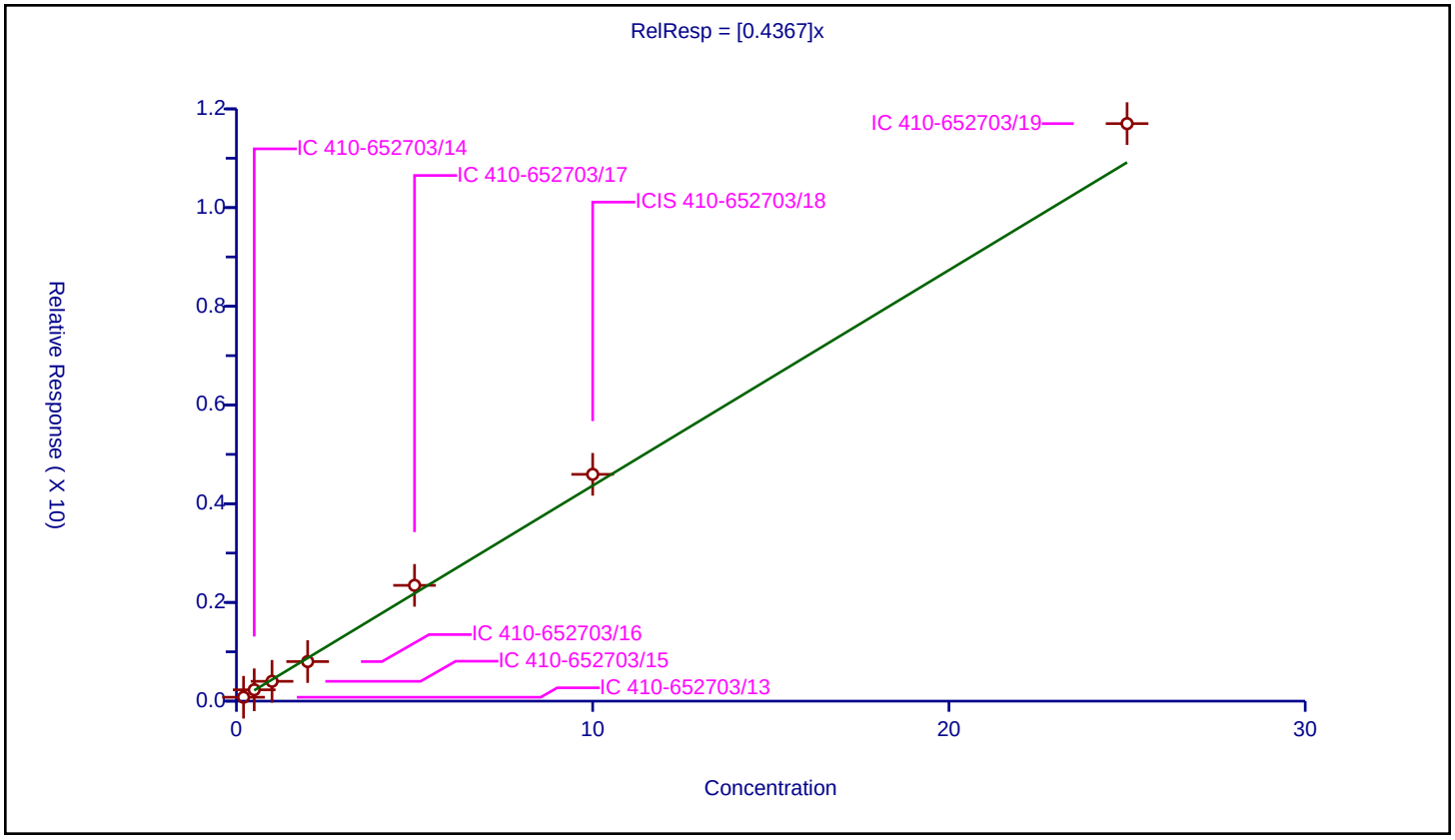
Curve Coefficients

Intercept:	0
Slope:	0.4367

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.079257	10.0	2284843.0	0.396285	Y
2	IC 410-652703/14	0.5	0.230247	10.0	2238774.0	0.460493	Y
3	IC 410-652703/15	1.0	0.40198	10.0	2276632.0	0.40198	Y
4	IC 410-652703/16	2.0	0.801906	10.0	2320746.0	0.400953	Y
5	IC 410-652703/17	5.0	2.34622	10.0	2313176.0	0.469244	Y
6	ICIS 410-652703/18	10.0	4.595673	10.0	2356745.0	0.459567	Y
7	IC 410-652703/19	25.0	11.701385	10.0	2383670.0	0.468055	Y



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Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

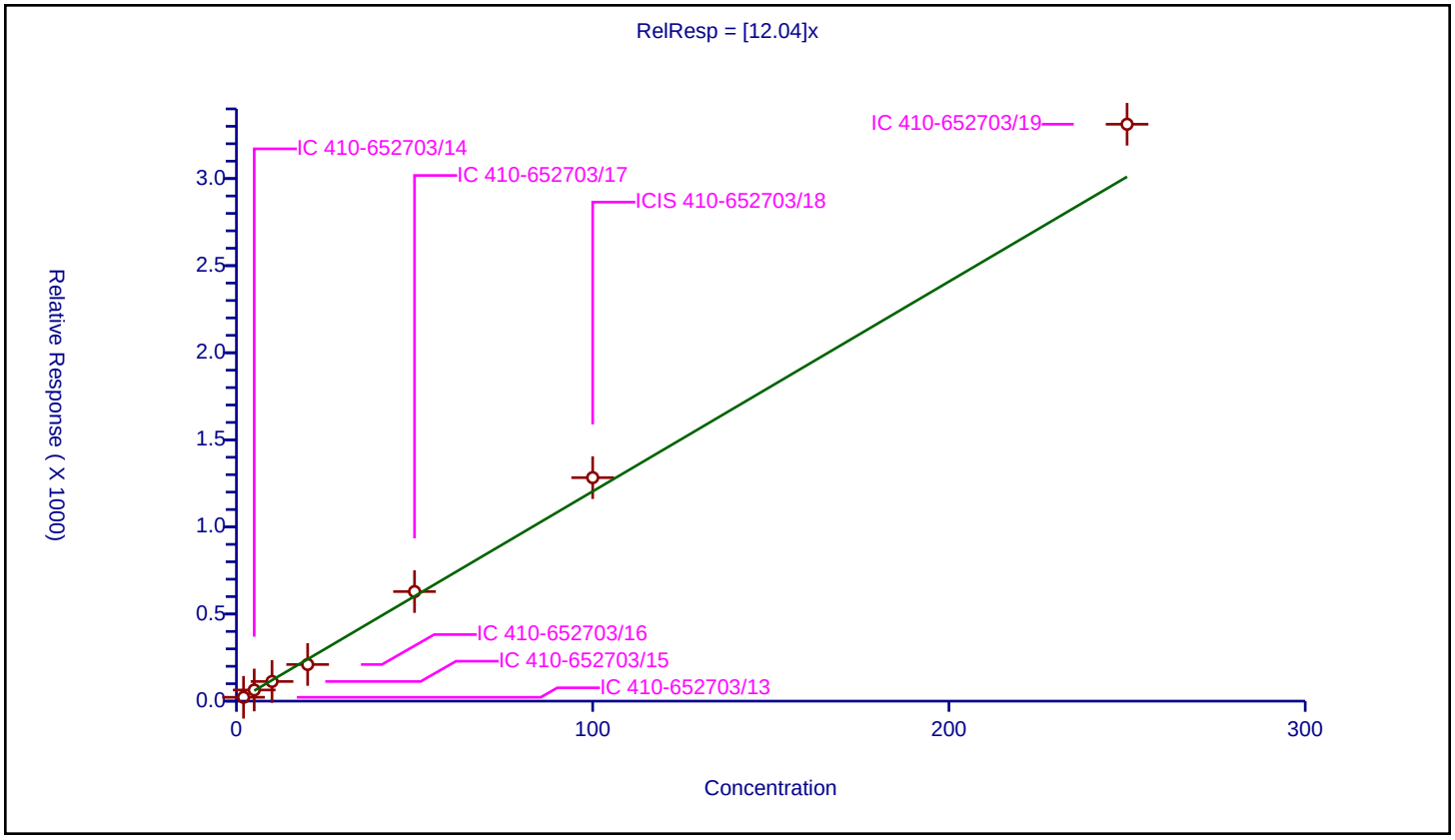
Curve Coefficients

Intercept:	0
Slope:	12.04

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	2.0	22.034321	50.0	176275.0	11.017161	Y
2	IC 410-652703/14	5.0	64.04886	50.0	174580.0	12.809772	Y
3	IC 410-652703/15	10.0	112.896439	50.0	173955.0	11.289644	Y
4	IC 410-652703/16	20.0	210.425447	50.0	202164.0	10.521272	Y
5	IC 410-652703/17	50.0	629.04037	50.0	195044.0	12.580807	Y
6	ICIS 410-652703/18	100.0	1282.999637	50.0	195687.0	12.829996	Y
7	IC 410-652703/19	250.0	3311.886819	50.0	190156.0	13.247547	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

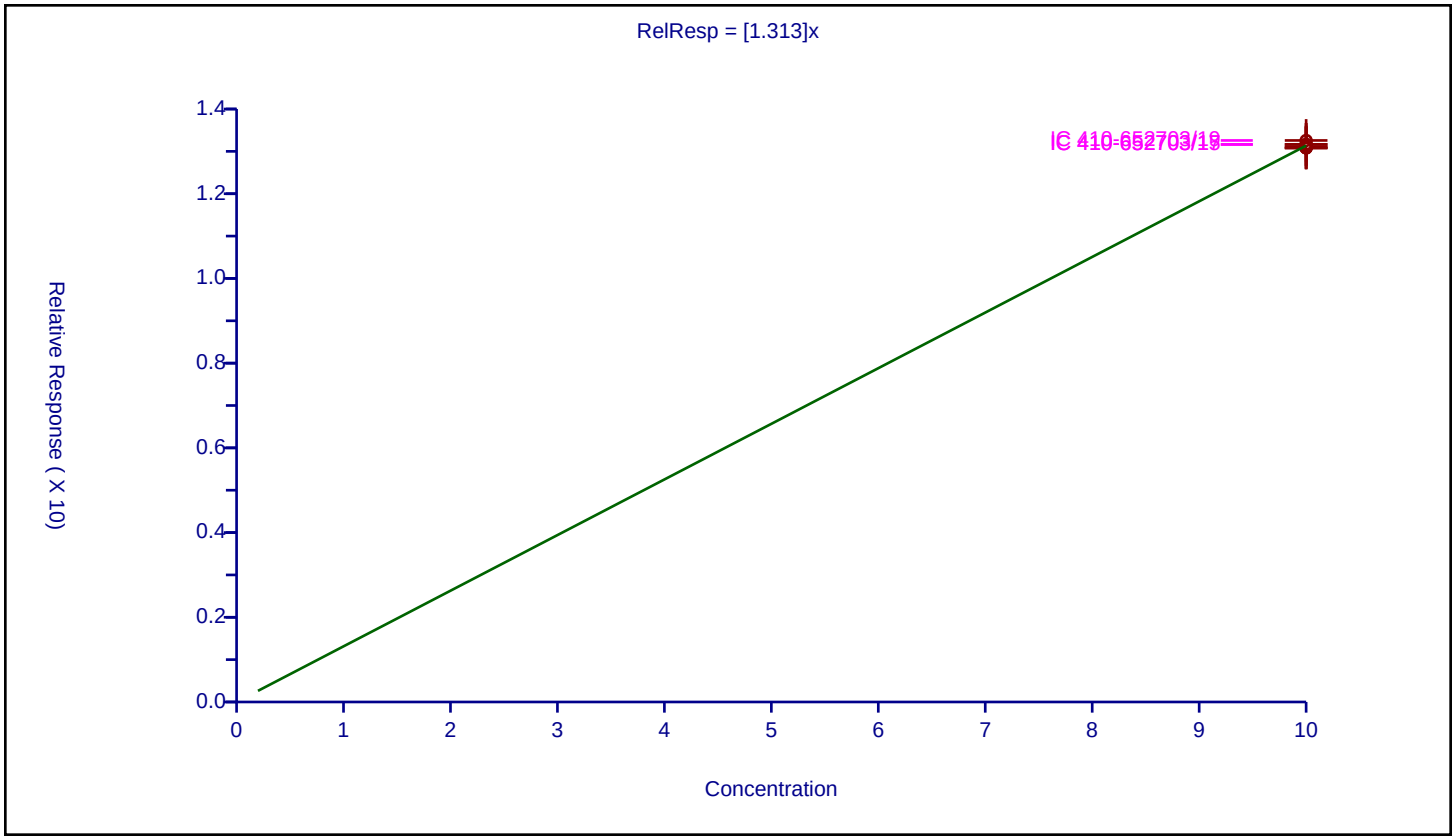
Curve Coefficients

Intercept:	0
Slope:	1.313

Error Coefficients

Relative Standard Deviation:	0.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	10.0	13.085266	10.0	1724253.0	1.308527	Y
2	IC 410-652703/14	10.0	13.079941	10.0	1709468.0	1.307994	Y
3	IC 410-652703/15	10.0	13.164694	10.0	1726233.0	1.316469	Y
4	IC 410-652703/16	10.0	13.082591	10.0	1782828.0	1.308259	Y
5	IC 410-652703/17	10.0	13.163022	10.0	1764929.0	1.316302	Y
6	ICIS 410-652703/18	10.0	13.105841	10.0	1784969.0	1.310584	Y
7	IC 410-652703/19	10.0	13.25792	10.0	1791241.0	1.325792	Y



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Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

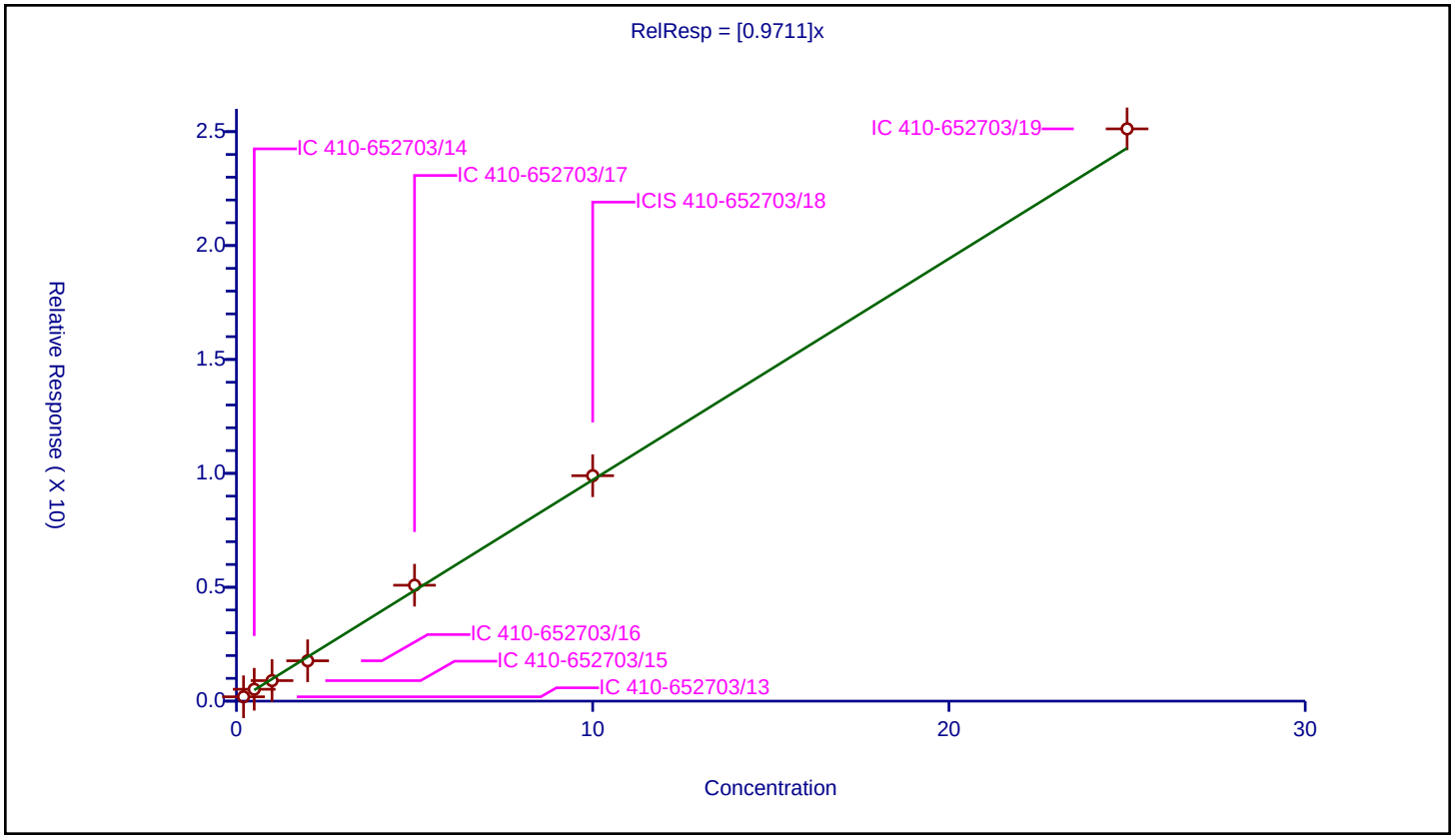
Curve Coefficients

Intercept:	0
Slope:	0.9711

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.190755	10.0	1724253.0	0.953775	Y
2	IC 410-652703/14	0.5	0.522209	10.0	1709468.0	1.044418	Y
3	IC 410-652703/15	1.0	0.900973	10.0	1726233.0	0.900973	Y
4	IC 410-652703/16	2.0	1.771702	10.0	1782828.0	0.885851	Y
5	IC 410-652703/17	5.0	5.089519	10.0	1764929.0	1.017904	Y
6	ICIS 410-652703/18	10.0	9.897645	10.0	1784969.0	0.989765	Y
7	IC 410-652703/19	25.0	25.123264	10.0	1791241.0	1.004931	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

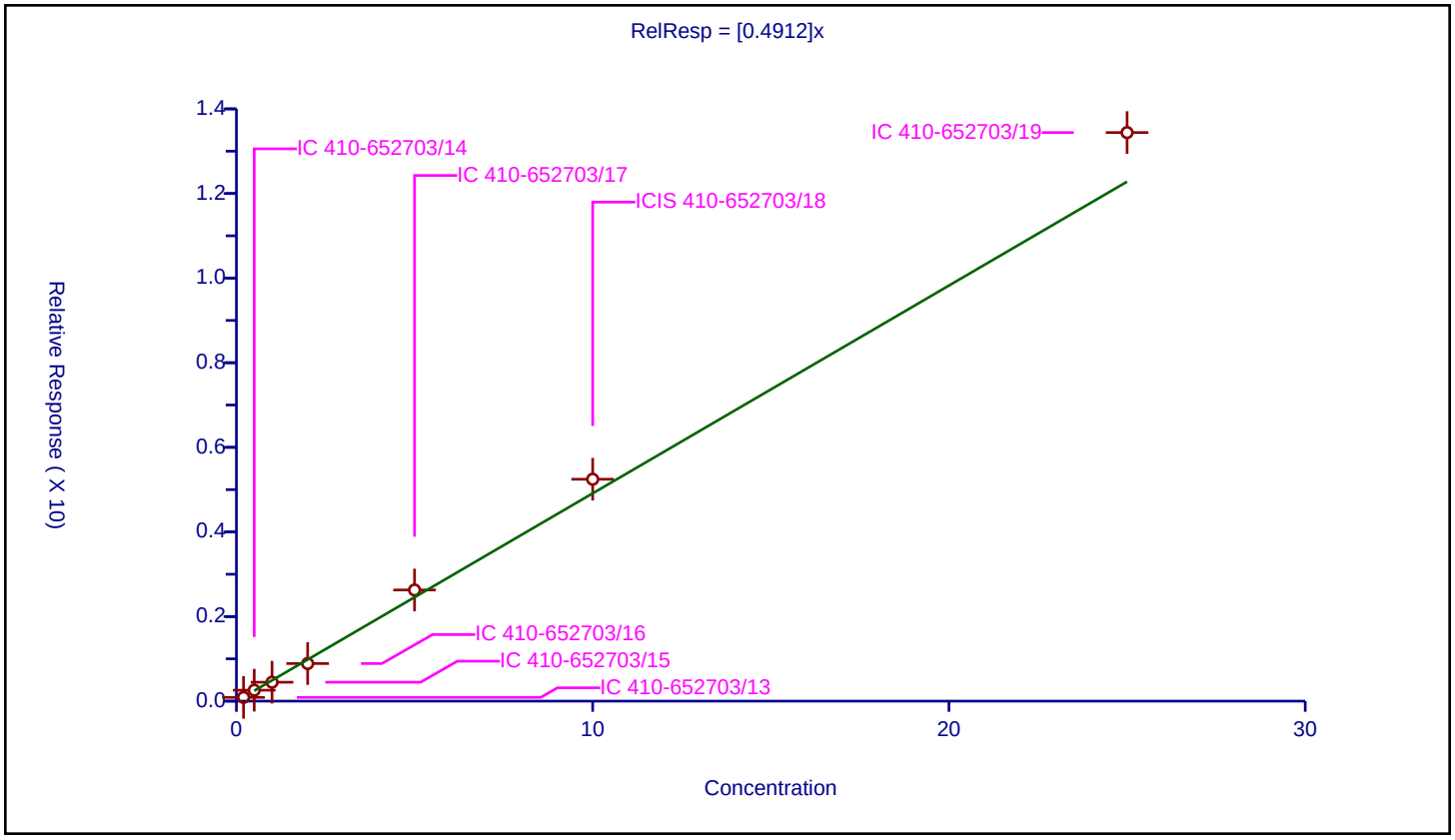
Curve Coefficients

Intercept:	0
Slope:	0.4912

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.088473	10.0	1724253.0	0.442365	Y
2	IC 410-652703/14	0.5	0.258238	10.0	1709468.0	0.516476	Y
3	IC 410-652703/15	1.0	0.447616	10.0	1726233.0	0.447616	Y
4	IC 410-652703/16	2.0	0.888398	10.0	1782828.0	0.444199	Y
5	IC 410-652703/17	5.0	2.627409	10.0	1764929.0	0.525482	Y
6	ICIS 410-652703/18	10.0	5.245178	10.0	1784969.0	0.524518	Y
7	IC 410-652703/19	25.0	13.440514	10.0	1791241.0	0.537621	Y



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Calibration / Ethyl methacrylate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

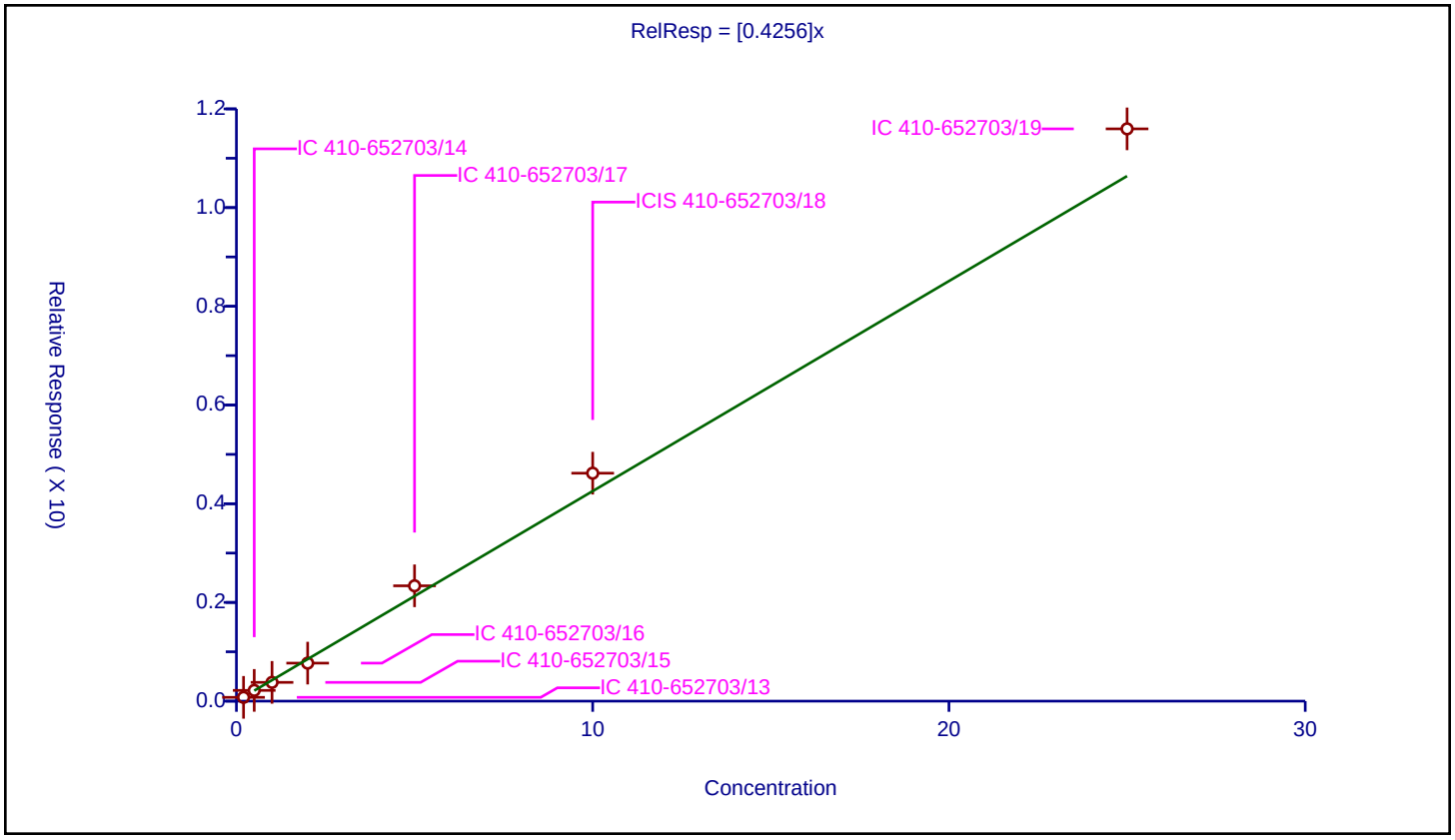
Curve Coefficients

Intercept:	0
Slope:	0.4256

Error Coefficients

Relative Standard Deviation:	9.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.076984	10.0	1724253.0	0.38492	Y
2	IC 410-652703/14	0.5	0.217647	10.0	1709468.0	0.435293	Y
3	IC 410-652703/15	1.0	0.380366	10.0	1726233.0	0.380366	Y
4	IC 410-652703/16	2.0	0.770473	10.0	1782828.0	0.385236	Y
5	IC 410-652703/17	5.0	2.336876	10.0	1764929.0	0.467375	Y
6	ICIS 410-652703/18	10.0	4.618489	10.0	1784969.0	0.461849	Y
7	IC 410-652703/19	25.0	11.595503	10.0	1791241.0	0.46382	Y



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Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

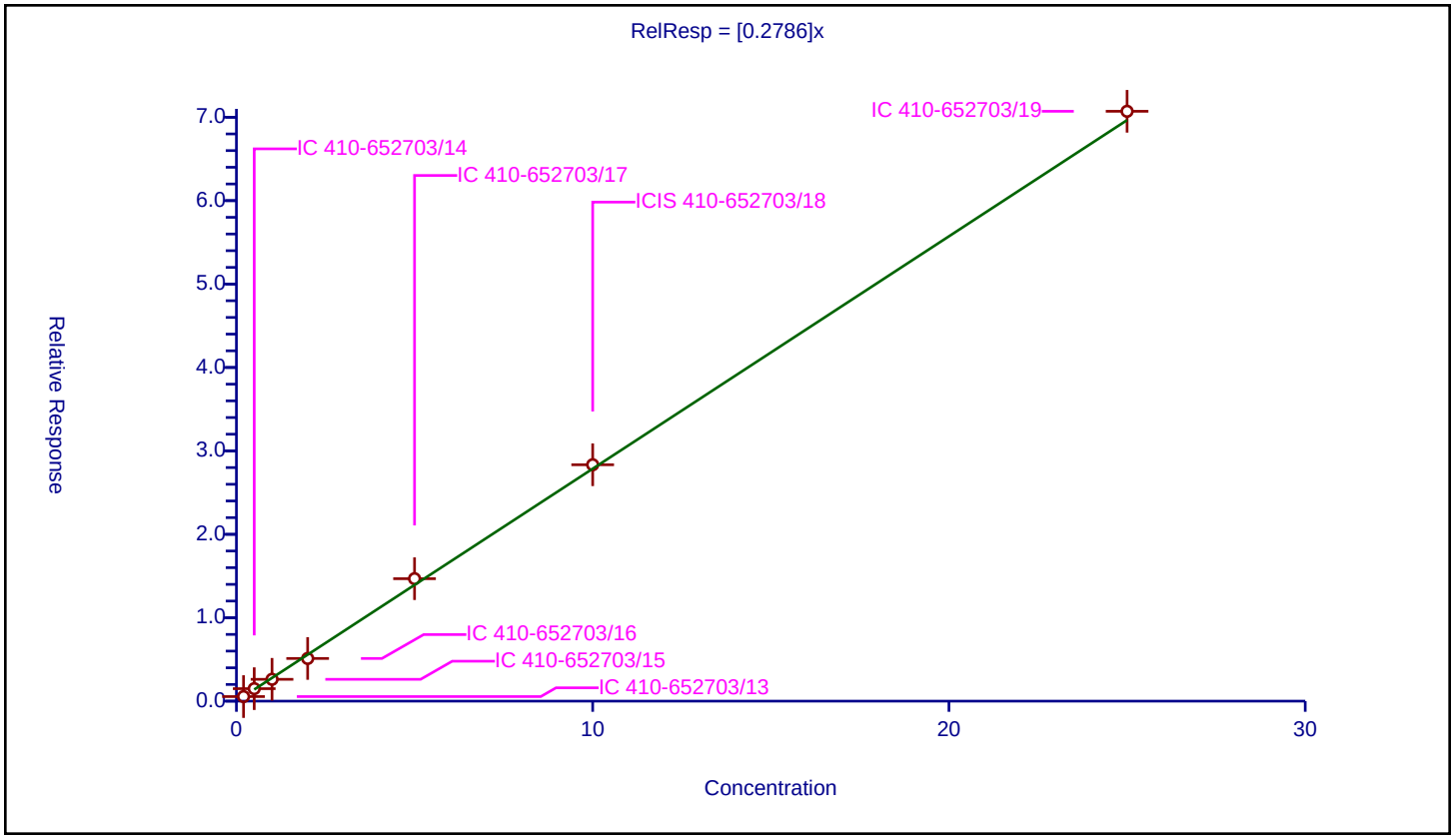
Curve Coefficients

Intercept:	0
Slope:	0.2786

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.054777	10.0	1724253.0	0.273887	Y
2	IC 410-652703/14	0.5	0.14952	10.0	1709468.0	0.29904	Y
3	IC 410-652703/15	1.0	0.261813	10.0	1726233.0	0.261813	Y
4	IC 410-652703/16	2.0	0.511564	10.0	1782828.0	0.255782	Y
5	IC 410-652703/17	5.0	1.467861	10.0	1764929.0	0.293572	Y
6	ICIS 410-652703/18	10.0	2.833758	10.0	1784969.0	0.283376	Y
7	IC 410-652703/19	25.0	7.071131	10.0	1791241.0	0.282845	Y



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Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

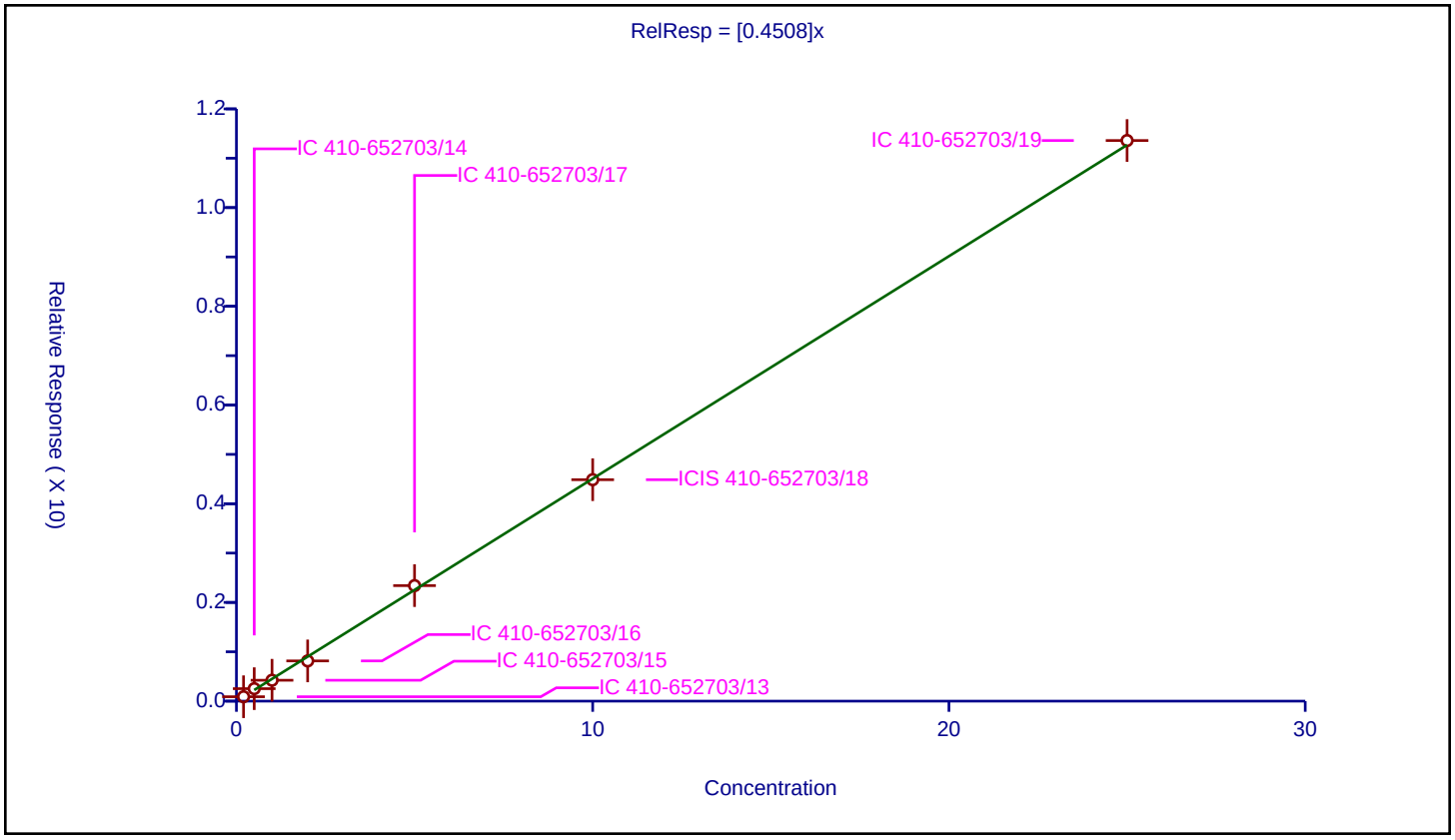
Curve Coefficients

Intercept:	0
Slope:	0.4508

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.089563	10.0	1724253.0	0.447817	Y
2	IC 410-652703/14	0.5	0.252576	10.0	1709468.0	0.505151	Y
3	IC 410-652703/15	1.0	0.423442	10.0	1726233.0	0.423442	Y
4	IC 410-652703/16	2.0	0.815171	10.0	1782828.0	0.407586	Y
5	IC 410-652703/17	5.0	2.340978	10.0	1764929.0	0.468196	Y
6	ICIS 410-652703/18	10.0	4.487187	10.0	1784969.0	0.448719	Y
7	IC 410-652703/19	25.0	11.358907	10.0	1791241.0	0.454356	Y



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Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

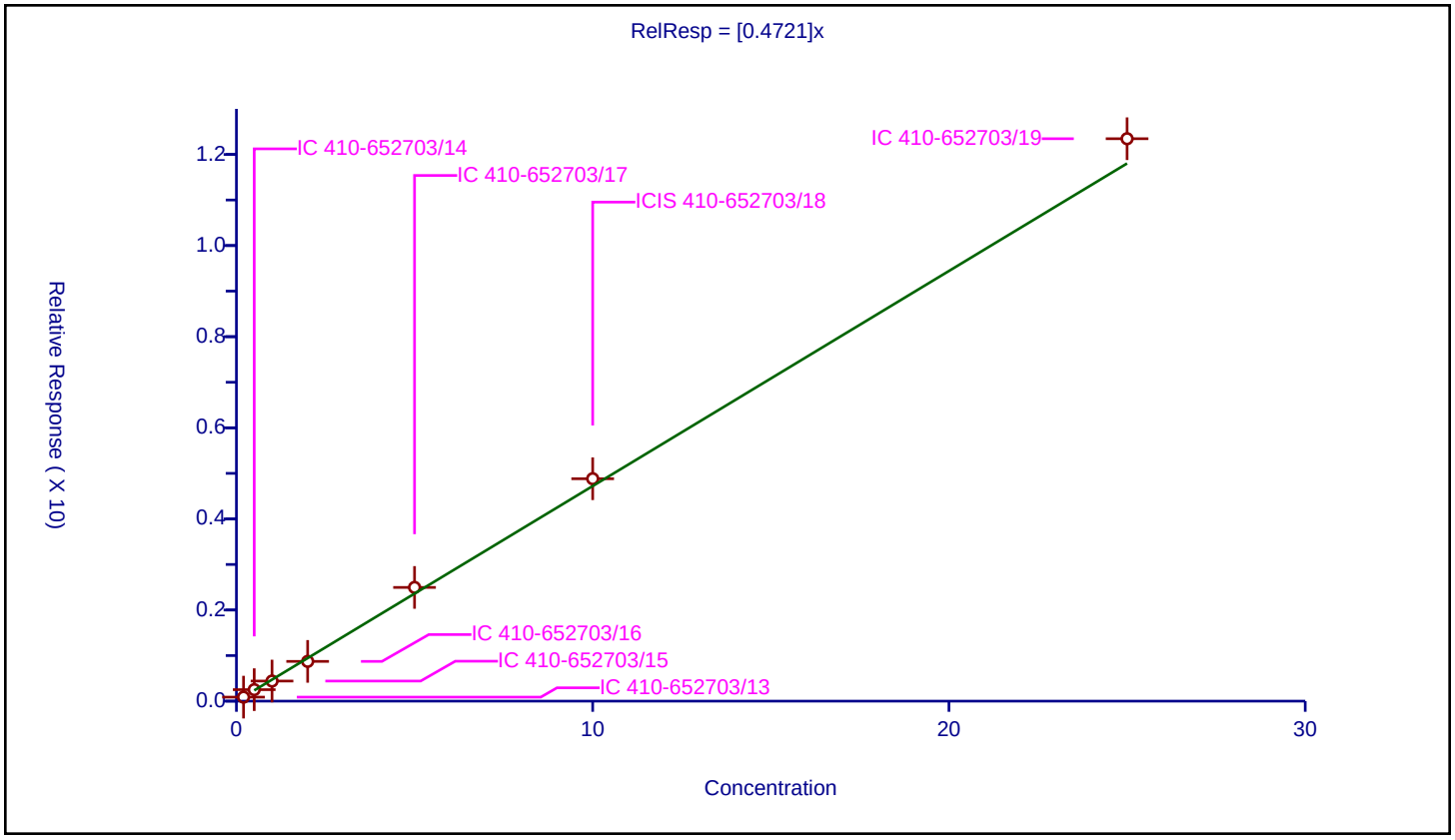
Curve Coefficients

Intercept:	0
Slope:	0.4721

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.088259	10.0	1724253.0	0.441293	Y
2	IC 410-652703/14	0.5	0.252505	10.0	1709468.0	0.505011	Y
3	IC 410-652703/15	1.0	0.441041	10.0	1726233.0	0.441041	Y
4	IC 410-652703/16	2.0	0.872311	10.0	1782828.0	0.436155	Y
5	IC 410-652703/17	5.0	2.49614	10.0	1764929.0	0.499228	Y
6	ICIS 410-652703/18	10.0	4.882135	10.0	1784969.0	0.488214	Y
7	IC 410-652703/19	25.0	12.345301	10.0	1791241.0	0.493812	Y



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Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

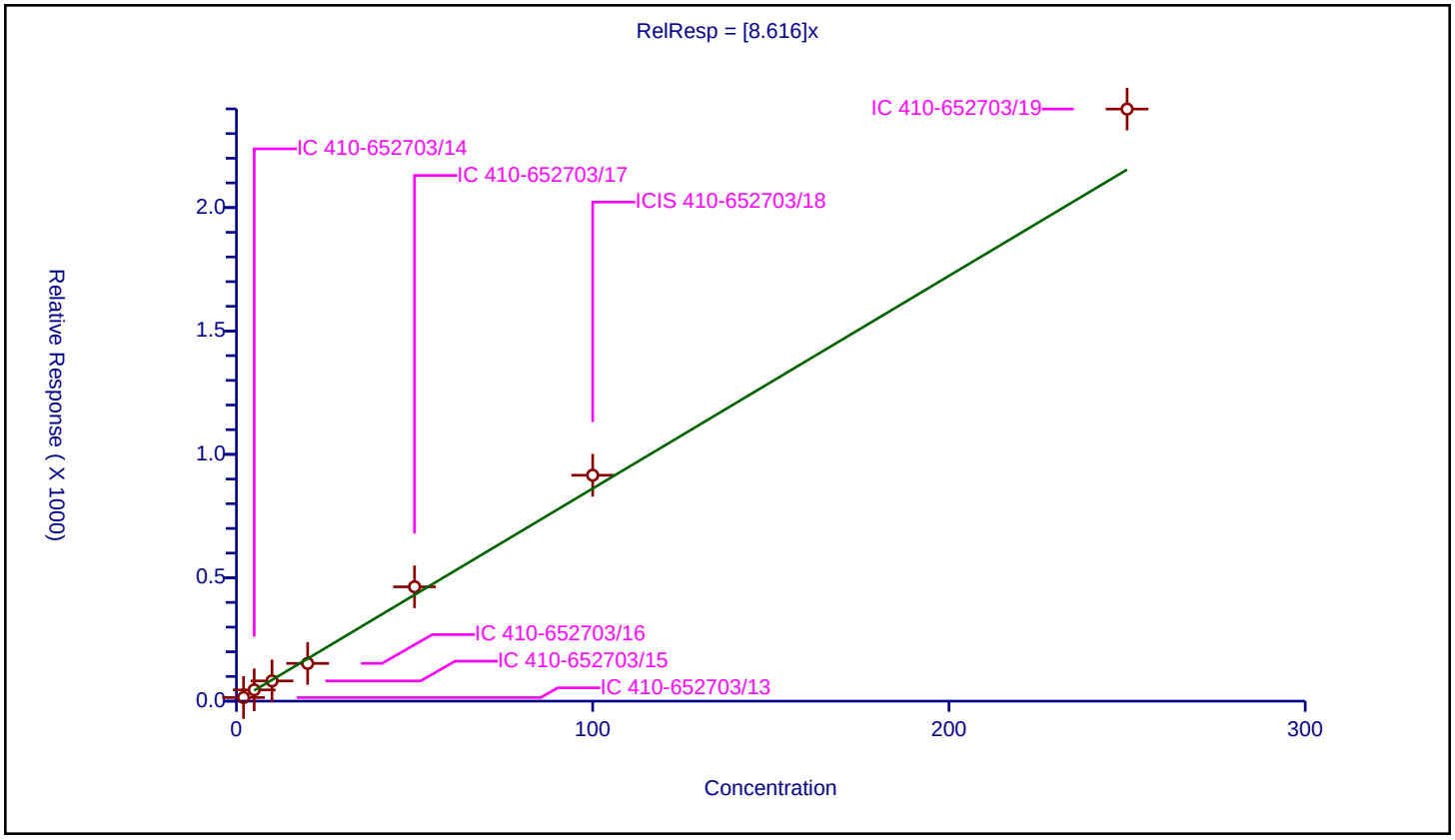
Curve Coefficients

Intercept:	0
Slope:	8.616

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	2.0	14.623741	50.0	176275.0	7.311871	Y
2	IC 410-652703/14	5.0	45.719441	50.0	174580.0	9.143888	Y
3	IC 410-652703/15	10.0	81.942456	50.0	173955.0	8.194246	Y
4	IC 410-652703/16	20.0	152.905562	50.0	202164.0	7.645278	Y
5	IC 410-652703/17	50.0	463.306741	50.0	195044.0	9.266135	Y
6	ICIS 410-652703/18	100.0	915.52888	50.0	195687.0	9.155289	Y
7	IC 410-652703/19	250.0	2399.279802	50.0	190156.0	9.597119	Y



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Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

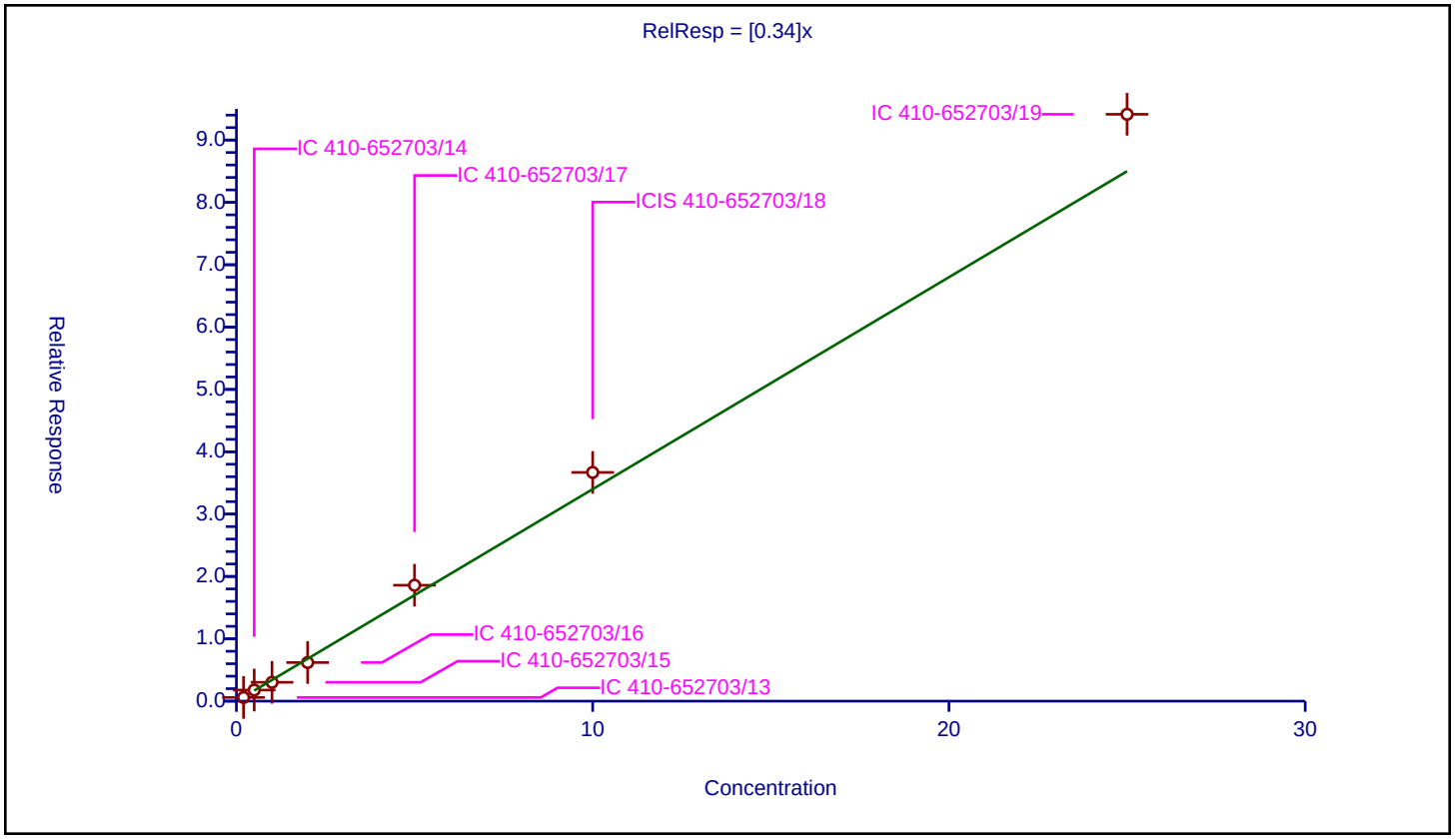
Curve Coefficients

Intercept:	0
Slope:	0.34

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.059382	10.0	1724253.0	0.296911	Y
2	IC 410-652703/14	0.5	0.177915	10.0	1709468.0	0.35583	Y
3	IC 410-652703/15	1.0	0.302143	10.0	1726233.0	0.302143	Y
4	IC 410-652703/16	2.0	0.619706	10.0	1782828.0	0.309853	Y
5	IC 410-652703/17	5.0	1.859236	10.0	1764929.0	0.371847	Y
6	ICIS 410-652703/18	10.0	3.668865	10.0	1784969.0	0.366886	Y
7	IC 410-652703/19	25.0	9.413306	10.0	1791241.0	0.376532	Y



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Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

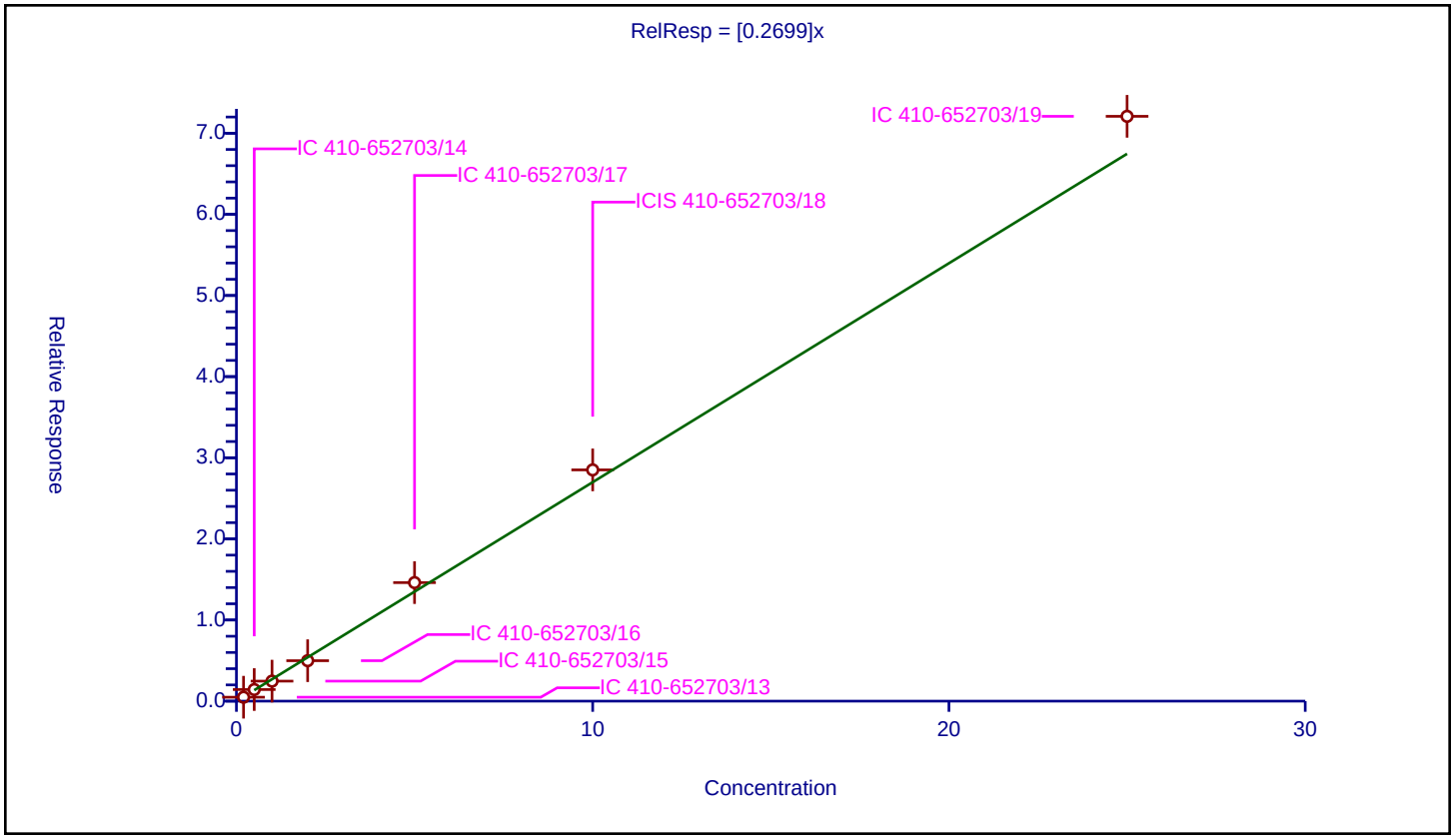
Curve Coefficients

Intercept:	0
Slope:	0.2699

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.04827	10.0	1724253.0	0.241351	Y
2	IC 410-652703/14	0.5	0.143121	10.0	1709468.0	0.286241	Y
3	IC 410-652703/15	1.0	0.246601	10.0	1726233.0	0.246601	Y
4	IC 410-652703/16	2.0	0.498534	10.0	1782828.0	0.249267	Y
5	IC 410-652703/17	5.0	1.461084	10.0	1764929.0	0.292217	Y
6	ICIS 410-652703/18	10.0	2.850341	10.0	1784969.0	0.285034	Y
7	IC 410-652703/19	25.0	7.208511	10.0	1791241.0	0.28834	Y



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Calibration / 1-Chlorohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

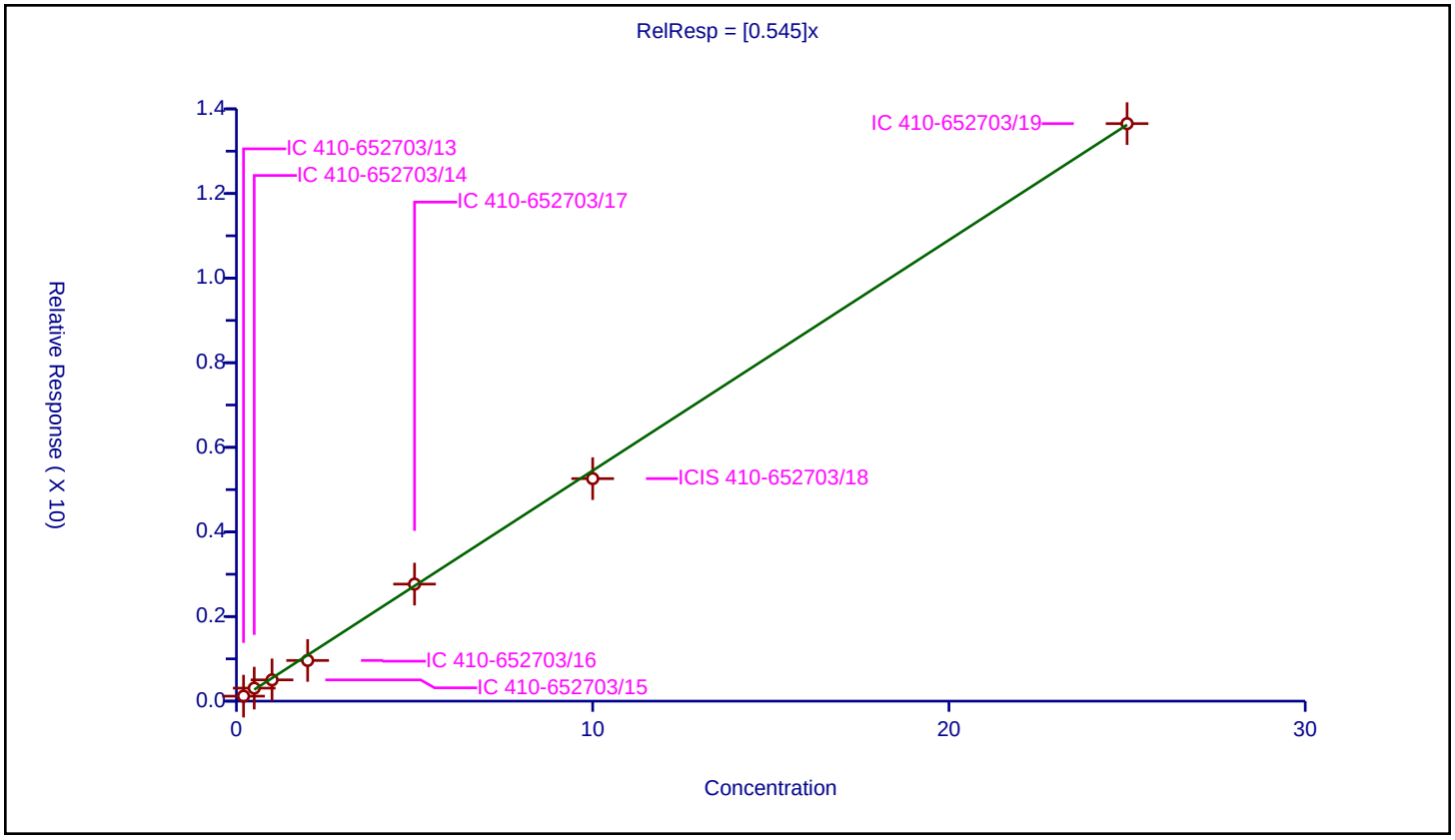
Curve Coefficients

Intercept:	0
Slope:	0.545

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.118248	10.0	1724253.0	0.591242	Y
2	IC 410-652703/14	0.5	0.30747	10.0	1709468.0	0.61494	Y
3	IC 410-652703/15	1.0	0.502528	10.0	1726233.0	0.502528	Y
4	IC 410-652703/16	2.0	0.961489	10.0	1782828.0	0.480745	Y
5	IC 410-652703/17	5.0	2.766553	10.0	1764929.0	0.553311	Y
6	ICIS 410-652703/18	10.0	5.25975	10.0	1784969.0	0.525975	Y
7	IC 410-652703/19	25.0	13.651865	10.0	1791241.0	0.546075	Y



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Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

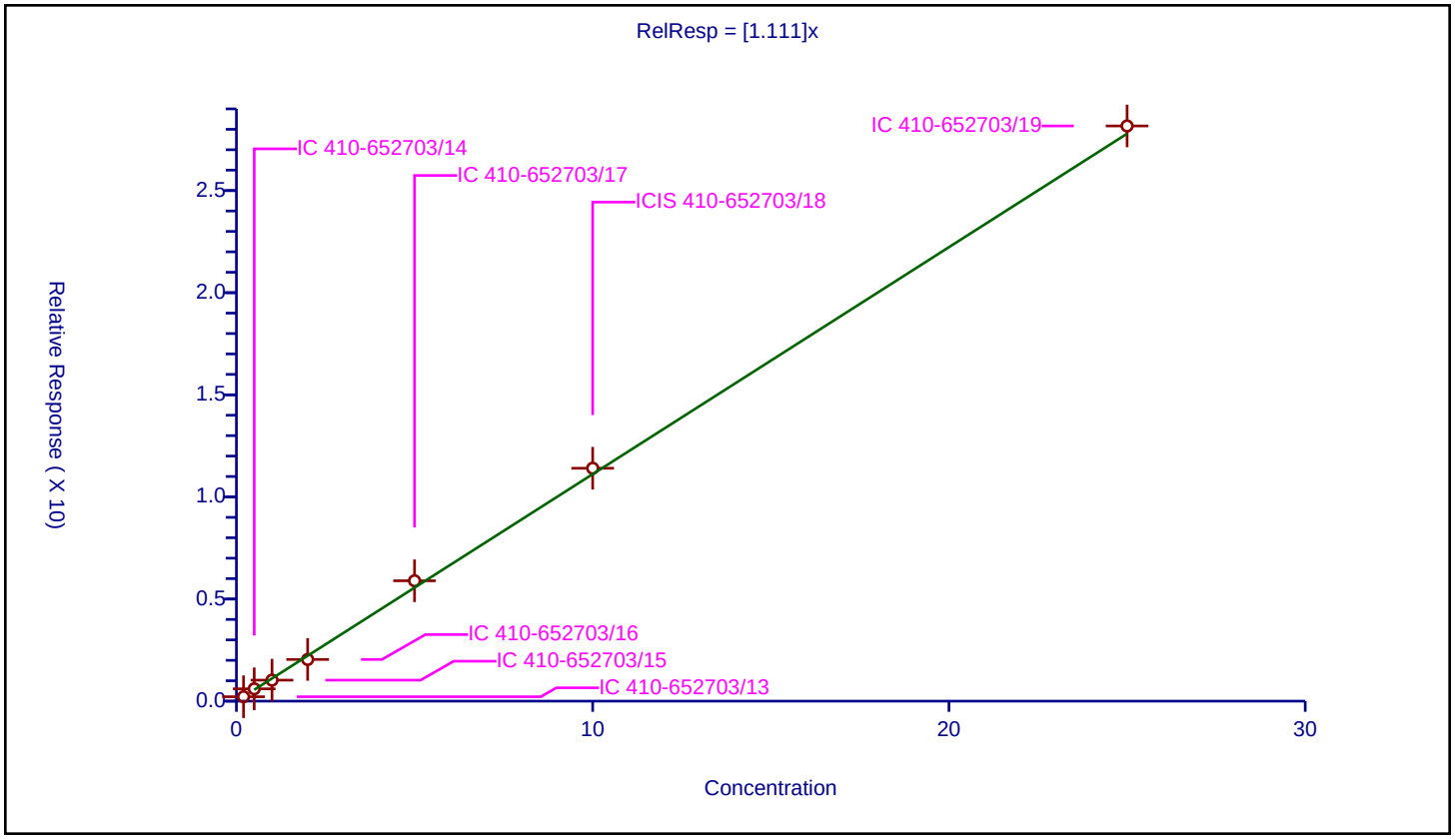
Curve Coefficients

Intercept:	0
Slope:	1.111

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.215566	10.0	1724253.0	1.077829	Y
2	IC 410-652703/14	0.5	0.603761	10.0	1709468.0	1.207522	Y
3	IC 410-652703/15	1.0	1.0281	10.0	1726233.0	1.0281	Y
4	IC 410-652703/16	2.0	2.041453	10.0	1782828.0	1.020727	Y
5	IC 410-652703/17	5.0	5.893586	10.0	1764929.0	1.178717	Y
6	ICIS 410-652703/18	10.0	11.404641	10.0	1784969.0	1.140464	Y
7	IC 410-652703/19	25.0	28.163474	10.0	1791241.0	1.126539	Y



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Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

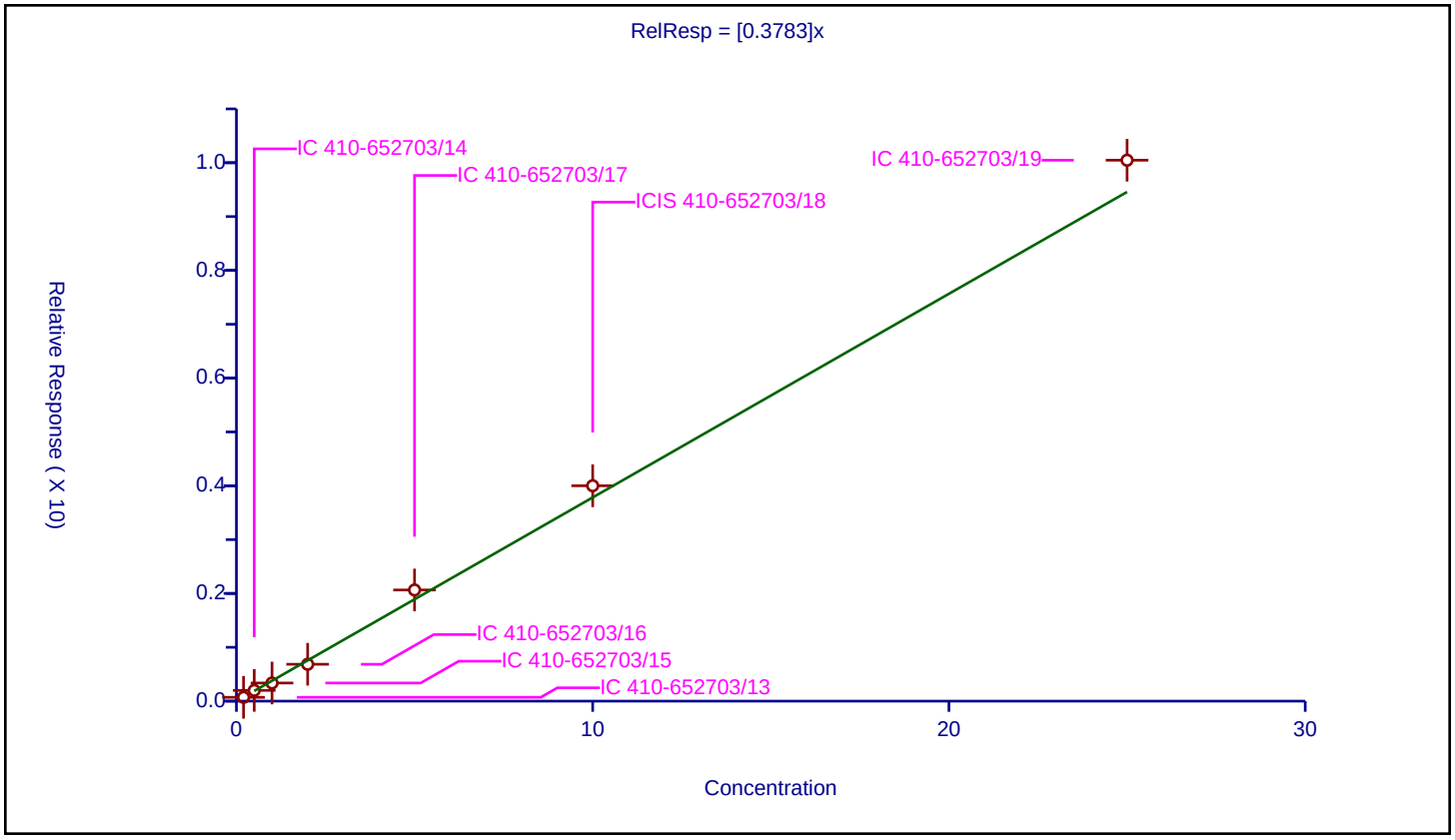
Curve Coefficients

Intercept:	0
Slope:	0.3783

Error Coefficients

Relative Standard Deviation:	8.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.071039	10.0	1724253.0	0.355197	Y
2	IC 410-652703/14	0.5	0.199512	10.0	1709468.0	0.399025	Y
3	IC 410-652703/15	1.0	0.336559	10.0	1726233.0	0.336559	Y
4	IC 410-652703/16	2.0	0.684805	10.0	1782828.0	0.342403	Y
5	IC 410-652703/17	5.0	2.064763	10.0	1764929.0	0.412953	Y
6	ICIS 410-652703/18	10.0	4.000193	10.0	1784969.0	0.400019	Y
7	IC 410-652703/19	25.0	10.046532	10.0	1791241.0	0.401861	Y



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Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

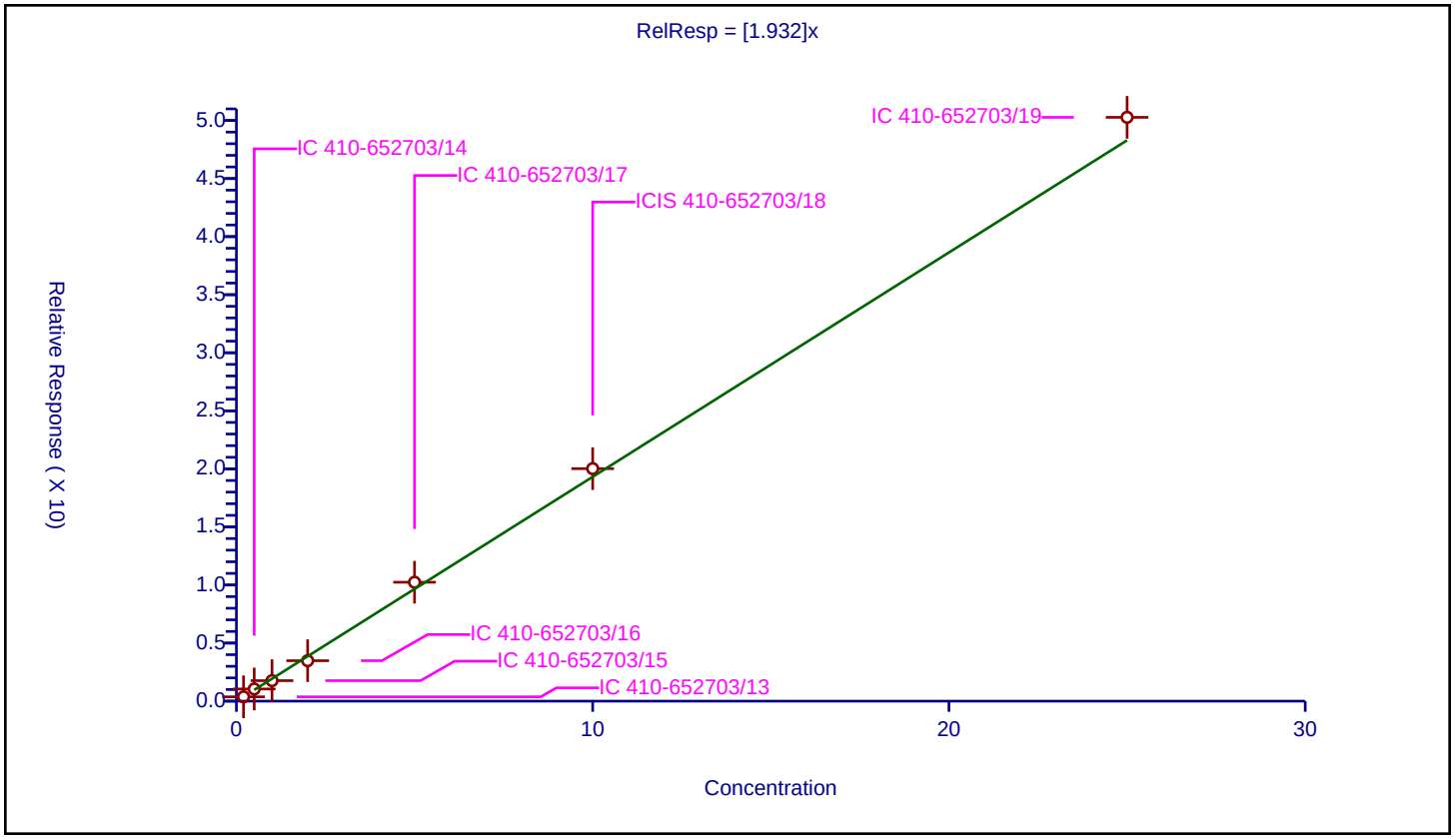
Curve Coefficients

Intercept:	0
Slope:	1.932

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.372544	10.0	1724253.0	1.86272	Y
2	IC 410-652703/14	0.5	1.046355	10.0	1709468.0	2.09271	Y
3	IC 410-652703/15	1.0	1.764814	10.0	1726233.0	1.764814	Y
4	IC 410-652703/16	2.0	3.482041	10.0	1782828.0	1.74102	Y
5	IC 410-652703/17	5.0	10.239766	10.0	1764929.0	2.047953	Y
6	ICIS 410-652703/18	10.0	20.021121	10.0	1784969.0	2.002112	Y
7	IC 410-652703/19	25.0	50.273994	10.0	1791241.0	2.01096	Y



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Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

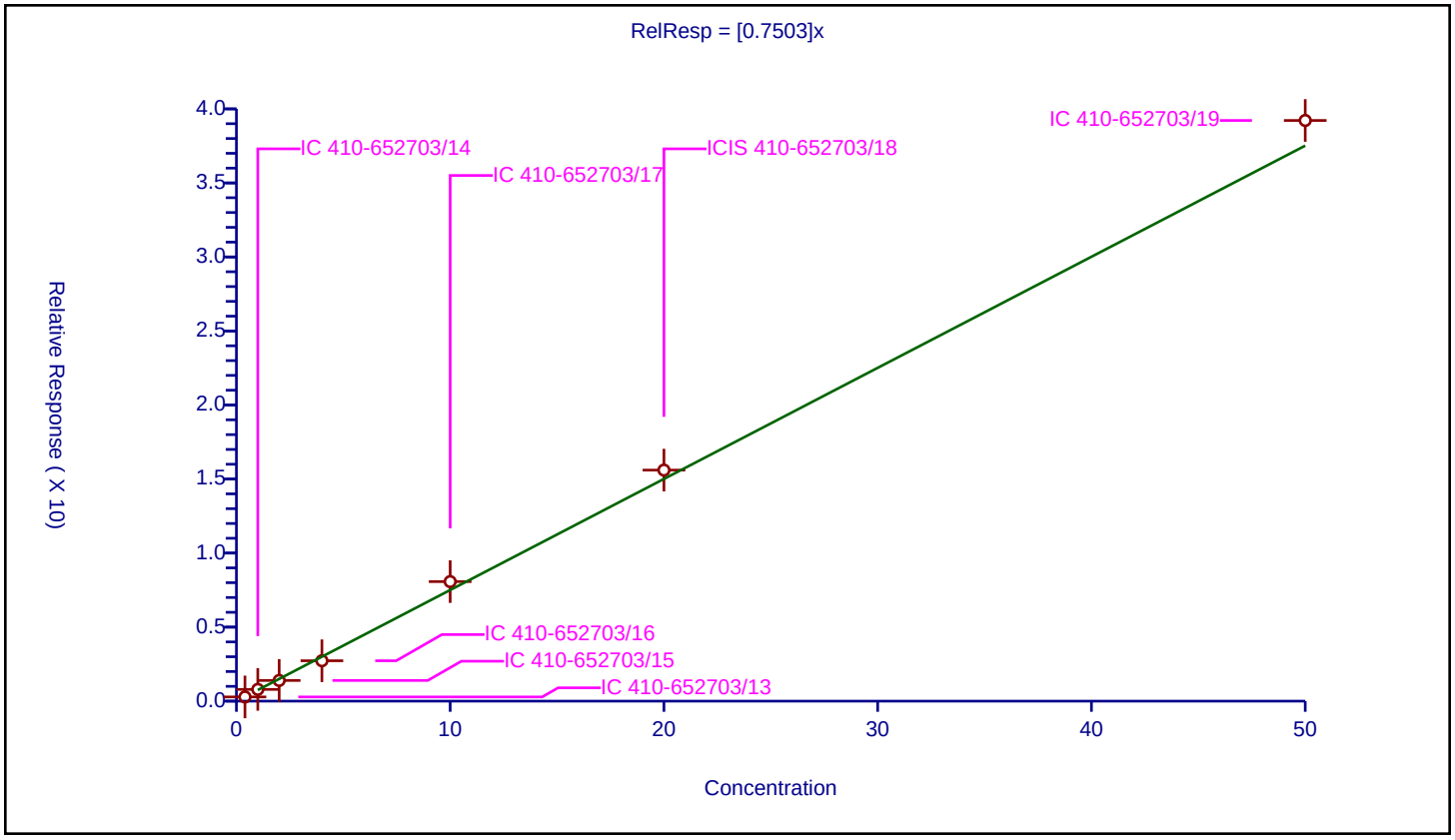
Curve Coefficients

Intercept:	0
Slope:	0.7503

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.4	0.282952	10.0	1724253.0	0.707379	Y
2	IC 410-652703/14	1.0	0.792574	10.0	1709468.0	0.792574	Y
3	IC 410-652703/15	2.0	1.396457	10.0	1726233.0	0.698228	Y
4	IC 410-652703/16	4.0	2.728553	10.0	1782828.0	0.682138	Y
5	IC 410-652703/17	10.0	8.074109	10.0	1764929.0	0.807411	Y
6	ICIS 410-652703/18	20.0	15.603431	10.0	1784969.0	0.780172	Y
7	IC 410-652703/19	50.0	39.217515	10.0	1791241.0	0.78435	Y



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Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

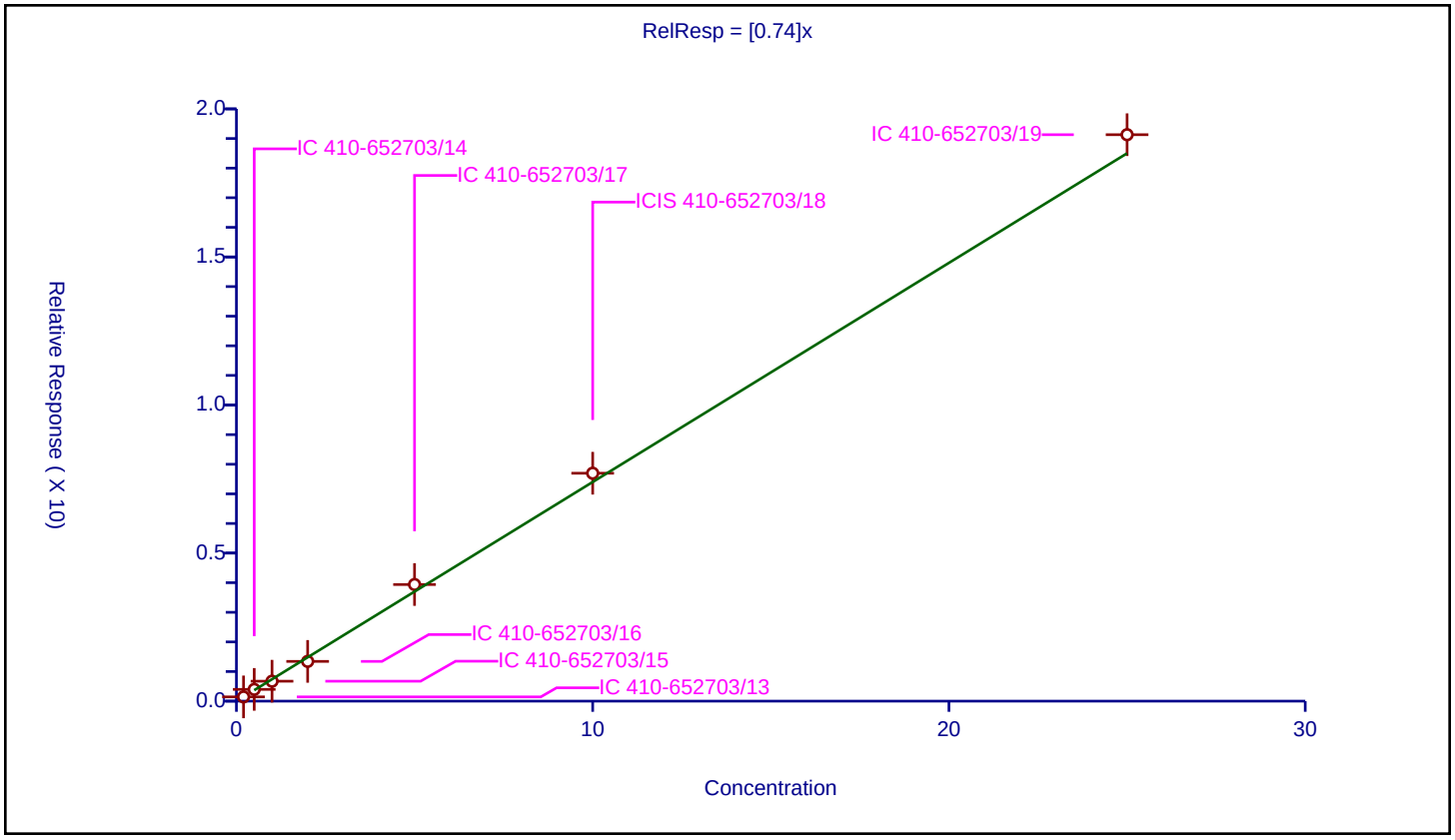
Curve Coefficients

Intercept:	0
Slope:	0.74

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.143714	10.0	1724253.0	0.718572	Y
2	IC 410-652703/14	0.5	0.397322	10.0	1709468.0	0.794645	Y
3	IC 410-652703/15	1.0	0.672916	10.0	1726233.0	0.672916	Y
4	IC 410-652703/16	2.0	1.342625	10.0	1782828.0	0.671313	Y
5	IC 410-652703/17	5.0	3.938323	10.0	1764929.0	0.787665	Y
6	ICIS 410-652703/18	10.0	7.696722	10.0	1784969.0	0.769672	Y
7	IC 410-652703/19	25.0	19.128308	10.0	1791241.0	0.765132	Y



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Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

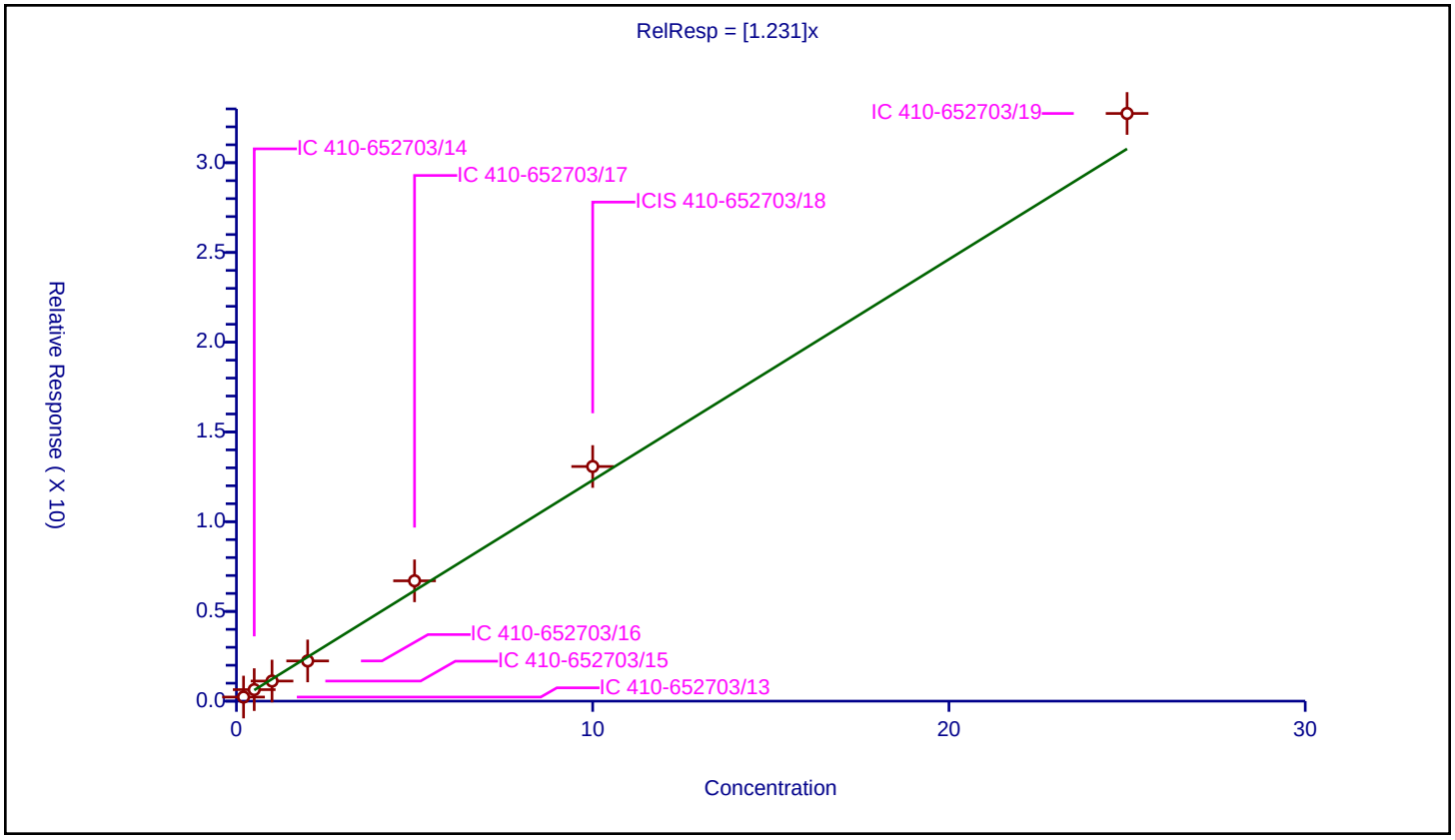
Curve Coefficients

Intercept:	0
Slope:	1.231

Error Coefficients

Relative Standard Deviation:	8.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.227066	10.0	1724253.0	1.135332	Y
2	IC 410-652703/14	0.5	0.642288	10.0	1709468.0	1.284575	Y
3	IC 410-652703/15	1.0	1.119102	10.0	1726233.0	1.119102	Y
4	IC 410-652703/16	2.0	2.239616	10.0	1782828.0	1.119808	Y
5	IC 410-652703/17	5.0	6.703692	10.0	1764929.0	1.340738	Y
6	ICIS 410-652703/18	10.0	13.073863	10.0	1784969.0	1.307386	Y
7	IC 410-652703/19	25.0	32.745275	10.0	1791241.0	1.309811	Y



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Calibration / Bromoform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

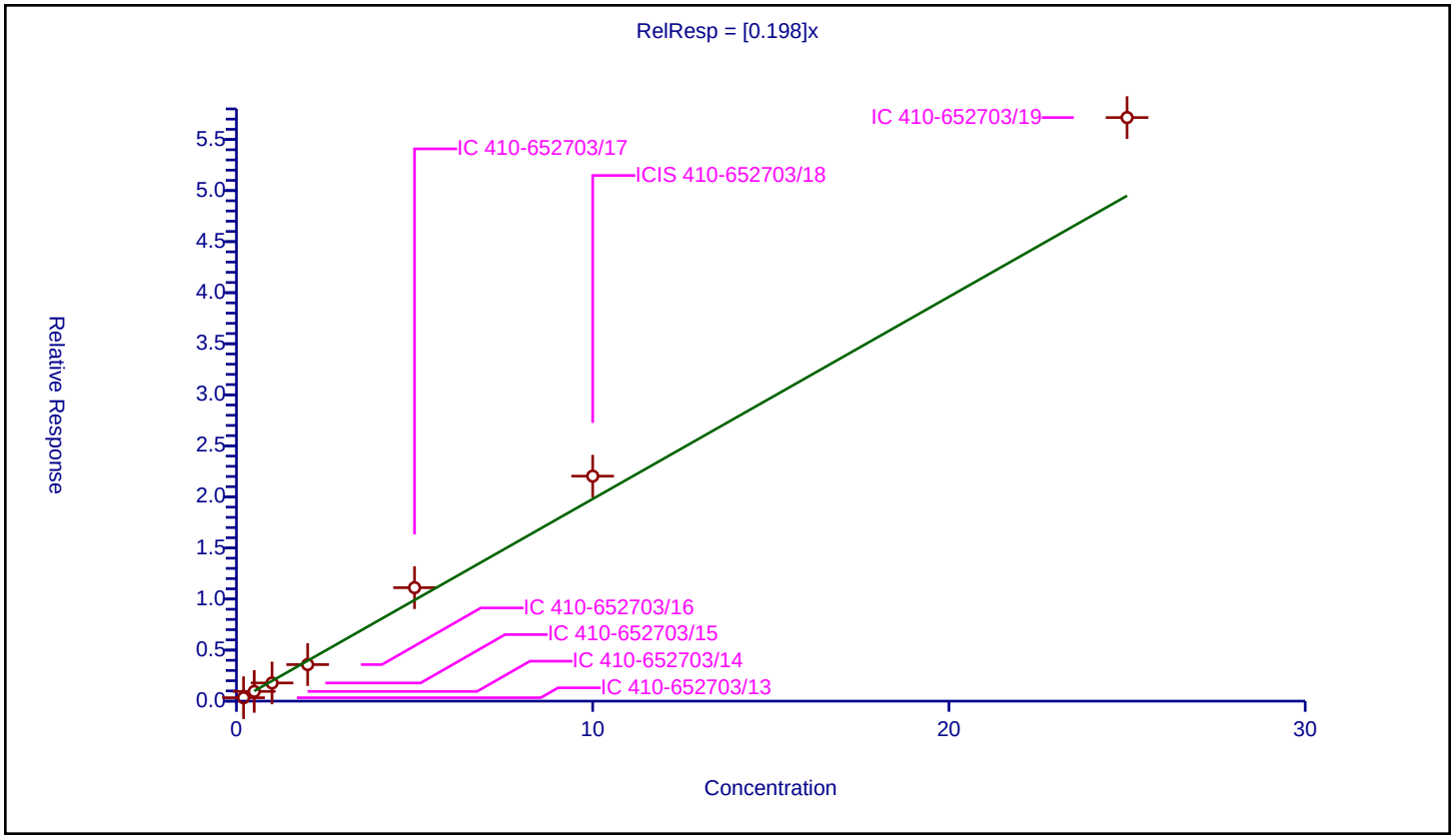
Curve Coefficients

Intercept:	0
Slope:	0.198

Error Coefficients

Relative Standard Deviation:	12.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.033406	10.0	1724253.0	0.167029	Y
2	IC 410-652703/14	0.5	0.095316	10.0	1709468.0	0.190632	Y
3	IC 410-652703/15	1.0	0.178093	10.0	1726233.0	0.178093	Y
4	IC 410-652703/16	2.0	0.357864	10.0	1782828.0	0.178932	Y
5	IC 410-652703/17	5.0	1.111195	10.0	1764929.0	0.222239	Y
6	ICIS 410-652703/18	10.0	2.203456	10.0	1784969.0	0.220346	Y
7	IC 410-652703/19	25.0	5.715088	10.0	1791241.0	0.228604	Y



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Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

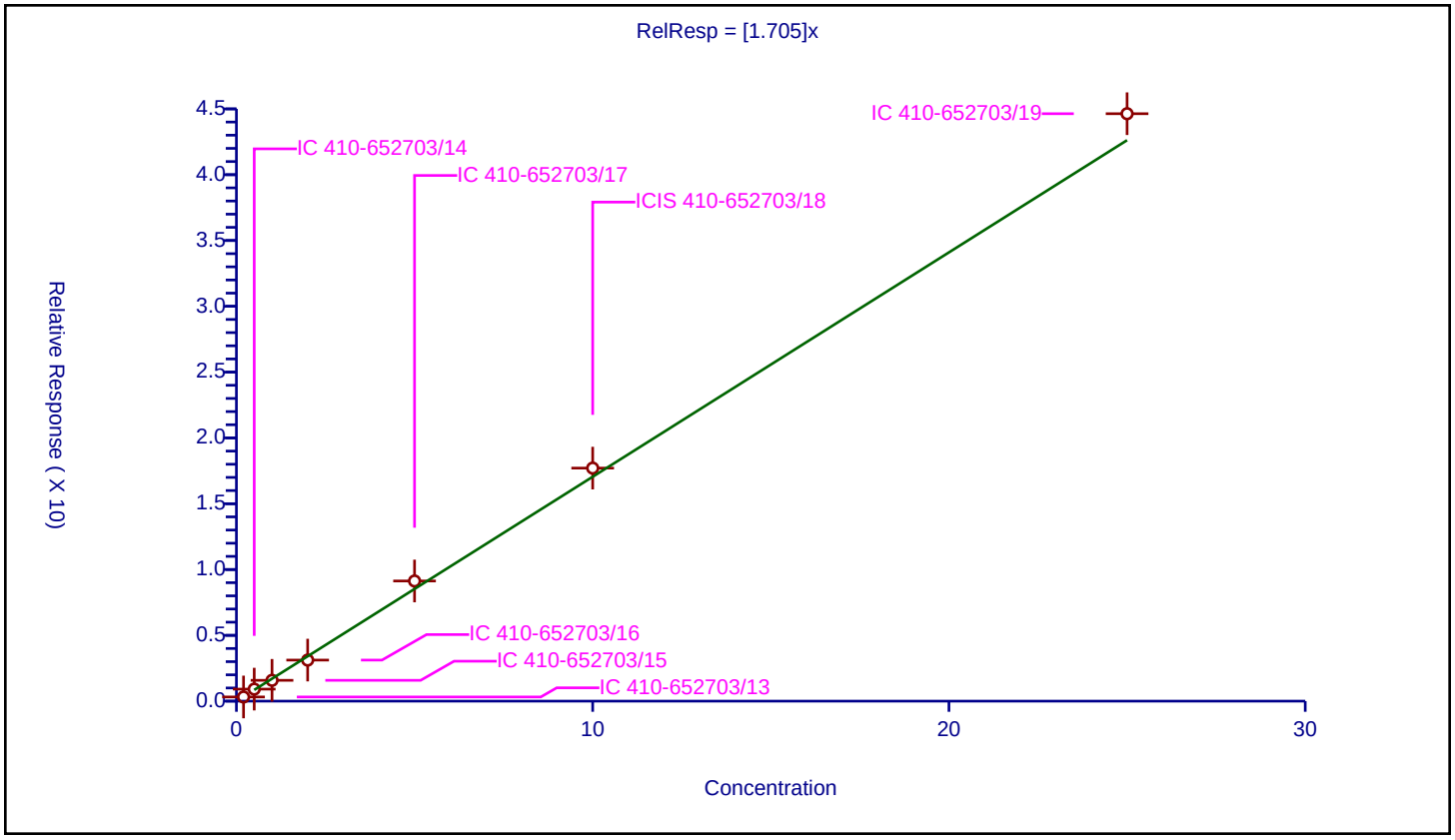
Curve Coefficients

Intercept:	0
Slope:	1.705

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.316444	10.0	1724253.0	1.582221	Y
2	IC 410-652703/14	0.5	0.914407	10.0	1709468.0	1.828815	Y
3	IC 410-652703/15	1.0	1.581218	10.0	1726233.0	1.581218	Y
4	IC 410-652703/16	2.0	3.118747	10.0	1782828.0	1.559374	Y
5	IC 410-652703/17	5.0	9.129767	10.0	1764929.0	1.825953	Y
6	ICIS 410-652703/18	10.0	17.706308	10.0	1784969.0	1.770631	Y
7	IC 410-652703/19	25.0	44.633402	10.0	1791241.0	1.785336	Y



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Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

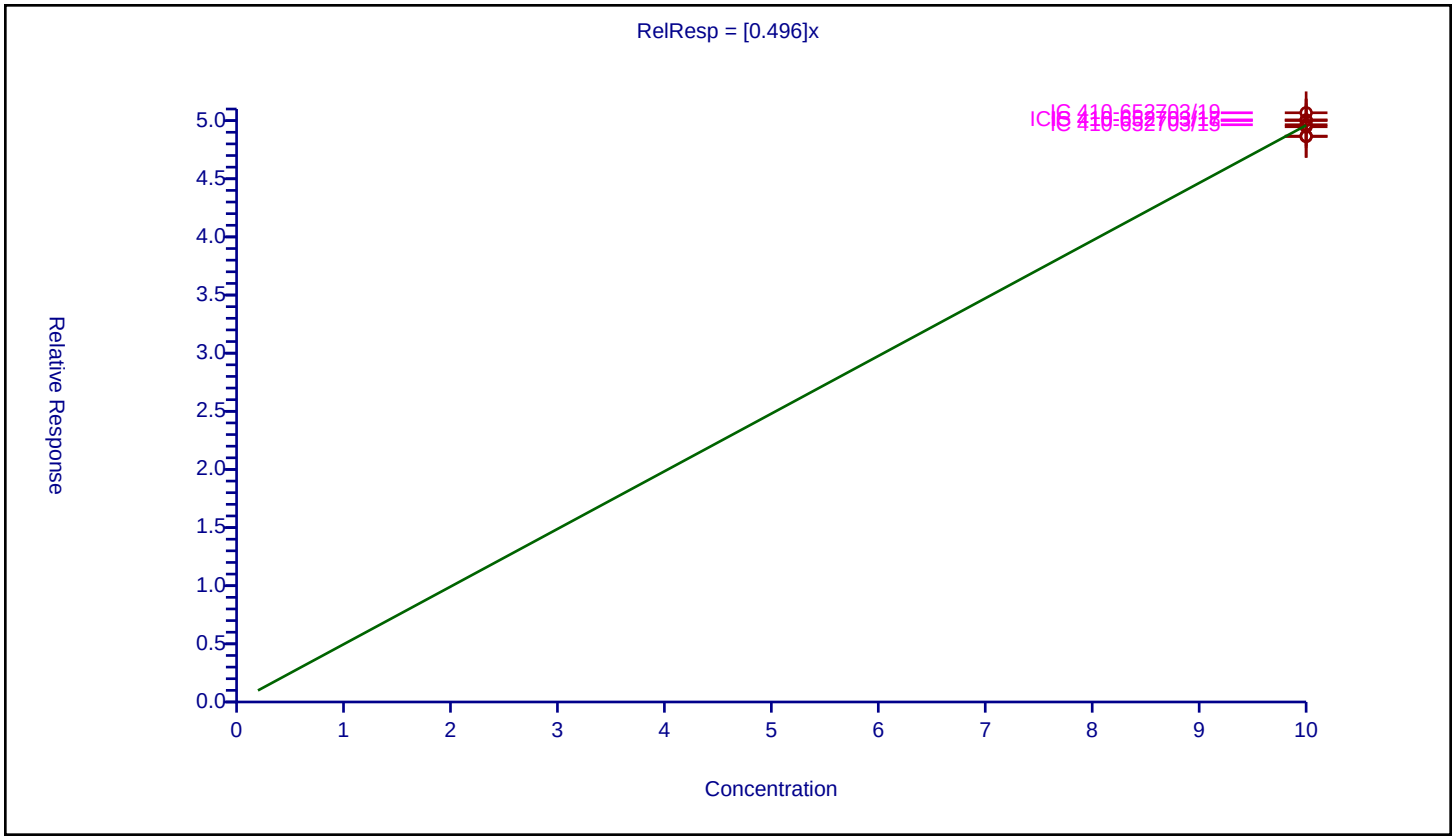
Curve Coefficients

Intercept:	0
Slope:	0.496

Error Coefficients

Relative Standard Deviation:	1.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	10.0	4.866948	10.0	1724253.0	0.486695	Y
2	IC 410-652703/14	10.0	4.86373	10.0	1709468.0	0.486373	Y
3	IC 410-652703/15	10.0	4.964596	10.0	1726233.0	0.49646	Y
4	IC 410-652703/16	10.0	4.947426	10.0	1782828.0	0.494743	Y
5	IC 410-652703/17	10.0	5.006604	10.0	1764929.0	0.50066	Y
6	ICIS 410-652703/18	10.0	5.000832	10.0	1784969.0	0.500083	Y
7	IC 410-652703/19	10.0	5.067593	10.0	1791241.0	0.506759	Y



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Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

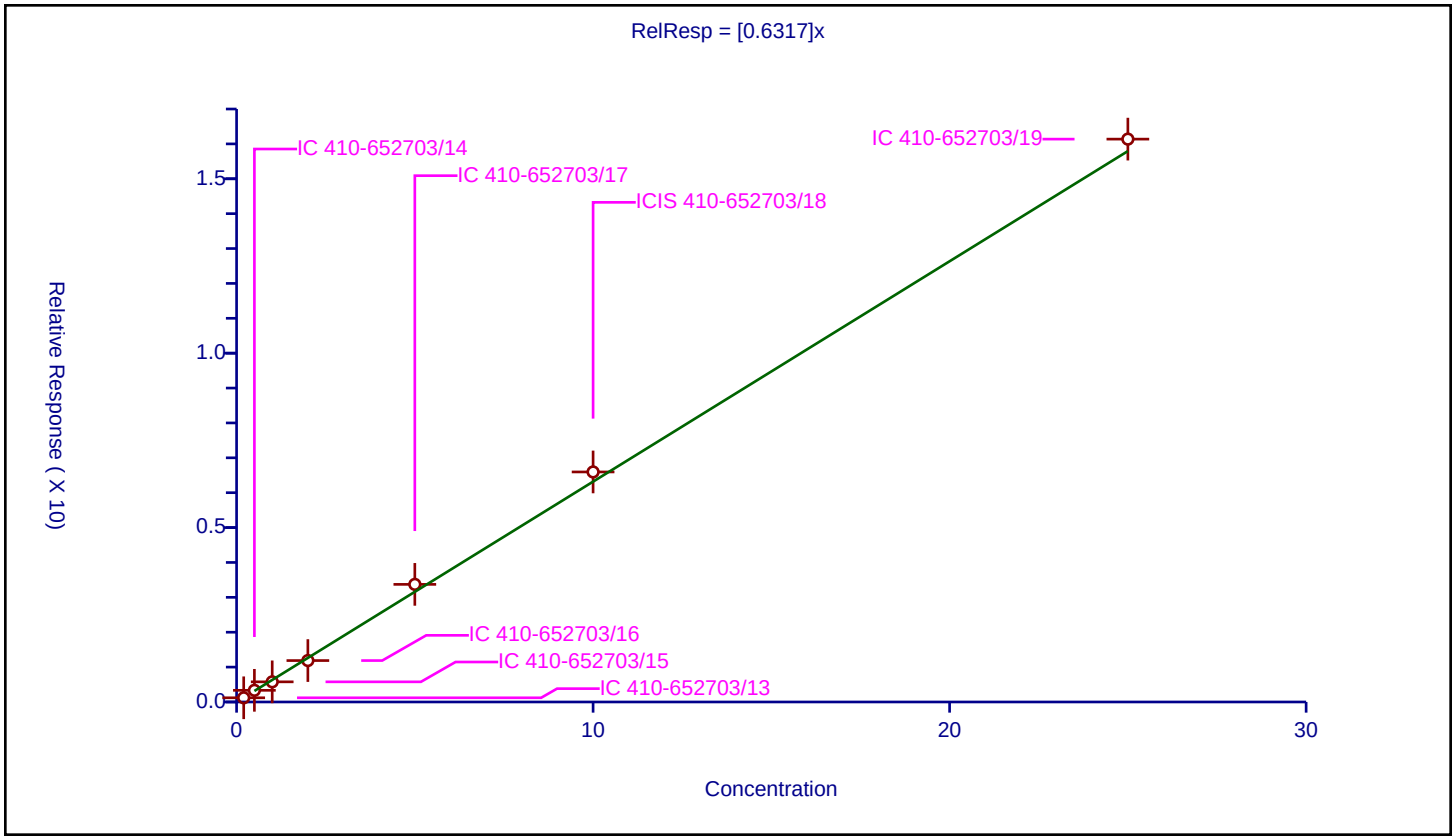
Curve Coefficients

Intercept:	0
Slope:	0.6317

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.120509	10.0	918354.0	0.602545	Y
2	IC 410-652703/14	0.5	0.334211	10.0	903799.0	0.668423	Y
3	IC 410-652703/15	1.0	0.577746	10.0	939357.0	0.577746	Y
4	IC 410-652703/16	2.0	1.187998	10.0	968209.0	0.593999	Y
5	IC 410-652703/17	5.0	3.371961	10.0	982114.0	0.674392	Y
6	ICIS 410-652703/18	10.0	6.59503	10.0	997762.0	0.659503	Y
7	IC 410-652703/19	25.0	16.13696	10.0	1035762.0	0.645478	Y



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Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

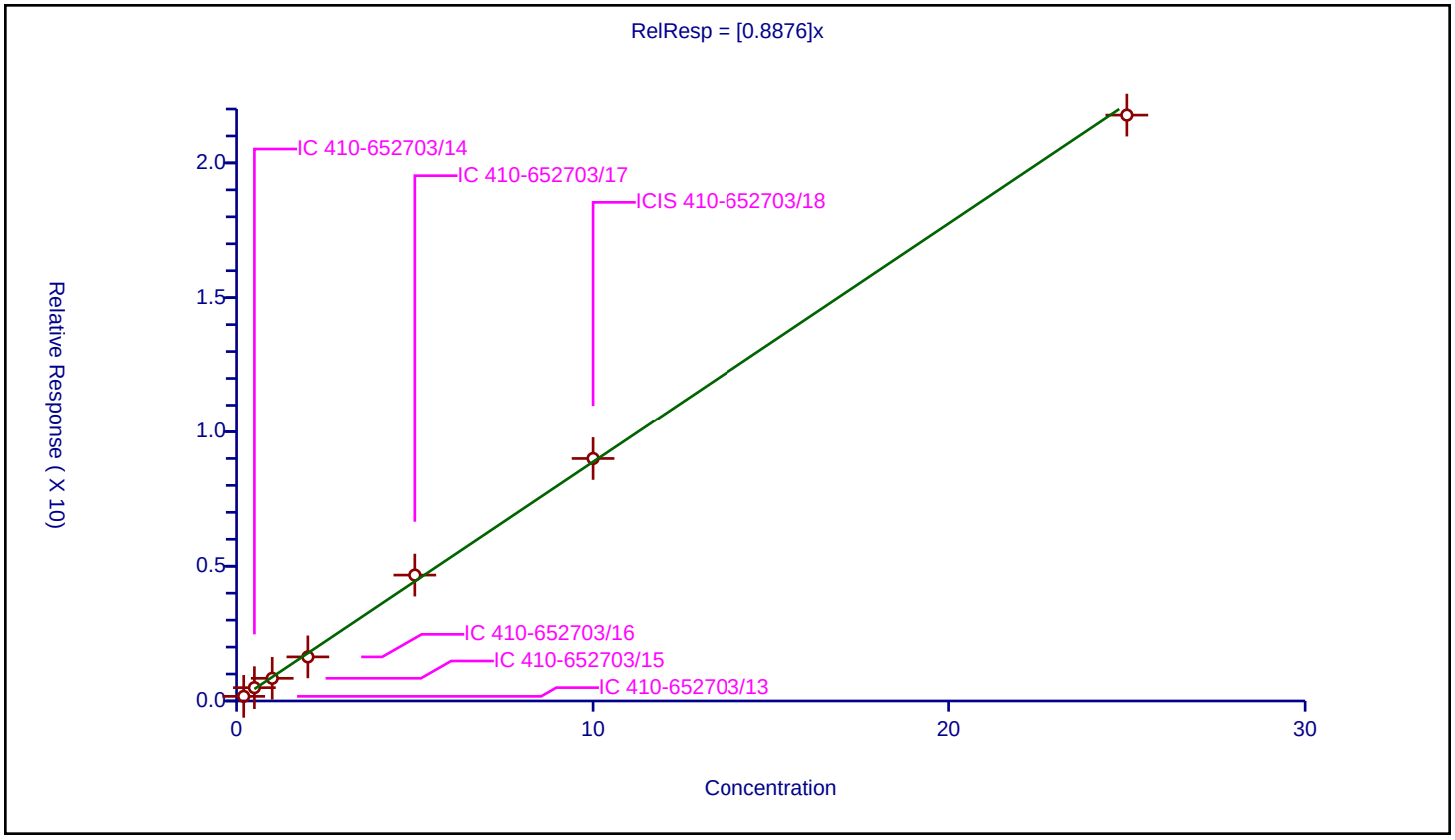
Curve Coefficients

Intercept:	0
Slope:	0.8876

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.17196	10.0	918354.0	0.859799	Y
2	IC 410-652703/14	0.5	0.494656	10.0	903799.0	0.989313	Y
3	IC 410-652703/15	1.0	0.841256	10.0	939357.0	0.841256	Y
4	IC 410-652703/16	2.0	1.635556	10.0	968209.0	0.817778	Y
5	IC 410-652703/17	5.0	4.670924	10.0	982114.0	0.934185	Y
6	ICIS 410-652703/18	10.0	8.998549	10.0	997762.0	0.899855	Y
7	IC 410-652703/19	25.0	21.774761	10.0	1035762.0	0.87099	Y



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Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

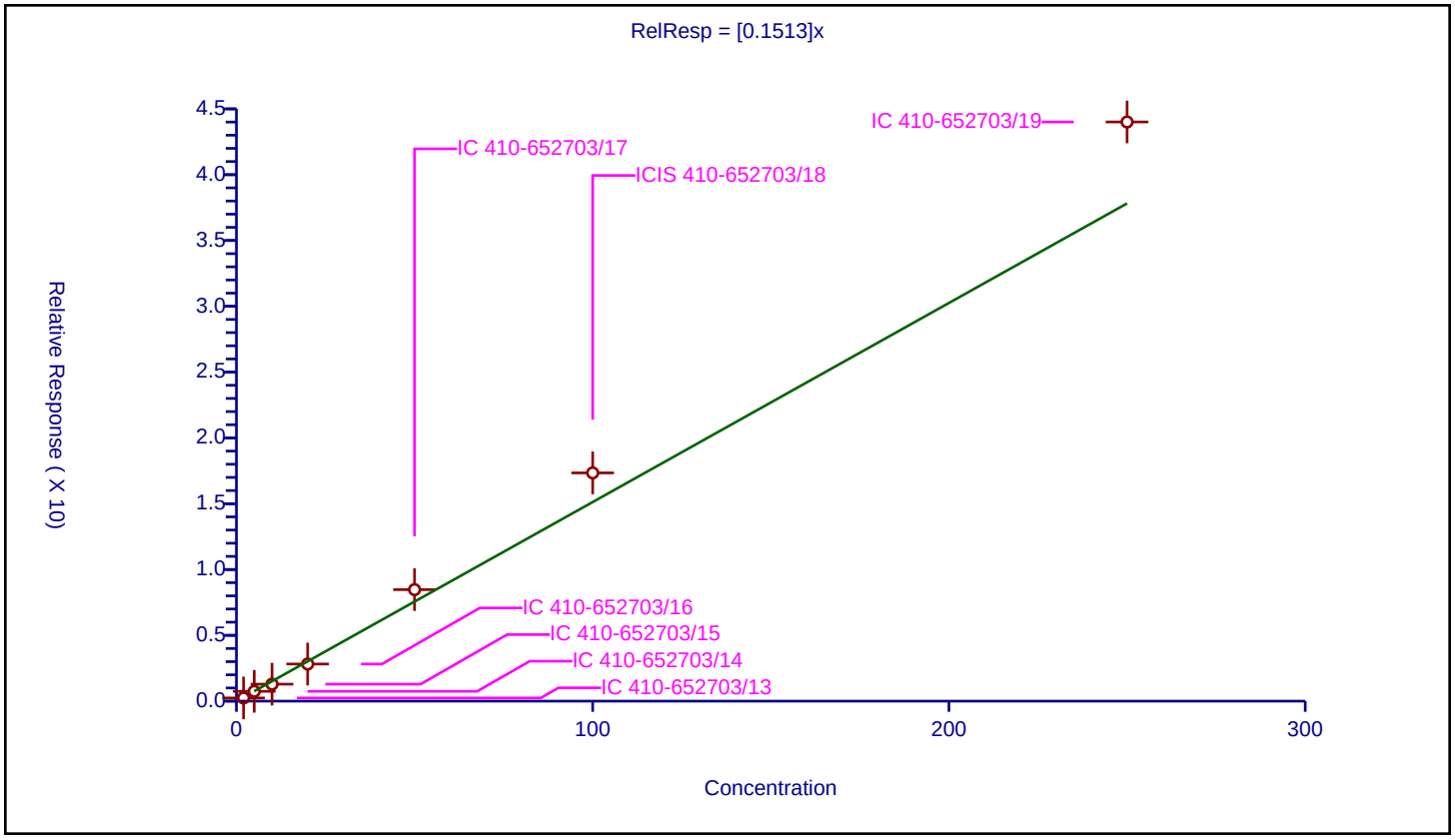
Curve Coefficients

Intercept:	0
Slope:	0.1513

Error Coefficients

Relative Standard Deviation:	14.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	2.0	0.241421	10.0	918354.0	0.120711	Y
2	IC 410-652703/14	5.0	0.746051	10.0	903799.0	0.14921	Y
3	IC 410-652703/15	10.0	1.290564	10.0	939357.0	0.129056	Y
4	IC 410-652703/16	20.0	2.820341	10.0	968209.0	0.141017	Y
5	IC 410-652703/17	50.0	8.472041	10.0	982114.0	0.169441	Y
6	ICIS 410-652703/18	100.0	17.342673	10.0	997762.0	0.173427	Y
7	IC 410-652703/19	250.0	44.006944	10.0	1035762.0	0.176028	Y



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Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

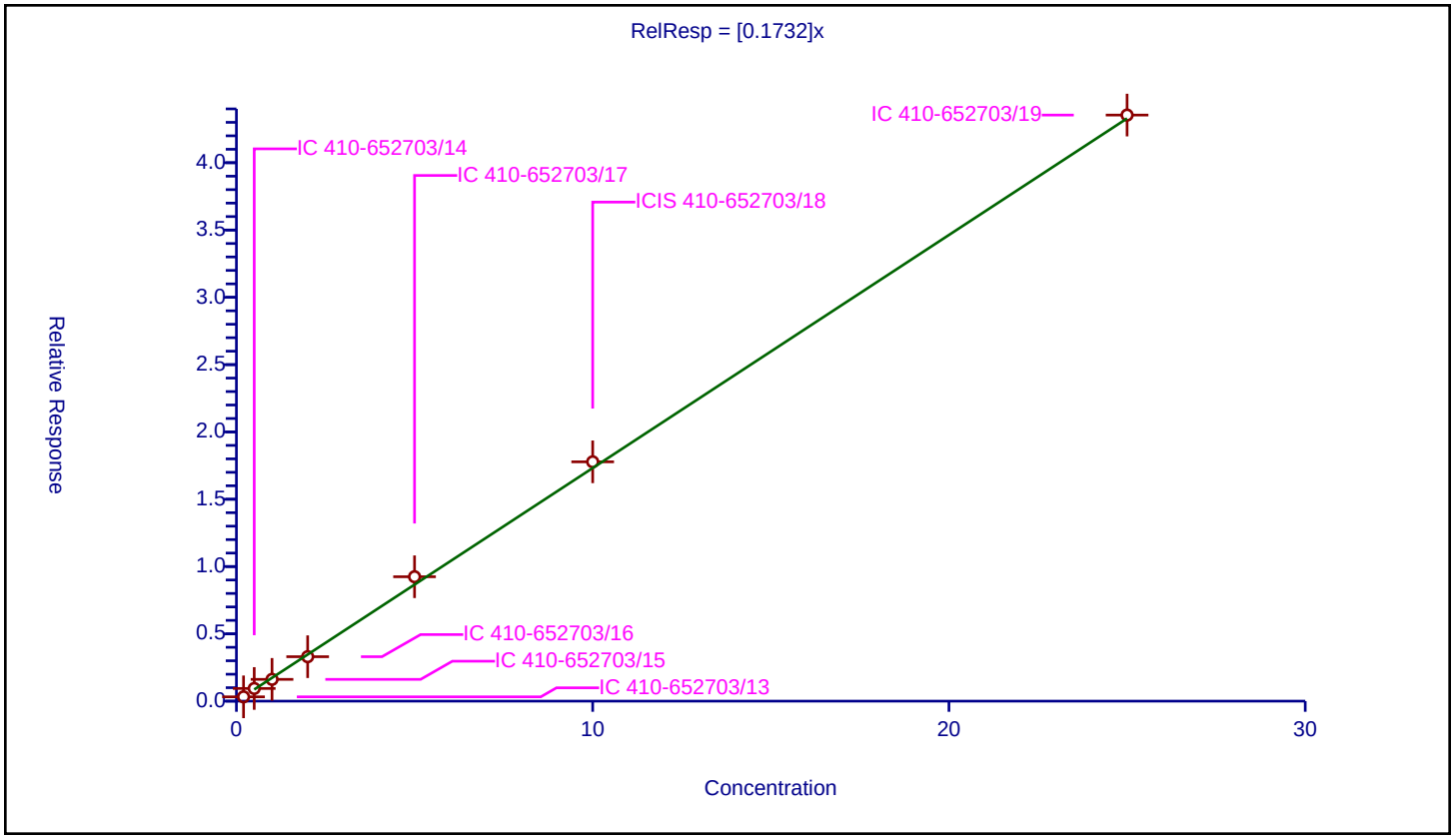
Curve Coefficients

Intercept:	0
Slope:	0.1732

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.032025	10.0	918354.0	0.160123	Y
2	IC 410-652703/14	0.5	0.09418	10.0	903799.0	0.18836	Y
3	IC 410-652703/15	1.0	0.161792	10.0	939357.0	0.161792	Y
4	IC 410-652703/16	2.0	0.330166	10.0	968209.0	0.165083	Y
5	IC 410-652703/17	5.0	0.924221	10.0	982114.0	0.184844	Y
6	ICIS 410-652703/18	10.0	1.777889	10.0	997762.0	0.177789	Y
7	IC 410-652703/19	25.0	4.354041	10.0	1035762.0	0.174162	Y



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Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

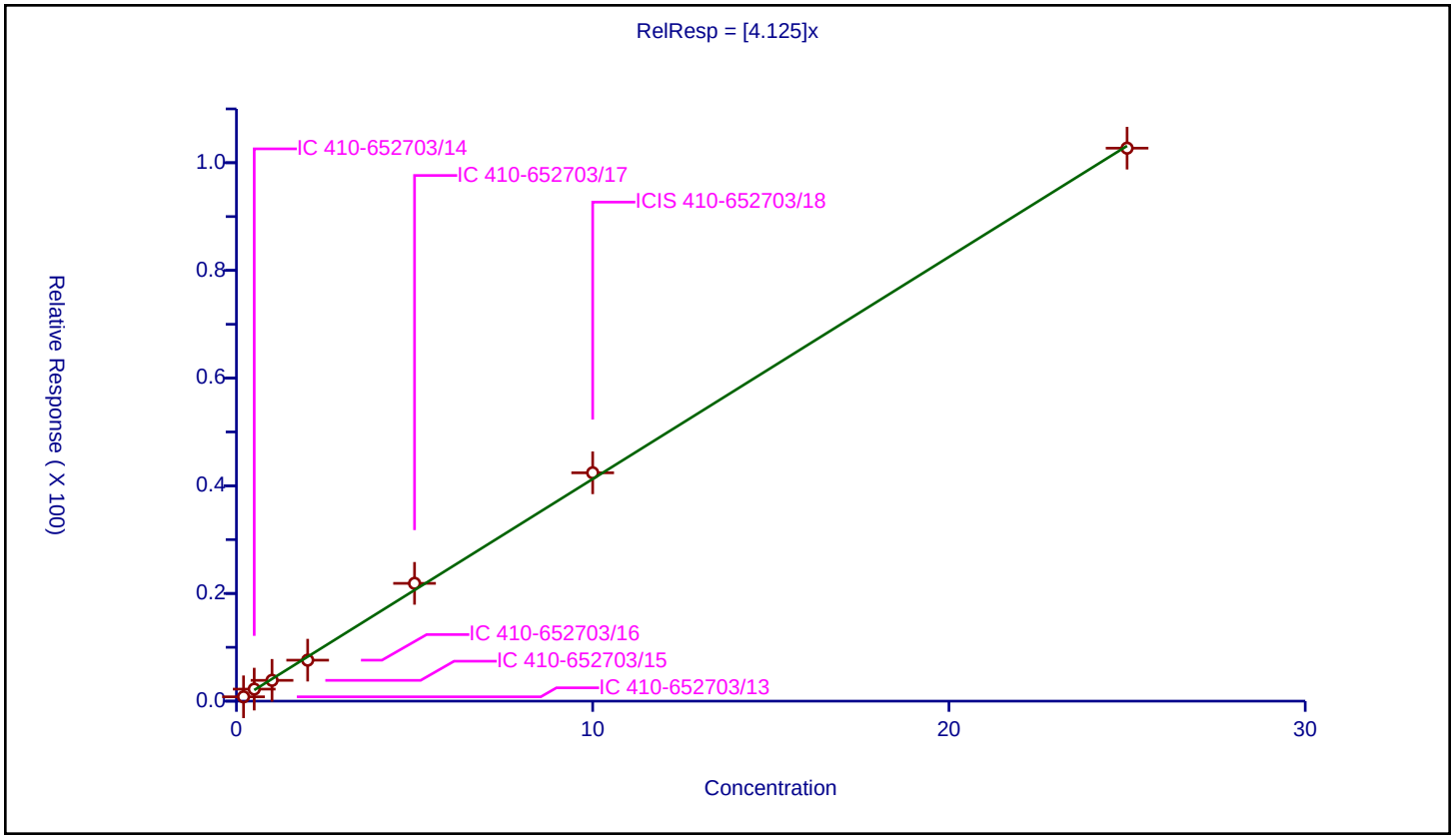
Curve Coefficients

Intercept:	0
Slope:	4.125

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.803339	10.0	918354.0	4.016697	Y
2	IC 410-652703/14	0.5	2.234291	10.0	903799.0	4.468582	Y
3	IC 410-652703/15	1.0	3.861812	10.0	939357.0	3.861812	Y
4	IC 410-652703/16	2.0	7.610237	10.0	968209.0	3.805119	Y
5	IC 410-652703/17	5.0	21.875556	10.0	982114.0	4.375111	Y
6	ICIS 410-652703/18	10.0	42.410144	10.0	997762.0	4.241014	Y
7	IC 410-652703/19	25.0	102.71014	10.0	1035762.0	4.108406	Y



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Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

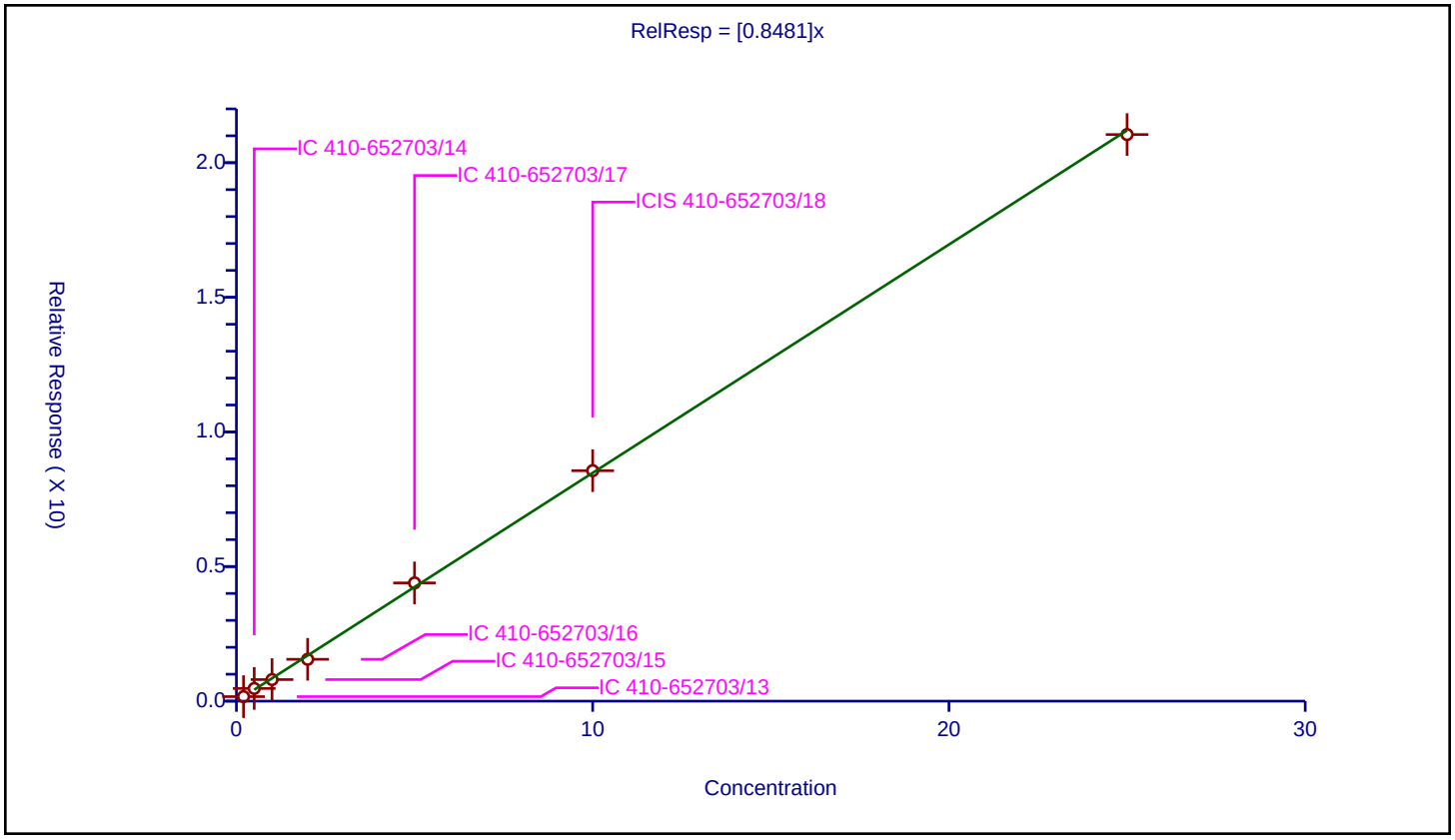
Curve Coefficients

Intercept:	0
Slope:	0.8481

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.167822	10.0	918354.0	0.83911	Y
2	IC 410-652703/14	0.5	0.471322	10.0	903799.0	0.942643	Y
3	IC 410-652703/15	1.0	0.80124	10.0	939357.0	0.80124	Y
4	IC 410-652703/16	2.0	1.554148	10.0	968209.0	0.777074	Y
5	IC 410-652703/17	5.0	4.391425	10.0	982114.0	0.878285	Y
6	ICIS 410-652703/18	10.0	8.561451	10.0	997762.0	0.856145	Y
7	IC 410-652703/19	25.0	21.046572	10.0	1035762.0	0.841863	Y



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Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

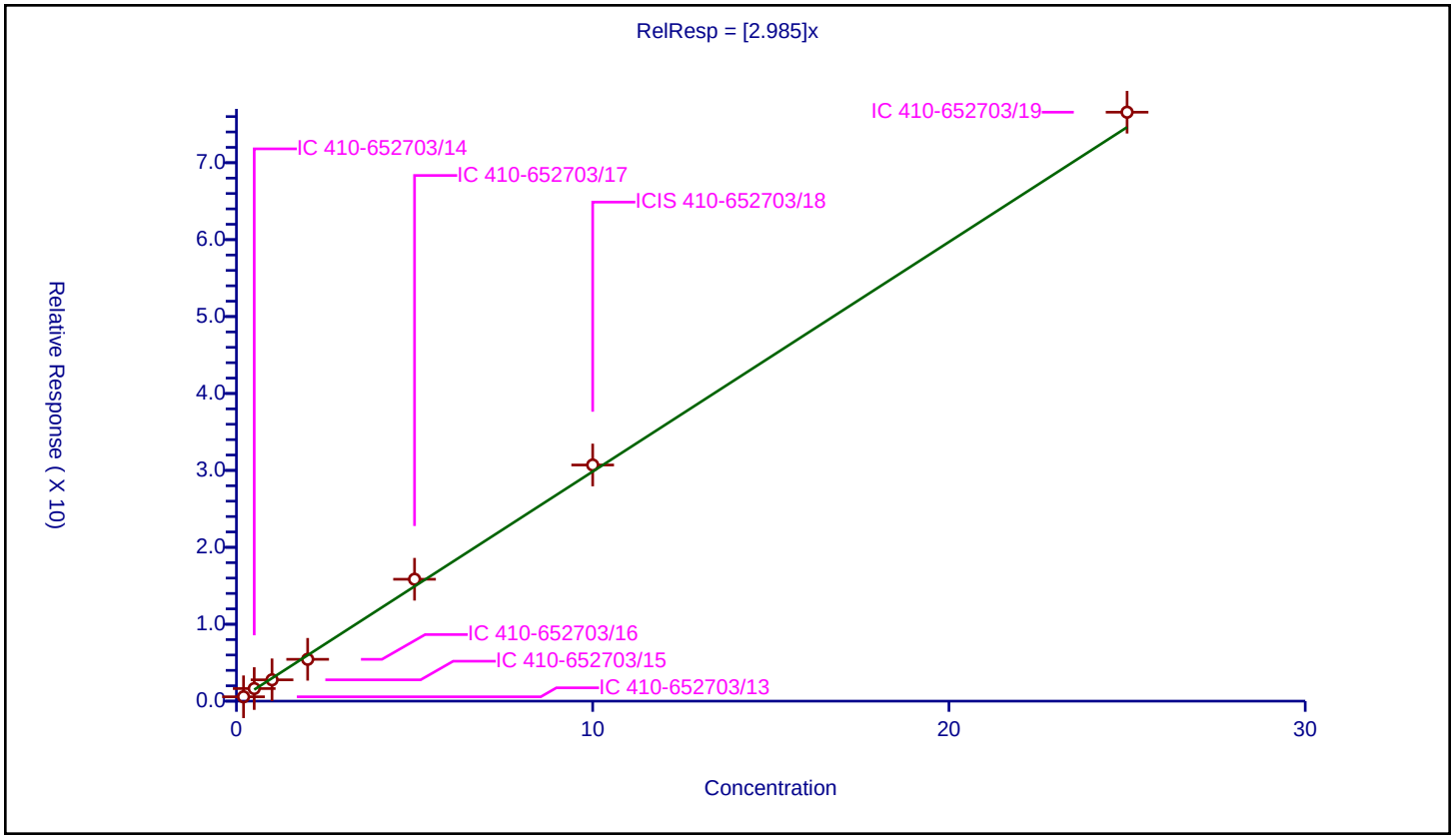
Curve Coefficients

Intercept:	0
Slope:	2.985

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.565621	10.0	918354.0	2.828103	Y
2	IC 410-652703/14	0.5	1.636525	10.0	903799.0	3.273051	Y
3	IC 410-652703/15	1.0	2.770714	10.0	939357.0	2.770714	Y
4	IC 410-652703/16	2.0	5.439642	10.0	968209.0	2.719821	Y
5	IC 410-652703/17	5.0	15.846725	10.0	982114.0	3.169345	Y
6	ICIS 410-652703/18	10.0	30.701771	10.0	997762.0	3.070177	Y
7	IC 410-652703/19	25.0	76.571896	10.0	1035762.0	3.062876	Y



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Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

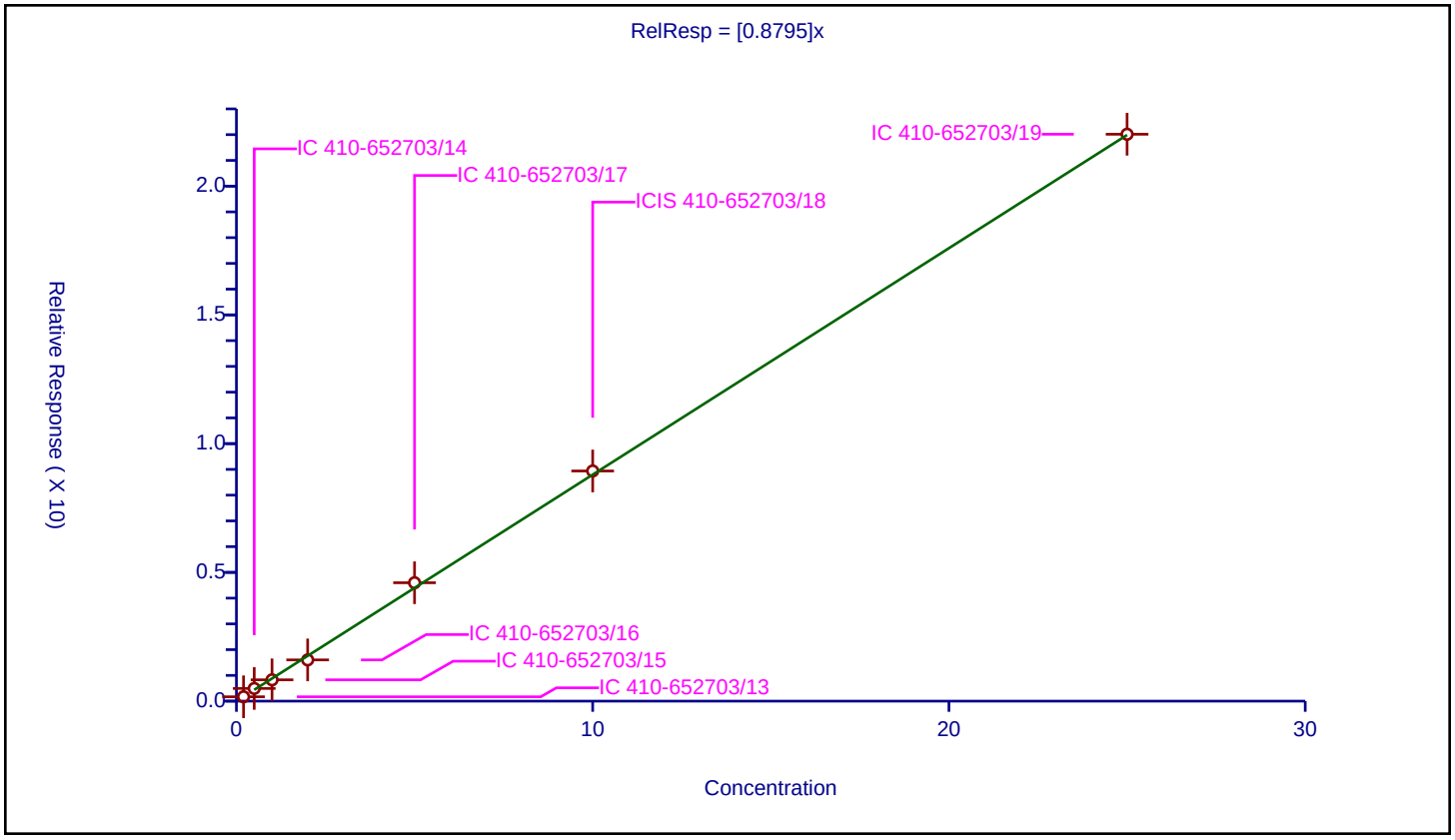
Curve Coefficients

Intercept:	0
Slope:	0.8795

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.169575	10.0	918354.0	0.847876	Y
2	IC 410-652703/14	0.5	0.492897	10.0	903799.0	0.985794	Y
3	IC 410-652703/15	1.0	0.827822	10.0	939357.0	0.827822	Y
4	IC 410-652703/16	2.0	1.602175	10.0	968209.0	0.801087	Y
5	IC 410-652703/17	5.0	4.597766	10.0	982114.0	0.919553	Y
6	ICIS 410-652703/18	10.0	8.938685	10.0	997762.0	0.893868	Y
7	IC 410-652703/19	25.0	22.015212	10.0	1035762.0	0.880608	Y



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Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

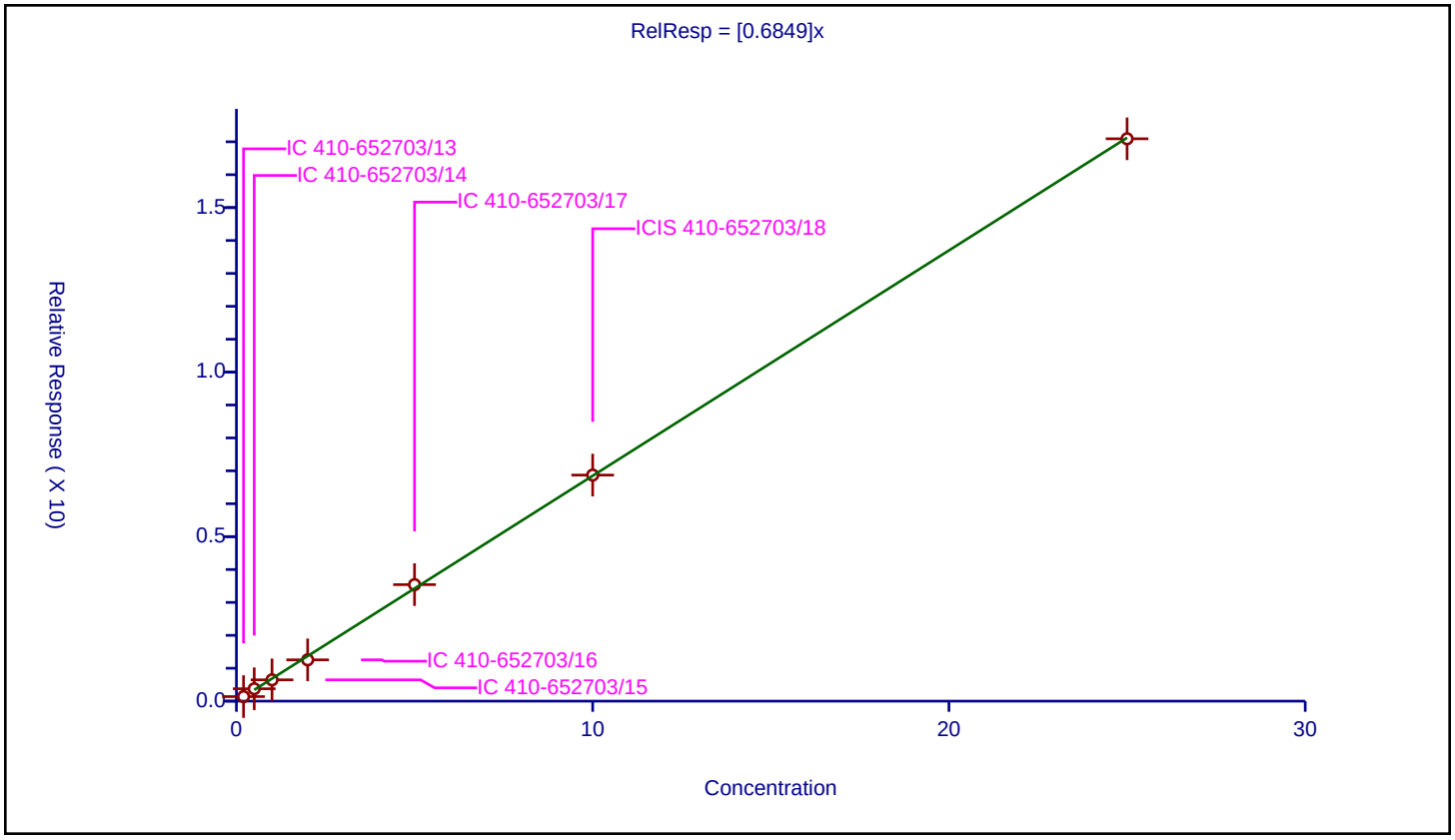
Curve Coefficients

Intercept:	0
Slope:	0.6849

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.137823	10.0	918354.0	0.689113	Y
2	IC 410-652703/14	0.5	0.37567	10.0	903799.0	0.75134	Y
3	IC 410-652703/15	1.0	0.647507	10.0	939357.0	0.647507	Y
4	IC 410-652703/16	2.0	1.255328	10.0	968209.0	0.627664	Y
5	IC 410-652703/17	5.0	3.540872	10.0	982114.0	0.708174	Y
6	ICIS 410-652703/18	10.0	6.870556	10.0	997762.0	0.687056	Y
7	IC 410-652703/19	25.0	17.091668	10.0	1035762.0	0.683667	Y



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Calibration / Pentachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

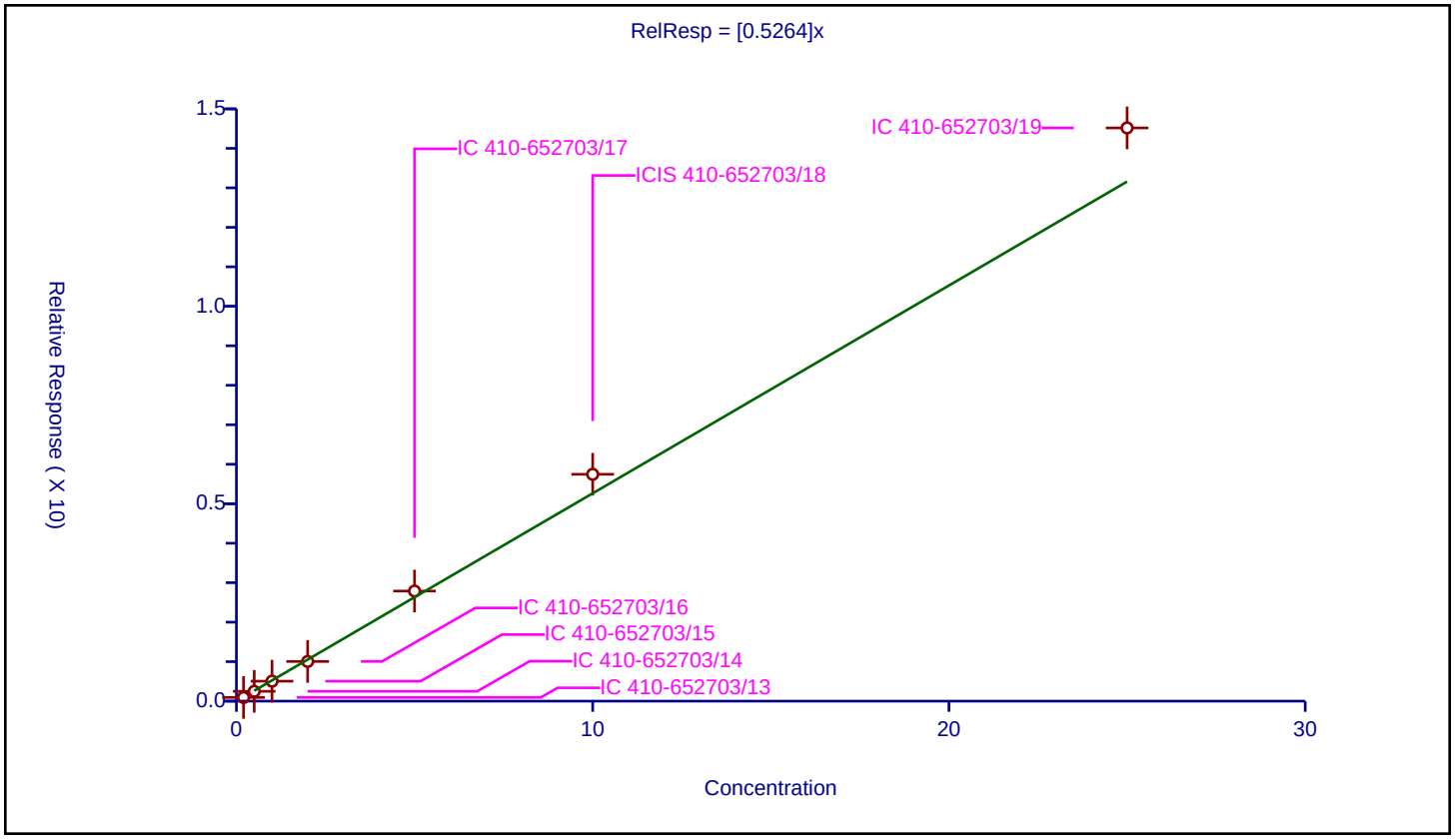
Curve Coefficients

Intercept:	0
Slope:	0.5264

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.093199	10.0	918354.0	0.465997	Y
2	IC 410-652703/14	0.5	0.24875	10.0	903799.0	0.4975	Y
3	IC 410-652703/15	1.0	0.50558	10.0	939357.0	0.50558	Y
4	IC 410-652703/16	2.0	1.004969	10.0	968209.0	0.502484	Y
5	IC 410-652703/17	5.0	2.78821	10.0	982114.0	0.557642	Y
6	ICIS 410-652703/18	10.0	5.745589	10.0	997762.0	0.574559	Y
7	IC 410-652703/19	25.0	14.517891	10.0	1035762.0	0.580716	Y



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Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

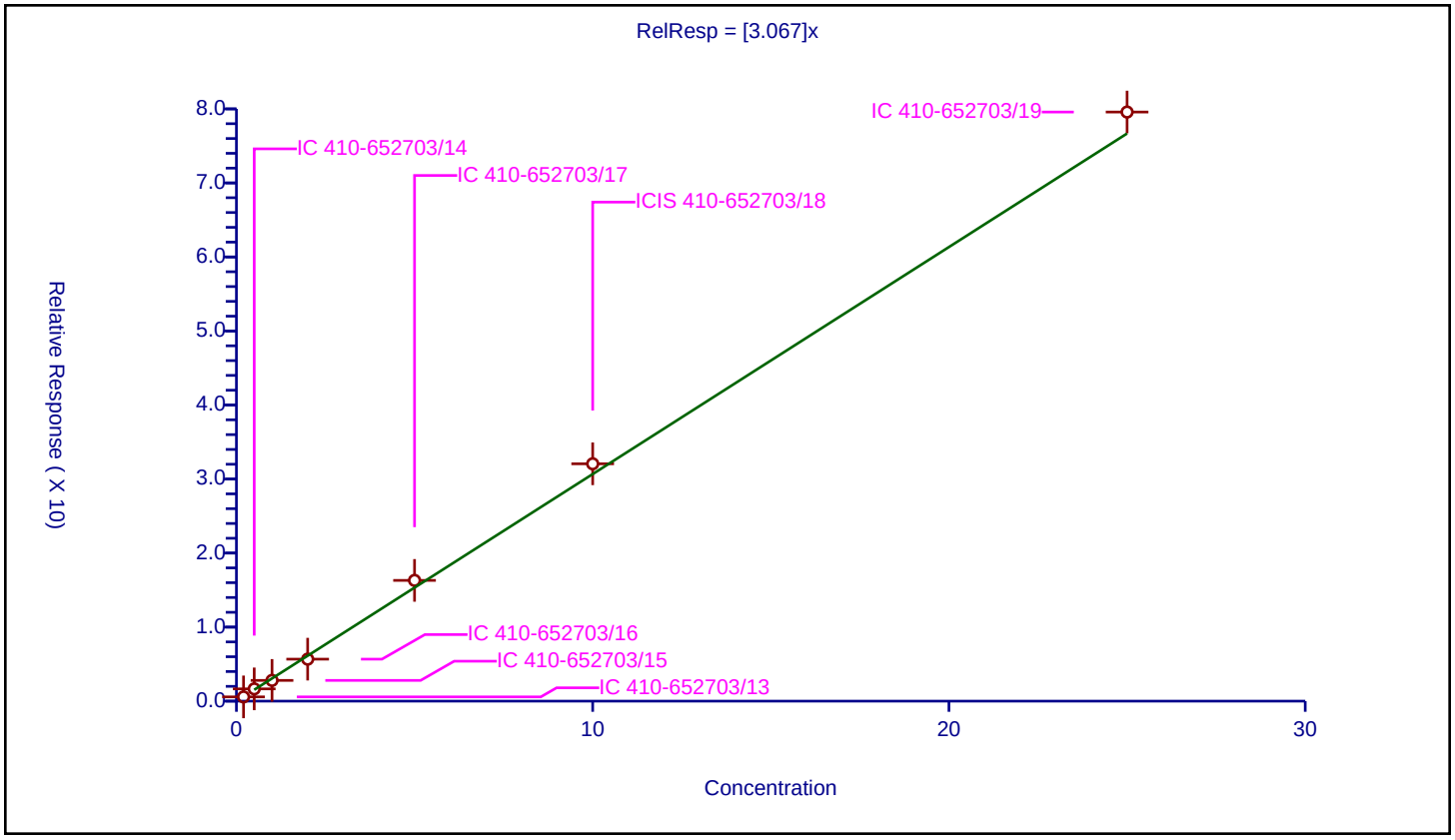
Curve Coefficients

Intercept:	0
Slope:	3.067

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.573189	10.0	918354.0	2.865943	Y
2	IC 410-652703/14	0.5	1.657183	10.0	903799.0	3.314365	Y
3	IC 410-652703/15	1.0	2.802098	10.0	939357.0	2.802098	Y
4	IC 410-652703/16	2.0	5.671141	10.0	968209.0	2.835571	Y
5	IC 410-652703/17	5.0	16.309237	10.0	982114.0	3.261847	Y
6	ICIS 410-652703/18	10.0	32.060471	10.0	997762.0	3.206047	Y
7	IC 410-652703/19	25.0	79.575124	10.0	1035762.0	3.183005	Y



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Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

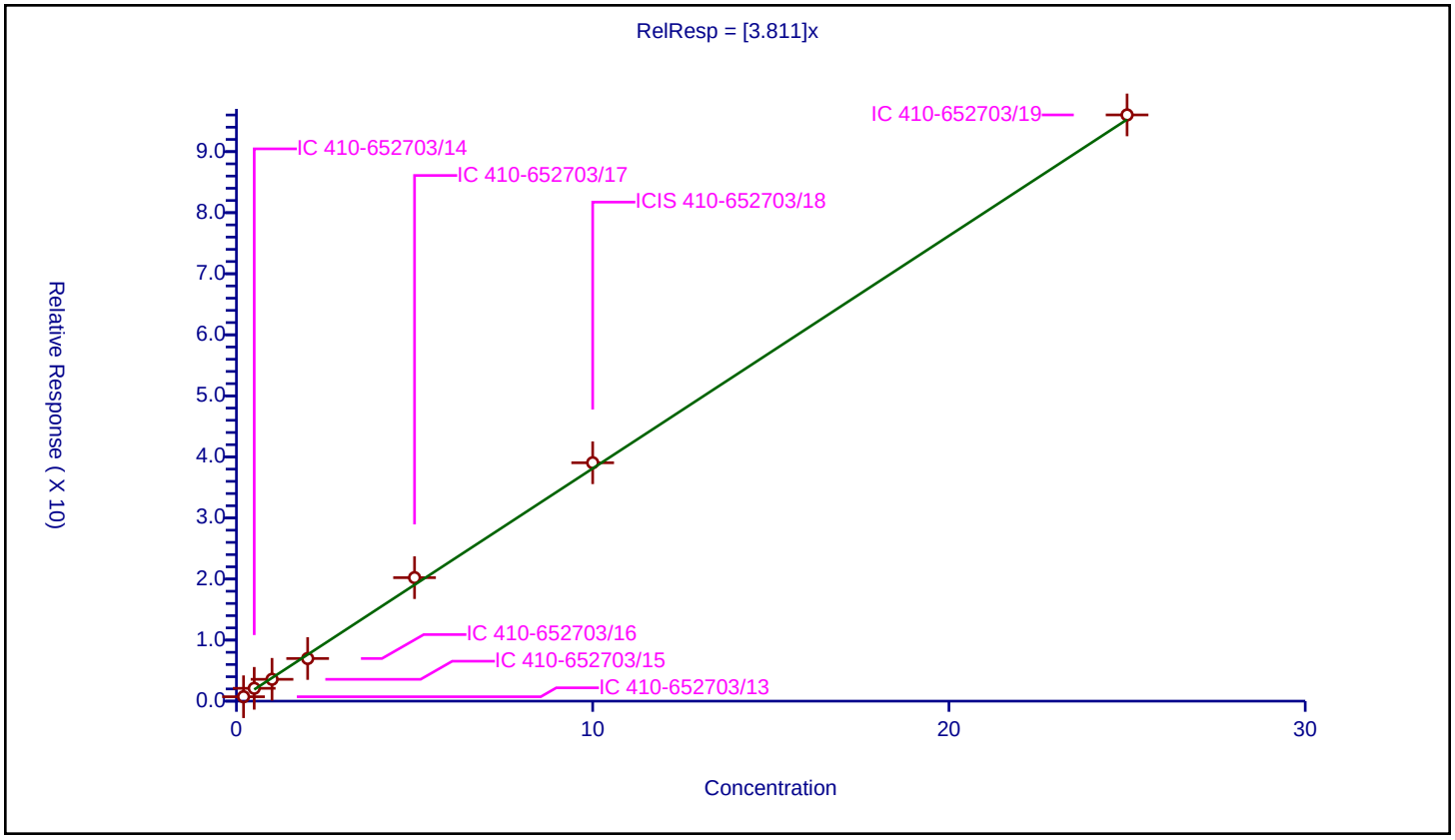
Curve Coefficients

Intercept:	0
Slope:	3.811

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.722445	10.0	918354.0	3.612224	Y
2	IC 410-652703/14	0.5	2.101828	10.0	903799.0	4.203656	Y
3	IC 410-652703/15	1.0	3.576808	10.0	939357.0	3.576808	Y
4	IC 410-652703/16	2.0	6.983792	10.0	968209.0	3.491896	Y
5	IC 410-652703/17	5.0	20.22478	10.0	982114.0	4.044956	Y
6	ICIS 410-652703/18	10.0	39.043048	10.0	997762.0	3.904305	Y
7	IC 410-652703/19	25.0	96.013109	10.0	1035762.0	3.840524	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

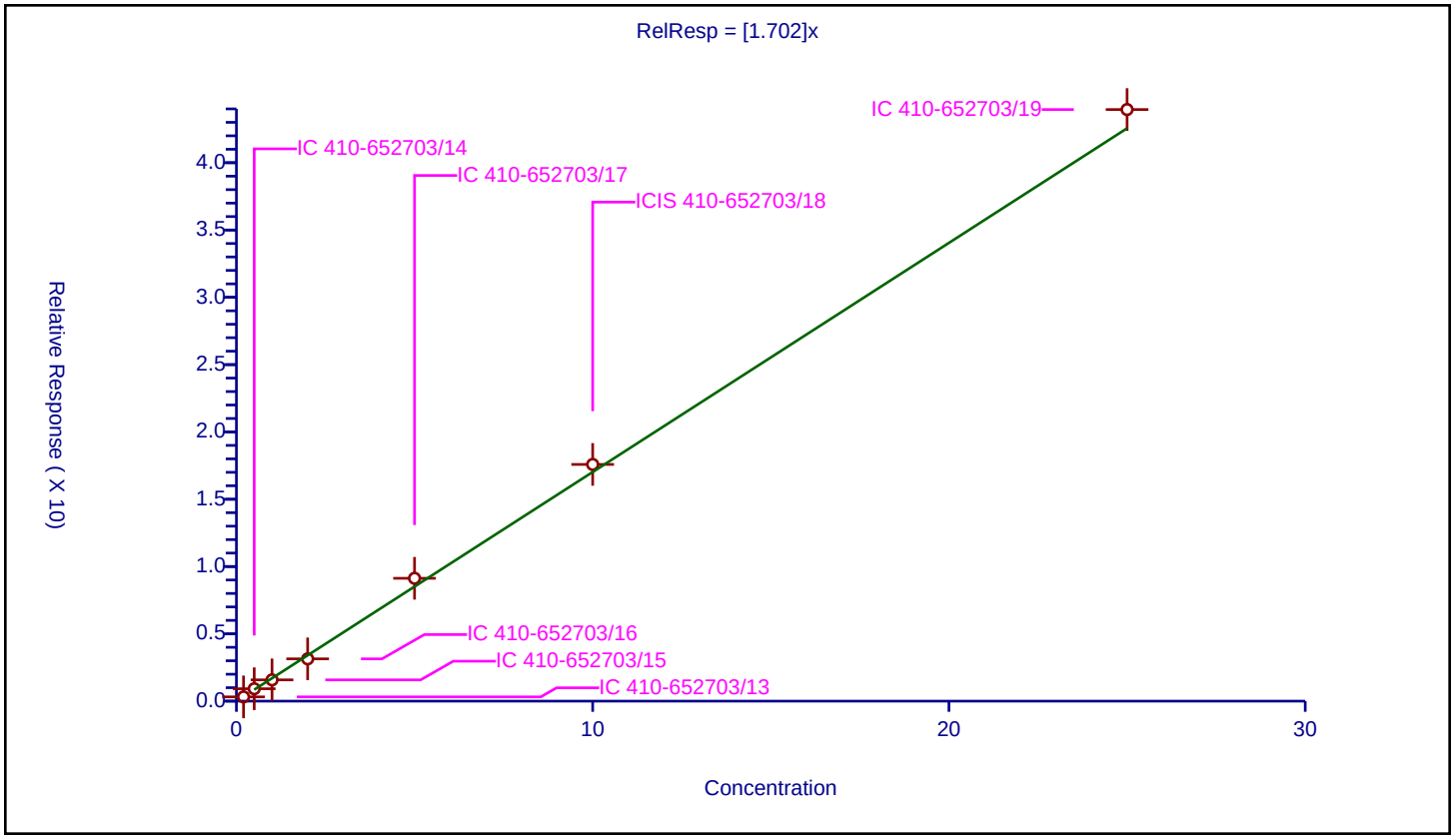
Curve Coefficients

Intercept:	0
Slope:	1.702

Error Coefficients

Relative Standard Deviation:	7.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.316272	10.0	918354.0	1.581362	Y
2	IC 410-652703/14	0.5	0.921588	10.0	903799.0	1.843175	Y
3	IC 410-652703/15	1.0	1.579155	10.0	939357.0	1.579155	Y
4	IC 410-652703/16	2.0	3.140355	10.0	968209.0	1.570178	Y
5	IC 410-652703/17	5.0	9.127413	10.0	982114.0	1.825483	Y
6	ICIS 410-652703/18	10.0	17.585516	10.0	997762.0	1.758552	Y
7	IC 410-652703/19	25.0	43.950898	10.0	1035762.0	1.758036	Y



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Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

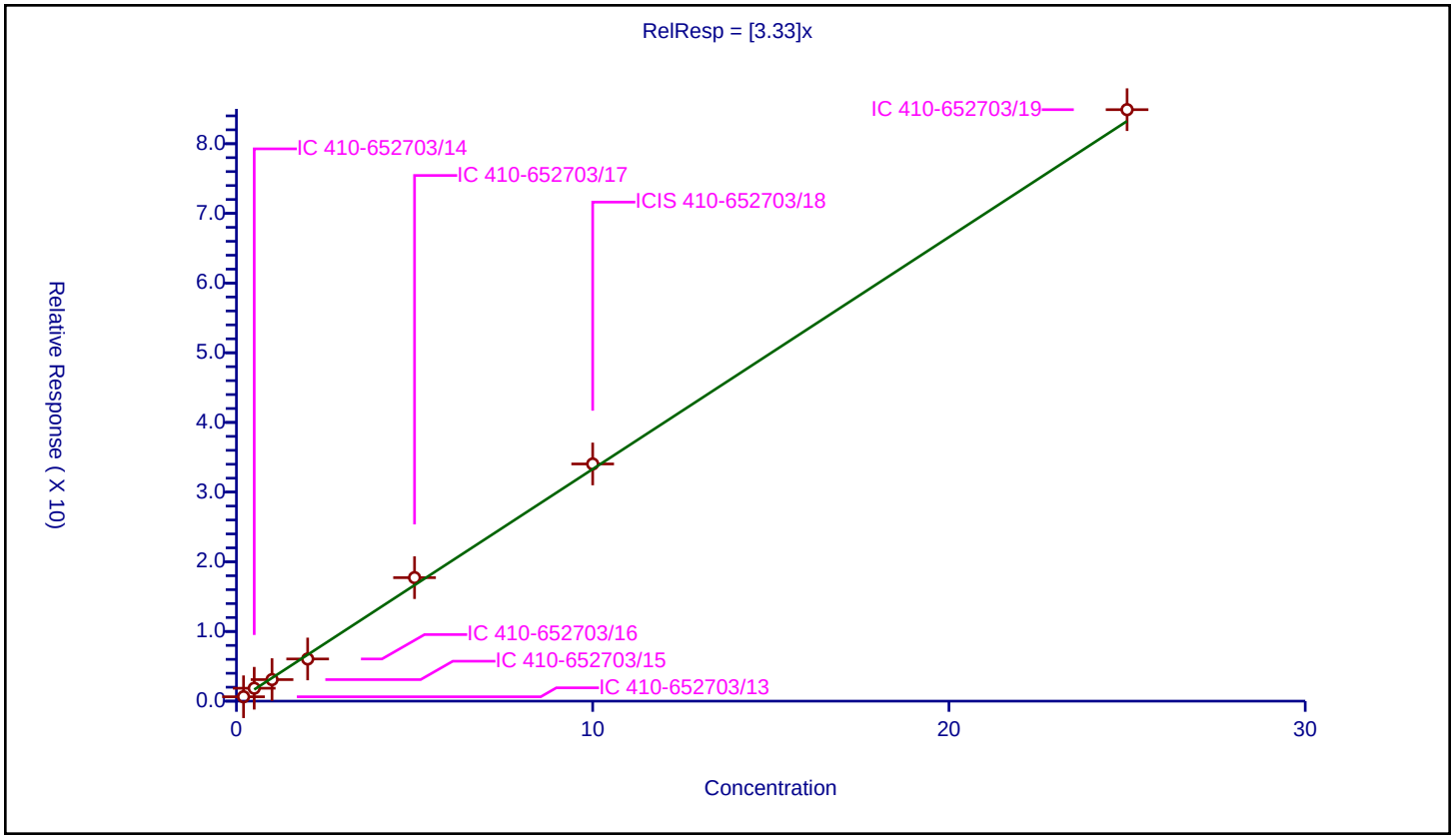
Curve Coefficients

Intercept:	0
Slope:	3.33

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.629583	10.0	918354.0	3.147915	Y
2	IC 410-652703/14	0.5	1.850445	10.0	903799.0	3.700889	Y
3	IC 410-652703/15	1.0	3.089283	10.0	939357.0	3.089283	Y
4	IC 410-652703/16	2.0	6.053776	10.0	968209.0	3.026888	Y
5	IC 410-652703/17	5.0	17.724562	10.0	982114.0	3.544912	Y
6	ICIS 410-652703/18	10.0	34.041796	10.0	997762.0	3.40418	Y
7	IC 410-652703/19	25.0	84.888922	10.0	1035762.0	3.395557	Y



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Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

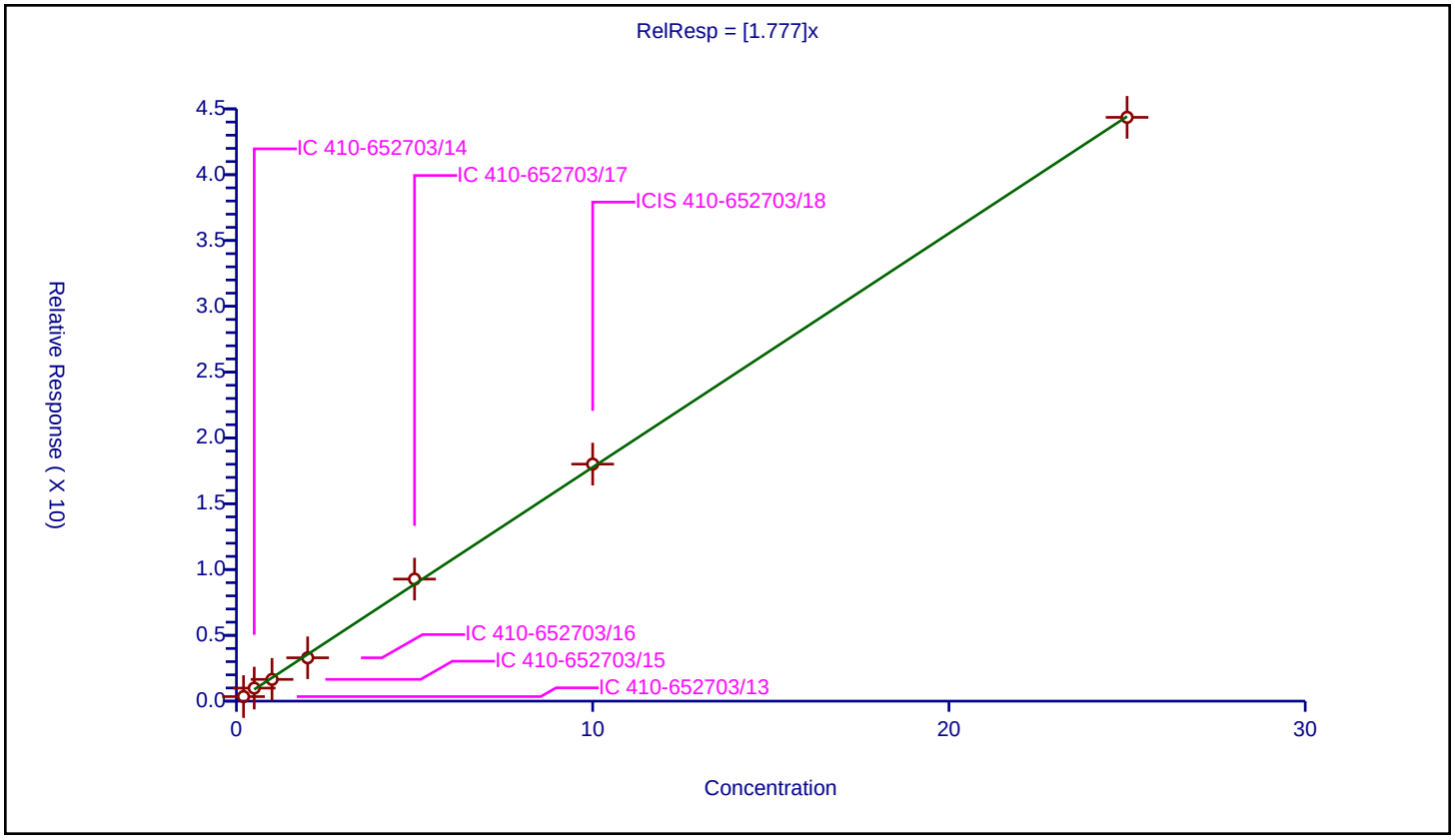
Curve Coefficients

Intercept:	0
Slope:	1.777

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.345727	10.0	918354.0	1.728636	Y
2	IC 410-652703/14	0.5	0.990331	10.0	903799.0	1.980662	Y
3	IC 410-652703/15	1.0	1.652982	10.0	939357.0	1.652982	Y
4	IC 410-652703/16	2.0	3.293297	10.0	968209.0	1.646649	Y
5	IC 410-652703/17	5.0	9.274595	10.0	982114.0	1.854919	Y
6	ICIS 410-652703/18	10.0	18.010036	10.0	997762.0	1.801004	Y
7	IC 410-652703/19	25.0	44.359274	10.0	1035762.0	1.774371	Y



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Calibration / 1,2,3-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

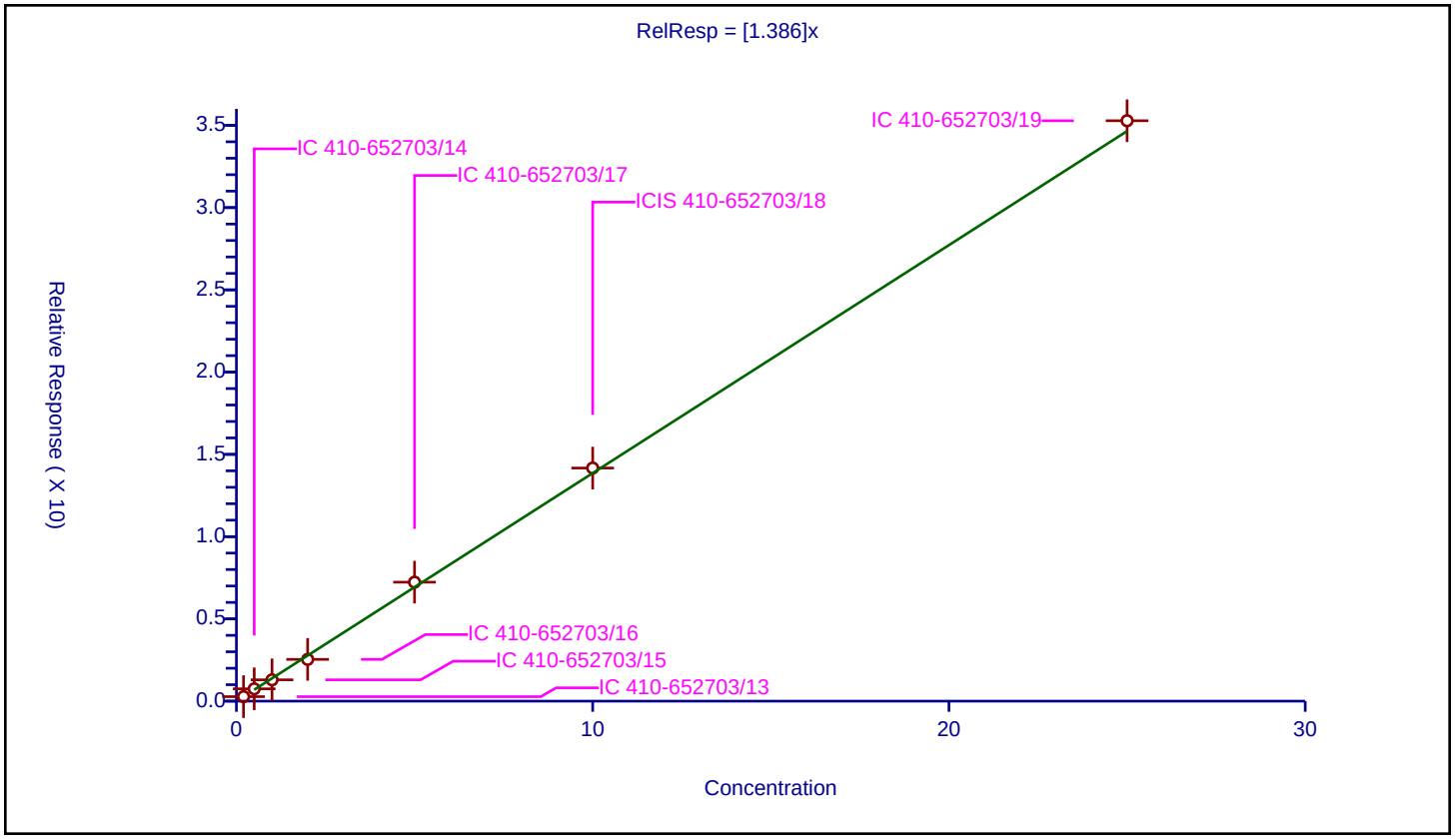
Curve Coefficients

Intercept:	0
Slope:	1.386

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.273282	10.0	918354.0	1.366412	Y
2	IC 410-652703/14	0.5	0.748308	10.0	903799.0	1.496616	Y
3	IC 410-652703/15	1.0	1.295578	10.0	939357.0	1.295578	Y
4	IC 410-652703/16	2.0	2.537582	10.0	968209.0	1.268791	Y
5	IC 410-652703/17	5.0	7.230556	10.0	982114.0	1.446111	Y
6	ICIS 410-652703/18	10.0	14.16901	10.0	997762.0	1.416901	Y
7	IC 410-652703/19	25.0	35.280238	10.0	1035762.0	1.41121	Y



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Calibration / Benzyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

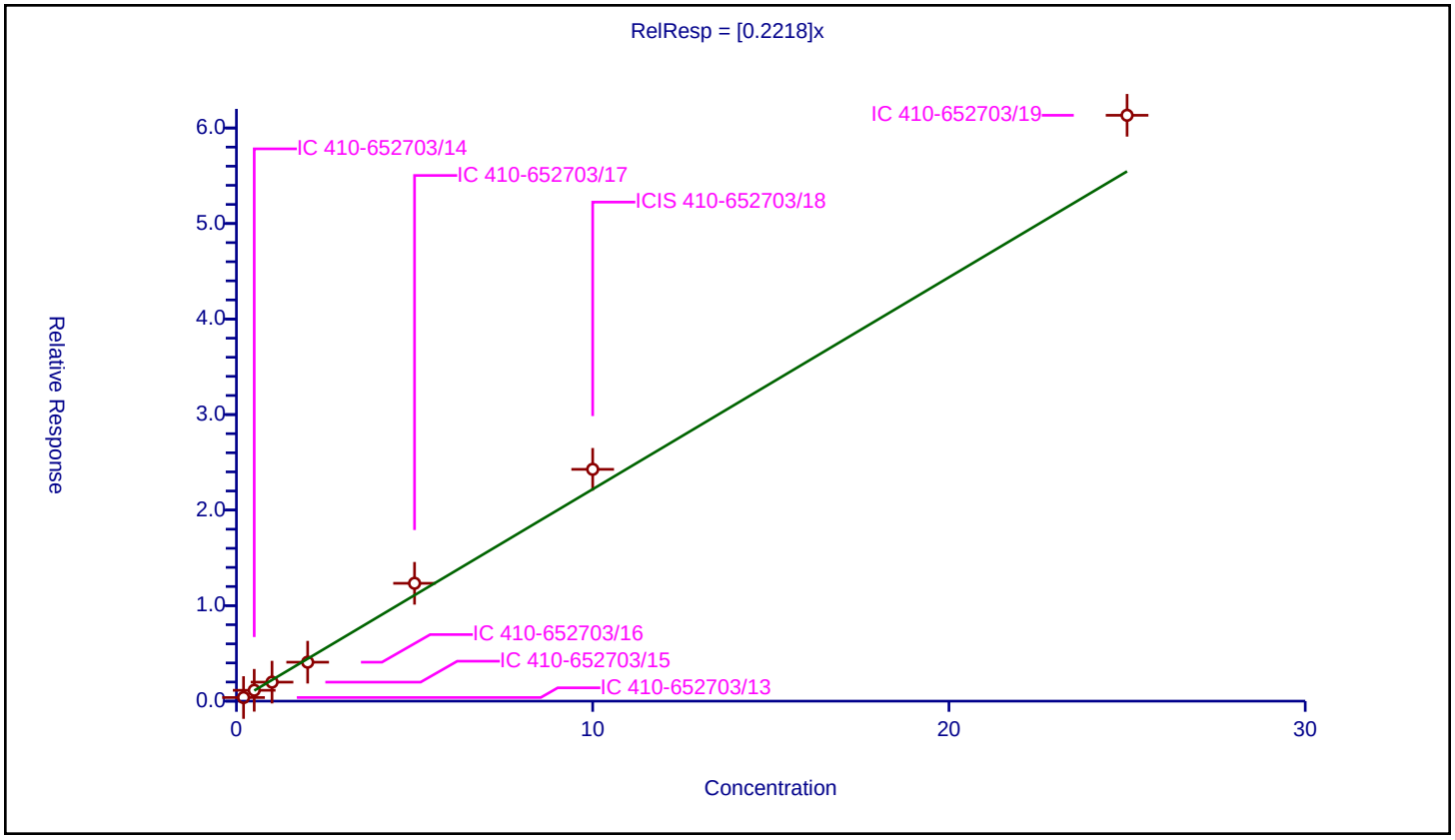
Curve Coefficients

Intercept:	0
Slope:	0.2218

Error Coefficients

Relative Standard Deviation:	11.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.037643	10.0	918354.0	0.188217	Y
2	IC 410-652703/14	0.5	0.113643	10.0	903799.0	0.227285	Y
3	IC 410-652703/15	1.0	0.198838	10.0	939357.0	0.198838	Y
4	IC 410-652703/16	2.0	0.407691	10.0	968209.0	0.203845	Y
5	IC 410-652703/17	5.0	1.233706	10.0	982114.0	0.246741	Y
6	ICIS 410-652703/18	10.0	2.426771	10.0	997762.0	0.242677	Y
7	IC 410-652703/19	25.0	6.132953	10.0	1035762.0	0.245318	Y



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Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

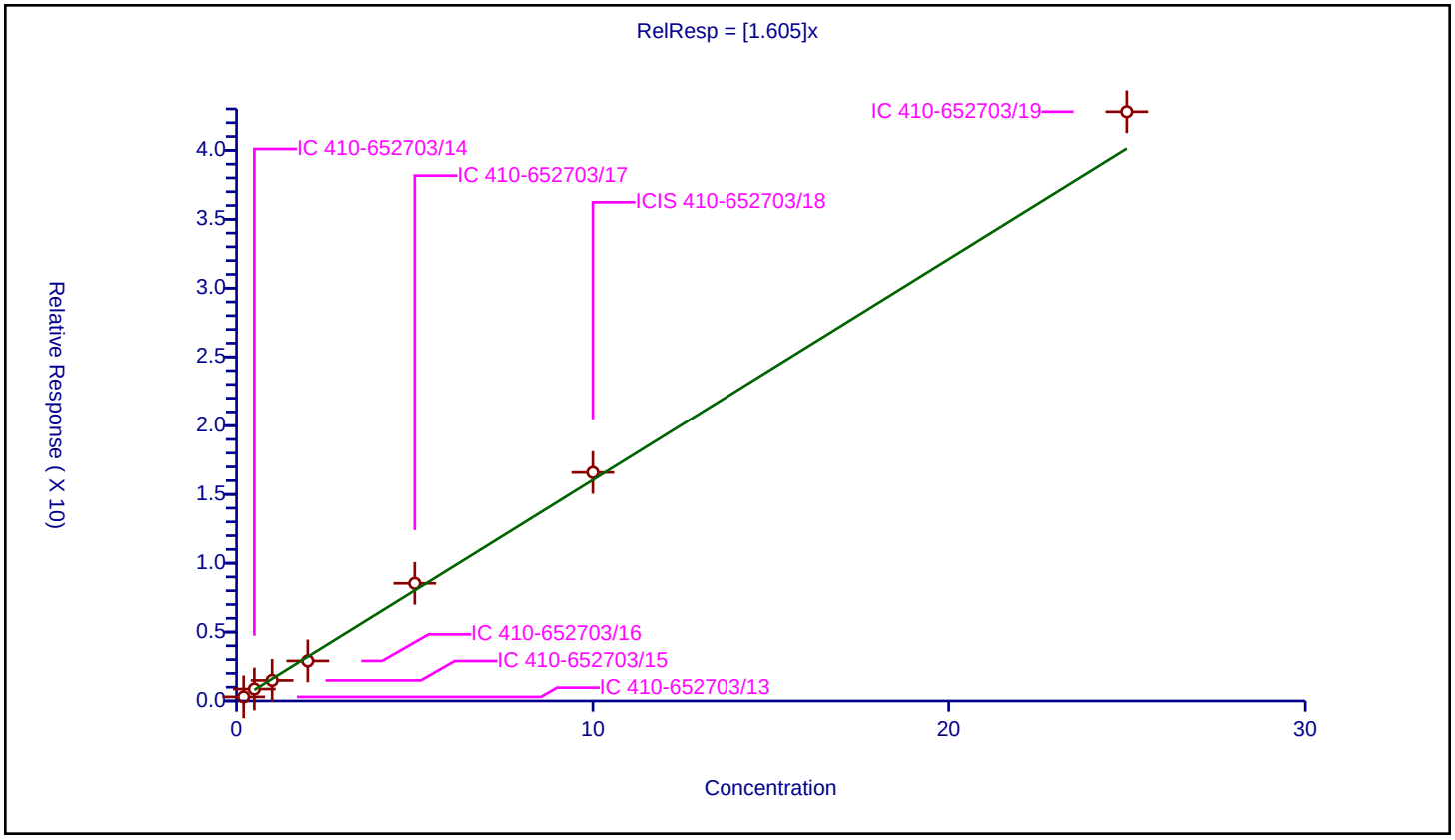
Curve Coefficients

Intercept:	0
Slope:	1.605

Error Coefficients

Relative Standard Deviation:	7.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.296084	10.0	918354.0	1.48042	Y
2	IC 410-652703/14	0.5	0.866775	10.0	903799.0	1.733549	Y
3	IC 410-652703/15	1.0	1.491297	10.0	939357.0	1.491297	Y
4	IC 410-652703/16	2.0	2.905096	10.0	968209.0	1.452548	Y
5	IC 410-652703/17	5.0	8.538571	10.0	982114.0	1.707714	Y
6	ICIS 410-652703/18	10.0	16.596583	10.0	997762.0	1.659658	Y
7	IC 410-652703/19	25.0	42.795604	10.0	1035762.0	1.711824	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

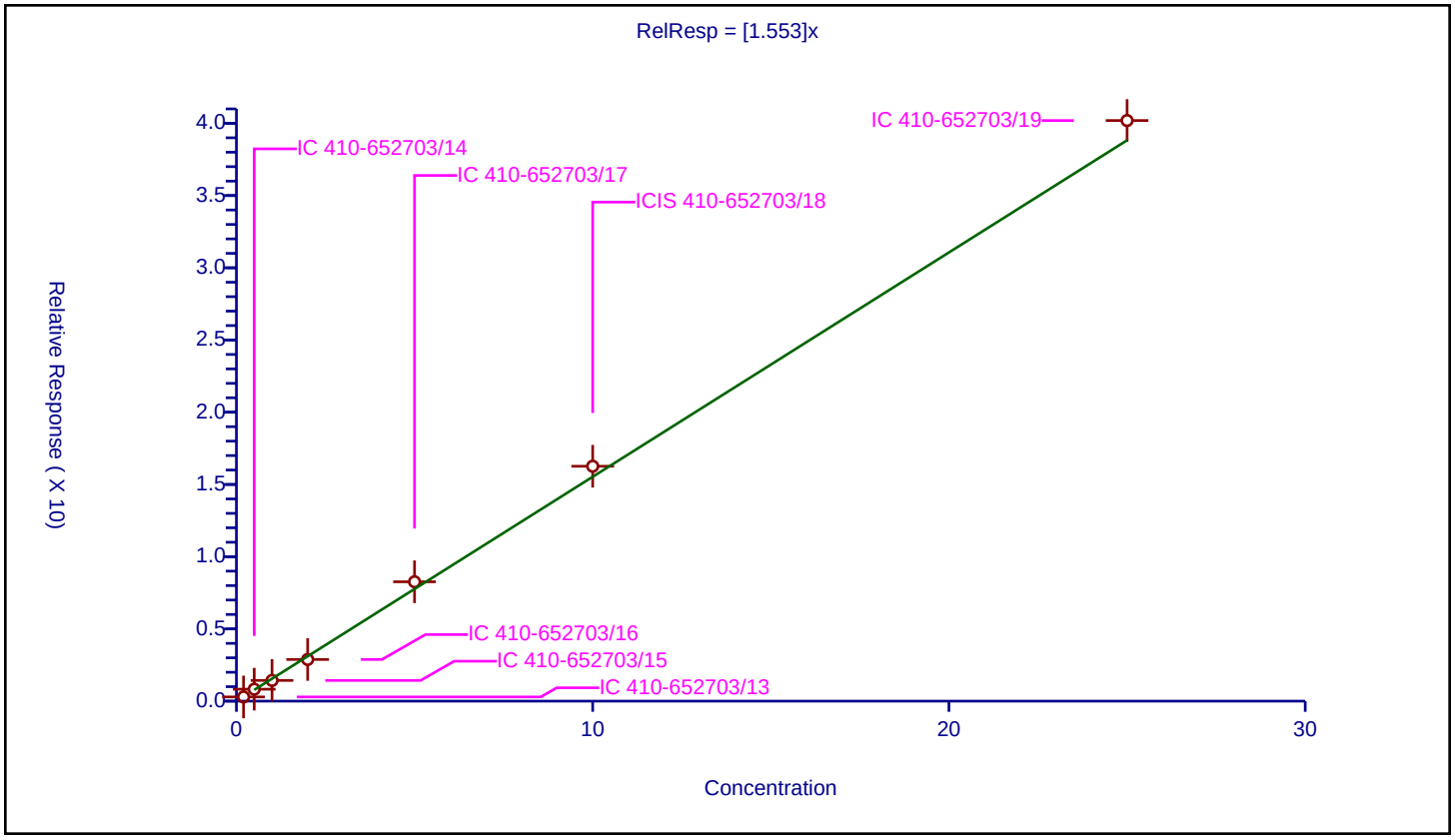
Curve Coefficients

Intercept:	0
Slope:	1.553

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.291151	10.0	918354.0	1.455757	Y
2	IC 410-652703/14	0.5	0.826732	10.0	903799.0	1.653465	Y
3	IC 410-652703/15	1.0	1.433843	10.0	939357.0	1.433843	Y
4	IC 410-652703/16	2.0	2.884253	10.0	968209.0	1.442127	Y
5	IC 410-652703/17	5.0	8.262259	10.0	982114.0	1.652452	Y
6	ICIS 410-652703/18	10.0	16.262245	10.0	997762.0	1.626224	Y
7	IC 410-652703/19	25.0	40.194446	10.0	1035762.0	1.607778	Y



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Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

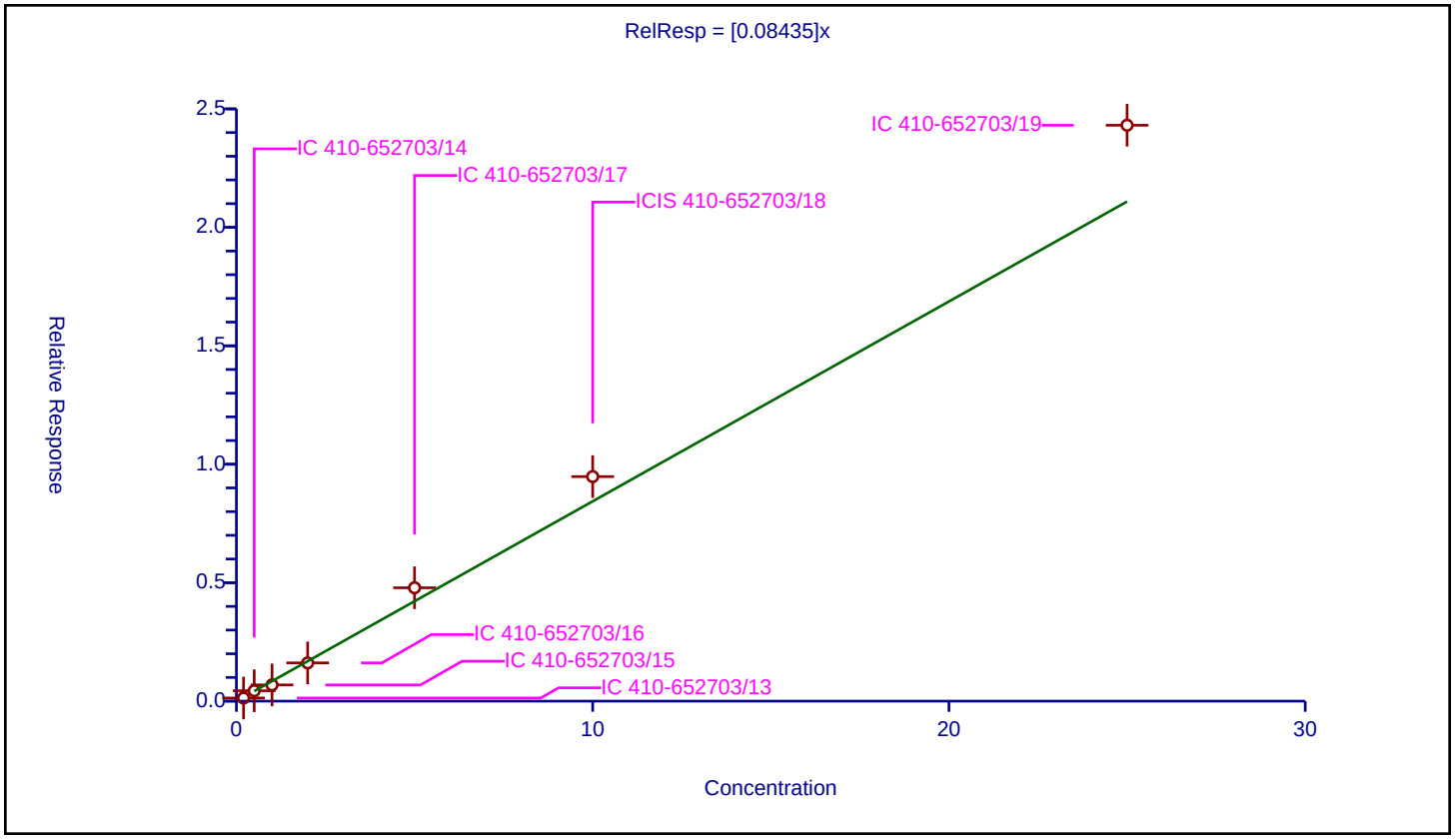
Curve Coefficients

Intercept:	0
Slope:	0.08435

Error Coefficients

Relative Standard Deviation:	15.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.013176	10.0	918354.0	0.065879	Y
2	IC 410-652703/14	0.5	0.043793	10.0	903799.0	0.087586	Y
3	IC 410-652703/15	1.0	0.068526	10.0	939357.0	0.068526	Y
4	IC 410-652703/16	2.0	0.161494	10.0	968209.0	0.080747	Y
5	IC 410-652703/17	5.0	0.47856	10.0	982114.0	0.095712	Y
6	ICIS 410-652703/18	10.0	0.947831	10.0	997762.0	0.094783	Y
7	IC 410-652703/19	25.0	2.431012	10.0	1035762.0	0.09724	Y



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Calibration / 1,3,5-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

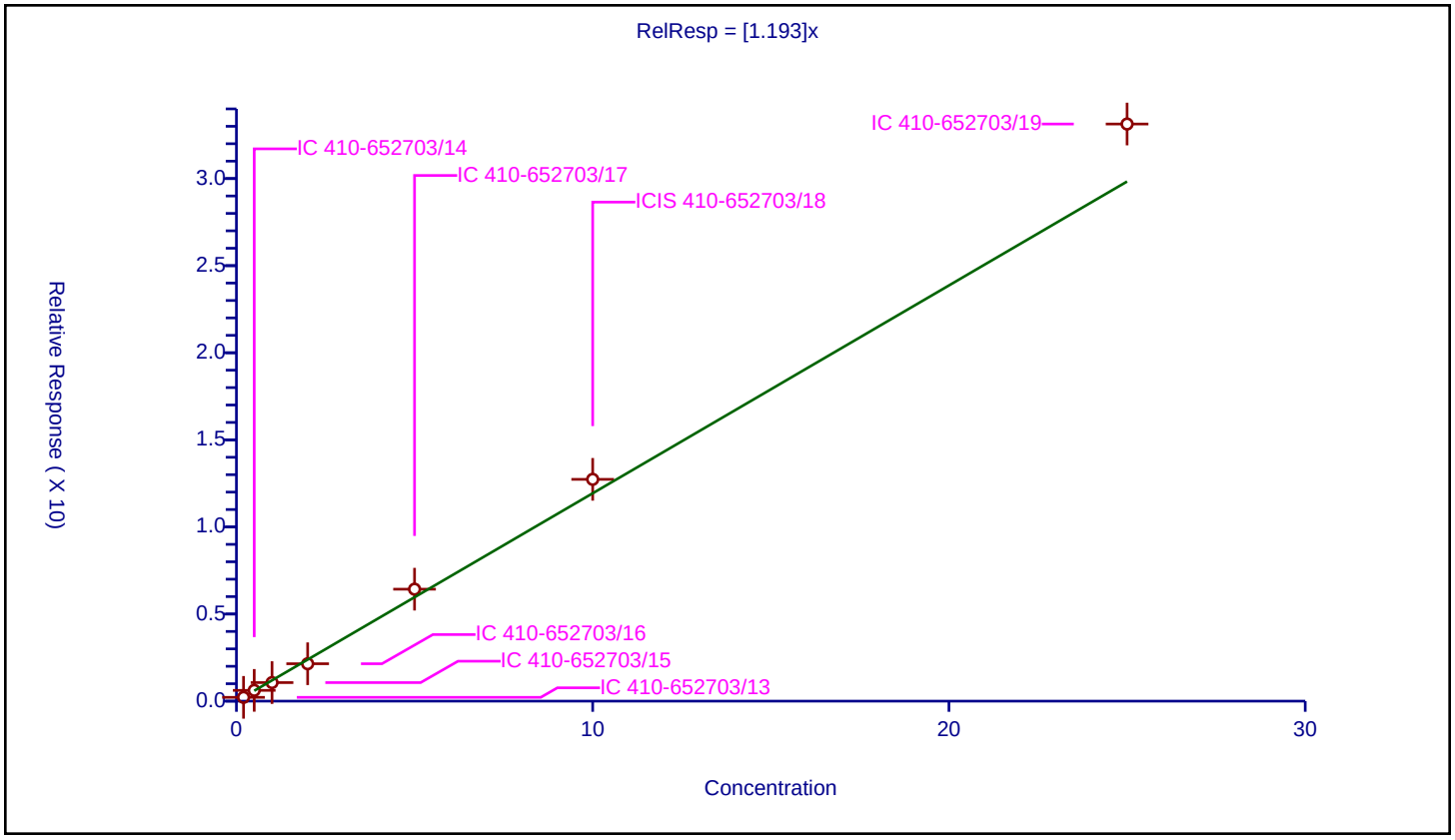
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Relative Standard Deviation:	9.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.218565	10.0	918354.0	1.092825	Y
2	IC 410-652703/14	0.5	0.618854	10.0	903799.0	1.237709	Y
3	IC 410-652703/15	1.0	1.064771	10.0	939357.0	1.064771	Y
4	IC 410-652703/16	2.0	2.146747	10.0	968209.0	1.073374	Y
5	IC 410-652703/17	5.0	6.427288	10.0	982114.0	1.285458	Y
6	ICIS 410-652703/18	10.0	12.732626	10.0	997762.0	1.273263	Y
7	IC 410-652703/19	25.0	33.13125	10.0	1035762.0	1.32525	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

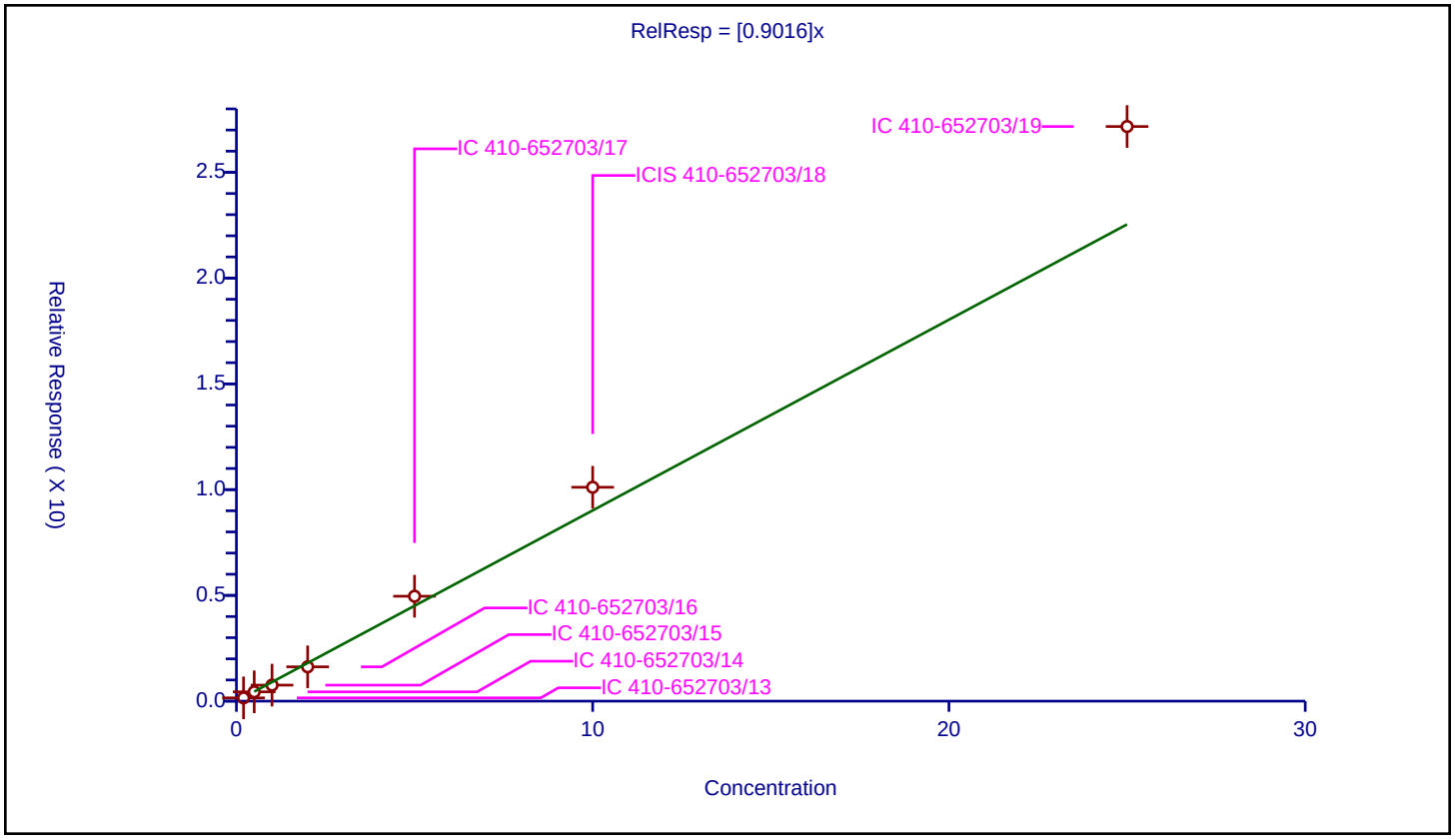
Curve Coefficients

Intercept:	0
Slope:	0.9016

Error Coefficients

Relative Standard Deviation:	14.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.154559	10.0	918354.0	0.772796	Y
2	IC 410-652703/14	0.5	0.439854	10.0	903799.0	0.879709	Y
3	IC 410-652703/15	1.0	0.757476	10.0	939357.0	0.757476	Y
4	IC 410-652703/16	2.0	1.622212	10.0	968209.0	0.811106	Y
5	IC 410-652703/17	5.0	4.960656	10.0	982114.0	0.992131	Y
6	ICIS 410-652703/18	10.0	10.112211	10.0	997762.0	1.011221	Y
7	IC 410-652703/19	25.0	27.166202	10.0	1035762.0	1.086648	Y



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Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

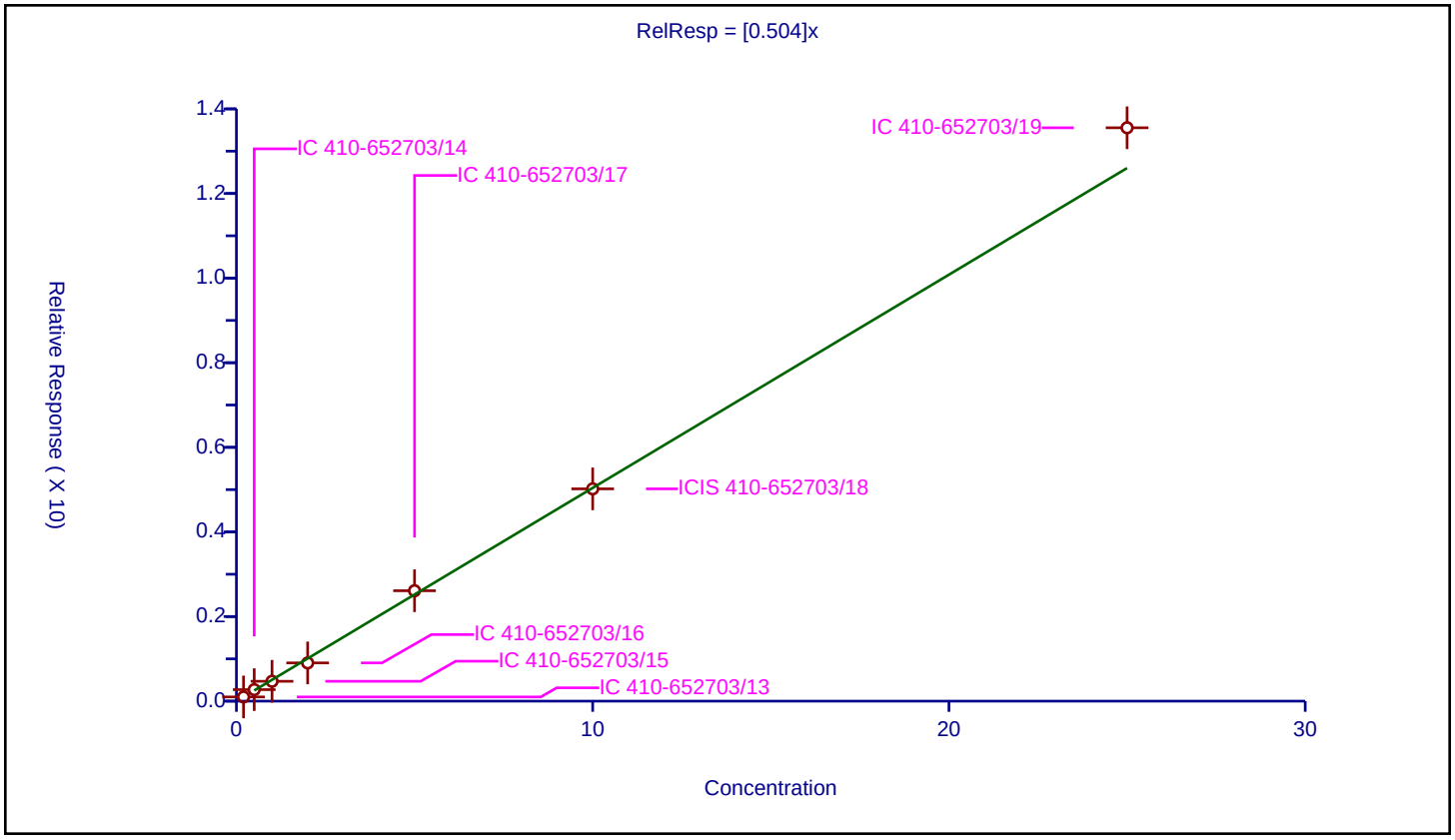
Curve Coefficients

Intercept:	0
Slope:	0.504

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.099384	10.0	918354.0	0.496922	Y
2	IC 410-652703/14	0.5	0.272096	10.0	903799.0	0.544192	Y
3	IC 410-652703/15	1.0	0.469374	10.0	939357.0	0.469374	Y
4	IC 410-652703/16	2.0	0.903658	10.0	968209.0	0.451829	Y
5	IC 410-652703/17	5.0	2.610257	10.0	982114.0	0.522051	Y
6	ICIS 410-652703/18	10.0	5.018371	10.0	997762.0	0.501837	Y
7	IC 410-652703/19	25.0	13.553596	10.0	1035762.0	0.542144	Y



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Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

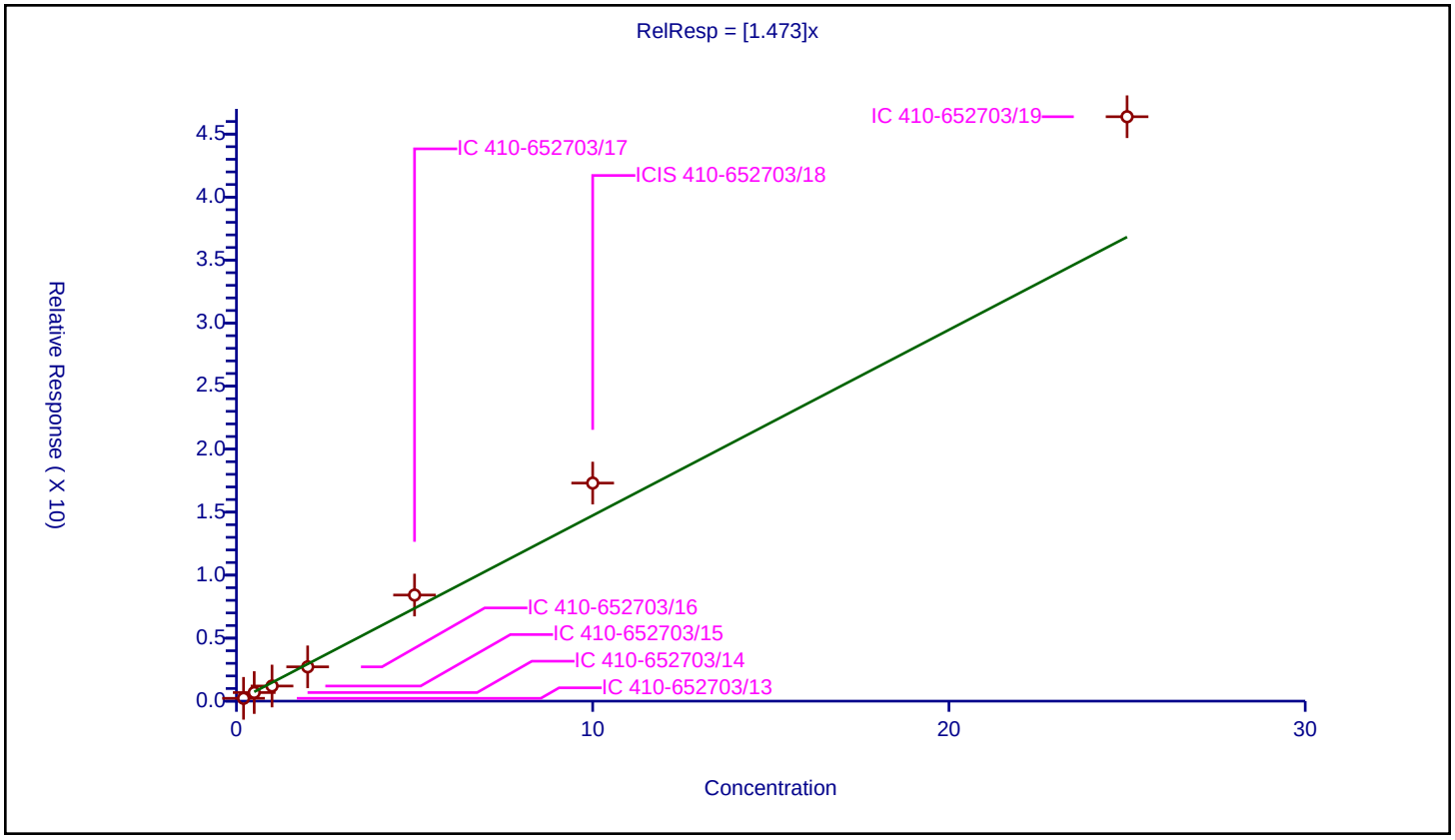
Curve Coefficients

Intercept:	0
Slope:	1.473

Error Coefficients

Relative Standard Deviation:	19.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.223955	10.0	918354.0	1.119775	Y
2	IC 410-652703/14	0.5	0.682087	10.0	903799.0	1.364175	Y
3	IC 410-652703/15	1.0	1.199288	10.0	939357.0	1.199288	Y
4	IC 410-652703/16	2.0	2.721334	10.0	968209.0	1.360667	Y
5	IC 410-652703/17	5.0	8.419929	10.0	982114.0	1.683986	Y
6	ICIS 410-652703/18	10.0	17.305379	10.0	997762.0	1.730538	Y
7	IC 410-652703/19	25.0	46.378628	10.0	1035762.0	1.855145	Y



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Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

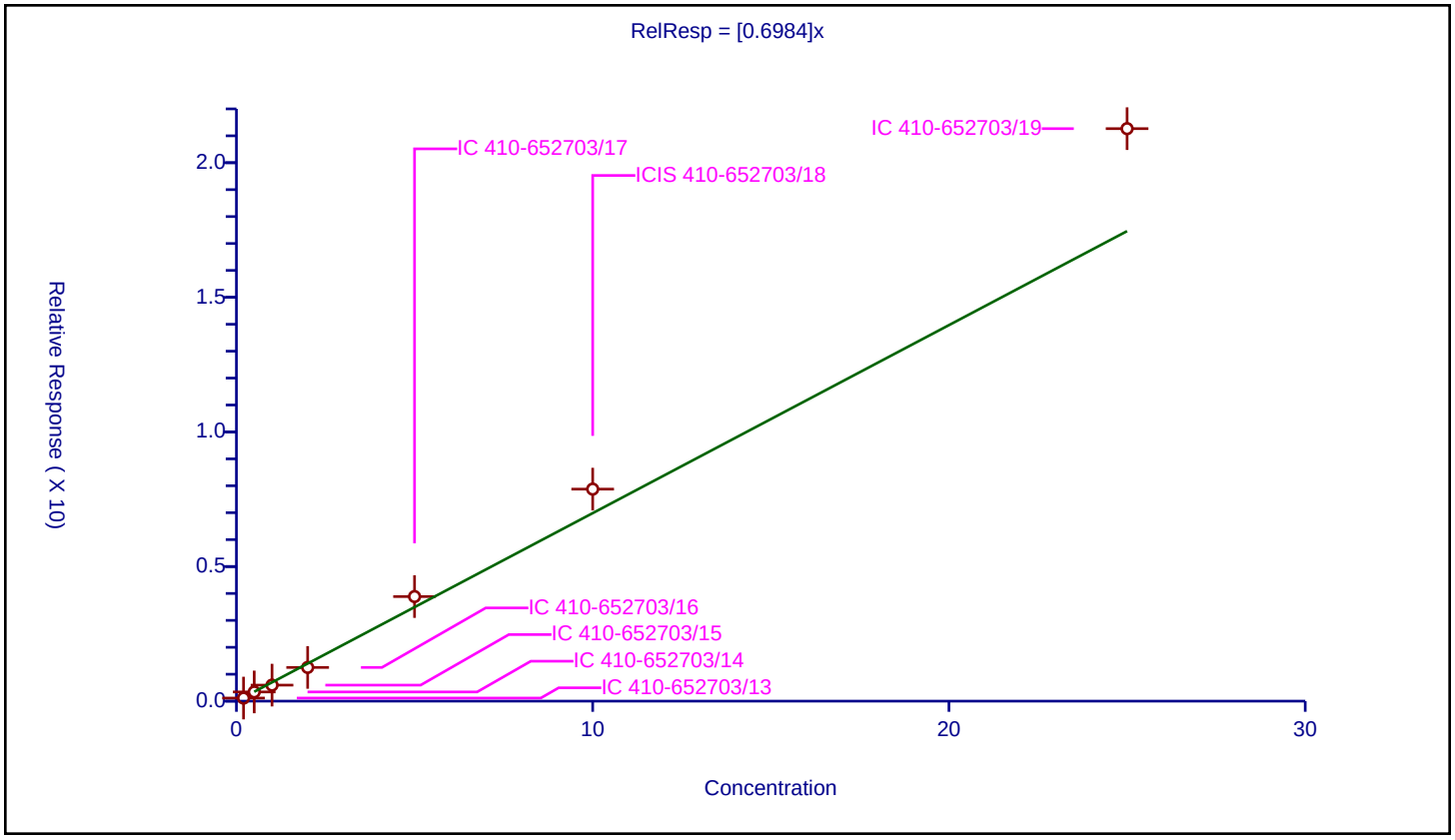
Curve Coefficients

Intercept:	0
Slope:	0.6984

Error Coefficients

Relative Standard Deviation:	15.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-652703/13	0.2	0.113823	10.0	918354.0	0.569116	Y
2	IC 410-652703/14	0.5	0.341625	10.0	903799.0	0.683249	Y
3	IC 410-652703/15	1.0	0.594811	10.0	939357.0	0.594811	Y
4	IC 410-652703/16	2.0	1.252364	10.0	968209.0	0.626182	Y
5	IC 410-652703/17	5.0	3.884651	10.0	982114.0	0.77693	Y
6	ICIS 410-652703/18	10.0	7.876287	10.0	997762.0	0.787629	Y
7	IC 410-652703/19	25.0	21.266053	10.0	1035762.0	0.850642	Y



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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-114096/10 Calibration Date: 04/13/2021 23:36

Instrument ID: 10193 Calib Start Date: 03/11/2021 19:26

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 03/11/2021 21:40

Lab File ID: CA13V01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acrolein	Ave	1.957	1.776		34.0	37.5	-9.3	30.0
Dibromofluoromethane (Surr)	Ave	0.2368	0.2437		10.3	10.0	2.9	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0488	0.0504		10.3	10.0	3.3	30.0
Toluene-d8 (Surr)	Ave	1.338	1.338		10.0	10.0	0.0	30.0
4-Bromofluorobenzene (Surr)	Ave	0.5124	0.4992		9.74	10.0	-2.6	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D
Lims ID: ICV Sm
Client ID:
Sample Type: ICV
Inject. Date: 13-Apr-2021 23:36:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026577-010
Misc. Info.: ICV SM
Operator ID: MEC29284 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 14-Apr-2021 00:11:47 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1662

First Level Reviewer: campbellme Date: 14-Apr-2021 00:05:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorodifluoromethane	51	1.898	1.898	0.000	97	315099	5.00	4.90	M
140 Dimethyl ether	45	1.959	1.965	-0.006	99	315365	5.00	5.23	M
13 Acrolein	56	3.251	3.257	-0.006	98	200609	37.5	34.0	
21 Acetonitrile	41	3.775	3.788	-0.013	98	132065	37.5	42.1	M
* 25 t-Butyl alcohol-d10 (IS)	65	4.031	4.044	-0.013	0	150664	50.0	50.0	
31 Vinyl acetate	43	5.068	5.074	-0.006	98	880028	12.5	12.6	
39 Ethyl acetate	43	5.946	5.952	-0.006	99	227021	2.50	4.80	
41 Methyl acrylate	55	6.007	6.013	-0.006	100	771280	25.0	26.0	
$ 47 Dibromofluoromethane (Surr)	113	6.616	6.622	-0.006	93	468189	10.0	10.3	
145 1-Chlorobutane	56	6.781	6.781	0.000	95	523256	5.00	5.17	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	96799	10.0	10.3	
152 Isopropyl acetate	43	7.195	7.195	0.000	98	158983	2.50	2.30	
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	99	1921487	10.0	10.0	
160 n-Propyl acetate	61	8.512	8.518	-0.006	99	32651	2.50	2.44	
69 2-Chloroethyl vinyl ether	63	9.061	9.061	0.000	89	126529	5.00	5.07	
70 Chloroacetonitrile	75	9.061	9.067	-0.006	85	396375	250.0	274.9	
$ 74 Toluene-d8 (Surr)	98	9.561	9.567	-0.006	94	1945743	10.0	10.0	
161 n-Butyl acetate	43	10.475	10.475	0.000	98	150000	2.50	2.37	
* 85 Chlorobenzene-d5 (IS)	117	11.054	11.054	0.000	86	1454282	10.0	10.0	
96 cis-1,4-Dichloro-2-butene	88	11.981	11.987	-0.006	0	200805	12.5	13.4	
97 Cyclohexanone	55	12.018	12.018	0.000	91	124955	125.0	113.3	M
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	92	726025	10.0	9.74	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	95	819556	10.0	10.0	
122 Hexachloroethane	117	13.444	13.444	0.000	92	207760	5.00	5.04	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSV_Q_VOA5_00025	Amount Added:	25.00	Units: uL	
MSV_QAcet_00012	Amount Added:	7.50	Units: uL	
MSV_QCYC_00005	Amount Added:	12.50	Units: uL	
MSV_QREV4_25_00017	Amount Added:	12.50	Units: uL	
MSV_Q_CDFM_25_00014	Amount Added:	5.00	Units: uL	
MSV_Q_QARC_00077	Amount Added:	12.50	Units: uL	
MSV_Q_QDME_00013	Amount Added:	5.00	Units: uL	
MSV_QLKB_00004	Amount Added:	25.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

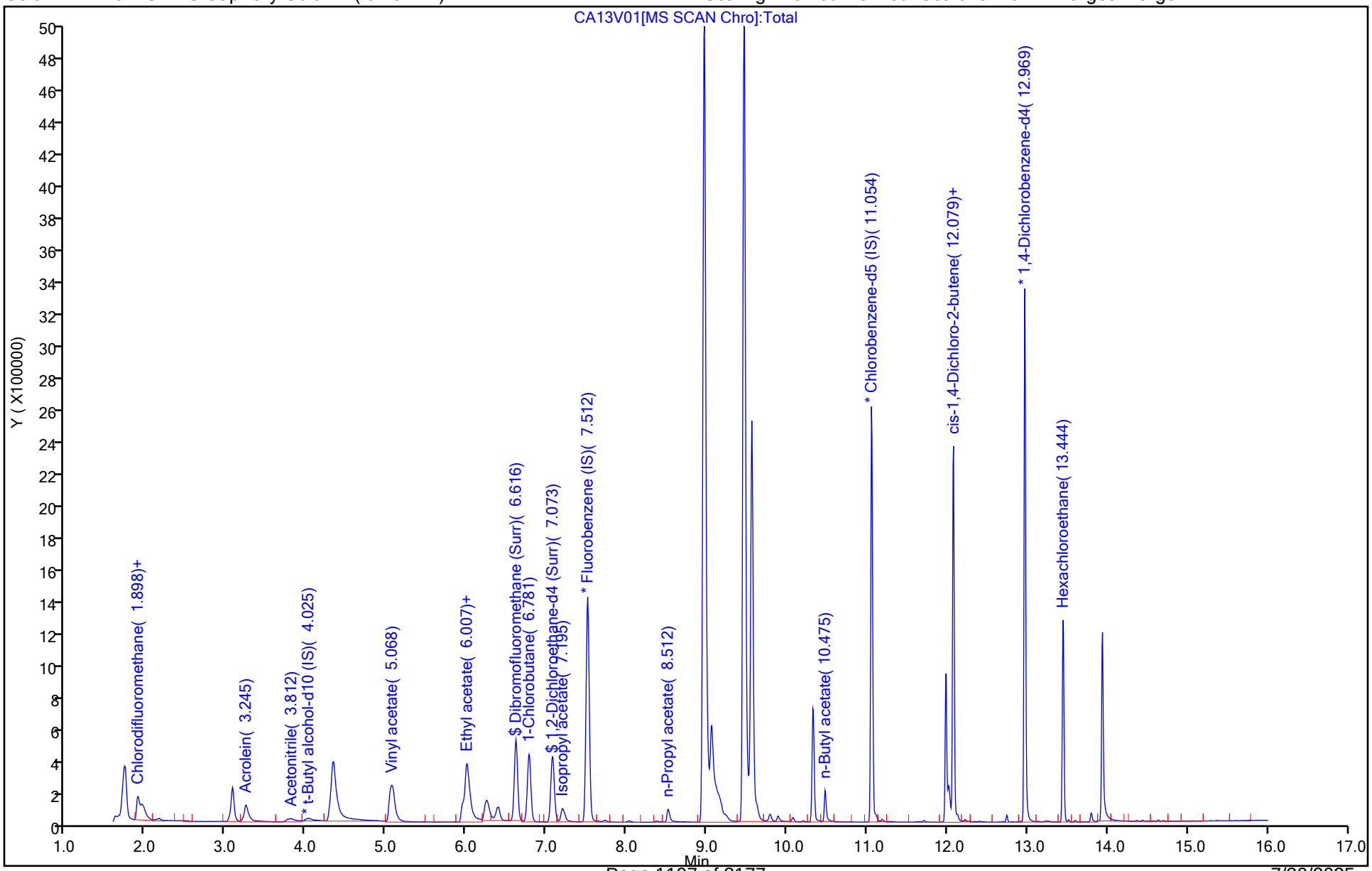
Report Date: 14-Apr-2021 00:11:48 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D

Injection Date:	13-Apr-2021 23:36:30	Instrument ID:	10193	Operator ID:	MEC29284
Lims ID:	ICV Sm			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-114096/10 Calibration Date: 04/13/2021 23:36

Instrument ID: 10193 Calib Start Date: 04/13/2021 21:00

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 04/13/2021 23:14

Lab File ID: CA13V01.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.3345	0.3280		4.90	5.00	-1.9	30.0
Methoxymethane	Lin		0.3283		5.23	5.00	4.5	30.0
Acetonitrile	Ave	0.0163	0.0183		42.1	37.5	12.4	30.0
Vinyl acetate	Ave	0.3638	0.3664		12.6	12.5	0.7	30.0
Ethyl acetate	Ave	0.2461	0.4726		4.80	2.50	92.0*	30.0
Methyl acrylate	Ave	9.829	10.24		26.0	25.0	4.2	30.0
1-Chlorobutane	Ave	0.5262	0.5446		5.17	5.00	3.5	30.0
n-Propyl acetate	Ave	0.0698	0.0680		2.44	2.50	-2.6	30.0
2-Chloroethyl vinyl ether	Ave	0.1298	0.1317		5.07	5.00	1.4	30.0
Chloroacetonitrile	Ave	0.0075	0.0083		275	250	10.0	30.0
cis-1,4-Dichloro-2-butene	Ave	0.1030	0.1106		13.4	12.5	7.3	30.0
Cyclohexanone	Ave	0.3662	0.3317		113	125	-9.4	30.0

Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D
Lims ID: ICV Sm
Client ID:
Sample Type: ICV
Inject. Date: 13-Apr-2021 23:36:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0026577-010
Misc. Info.: ICV SM
Operator ID: MEC29284 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 14-Apr-2021 00:11:47 Calib Date: 13-Apr-2021 23:14:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13I07.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1662

First Level Reviewer: campbellme Date: 14-Apr-2021 00:05:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorodifluoromethane	51	1.898	1.898	0.000	97	315099	5.00	4.90	M
140 Dimethyl ether	45	1.959	1.965	-0.006	99	315365	5.00	5.23	M
13 Acrolein	56	3.251	3.257	-0.006	98	200609	37.5	34.0	
21 Acetonitrile	41	3.775	3.788	-0.013	98	132065	37.5	42.1	M
* 25 t-Butyl alcohol-d10 (IS)	65	4.031	4.044	-0.013	0	150664	50.0	50.0	
31 Vinyl acetate	43	5.068	5.074	-0.006	98	880028	12.5	12.6	
39 Ethyl acetate	43	5.946	5.952	-0.006	99	227021	2.50	4.80	
41 Methyl acrylate	55	6.007	6.013	-0.006	100	771280	25.0	26.0	
$ 47 Dibromofluoromethane (Surr)	113	6.616	6.622	-0.006	93	468189	10.0	10.3	
145 1-Chlorobutane	56	6.781	6.781	0.000	95	523256	5.00	5.17	
$ 53 1,2-Dichloroethane-d4 (Surr)	102	7.073	7.080	-0.007	0	96799	10.0	10.3	
152 Isopropyl acetate	43	7.195	7.195	0.000	98	158983	2.50	2.30	
* 57 Fluorobenzene (IS)	96	7.512	7.512	0.000	99	1921487	10.0	10.0	
160 n-Propyl acetate	61	8.512	8.518	-0.006	99	32651	2.50	2.44	
69 2-Chloroethyl vinyl ether	63	9.061	9.061	0.000	89	126529	5.00	5.07	
70 Chloroacetonitrile	75	9.061	9.067	-0.006	85	396375	250.0	274.9	
$ 74 Toluene-d8 (Surr)	98	9.561	9.567	-0.006	94	1945743	10.0	10.0	
161 n-Butyl acetate	43	10.475	10.475	0.000	98	150000	2.50	2.37	
* 85 Chlorobenzene-d5 (IS)	117	11.054	11.054	0.000	86	1454282	10.0	10.0	
96 cis-1,4-Dichloro-2-butene	88	11.981	11.987	-0.006	0	200805	12.5	13.4	
97 Cyclohexanone	55	12.018	12.018	0.000	91	124955	125.0	113.3	M
$ 98 4-Bromofluorobenzene (Surr)	95	12.079	12.079	0.000	92	726025	10.0	9.74	
* 113 1,4-Dichlorobenzene-d4	152	12.969	12.969	0.000	95	819556	10.0	10.0	
122 Hexachloroethane	117	13.444	13.444	0.000	92	207760	5.00	5.04	

QC Flag Legend
Processing Flags

Review Flags
M - Manually Integrated

Reagents:

MSV_Q_VOA5_00025	Amount Added:	25.00	Units: uL	
MSV_QAcet_00012	Amount Added:	7.50	Units: uL	
MSV_QCYC_00005	Amount Added:	12.50	Units: uL	
MSV_QREV4_25_00017	Amount Added:	12.50	Units: uL	
MSV_Q_CDFM_25_00014	Amount Added:	5.00	Units: uL	
MSV_Q_QARC_00077	Amount Added:	12.50	Units: uL	
MSV_Q_QDME_00013	Amount Added:	5.00	Units: uL	
MSV_QLKB_00004	Amount Added:	25.00	Units: uL	
MSV_HP25_ISSS_00023	Amount Added:	1.00	Units: uL	Run Reagent

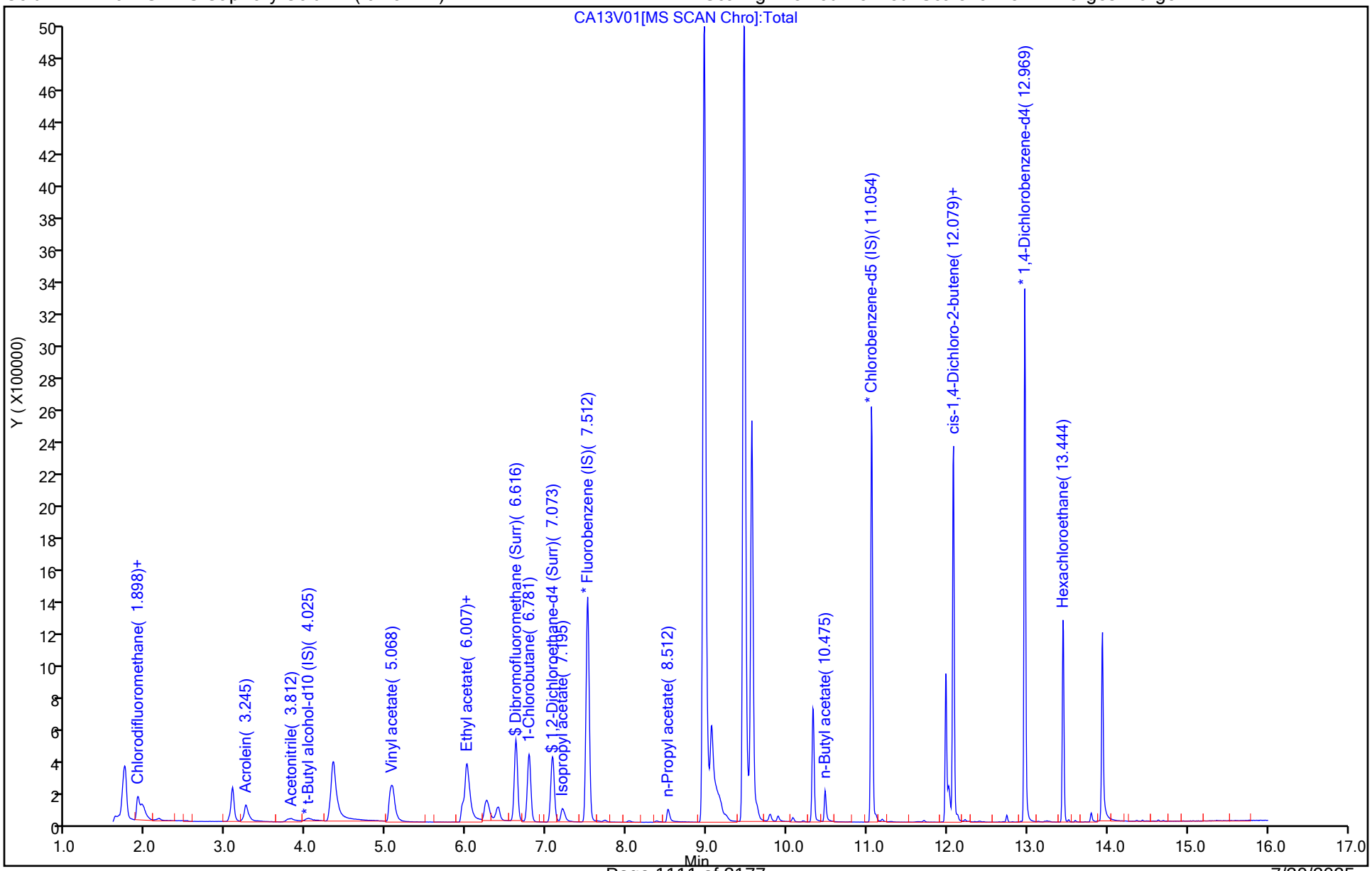
Report Date: 14-Apr-2021 00:11:48 Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D

Injection Date:	13-Apr-2021 23:36:30	Instrument ID:	10193	Operator ID:	MEC29284
Lims ID:	ICV Sm			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

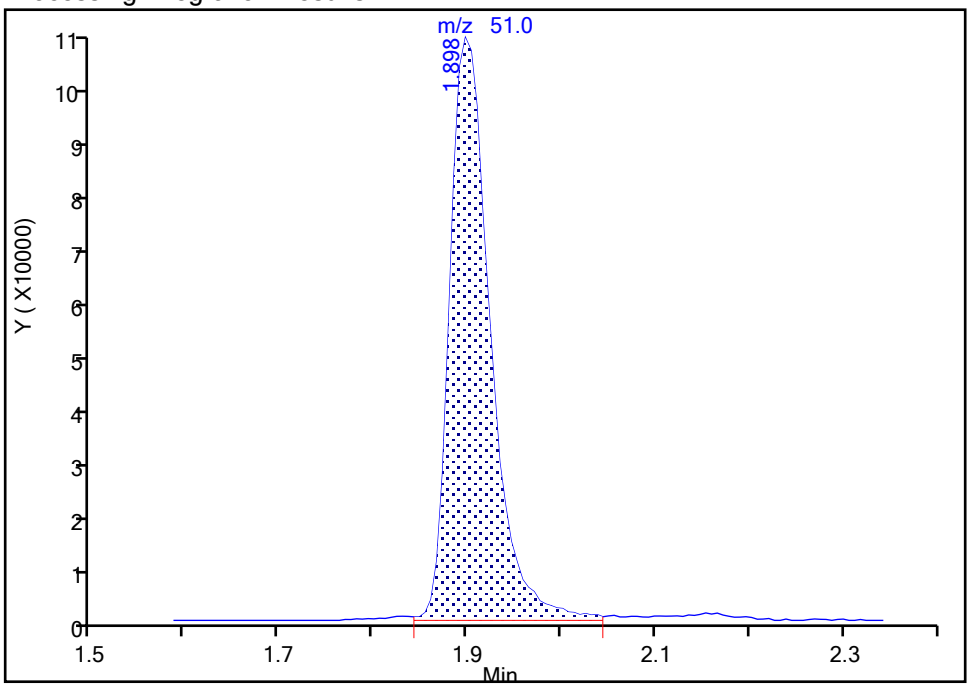
Data File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D				
Injection Date:	13-Apr-2021 23:36:30	Instrument ID:	10193		
Lims ID:	ICV Sm				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

1 Chlorodifluoromethane, CAS: 75-45-6

Signal: 1

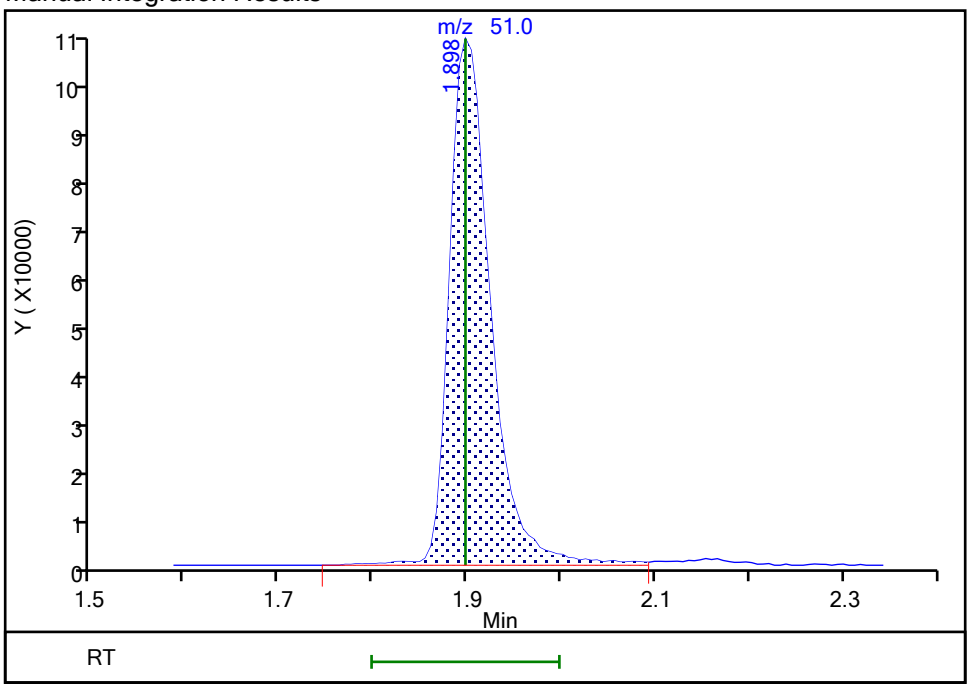
Processing Integration Results

RT: 1.90
Area: 311315
Amount: 4.844186
Amount Units: ug/l



Manual Integration Results

RT: 1.90
Area: 315099
Amount: 4.903067
Amount Units: ug/l



Reviewer: campbellme, 14-Apr-2021 00:04:48

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

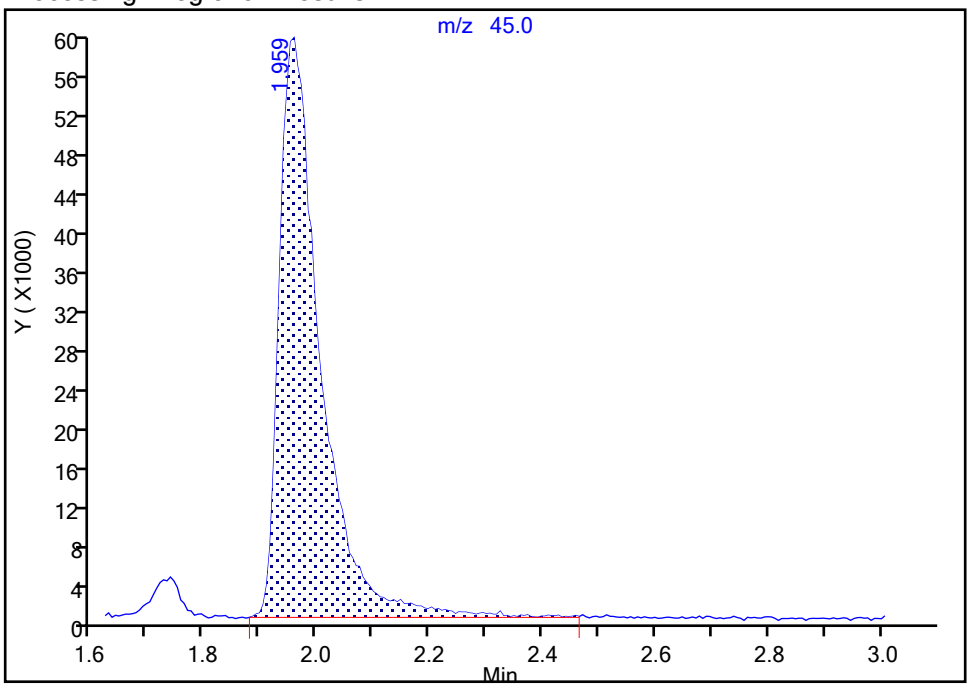
Data File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D				
Injection Date:	13-Apr-2021 23:36:30	Instrument ID:	10193		
Lims ID:	ICV Sm				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

140 Dimethyl ether, CAS: 115-10-6

Signal: 1

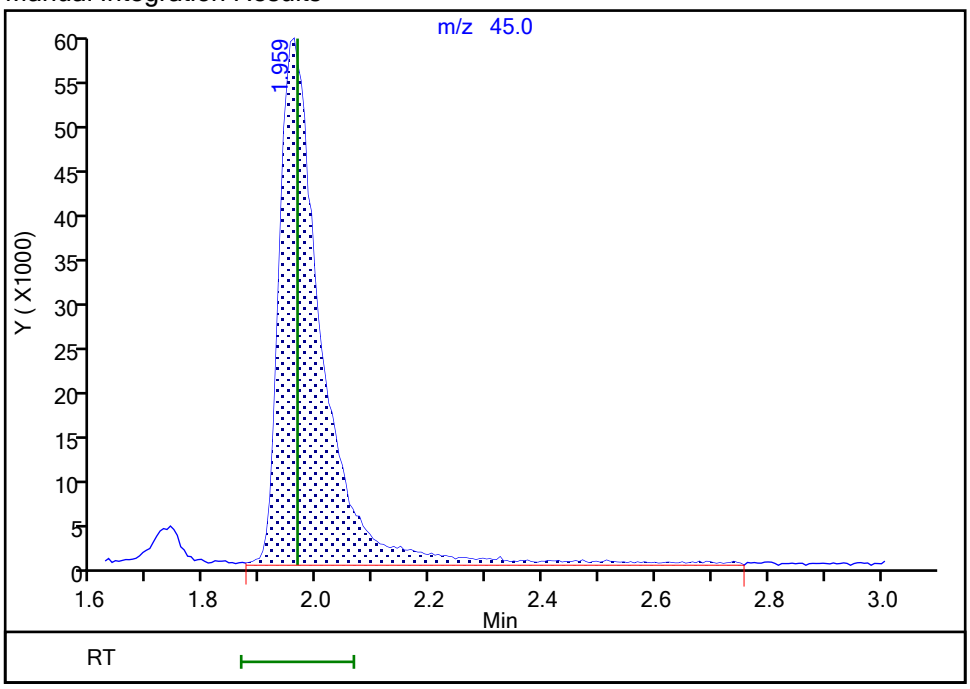
Processing Integration Results

RT: 1.96
Area: 299177
Amount: 4.953116
Amount Units: ug/l



Manual Integration Results

RT: 1.96
Area: 315365
Amount: 5.226828
Amount Units: ug/l



Reviewer: campbellme, 14-Apr-2021 00:05:06

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

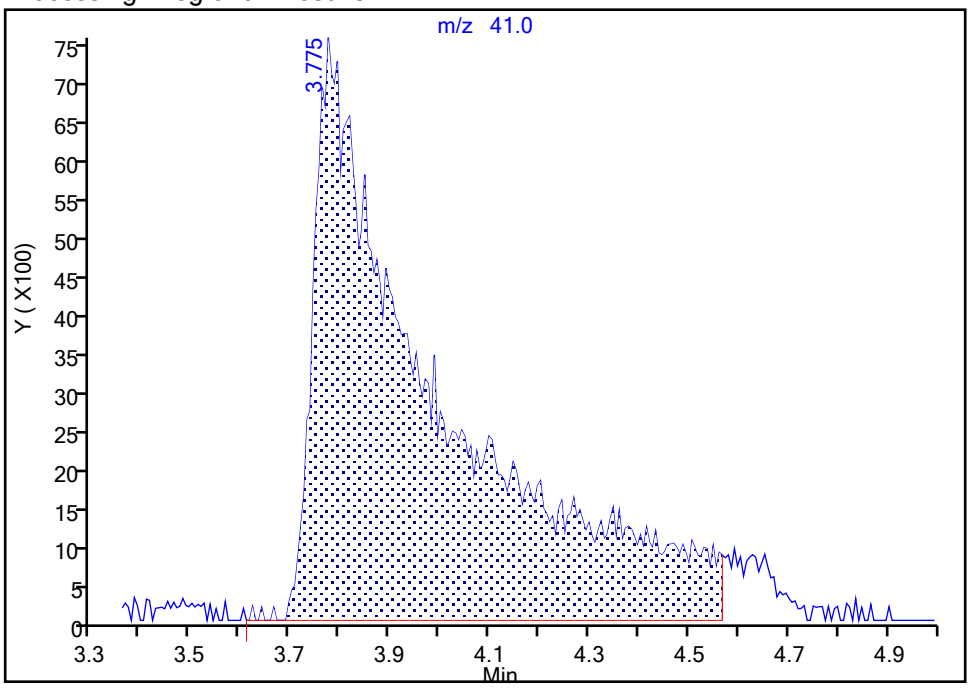
Data File:	\\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D				
Injection Date:	13-Apr-2021 23:36:30	Instrument ID:	10193		
Lims ID:	ICV Sm				
Client ID:					
Operator ID:	MEC29284	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

21 Acetonitrile, CAS: 75-05-8

Signal: 1

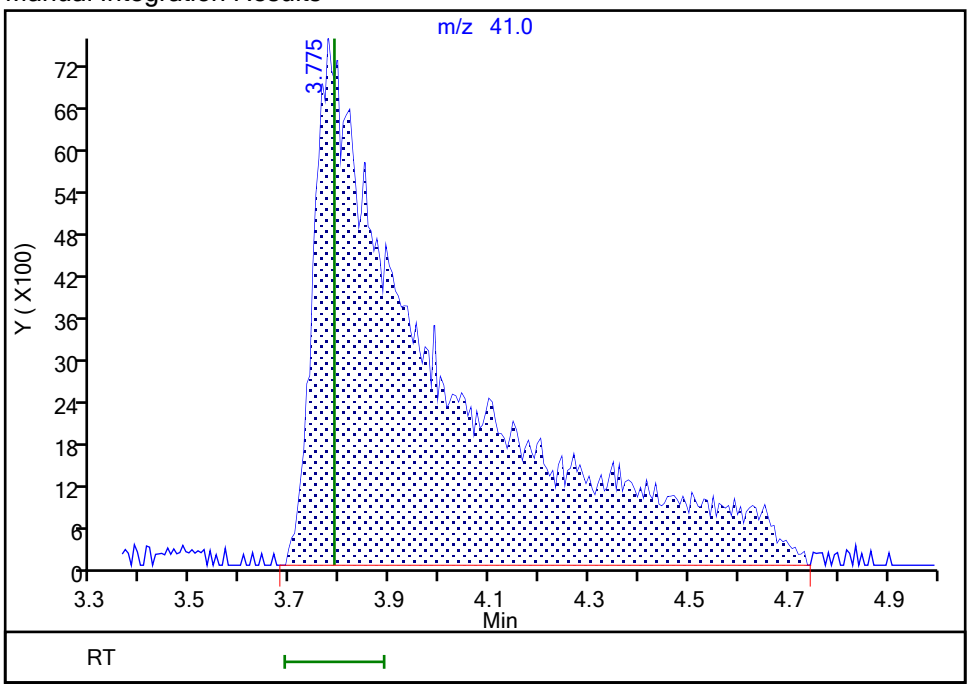
Processing Integration Results

RT: 3.78
Area: 126634
Amount: 40.392986
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 132065
Amount: 42.125335
Amount Units: ug/l



Reviewer: campbellme, 14-Apr-2021 00:05:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

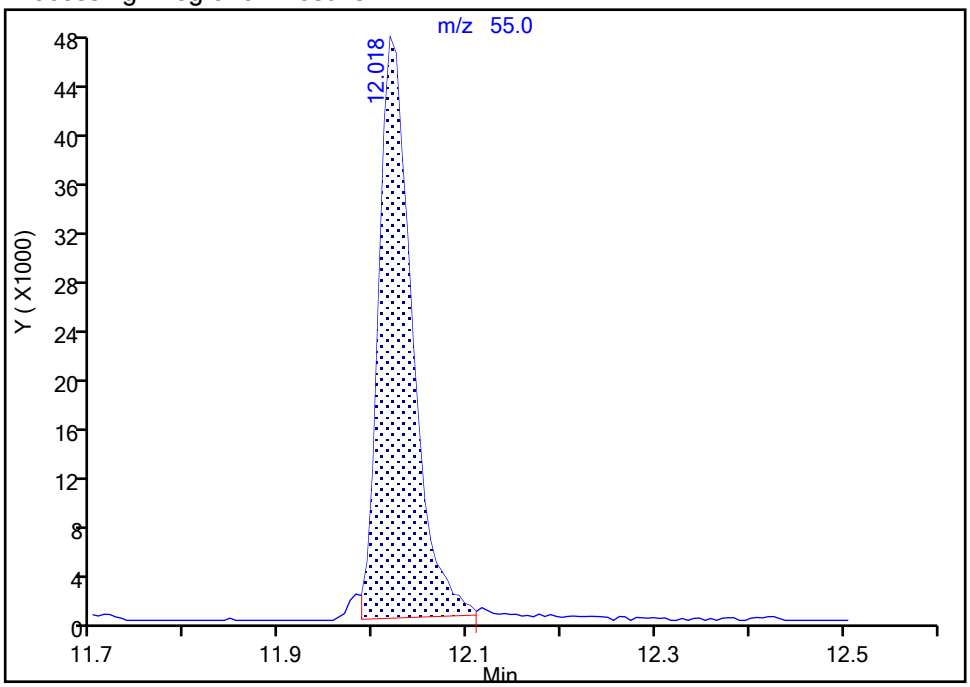
Data File: \\chromfs\Lancaster\ChromData\10193\20210413-26577.b\CA13V01.D
Injection Date: 13-Apr-2021 23:36:30 Instrument ID: 10193
Lims ID: ICV Sm
Client ID:
Operator ID: MEC29284 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25 mm) Detector MS Quad

97 Cyclohexanone, CAS: 108-94-1

Signal: 1

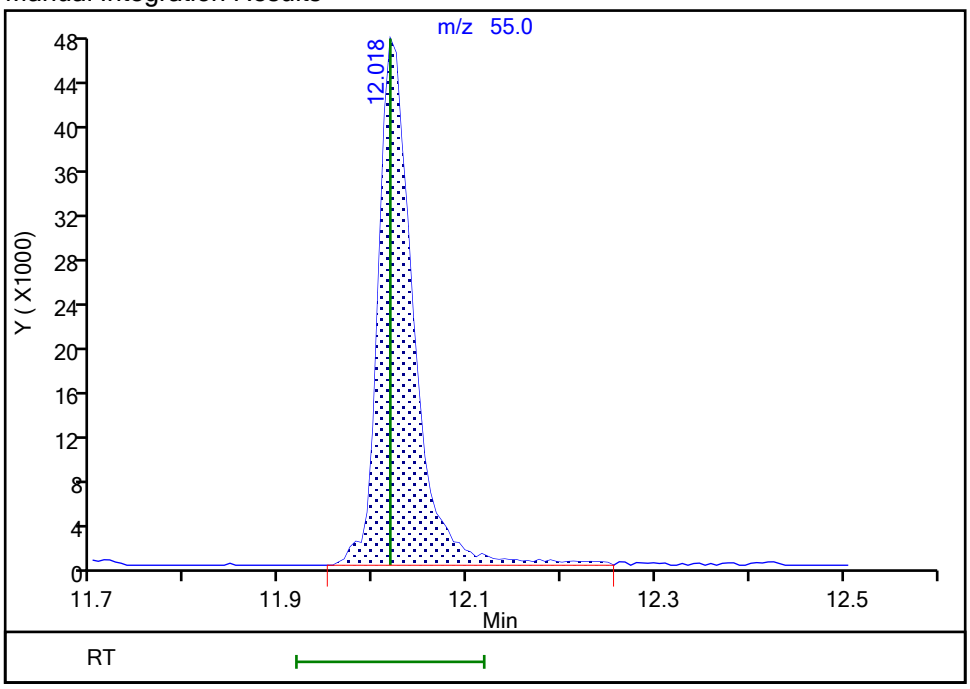
Processing Integration Results

RT: 12.02
Area: 117579
Amount: 106.5682
Amount Units: ug/l



Manual Integration Results

RT: 12.02
Area: 124955
Amount: 113.2535
Amount Units: ug/l



Reviewer: campbellme, 14-Apr-2021 00:05:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-652703/11 Calibration Date: 06/04/2025 20:22

Instrument ID: 10193 Calib Start Date: 06/04/2025 17:23

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 19:37

Lab File ID: CU04X10.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Ave	0.3963	0.4065		5.13	5.00	2.6	30.0
Dimethyl ether	Ave	0.4500	0.4474		4.97	5.00	-0.6	30.0
Acetonitrile	Ave	0.0181	0.0156		16.2	18.8	-13.7	30.0
Vinyl acetate	Ave	0.3609	0.3149		10.9	12.5	-12.8	30.0
Ethyl acetate	Ave	0.1745	0.1690		2.42	2.50	-3.2	30.0
n-Propyl acetate	Ave	0.0793	0.0812		2.56	2.50	2.4	30.0
2-Chloroethyl vinyl ether	Ave	0.1163	0.1320		5.68	5.00	13.5	30.0
cis-1,4-Dichloro-2-butene	Ave	0.0856	0.0942		13.8	12.5	10.0	30.0
Cyclohexanone	Ave	0.3290	0.3605		137	125	9.6	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X10.D
Lims ID: ICV Sm
Client ID:
Sample Type: ICV
Inject. Date: 04-Jun-2025 20:22:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-011
Misc. Info.: ICV SM
Operator ID: knk41612 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 08:51:16 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 11:05:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.726	1.720	0.006	93	233012	5.00	5.56	
3 Chlorodifluoromethane	51	1.781	1.768	0.013	98	462667	5.00	5.13	
4 Dimethyl ether	45	1.811	1.805	0.006	100	509230	5.00	4.97	
8 2-Chloro-1,1,1-Trifluoroethane	118	2.085	2.079	0.006	35	372547	5.00	5.19	
27 Acetonitrile	41	3.469	3.451	0.018	95	66500	18.8	16.2	
* 31 t-Butyl alcohol-d10 (IS)	65	3.677	3.671	0.006	97	182175	50.0	50.0	
38 Vinyl acetate	43	4.658	4.640	0.018	98	896009	12.5	10.9	
46 Ethyl acetate	43	5.560	5.554	0.006	99	96181	2.50	2.42	
63 Isopropyl acetate	43	6.834	6.828	0.006	98	220467	2.50	2.47	
* 65 Fluorobenzene (IS)	96	7.145	7.146	-0.001	99	2276581	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	99	46197	2.50	2.56	
79 2-Chloroethyl vinyl ether	63	8.724	8.724	0.000	92	150276	5.00	5.68	
109 n-Butyl acetate	43	10.224	10.224	0.000	98	200347	2.50	2.56	
* 111 Chlorobenzene-d5 (IS)	117	10.815	10.816	-0.001	87	1732682	10.0	10.0	
122 cis-1,4-Dichloro-2-butene	88	11.773	11.772	0.000	98	204063	12.5	13.8	
123 Cyclohexanone	55	11.803	11.797	0.006	92	164154	125.0	136.9	
* 139 1,4-Dichlorobenzene-d4	152	12.772	12.766	0.006	95	926446	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

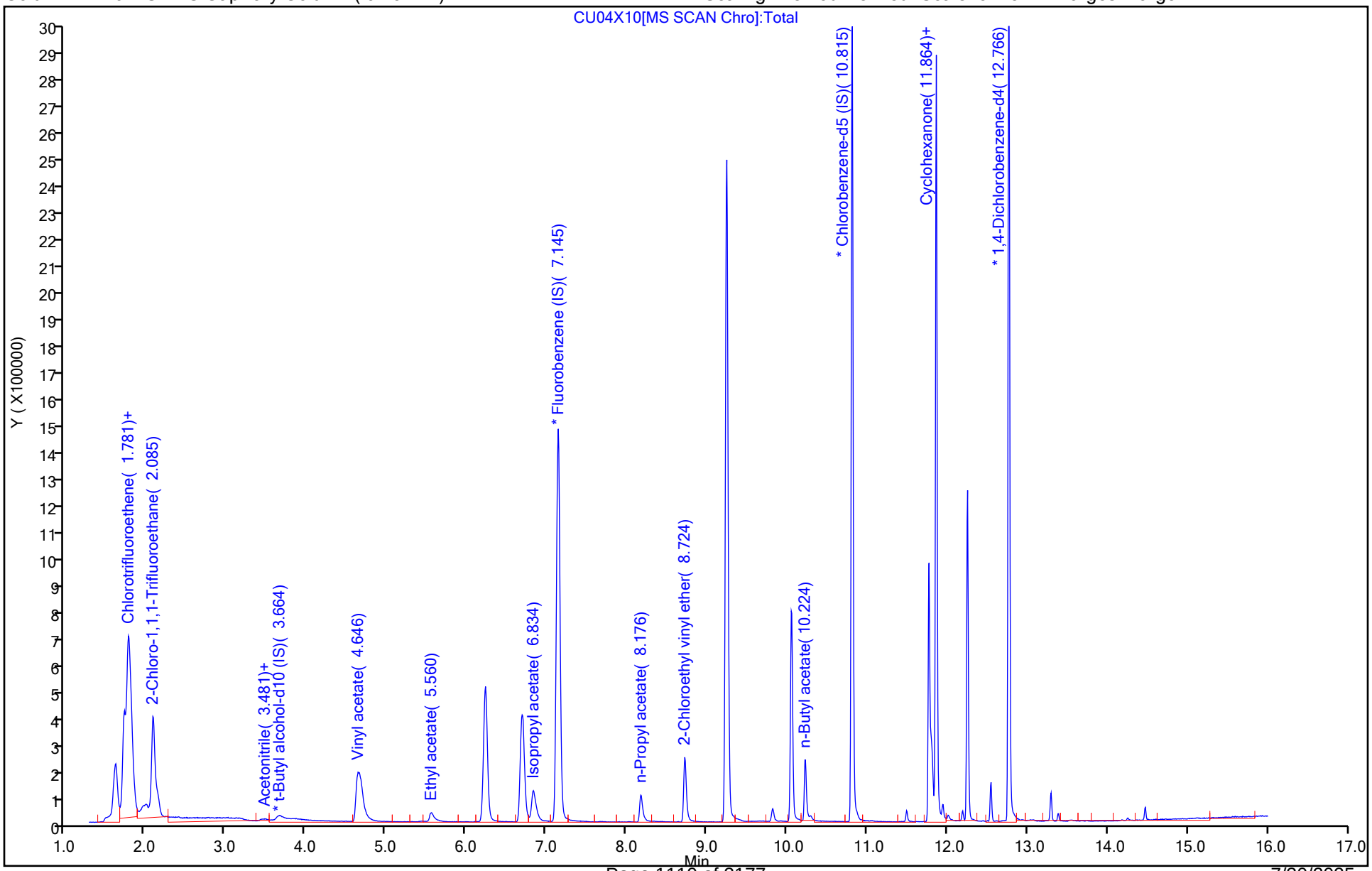
MSV_LCS_V5ACE_00053	Amount Added:	6.25	Units: uL
MSV_LCS_CYC_00011	Amount Added:	12.50	Units: uL
MSV_LCS_LKB_00014	Amount Added:	25.00	Units: uL
MSV_LCS_2CEVE_00231	Amount Added:	12.50	Units: uL
MSV_LCS_SMFre_00089	Amount Added:	12.50	Units: uL
MSV_HP25_ISO_00013	Amount Added:	1.00	Units: uL
MSV_DME_00064	Amount Added:	0.50	Units: uL

Report Date: 06-Jun-2025 08:51:44 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X10.D				
Injection Date:	04-Jun-2025 20:22:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	ICV Sm			Worklist Smp#:	11
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-652703/21 Calibration Date: 06/05/2025 00:04

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CU04X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3256	0.2771	0.1000	4.25	5.00	-14.9	30.0
Chloromethane	Ave	0.3862	0.3526	0.1000	4.57	5.00	-8.7	30.0
1,3-Butadiene	Ave	0.4446	0.3806		4.28	5.00	-14.4	30.0
Vinyl chloride	Ave	0.3413	0.3350	0.1000	4.91	5.00	-1.8	30.0
Bromomethane	Ave	0.2182	0.2029	0.1000	4.65	5.00	-7.0	30.0
Chloroethane	Ave	0.1935	0.1927	0.1000	4.98	5.00	-0.4	30.0
Dichlorofluoromethane	Ave	0.5586	0.5462		4.89	5.00	-2.2	30.0
Trichlorofluoromethane	Ave	0.4317	0.4220	0.1000	4.89	5.00	-2.2	30.0
Ethyl ether	Ave	0.2057	0.2188		5.28	4.96	6.4	30.0
Freon 123a	Ave	0.3018	0.3046		5.05	5.00	0.9	30.0
Acrolein	Ave	1.812	1.864		37.6	36.6	2.8	30.0
1,1-Dichloroethene	Ave	0.2128	0.2369	0.1000	5.57	5.00	11.3	30.0
Acetone	Ave	2.365	2.133	0.1000	56.4	62.5	-9.8	30.0
Freon 113	Ave	0.2211	0.2190	0.1000	4.95	5.00	-0.9	30.0
Methyl iodide	Ave	0.4330	0.4202		4.85	5.00	-3.0	30.0
Ethyl bromide	Ave	0.2041	0.2045		5.02	5.01	0.2	30.0
Carbon disulfide	Ave	0.7842	0.7824	0.1000	4.99	5.00	-0.2	30.0
Methyl acetate	Ave	6.370	6.576	0.1000	5.16	5.00	3.2	30.0
Allyl chloride	Ave	0.4006	0.3968		4.95	5.00	-1.0	30.0
Methylene Chloride	Ave	0.2569	0.2729	0.1000	5.31	5.00	6.2	30.0
t-Butyl alcohol	Ave	0.7429	0.7175		48.3	50.0	-3.4	30.0
Acrylonitrile	Ave	3.469	3.229		23.3	25.0	-6.9	30.0
Methyl tertiary butyl ether	Ave	0.7278	0.7117	0.1000	4.89	5.00	-2.2	30.0
trans-1,2-Dichloroethene	Ave	0.2625	0.2799	0.1000	5.33	5.00	6.6	30.0
n-Hexane	Ave	0.3574	0.3474		4.86	5.00	-2.8	30.0
1,1-Dichloroethane	Ave	0.4780	0.5084	0.2000	5.32	5.00	6.4	30.0
di-Isopropyl ether	Ave	0.8840	0.8763		4.96	5.00	-0.9	30.0
2-Chloro-1,3-butadiene	Ave	0.4217	0.4211		4.99	5.00	-0.2	30.0
Ethyl t-butyl ether	Ave	0.8703	0.8463		4.86	5.00	-2.8	30.0
2-Butanone	Ave	4.540	4.443	0.1000	61.2	62.5	-2.1	30.0
cis-1,2-Dichloroethene	Ave	0.3024	0.3098	0.1000	5.12	5.00	2.4	30.0
2,2-Dichloropropane	Ave	0.3754	0.3550		4.73	5.00	-5.4	30.0
Propionitrile	Ave	1.225	1.317		40.3	37.5	7.5	30.0
Methacrylonitrile	Ave	4.399	4.651		39.7	37.5	5.7	30.0
Bromochloromethane	Ave	0.1350	0.1352		5.01	5.00	0.1	30.0
Tetrahydrofuran	Ave	1.291	1.293		25.0	25.0	0.1	30.0
Chloroform	Ave	0.4853	0.5023	0.2000	5.18	5.00	3.5	30.0
1,1,1-Trichloroethane	Ave	0.4251	0.4455	0.1000	5.24	5.00	4.8	30.0
Cyclohexane	Ave	0.4519	0.4543	0.1000	5.03	5.00	0.5	30.0
Carbon tetrachloride	Ave	0.3622	0.3813	0.1000	5.26	5.00	5.3	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-652703/21 Calibration Date: 06/05/2025 00:04

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CU04X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3815	0.3825		5.01	5.00	0.3	30.0
Isobutyl alcohol	Ave	0.3027	0.3064		127	125	1.2	30.0
Benzene	Ave	1.137	1.178	0.5000	5.18	5.00	3.5	30.0
1,2-Dichloroethane	Ave	0.3111	0.3181	0.1000	5.11	5.00	2.3	30.0
t-Amyl methyl ether	Ave	0.7782	0.7815		5.02	5.00	0.4	30.0
n-Heptane	Ave	0.3521	0.3617		5.14	5.00	2.7	30.0
n-Butanol	Ave	0.2850	0.2966		260	250	4.1	30.0
Trichloroethene	Ave	0.3010	0.3069	0.2000	5.10	5.00	2.0	30.0
Methylcyclohexane	Ave	0.4837	0.4782	0.1000	4.94	5.00	-1.1	30.0
1,2-Dichloropropane	Ave	0.2911	0.2953	0.1000	5.07	5.00	1.5	30.0
1,4-Dioxane	Ave	0.0704	0.0759	0.0050	135	125	7.9	30.0
Dibromomethane	Ave	0.1439	0.1450		5.04	5.00	0.7	30.0
Methyl methacrylate	Ave	9.058	8.748		4.83	5.00	-3.4	30.0
Bromodichloromethane	Ave	0.3547	0.3646	0.2000	5.14	5.00	2.8	30.0
2-Nitropropane	Ave	2.925	2.636		4.51	5.00	-9.9	30.0
1-Bromo-2-chloroethane	Ave	0.2850	0.3063		5.37	5.00	7.5	30.0
cis-1,3-Dichloropropene	Ave	0.4367	0.4217	0.2000	4.83	5.00	-3.4	30.0
4-Methyl-2-pentanone	Ave	12.04	11.73	0.1000	60.9	62.5	-2.6	30.0
Toluene	Ave	0.9711	0.999	0.4000	5.14	5.00	2.9	30.0
trans-1,3-Dichloropropene	Ave	0.4912	0.4944	0.1000	5.03	5.00	0.7	30.0
Ethyl methacrylate	Ave	0.4256	0.4205		4.94	5.00	-1.2	30.0
1,1,2-Trichloroethane	Ave	0.2786	0.2810	0.1000	5.04	5.00	0.9	30.0
Tetrachloroethene	Ave	0.4508	0.4630	0.2000	5.14	5.00	2.7	30.0
1,3-Dichloropropane	Ave	0.4721	0.4762		5.04	5.00	0.9	30.0
2-Hexanone	Ave	8.616	8.765	0.1000	63.6	62.5	1.7	30.0
Dibromochloromethane	Ave	0.3400	0.3491		5.13	5.00	2.7	30.0
1,2-Dibromoethane	Ave	0.2699	0.2731	0.1000	5.06	5.00	1.2	30.0
1-Chlorohexane	Ave	0.5450	0.5384		4.94	5.00	-1.2	30.0
Chlorobenzene	Ave	1.111	1.132	0.5000	5.09	5.00	1.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3783	0.3947		5.22	5.00	4.3	30.0
Ethylbenzene	Ave	1.932	1.969	0.1000	5.10	5.00	1.9	30.0
m&p-Xylene	Ave	0.7503	0.7749	0.1000	10.3	10.0	3.3	30.0
o-Xylene	Ave	0.7400	0.7625	0.3000	5.15	5.00	3.0	30.0
Styrene	Ave	1.231	1.294	0.3000	5.26	5.00	5.1	30.0
Bromoform	Ave	0.1980	0.2096	0.1000	5.29	5.00	5.9	30.0
Isopropylbenzene	Ave	1.705	2.002	0.1000	5.87	5.00	17.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6317	0.6363	0.3000	5.04	5.00	0.7	30.0
Bromobenzene	Ave	0.8876	0.9062		5.10	5.00	2.1	30.0
trans-1,4-Dichloro-2-butene	Ave	0.1513	0.1600		26.4	25.0	5.7	30.0
1,2,3-Trichloropropane	Ave	0.1732	0.1770		5.11	5.00	2.2	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-652703/21 Calibration Date: 06/05/2025 00:04

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CU04X20.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.125	4.267		5.17	5.00	3.4	30.0
2-Chlorotoluene	Ave	0.8481	0.8577		5.06	5.00	1.1	30.0
1,3,5-Trimethylbenzene	Ave	2.985	3.133		5.25	5.00	5.0	30.0
4-Chlorotoluene	Ave	0.8795	0.8988		5.11	5.00	2.2	30.0
tert-Butylbenzene	Ave	0.6849	0.7013		5.12	5.00	2.4	30.0
Pentachloroethane	Ave	0.5264	0.5376		5.11	5.00	2.1	30.0
1,2,4-Trimethylbenzene	Ave	3.067	3.164		5.16	5.00	3.2	30.0
sec-Butylbenzene	Ave	3.811	4.006		5.26	5.00	5.1	30.0
1,3-Dichlorobenzene	Ave	1.702	1.774	0.6000	5.21	5.00	4.2	30.0
p-Isopropyltoluene	Ave	3.330	3.427		5.15	5.00	2.9	30.0
1,4-Dichlorobenzene	Ave	1.777	1.794	0.5000	5.05	5.00	0.9	30.0
1,2,3-Trimethylbenzene	Ave	1.386	1.406		5.07	5.00	1.4	30.0
Benzyl chloride	Ave	0.2218	0.2080		4.69	5.00	-6.2	30.0
n-Butylbenzene	Ave	1.605	1.691		5.27	5.00	5.4	30.0
1,2-Dichlorobenzene	Ave	1.553	1.606	0.4000	5.17	5.00	3.4	30.0
1,2-Dibromo-3-Chloropropane	Ave	0.0844	0.0847	0.0500	5.02	5.00	0.4	30.0
1,3,5-Trichlorobenzene	Ave	1.193	1.252		5.25	5.00	4.9	30.0
1,2,4-Trichlorobenzene	Ave	0.9016	0.9943	0.2000	5.51	5.00	10.3	30.0
Hexachlorobutadiene	Ave	0.5040	0.5369		5.33	5.00	6.5	30.0
Naphthalene	Ave	1.473	1.627		5.52	5.00	10.5	30.0
1,2,3-Trichlorobenzene	Ave	0.6984	0.7554		5.41	5.00	8.2	30.0
2-Methylnaphthalene	Qua		0.6491		5.37	5.00	7.4	30.0
Dibromofluoromethane (Surr)	Ave	0.2360	0.2367		10.0	10.0	0.3	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0487	0.0508		10.4	10.0	4.4	30.0
Toluene-d8 (Surr)	Ave	1.313	1.308		9.96	10.0	-0.4	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4960	0.5032		10.1	10.0	1.5	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 05-Jun-2025 00:04:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0149247-021
Misc. Info.: ICV LG
Operator ID: knk41612 Instrument ID: 10193
Sublist:

Method: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 06-Jun-2025 09:19:08 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1648

First Level Reviewer: DVW2 Date: 05-Jun-2025 10:36:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	100	325547	5.00	4.25	
5 Chloromethane	50	1.945	1.945	0.000	100	414344	5.00	4.57	
7 Butadiene	39	2.018	2.025	-0.007	92	447271	5.00	4.28	
6 Vinyl chloride	62	2.043	2.043	0.000	99	393649	5.00	4.91	
9 Bromomethane	94	2.354	2.348	0.006	90	238377	5.00	4.65	M
10 Chloroethane	64	2.372	2.372	0.000	100	226474	5.00	4.98	
11 Dichlorofluoromethane	67	2.634	2.634	0.000	97	641781	5.00	4.89	M
13 Pentane	43	2.640	2.646	-0.006	96	428656	5.00	4.86	
12 Trichlorofluoromethane	101	2.677	2.677	0.000	98	495848	5.00	4.89	M
14 Ethyl ether	59	2.823	2.823	0.000	93	255297	4.96	5.28	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.927	-0.006	93	357887	5.00	5.05	
17 Acrolein	56	2.976	2.970	0.006	99	263644	36.6	37.6	M
18 1,1-Dichloroethene	96	3.098	3.098	0.000	98	278400	5.00	5.57	
20 Acetone	43	3.116	3.116	0.000	98	515545	62.5	56.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	95	257350	5.00	4.95	
24 Isopropyl alcohol	45	3.256	3.250	0.006	29	61683	37.5	35.5	Ma
22 Iodomethane	142	3.262	3.262	0.000	98	493762	5.00	4.85	
23 Ethyl bromide	108	3.280	3.280	0.000	99	240675	5.01	5.02	
25 Carbon disulfide	76	3.341	3.347	-0.006	99	919398	5.00	4.99	M
26 Methyl acetate	43	3.476	3.469	0.007	98	127149	5.00	5.16	M
29 3-Chloro-1-propene	41	3.500	3.500	0.000	86	466199	5.00	4.95	a
30 Methylene Chloride	84	3.658	3.658	0.000	95	320616	5.00	5.31	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	38	193355	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.768	3.774	-0.006	98	138741	50.0	48.3	
33 Acrylonitrile	53	3.957	3.957	0.000	99	312150	25.0	23.3	
34 Methyl tert-butyl ether	73	4.012	4.018	-0.006	88	836287	5.00	4.89	
35 trans-1,2-Dichloroethene	96	4.012	4.018	-0.006	99	328850	5.00	5.33	
36 Hexane	57	4.414	4.414	0.000	94	408205	5.00	4.86	
37 1,1-Dichloroethane	63	4.658	4.658	0.000	96	597437	5.00	5.32	
39 Isopropyl ether	45	4.725	4.725	0.000	97	1029641	5.00	4.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	93	494753	5.00	4.99	
41 Tert-butyl ethyl ether	59	5.274	5.274	0.000	98	994414	5.00	4.86	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	99	1073739	62.5	61.2	
43 cis-1,2-Dichloroethene	96	5.512	5.512	0.000	84	364007	5.00	5.12	
44 2,2-Dichloropropane	77	5.524	5.530	-0.006	95	417128	5.00	4.73	
45 Propionitrile	54	5.579	5.573	0.006	98	191013	37.5	40.3	
47 Methacrylonitrile	67	5.792	5.798	-0.006	94	674460	37.5	39.7	
48 Chlorobromomethane	128	5.841	5.853	-0.012	93	158812	5.00	5.01	
49 Tetrahydrofuran	71	5.853	5.853	0.000	85	124993	25.0	25.0	
50 Chloroform	83	6.012	6.012	0.000	95	590274	5.00	5.18	
$ 54 Dibromofluoromethane (Surr)	113	6.237	6.231	0.006	93	556274	10.0	10.0	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	84	523448	5.00	5.24	
55 Cyclohexane	56	6.323	6.329	-0.006	92	533846	5.00	5.03	
56 Carbon tetrachloride	117	6.451	6.444	0.007	99	448023	5.00	5.26	
57 1,1-Dichloropropene	75	6.457	6.457	0.000	97	449438	5.00	5.01	
58 Isobutyl alcohol	41	6.658	6.652	0.006	90	148120	125.0	126.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	98	119499	10.0	10.4	
60 Benzene	78	6.719	6.725	-0.006	97	1383746	5.00	5.18	
61 1,2-Dichloroethane	62	6.798	6.798	0.000	97	373750	5.00	5.11	
64 Tert-amyl methyl ether	73	6.926	6.932	-0.006	98	918336	5.00	5.02	
* 65 Fluorobenzene (IS)	96	7.146	7.146	0.000	98	2350088	10.0	10.0	
66 n-Heptane	43	7.164	7.164	0.000	94	425059	5.00	5.14	
67 n-Butanol	56	7.572	7.566	0.006	90	286767	250.0	260.2	
68 Trichloroethene	95	7.633	7.633	0.000	99	360658	5.00	5.10	
69 Methylcyclohexane	83	7.938	7.938	0.000	92	561917	5.00	4.94	
70 1,2-Dichloropropane	63	7.969	7.975	-0.006	96	346994	5.00	5.07	
71 2-ethoxy-2-methyl butane	87	7.999	8.005	-0.006	92	533008	5.00	4.97	
74 1,4-Dioxane	88	8.078	8.072	0.006	53	36688	125.0	134.8	M
73 Methyl methacrylate	69	8.084	8.084	0.000	92	169138	5.00	4.83	
72 Dibromomethane	93	8.084	8.084	0.000	86	170349	5.00	5.04	
76 Dichlorobromomethane	83	8.334	8.334	0.000	99	428365	5.00	5.14	
77 2-Nitropropane	41	8.627	8.621	0.006	98	50971	5.00	4.51	
78 1-Bromo-2-chloroethane	63	8.731	8.731	0.000	99	359913	5.00	5.37	
80 cis-1,3-Dichloropropene	75	8.907	8.907	0.000	95	495467	5.00	4.83	
82 4-Methyl-2-pentanone (MIBK)	43	9.115	9.115	0.000	97	2835416	62.5	60.9	
$ 83 Toluene-d8 (Surr)	98	9.249	9.249	0.000	94	2324271	10.0	9.96	
84 Toluene	92	9.328	9.328	0.000	98	887887	5.00	5.14	
85 trans-1,3-Dichloropropene	75	9.627	9.627	0.000	95	439308	5.00	5.03	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	373664	5.00	4.94	
87 1,1,2-Trichloroethane	97	9.840	9.846	-0.006	91	249700	5.00	5.04	
88 Tetrachloroethene	166	9.925	9.925	0.000	98	411387	5.00	5.14	
89 1,3-Dichloropropane	76	10.017	10.017	0.000	92	423118	5.00	5.04	
106 2-Hexanone	43	10.090	10.090	0.000	97	2118342	62.5	63.6	
108 Chlorodibromomethane	129	10.242	10.242	0.000	90	310186	5.00	5.13	
110 Ethylene Dibromide	107	10.352	10.352	0.000	98	242696	5.00	5.06	
* 111 Chlorobenzene-d5 (IS)	117	10.816	10.816	0.000	86	1777198	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	478441	5.00	4.94	
113 Chlorobenzene	112	10.840	10.840	0.000	95	1006140	5.00	5.09	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	96	350737	5.00	5.22	
115 Ethylbenzene	91	10.937	10.937	0.000	98	1749270	5.00	5.10	
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	97	1377231	10.0	10.3	
118 o-Xylene	106	11.401	11.401	0.000	97	677549	5.00	5.15	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.419	11.419	0.000	95	1150090	5.00	5.26	
120 Bromoform	173	11.578	11.578	0.000	97	186231	5.00	5.29	
121 Isopropylbenzene	105	11.718	11.718	0.000	96	1778958	5.00	5.87	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.864	0.000	91	894314	10.0	10.1	
126 1,1,2,2-Tetrachloroethane	83	11.980	11.980	0.000	93	310350	5.00	5.04	
125 Bromobenzene	156	11.980	11.980	0.000	92	442000	5.00	5.10	
127 trans-1,4-Dichloro-2-butene	53	12.004	12.004	0.000	94	390118	25.0	26.4	
128 1,2,3-Trichloropropane	110	12.023	12.023	0.000	84	86332	5.00	5.11	
129 N-Propylbenzene	91	12.059	12.059	0.000	99	2081530	5.00	5.17	
130 2-Chlorotoluene	126	12.132	12.132	0.000	96	418336	5.00	5.06	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	95	1528349	5.00	5.25	
132 4-Chlorotoluene	126	12.230	12.230	0.000	98	438404	5.00	5.11	
133 tert-Butylbenzene	134	12.449	12.449	0.000	93	342058	5.00	5.12	
134 Pentachloroethane	167	12.480	12.474	0.006	93	262217	5.00	5.11	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	98	1543400	5.00	5.16	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1954055	5.00	5.26	
137 1,3-Dichlorobenzene	146	12.712	12.712	0.000	98	865337	5.00	5.21	
138 4-Isopropyltoluene	119	12.730	12.730	0.000	97	1671785	5.00	5.15	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	96	975535	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	96	874821	5.00	5.05	
141 1,2,3-Trimethylbenzene	120	12.803	12.803	0.000	99	685778	5.00	5.07	
142 Benzyl chloride	126	12.870	12.870	0.000	99	101455	5.00	4.69	
145 p-Diethylbenzene	119	13.010	13.004	0.006	93	1035023	5.00	5.26	
143 n-Butylbenzene	92	13.029	13.029	0.001	98	825055	5.00	5.27	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	783495	5.00	5.17	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	95	41298	5.00	5.02	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	610672	5.00	5.25	
150 1,2,4-Trichlorobenzene	180	14.169	14.169	0.000	94	484965	5.00	5.51	
151 Hexachlorobutadiene	225	14.254	14.254	0.000	97	261903	5.00	5.33	
152 Naphthalene	128	14.351	14.345	0.006	97	793831	5.00	5.52	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	95	368442	5.00	5.41	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	316603	5.00	5.37	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSV_LCS_VOC#1_00222	Amount Added: 12.50	Units: uL	
MSV_QC_Gas826_00263	Amount Added: 12.50	Units: uL	
MSV_LCS_EE_00011	Amount Added: 12.50	Units: uL	
LCS_ETBR_00010	Amount Added: 12.50	Units: uL	
MSV_LCS_ACROL_00229	Amount Added: 12.50	Units: uL	
MSV_LCS_Penta_00056	Amount Added: 12.50	Units: uL	
MSV_HP25_ISSS_00114	Amount Added: 1.00	Units: uL	Run Reagent

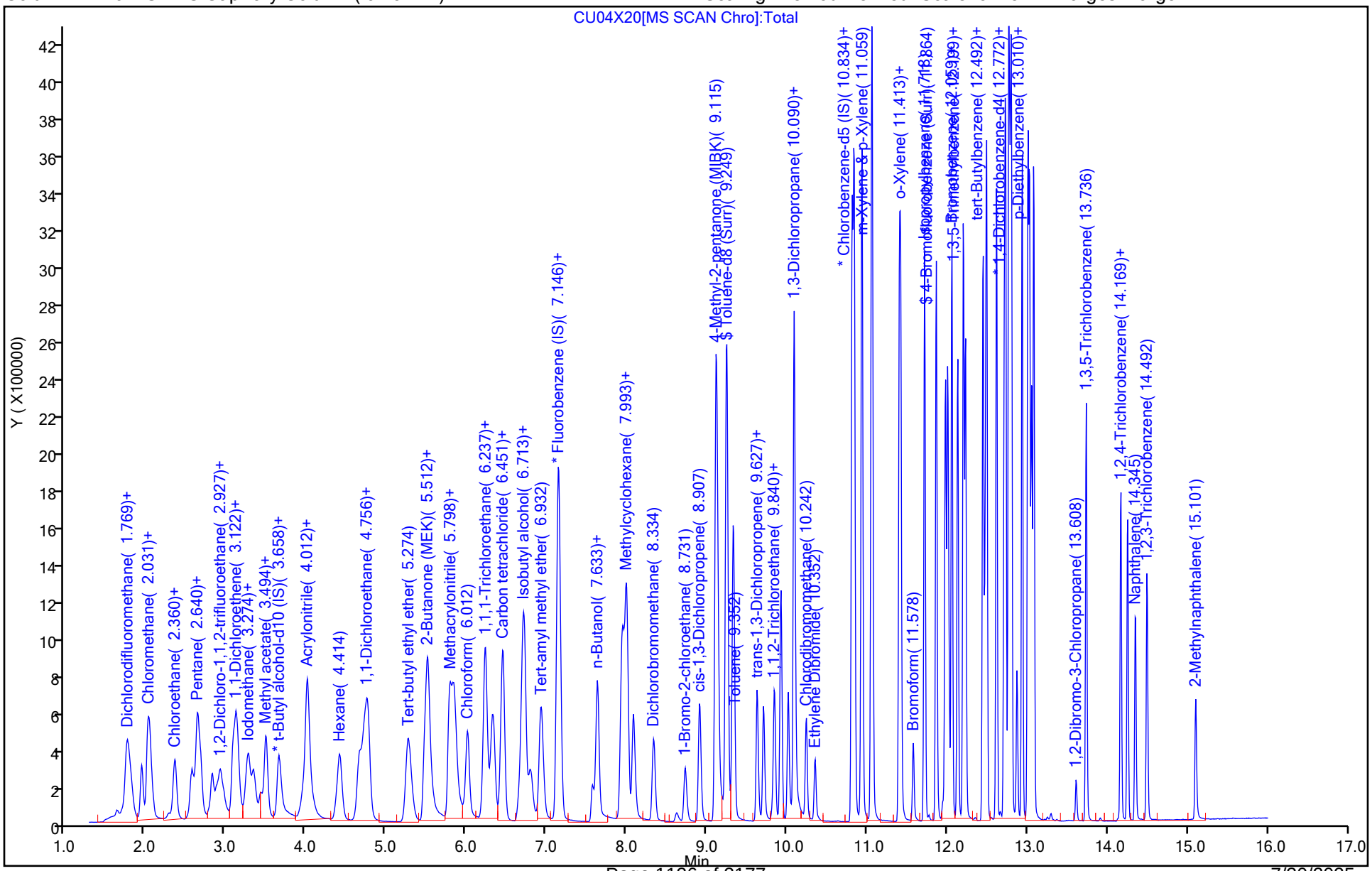
Report Date: 06-Jun-2025 09:19:52 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D

Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	ICV			Worklist Smp#:	21
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

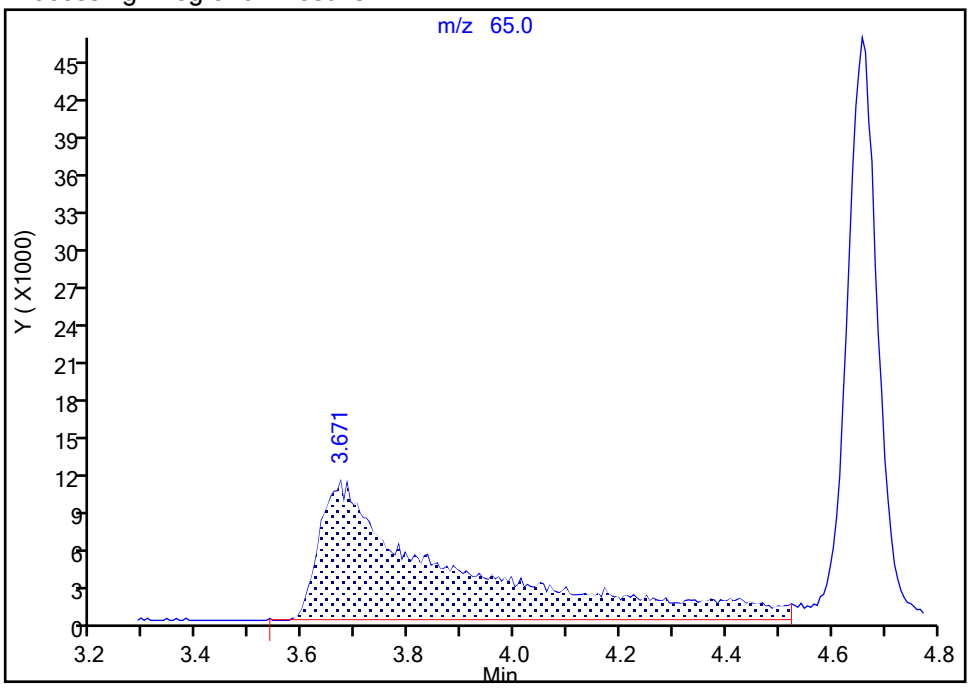
Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D
Injection Date: 05-Jun-2025 00:04:30 Instrument ID: 10193
Lims ID: ICV
Client ID:
Operator ID: knk41612 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Column: Rxi-624Sil MS Capillary Column (0.25mm) Detector MS Quad

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

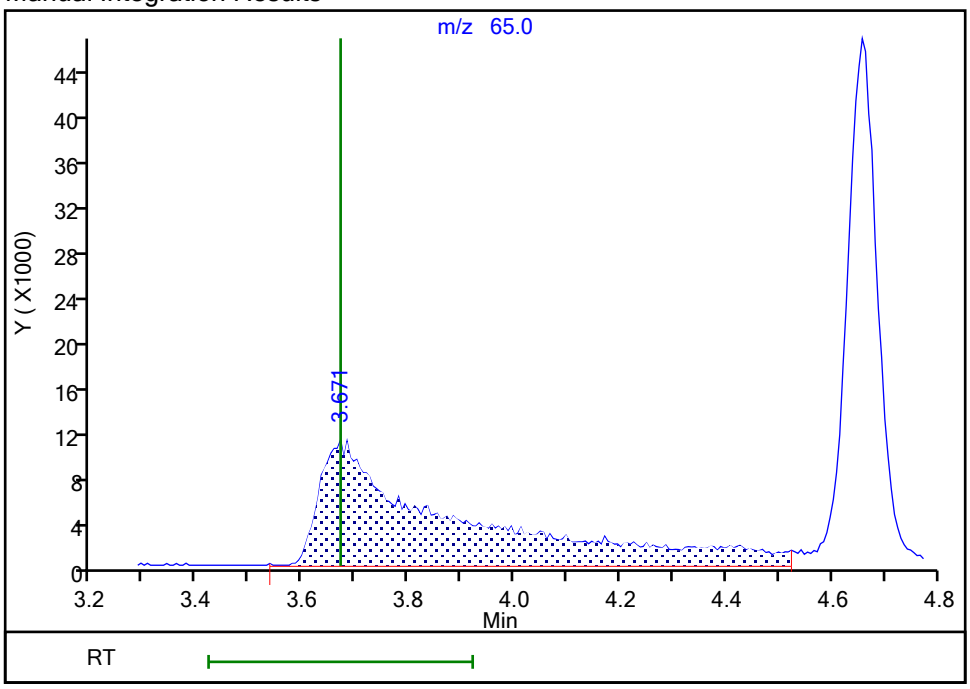
Processing Integration Results

RT: 3.67
Area: 188734
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.67
Area: 193355
Amount: 50.000000
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:01:16 -04:00:00 (UTC)
Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

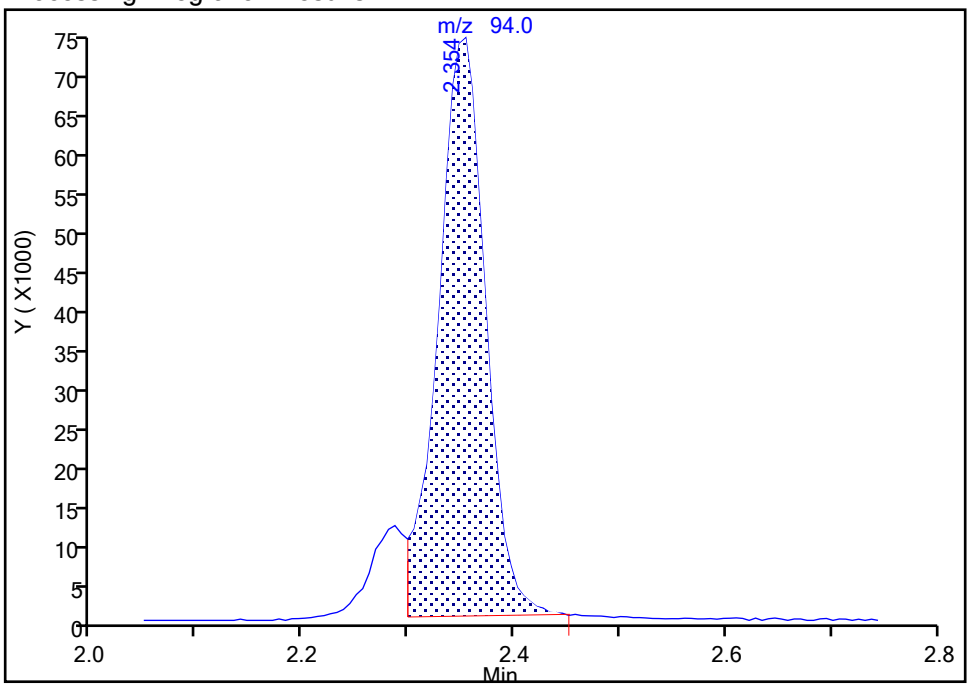
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

9 Bromomethane, CAS: 74-83-9

Signal: 1

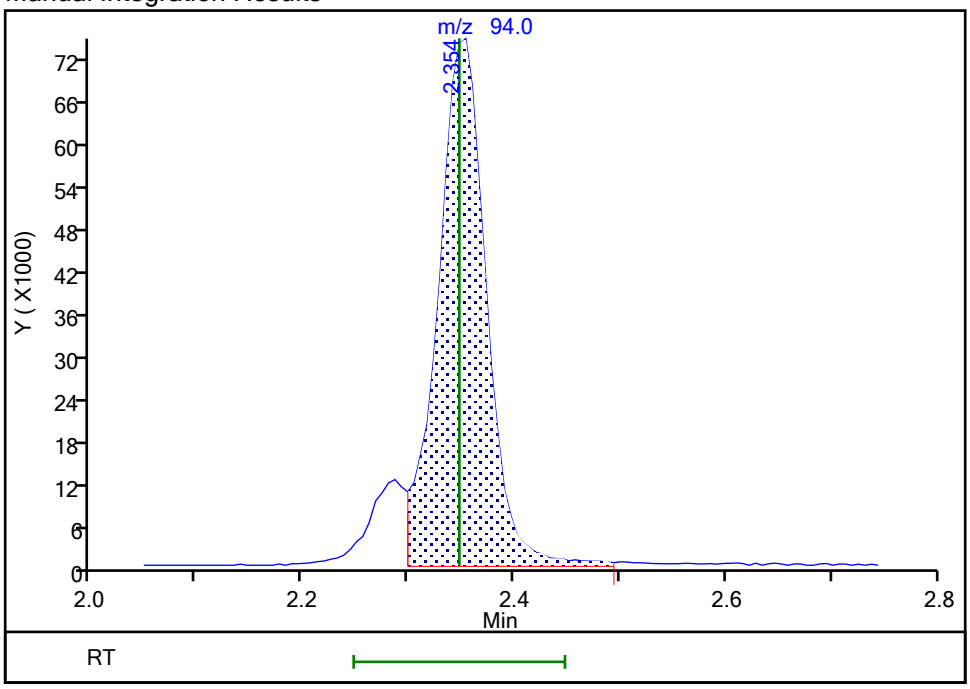
Processing Integration Results

RT: 2.35
Area: 232556
Amount: 4.535775
Amount Units: ug/l



Manual Integration Results

RT: 2.35
Area: 238377
Amount: 4.649308
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:04:19 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

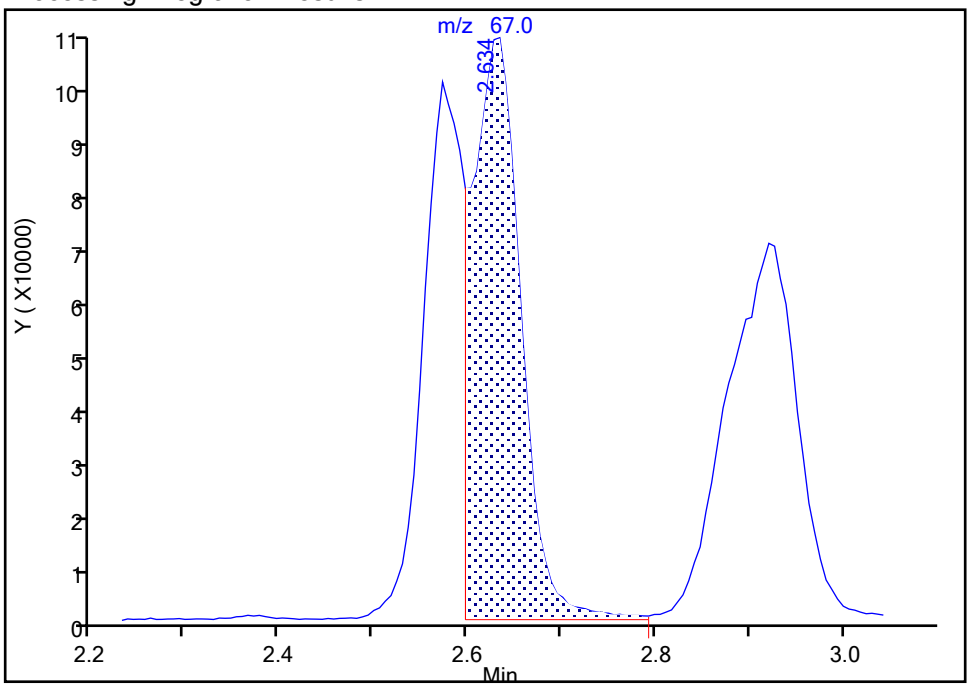
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

11 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

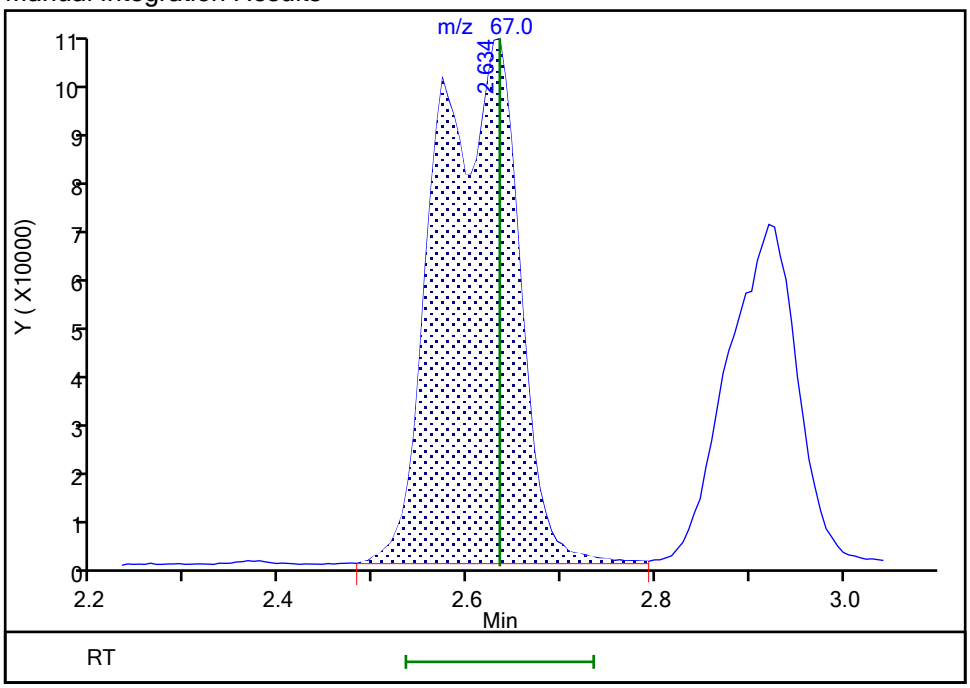
Processing Integration Results

RT: 2.63
Area: 386755
Amount: 2.946103
Amount Units: ug/l



Manual Integration Results

RT: 2.63
Area: 641781
Amount: 4.888762
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:58:53 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

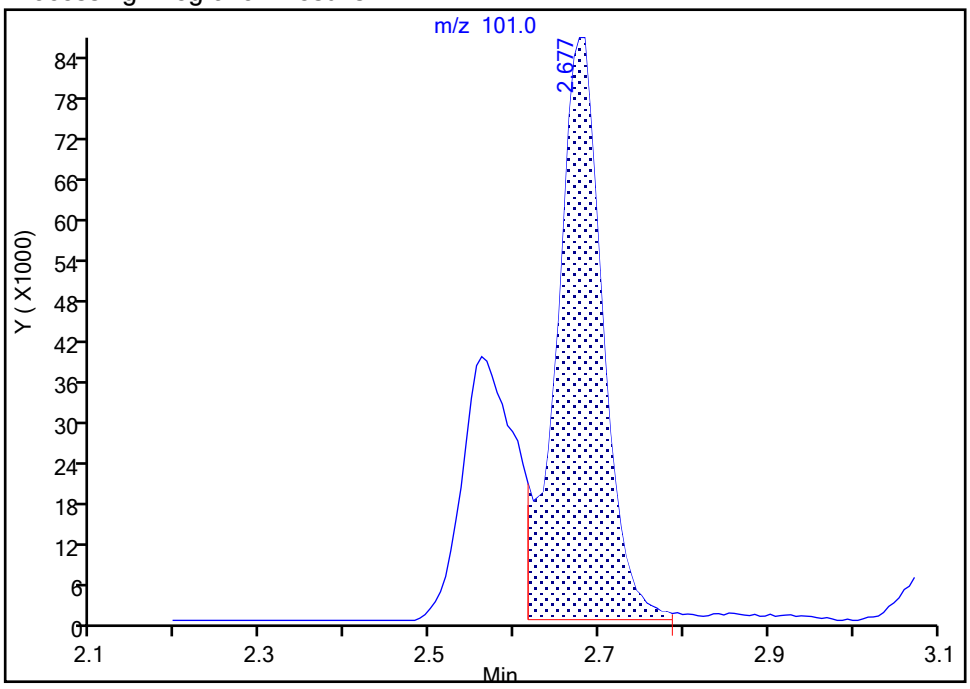
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

12 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

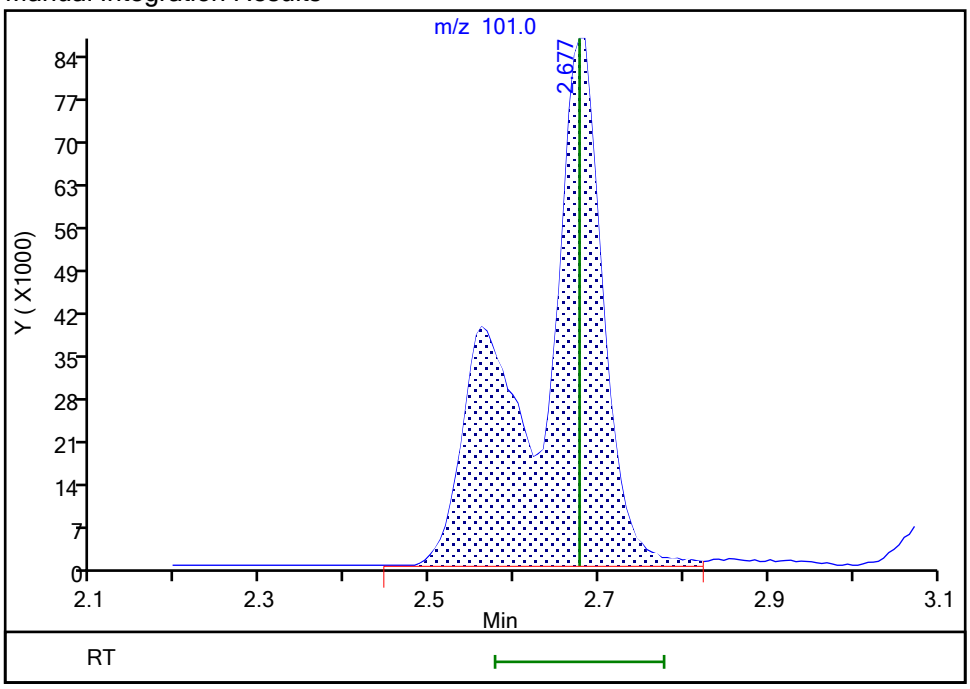
Processing Integration Results

RT: 2.68
Area: 330416
Amount: 3.256404
Amount Units: ug/l



Manual Integration Results

RT: 2.68
Area: 495848
Amount: 4.887614
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:03:01 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

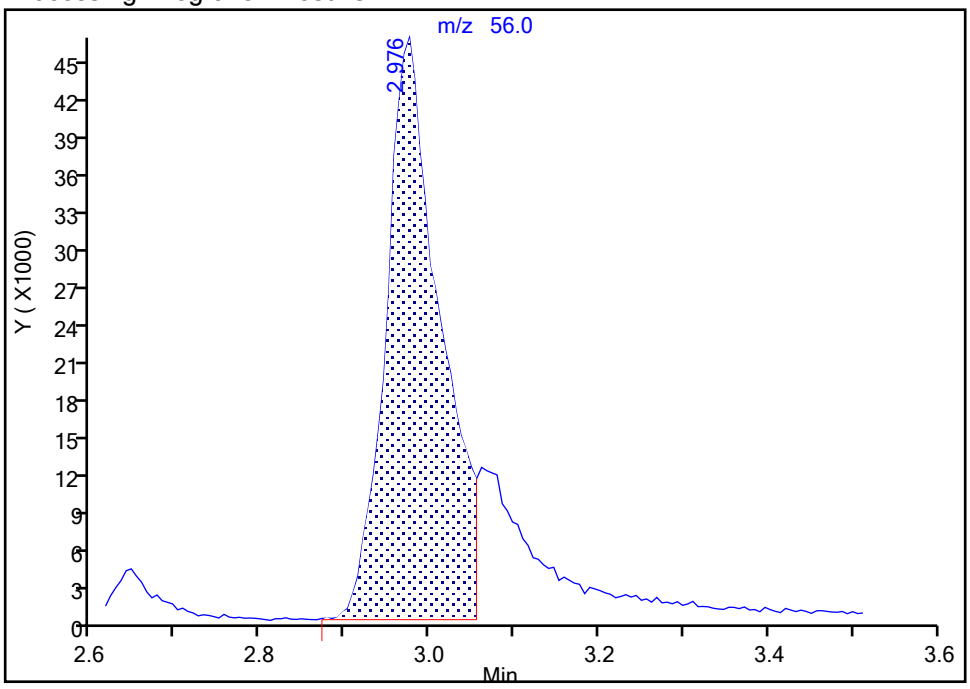
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

17 Acrolein, CAS: 107-02-8

Signal: 1

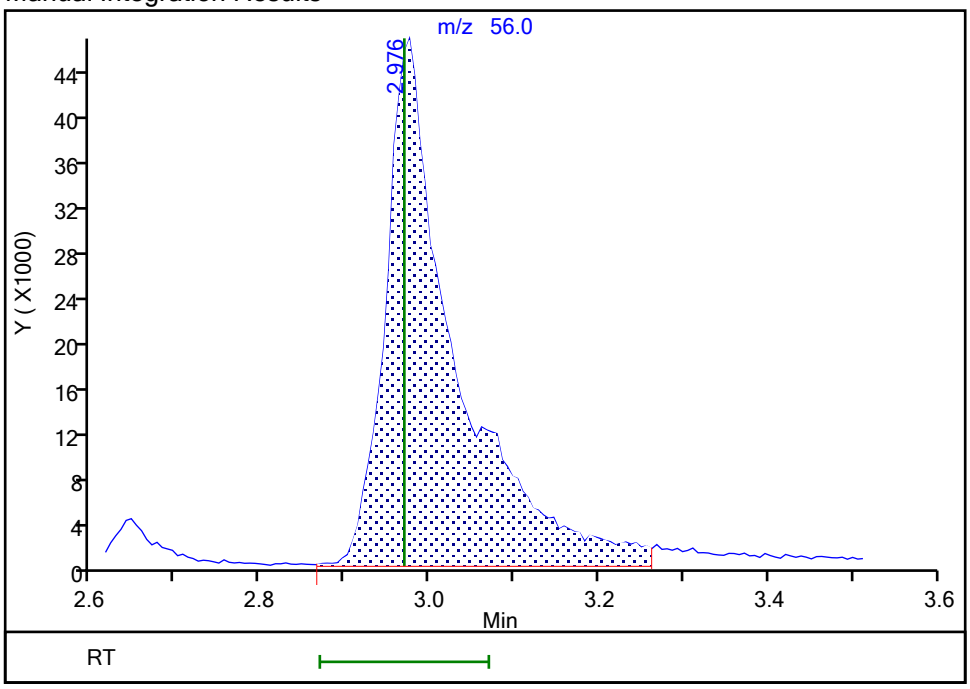
Processing Integration Results

RT: 2.98
Area: 204077
Amount: 29.833838
Amount Units: ug/l



Manual Integration Results

RT: 2.98
Area: 263644
Amount: 37.620772
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 10:59:28 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

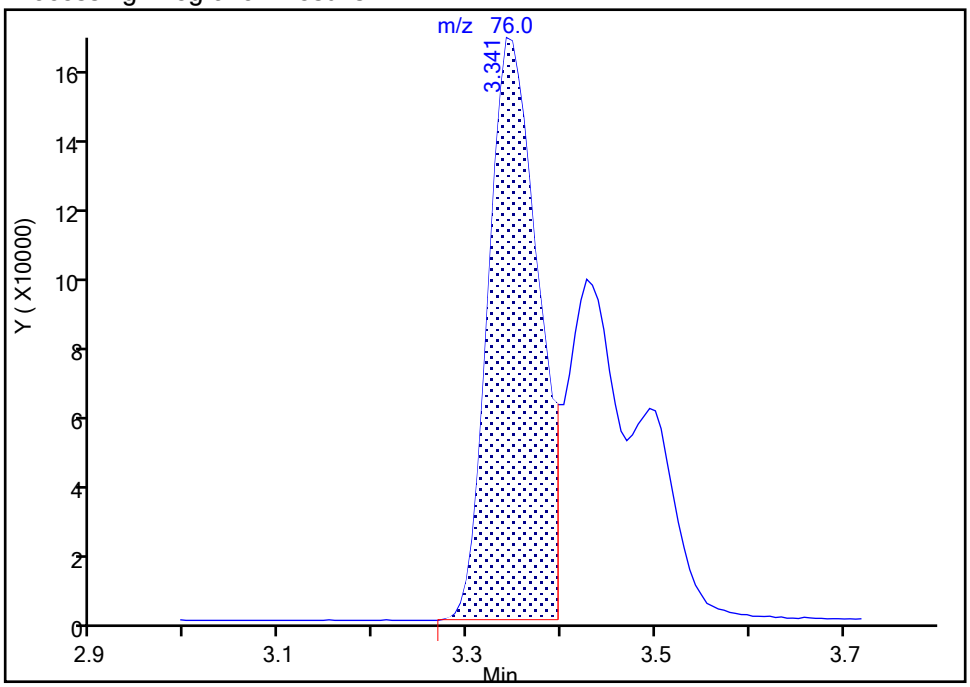
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

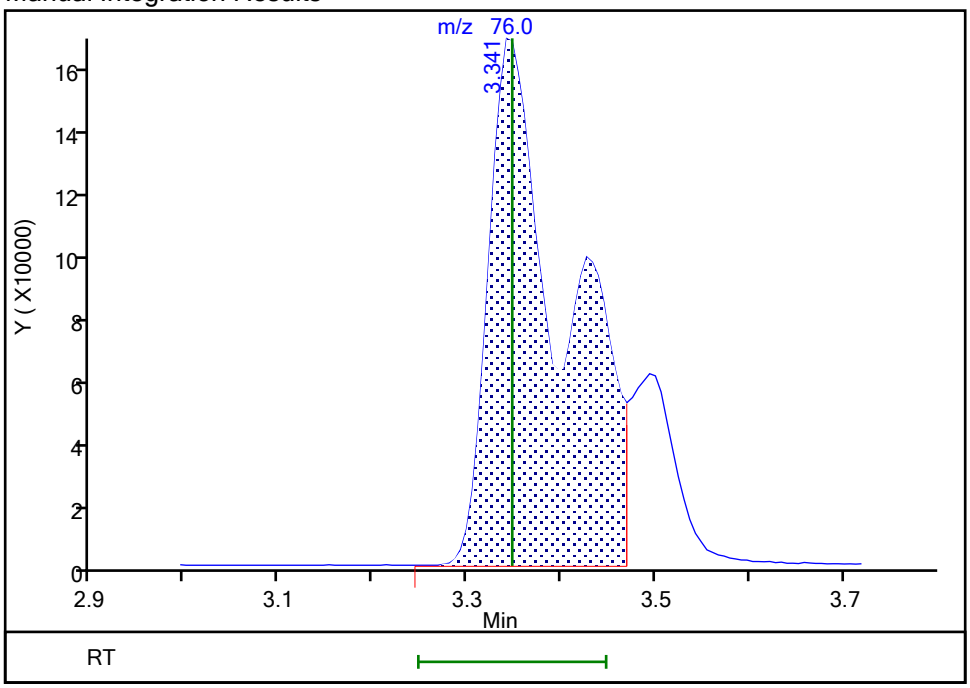
Processing Integration Results

RT: 3.34
Area: 597943
Amount: 3.241516
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 919398
Amount: 4.988885
Amount Units: ug/l



Reviewer: UKEK, 06-Jun-2025 08:02:43 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Other

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

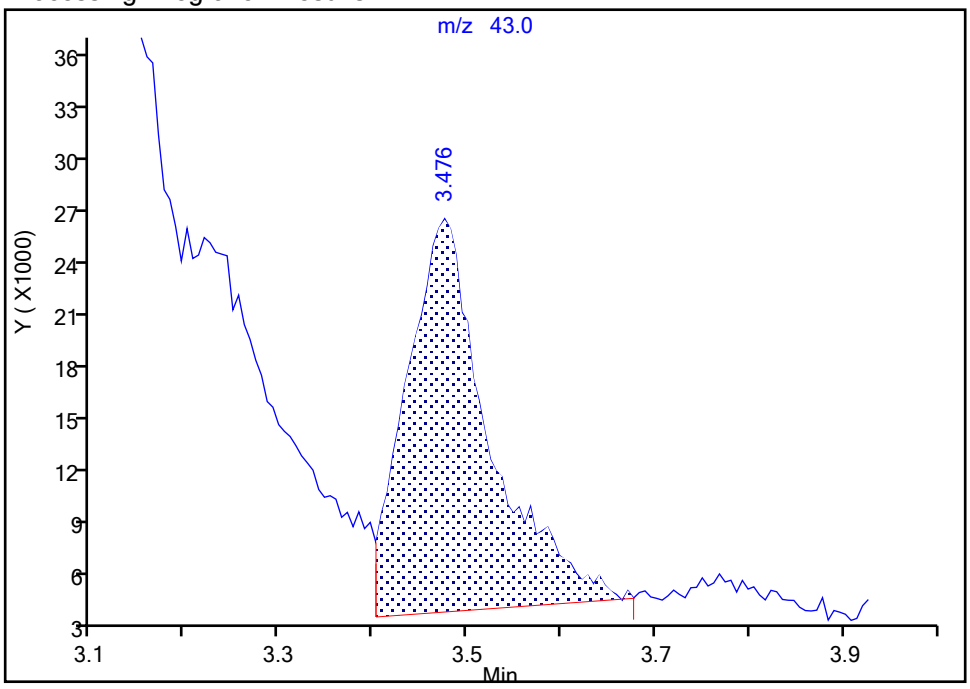
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

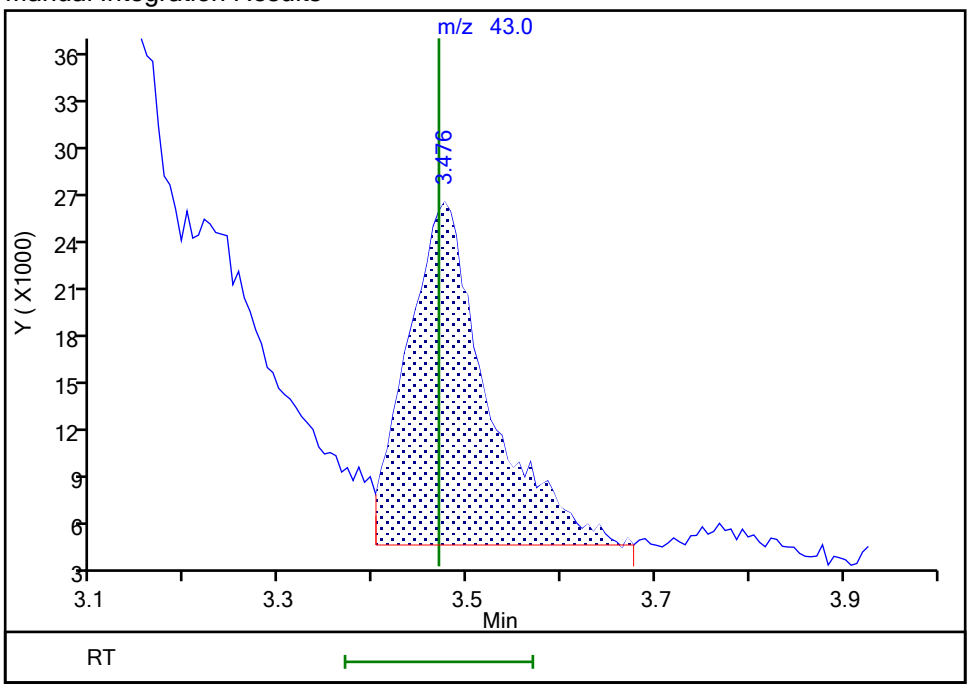
Processing Integration Results

RT: 3.48
Area: 135470
Amount: 5.634102
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 127149
Amount: 5.161658
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:00:59 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

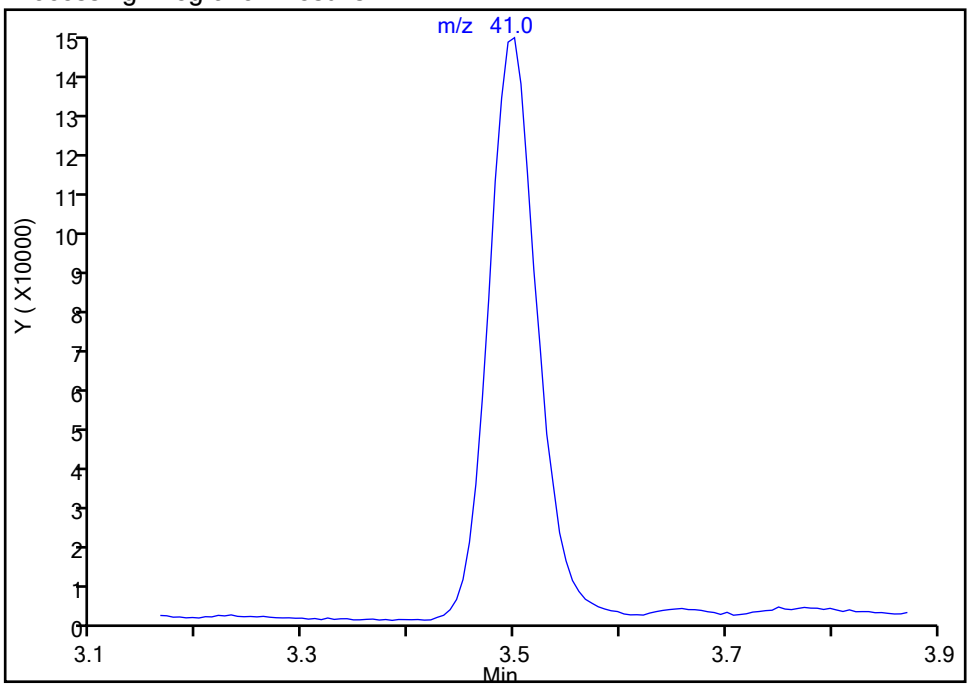
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

29 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

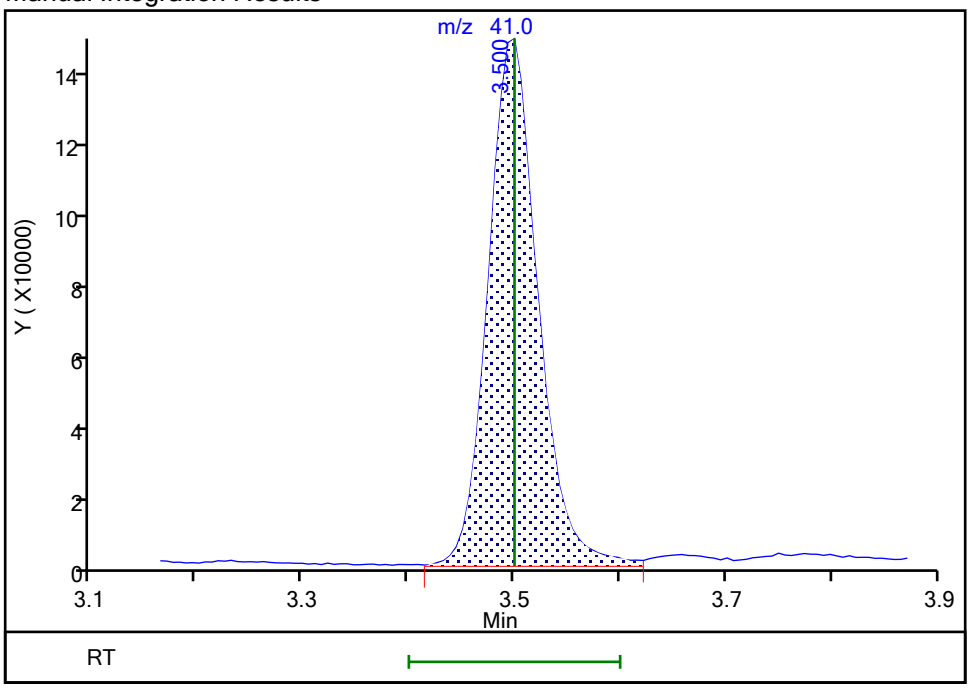
Not Detected
Expected RT: 3.50

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 466199
Amount: 4.951395
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:01:05 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

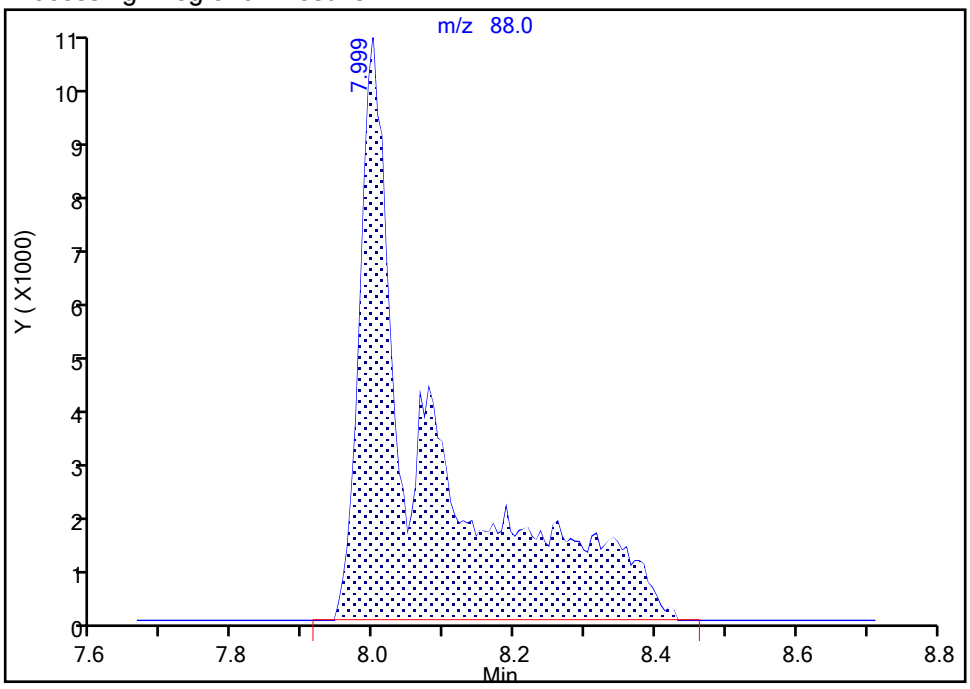
Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X20.D				
Injection Date:	05-Jun-2025 00:04:30	Instrument ID:	10193		
Lims ID:	ICV				
Client ID:					
Operator ID:	knk41612	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

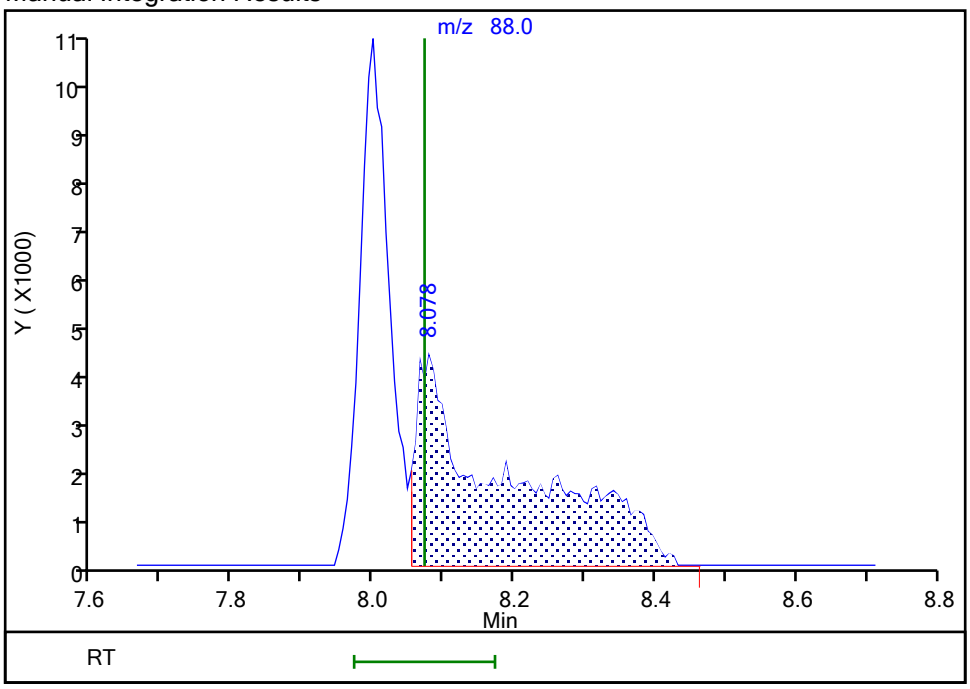
Processing Integration Results

RT: 8.00
Area: 66342
Amount: 252.0813
Amount Units: ug/l



Manual Integration Results

RT: 8.08
Area: 36688
Amount: 134.8374
Amount Units: ug/l



Reviewer: DVW2, 05-Jun-2025 11:01:30 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668089/3 Calibration Date: 07/08/2025 10:09

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CL08X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3256	0.2732	0.1000	10.5	12.5	-16.1	20.0
Chloromethane	Ave	0.3862	0.3598	0.1000	11.6	12.5	-6.8	20.0
1,3-Butadiene	Ave	0.4446	0.3965		11.1	12.5	-10.8	20.0
Vinyl chloride	Ave	0.3413	0.3288	0.1000	12.0	12.5	-3.7	20.0
Bromomethane	Ave	0.2182	0.2335	0.1000	13.4	12.5	7.0	20.0
Chloroethane	Ave	0.1935	0.1850	0.1000	12.0	12.5	-4.4	20.0
Dichlorofluoromethane	Ave	0.5586	0.5407		12.1	12.5	-3.2	20.0
Trichlorofluoromethane	Ave	0.4317	0.4235	0.1000	12.3	12.5	-1.9	20.0
Ethyl ether	Ave	0.2057	0.2039		12.4	12.5	-0.9	20.0
Freon 123a	Ave	0.3018	0.2962		12.3	12.5	-1.9	20.0
Acrolein	Ave	1.812	2.058		693	610	13.6	20.0
1,1-Dichloroethene	Ave	0.2128	0.2011	0.1000	11.8	12.5	-5.5	20.0
Acetone	Ave	2.365	2.506	0.1000	132	125	5.9	20.0
Freon 113	Ave	0.2211	0.2196	0.1000	12.4	12.5	-0.7	20.0
Methyl iodide	Ave	0.4330	0.4561		13.2	12.5	5.3	20.0
Ethyl bromide	Ave	0.2041	0.2011		12.3	12.5	-1.4	20.0
Carbon disulfide	Ave	0.7842	0.8252	0.1000	13.2	12.5	5.2	20.0
Methyl acetate	Ave	6.370	7.510	0.1000	14.7	12.5	17.9	20.0
Allyl chloride	Ave	0.4006	0.4058		12.7	12.5	1.3	20.0
Methylene Chloride	Ave	0.2569	0.2608	0.1000	12.7	12.5	1.5	20.0
t-Butyl alcohol	Ave	0.7429	0.8391		282	250	13.0	20.0
Acrylonitrile	Ave	3.469	3.670		33.1	31.3	5.8	20.0
Methyl tertiary butyl ether	Ave	0.7278	0.6885	0.1000	11.8	12.5	-5.4	20.0
trans-1,2-Dichloroethene	Ave	0.2625	0.2602	0.1000	12.4	12.5	-0.9	20.0
n-Hexane	Ave	0.3574	0.3296		11.5	12.5	-7.8	20.0
1,1-Dichloroethane	Ave	0.4780	0.4727	0.2000	12.4	12.5	-1.1	20.0
di-Isopropyl ether	Ave	0.8840	0.8728		12.3	12.5	-1.3	20.0
2-Chloro-1,3-butadiene	Ave	0.4217	0.4055		12.0	12.5	-3.8	20.0
Ethyl t-butyl ether	Ave	0.8703	0.8252		11.9	12.5	-5.2	20.0
2-Butanone	Ave	4.540	4.925	0.1000	136	125	8.5	20.0
cis-1,2-Dichloroethene	Ave	0.3024	0.3016	0.1000	12.5	12.5	-0.3	20.0
2,2-Dichloropropane	Ave	0.3754	0.3958		13.2	12.5	5.4	20.0
Propionitrile	Ave	1.225	1.422		290	250	16.1	20.0
Methacrylonitrile	Ave	4.399	5.113		145	125	16.2	20.0
Bromochloromethane	Ave	0.1350	0.1387		12.8	12.5	2.7	20.0
Tetrahydrofuran	Ave	1.291	1.467		71.0	62.5	13.7	20.0
Chloroform	Ave	0.4853	0.4867	0.2000	12.5	12.5	0.3	20.0
1,1,1-Trichloroethane	Ave	0.4251	0.4263	0.1000	12.5	12.5	0.3	20.0
Cyclohexane	Ave	0.4519	0.4280	0.1000	11.8	12.5	-5.3	20.0
Carbon tetrachloride	Ave	0.3622	0.3766	0.1000	13.0	12.5	4.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668089/3 Calibration Date: 07/08/2025 10:09

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CL08X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3815	0.3711		12.2	12.5	-2.7	20.0
Isobutyl alcohol	Ave	0.3027	0.3614		746	625	19.4	20.0
Benzene	Ave	1.137	1.139	0.5000	12.5	12.5	0.2	20.0
1,2-Dichloroethane	Ave	0.3111	0.2986	0.1000	12.0	12.5	-4.0	20.0
t-Amyl methyl ether	Ave	0.7782	0.7524		12.1	12.5	-3.3	20.0
n-Heptane	Ave	0.3521	0.3464		12.3	12.5	-1.6	20.0
n-Butanol	Ave	0.2850	0.3356		1290	1090	17.8	20.0
Trichloroethene	Ave	0.3010	0.2972	0.2000	12.3	12.5	-1.3	20.0
Methylcyclohexane	Ave	0.4837	0.4535	0.1000	11.7	12.5	-6.2	20.0
1,2-Dichloropropane	Ave	0.2911	0.2900	0.1000	12.5	12.5	-0.4	20.0
1,4-Dioxane	Ave	0.0704	0.0833	0.0050	740	625	18.4	20.0
Dibromomethane	Ave	0.1439	0.1460		12.7	12.5	1.5	20.0
Methyl methacrylate	Ave	9.058	9.527		13.1	12.5	5.2	20.0
Bromodichloromethane	Ave	0.3547	0.3604	0.2000	12.7	12.5	1.6	20.0
2-Nitropropane	Ave	2.925	3.007		64.2	62.5	2.8	20.0
1-Bromo-2-chloroethane	Ave	0.2850	0.3082		13.5	12.5	8.1	20.0
cis-1,3-Dichloropropene	Ave	0.4367	0.4434	0.2000	12.7	12.5	1.5	20.0
4-Methyl-2-pentanone	Ave	12.04	13.62	0.1000	141	125	13.1	20.0
Toluene	Ave	0.9711	0.9504	0.4000	12.2	12.5	-2.1	20.0
trans-1,3-Dichloropropene	Ave	0.4912	0.5075	0.1000	12.9	12.5	3.3	20.0
Ethyl methacrylate	Ave	0.4256	0.4149		12.2	12.5	-2.5	20.0
1,1,2-Trichloroethane	Ave	0.2786	0.2769	0.1000	12.4	12.5	-0.6	20.0
Tetrachloroethene	Ave	0.4508	0.4541	0.2000	12.6	12.5	0.7	20.0
1,3-Dichloropropane	Ave	0.4721	0.4760		12.6	12.5	0.8	20.0
2-Hexanone	Ave	8.616	9.765	0.1000	142	125	13.3	20.0
Dibromochloromethane	Ave	0.3400	0.3672		13.5	12.5	8.0	20.0
1,2-Dibromoethane	Ave	0.2699	0.2825	0.1000	13.1	12.5	4.7	20.0
1-Chlorohexane	Ave	0.5450	0.5159		11.8	12.5	-5.3	20.0
Chlorobenzene	Ave	1.111	1.110	0.5000	12.5	12.5	-0.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3783	0.4049		13.4	12.5	7.0	20.0
Ethylbenzene	Ave	1.932	1.939	0.1000	12.5	12.5	0.4	20.0
m&p-Xylene	Ave	0.7503	0.7627	0.1000	25.4	25.0	1.6	20.0
o-Xylene	Ave	0.7400	0.7485	0.3000	12.6	12.5	1.2	20.0
Styrene	Ave	1.231	1.272	0.3000	12.9	12.5	3.3	20.0
Bromoform	Ave	0.1980	0.2278	0.1000	14.4	12.5	15.0	20.0
Isopropylbenzene	Ave	1.705	1.740	0.1000	12.8	12.5	2.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6317	0.6172	0.3000	12.2	12.5	-2.3	20.0
Bromobenzene	Ave	0.8876	0.8590		12.1	12.5	-3.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1513	0.1556		129	125	2.9	20.0
1,2,3-Trichloropropane	Ave	0.1732	0.1716		12.4	12.5	-0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668089/3 Calibration Date: 07/08/2025 10:09

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CL08X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.125	3.970		12.0	12.5	-3.8	20.0
2-Chlorotoluene	Ave	0.8481	0.8081		11.9	12.5	-4.7	20.0
1,3,5-Trimethylbenzene	Ave	2.985	2.917		12.2	12.5	-2.3	20.0
4-Chlorotoluene	Ave	0.8795	0.8590		12.2	12.5	-2.3	20.0
tert-Butylbenzene	Ave	0.6849	0.6466		11.8	12.5	-5.6	20.0
Pentachloroethane	Ave	0.5264	0.5058		12.0	12.5	-3.9	20.0
1,2,4-Trimethylbenzene	Ave	3.067	3.016		12.3	12.5	-1.7	20.0
sec-Butylbenzene	Ave	3.811	3.735		12.3	12.5	-2.0	20.0
1,3-Dichlorobenzene	Ave	1.702	1.703	0.6000	12.5	12.5	0.0	20.0
p-Isopropyltoluene	Ave	3.330	3.304		12.4	12.5	-0.8	20.0
1,4-Dichlorobenzene	Ave	1.777	1.746	0.5000	12.3	12.5	-1.7	20.0
1,2,3-Trimethylbenzene	Ave	1.386	1.332		12.0	12.5	-3.9	20.0
Benzyl chloride	Ave	0.2218	0.2705		15.2	12.5	21.9*	20.0
n-Butylbenzene	Ave	1.605	1.606		12.5	12.5	0.0	20.0
1,2-Dichlorobenzene	Ave	1.553	1.574	0.4000	12.7	12.5	1.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0844	0.0879	0.0500	13.0	12.5	4.2	20.0
1,3,5-Trichlorobenzene	Ave	1.193	1.257		13.2	12.5	5.4	20.0
1,2,4-Trichlorobenzene	Ave	0.9016	0.9824	0.2000	13.6	12.5	9.0	20.0
Hexachlorobutadiene	Ave	0.5040	0.5307		13.2	12.5	5.3	20.0
Naphthalene	Ave	1.473	1.612		13.7	12.5	9.4	20.0
1,2,3-Trichlorobenzene	Ave	0.6984	0.7948		14.2	12.5	13.8	20.0
2-Methylnaphthalene	Qua		0.5792		11.0	12.5	-12.1	20.0
Dibromofluoromethane (Surr)	Ave	0.2360	0.2426		10.3	10.0	2.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0487	0.0497		10.2	10.0	2.1	20.0
Toluene-d8 (Surr)	Ave	1.313	1.313		10.0	10.0	-0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4960	0.4992		10.1	10.0	0.7	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jul-2025 10:09:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: ecr105096 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:48:56 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 11:07:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.750	1.750	0.000	100	709568	12.5	10.5	
5 Chloromethane	50	1.933	1.933	0.000	100	934309	12.5	11.6	
7 Butadiene	39	2.012	2.012	0.000	93	1029777	12.5	11.1	
6 Vinyl chloride	62	2.031	2.031	0.000	98	854000	12.5	12.0	
9 Bromomethane	94	2.329	2.329	0.000	91	606419	12.5	13.4	
10 Chloroethane	64	2.360	2.360	0.000	100	480426	12.5	12.0	
11 Dichlorofluoromethane	67	2.573	2.573	0.000	98	1404098	12.5	12.1	
13 Pentane	43	2.634	2.634	0.000	97	946340	12.5	12.1	
12 Trichlorofluoromethane	101	2.658	2.658	0.000	100	1099681	12.5	12.3	
14 Ethyl ether	59	2.817	2.817	0.000	93	529580	12.5	12.4	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.915	2.915	0.000	92	769148	12.5	12.3	
17 Acrolein	56	2.963	2.963	0.000	99	3869268	609.9	692.8	
18 1,1-Dichloroethene	96	3.079	3.079	0.000	99	522228	12.5	11.8	
20 Acetone	43	3.110	3.110	0.000	99	965318	125.0	132.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.134	3.134	0.000	93	570278	12.5	12.4	
22 Iodomethane	142	3.244	3.244	0.000	98	1184435	12.5	13.2	
24 Isopropyl alcohol	45	3.262	3.262	0.000	42	452106	250.0	326.1	
23 Ethyl bromide	108	3.268	3.268	0.000	99	521793	12.5	12.3	
25 Carbon disulfide	76	3.335	3.335	0.000	99	2143003	12.5	13.2	M
26 Methyl acetate	43	3.469	3.469	0.000	20	289334	12.5	14.7	M
29 3-Chloro-1-propene	41	3.481	3.481	0.000	91	1053732	12.5	12.7	
30 Methylene Chloride	84	3.646	3.646	0.000	92	677309	12.5	12.7	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.664	0.000	47	154100	50.0	50.0	
32 2-Methyl-2-propanol	59	3.768	3.768	0.000	98	646506	250.0	282.4	
33 Acrylonitrile	53	3.945	3.945	0.000	100	353477	31.3	33.1	
34 Methyl tert-butyl ether	73	4.000	4.000	0.000	88	1787933	12.5	11.8	
35 trans-1,2-Dichloroethene	96	4.000	4.000	0.000	99	675710	12.5	12.4	
36 Hexane	57	4.402	4.402	0.000	95	855938	12.5	11.5	
37 1,1-Dichloroethane	63	4.646	4.646	0.000	97	1227495	12.5	12.4	
39 Isopropyl ether	45	4.713	4.713	0.000	94	2266559	12.5	12.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.756	4.756	0.000	92	1053124	12.5	12.0	
41 Tert-butyl ethyl ether	59	5.262	5.262	0.000	98	2143037	12.5	11.9	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	100	1897509	125.0	135.6	
43 cis-1,2-Dichloroethene	96	5.505	5.505	0.000	83	783144	12.5	12.5	
44 2,2-Dichloropropane	77	5.512	5.512	0.000	88	1027949	12.5	13.2	
45 Propionitrile	54	5.573	5.573	0.000	99	1095484	250.0	290.1	
47 Methacrylonitrile	67	5.786	5.786	0.000	92	1969648	125.0	145.3	
48 Chlorobromomethane	128	5.835	5.835	0.000	94	360105	12.5	12.8	
49 Tetrahydrofuran	71	5.841	5.841	0.000	72	282649	62.5	71.0	
50 Chloroform	83	5.999	5.999	0.000	95	1263830	12.5	12.5	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	78	503967	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.225	6.225	0.000	98	1106982	12.5	12.5	
55 Cyclohexane	56	6.322	6.322	0.000	92	1111619	12.5	11.8	
56 Carbon tetrachloride	117	6.438	6.438	0.000	98	977966	12.5	13.0	
57 1,1-Dichloropropene	75	6.444	6.444	0.000	97	963783	12.5	12.2	
58 Isobutyl alcohol	41	6.645	6.645	0.000	92	696159	625.0	746.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.682	0.000	99	103266	10.0	10.2	
60 Benzene	78	6.713	6.713	0.000	97	2958575	12.5	12.5	
61 1,2-Dichloroethane	62	6.792	6.792	0.000	98	775430	12.5	12.0	
64 Tert-amyl methyl ether	73	6.920	6.920	0.000	98	1953992	12.5	12.1	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	2077564	10.0	10.0	
66 n-Heptane	43	7.151	7.151	0.000	92	899484	12.5	12.3	
67 n-Butanol	56	7.566	7.566	0.000	90	1131403	1093.8	1288.0	
68 Trichloroethene	95	7.627	7.627	0.000	99	771778	12.5	12.3	
69 Methylcyclohexane	83	7.932	7.932	0.000	92	1177657	12.5	11.7	
70 1,2-Dichloropropane	63	7.968	7.968	0.000	97	753108	12.5	12.5	
71 2-ethoxy-2-methyl butane	87	7.993	7.993	0.000	93	1170060	12.5	12.4	
74 1,4-Dioxane	88	8.072	8.072	0.000	33	160450	625.0	739.9	
72 Dibromomethane	93	8.078	8.078	0.000	84	379265	12.5	12.7	
73 Methyl methacrylate	69	8.078	8.078	0.000	92	367010	12.5	13.1	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	935915	12.5	12.7	
77 2-Nitropropane	41	8.615	8.615	0.000	99	579245	62.5	64.2	
78 1-Bromo-2-chloroethane	63	8.718	8.718	0.000	99	800376	12.5	13.5	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	1151422	12.5	12.7	
82 4-Methyl-2-pentanone (MIBK)	43	9.108	9.108	0.000	97	5245835	125.0	141.3	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	2083234	10.0	10.0	
84 Toluene	92	9.322	9.322	0.000	98	1885225	12.5	12.2	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	93	1006721	12.5	12.9	
86 Ethyl methacrylate	69	9.700	9.700	0.000	89	822909	12.5	12.2	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	91	549265	12.5	12.4	
88 Tetrachloroethene	166	9.919	9.919	0.000	98	900762	12.5	12.6	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	944268	12.5	12.6	
106 2-Hexanone	43	10.084	10.084	0.000	97	3761863	125.0	141.7	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	728289	12.5	13.5	
110 Ethylene Dibromide	107	10.346	10.346	0.000	98	560442	12.5	13.1	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	95	1586870	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	98	1023326	12.5	11.8	
113 Chlorobenzene	112	10.834	10.834	0.000	95	2201569	12.5	12.5	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.925	0.000	96	803185	12.5	13.4	
115 Ethylbenzene	91	10.931	10.931	0.000	98	3847067	12.5	12.5	
116 m-Xylene & p-Xylene	106	11.053	11.053	0.000	96	3025712	25.0	25.4	
118 o-Xylene	106	11.401	11.401	0.000	96	1484733	12.5	12.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.413	11.413	0.000	95	2523420	12.5	12.9	
120 Bromoform	173	11.571	11.571	0.000	97	451790	12.5	14.4	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	3452430	12.5	12.8	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	792157	10.0	10.1	
125 Bromobenzene	156	11.974	11.974	0.000	90	1010207	12.5	12.1	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	78	725794	12.5	12.2	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	95	1829901	125.0	128.6	
128 1,2,3-Trichloropropane	110	12.016	12.016	0.000	81	201769	12.5	12.4	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	4668700	12.5	12.0	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	950370	12.5	11.9	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	93	3430229	12.5	12.2	
132 4-Chlorotoluene	126	12.224	12.224	0.000	98	1010125	12.5	12.2	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	760353	12.5	11.8	
134 Pentachloroethane	167	12.474	12.474	0.000	93	594811	12.5	12.0	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	3546673	12.5	12.3	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	4392527	12.5	12.3	
137 1,3-Dichlorobenzene	146	12.711	12.711	0.000	99	2002333	12.5	12.5	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	3885274	12.5	12.4	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	940787	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	95	2053271	12.5	12.3	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	1566667	12.5	12.0	
142 Benzyl chloride	126	12.870	12.870	0.000	98	318100	12.5	15.2	
145 p-Diethylbenzene	119	13.004	13.004	0.000	94	2394654	12.5	12.6	
143 n-Butylbenzene	92	13.022	13.022	0.000	96	1888893	12.5	12.5	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	1850758	12.5	12.7	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	88	103376	12.5	13.0	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	1478770	12.5	13.2	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	94	1155263	12.5	13.6	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	624069	12.5	13.2	
152 Naphthalene	128	14.345	14.345	0.000	97	1895634	12.5	13.7	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	934625	12.5	14.2	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	681072	12.5	11.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00170	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00279	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00184	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00114	Amount Added: 1.00	Units: uL	Run Reagent

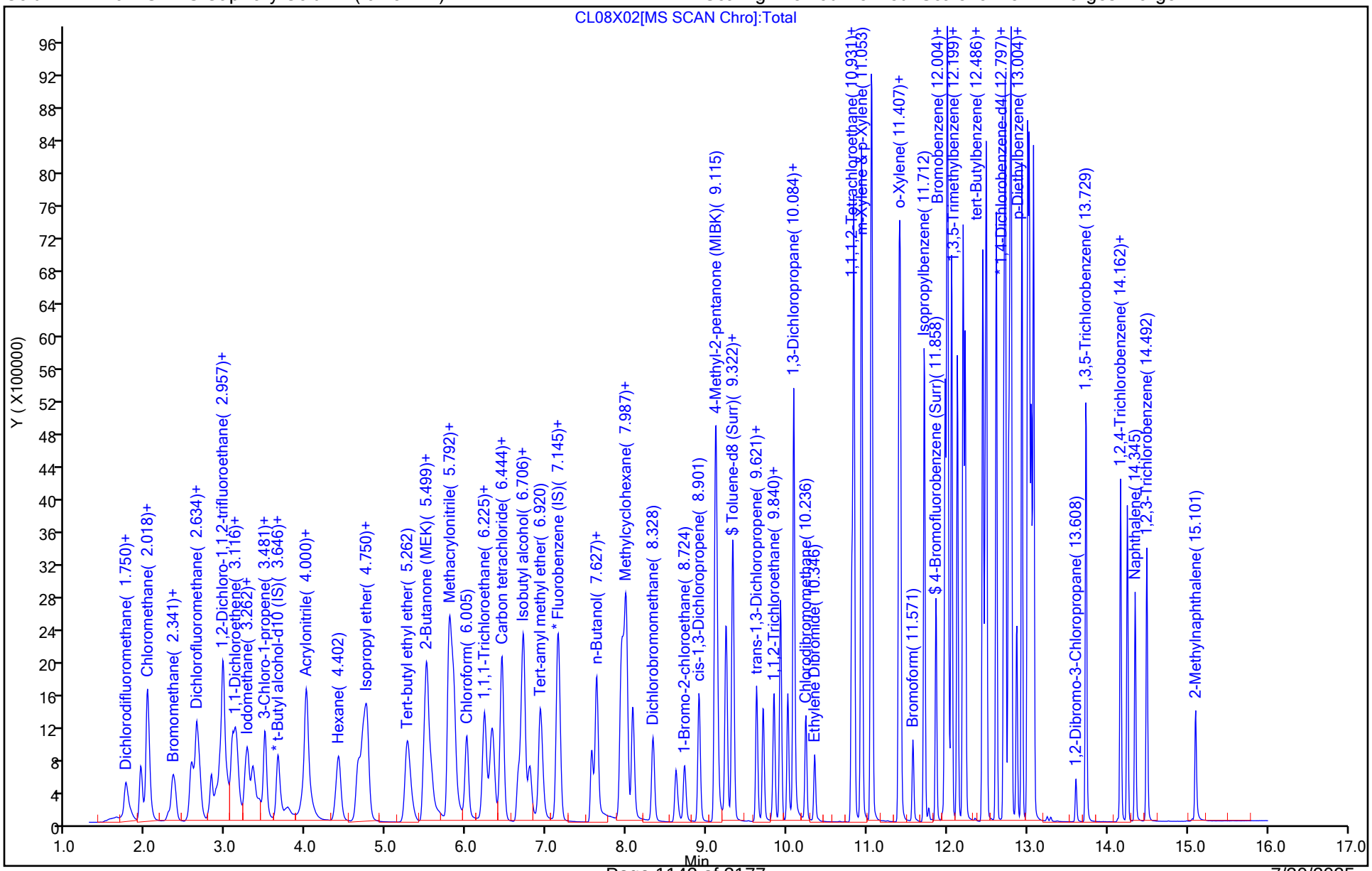
Report Date: 08-Jul-2025 16:48:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X02.D

Injection Date:	08-Jul-2025 10:09:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	CCVIS VSTD12.5			Worklist Smp#:	3
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

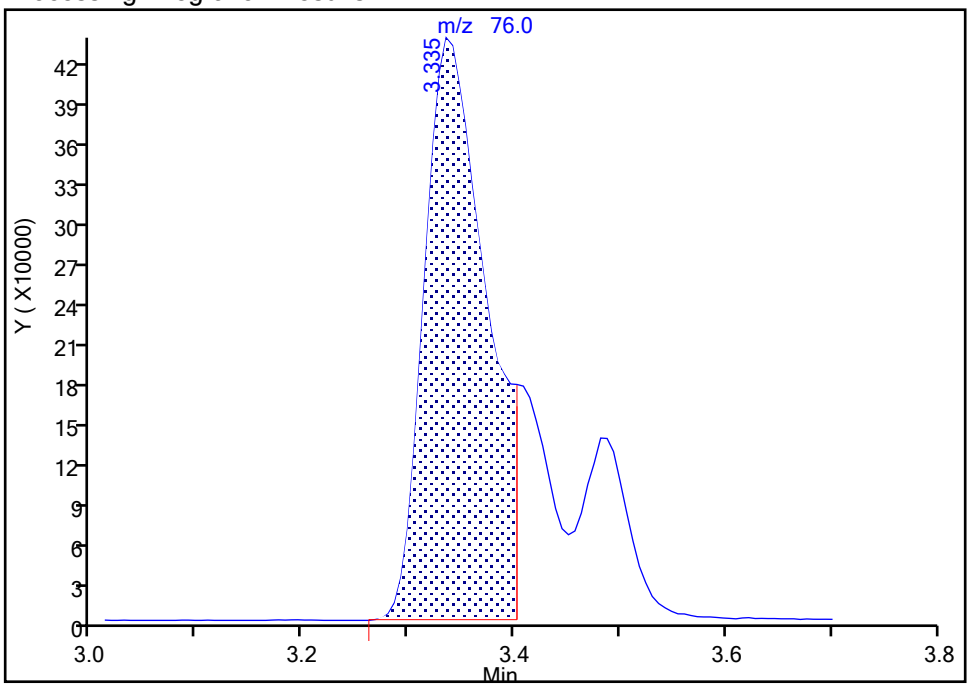
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X02.D				
Injection Date:	08-Jul-2025 10:09:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

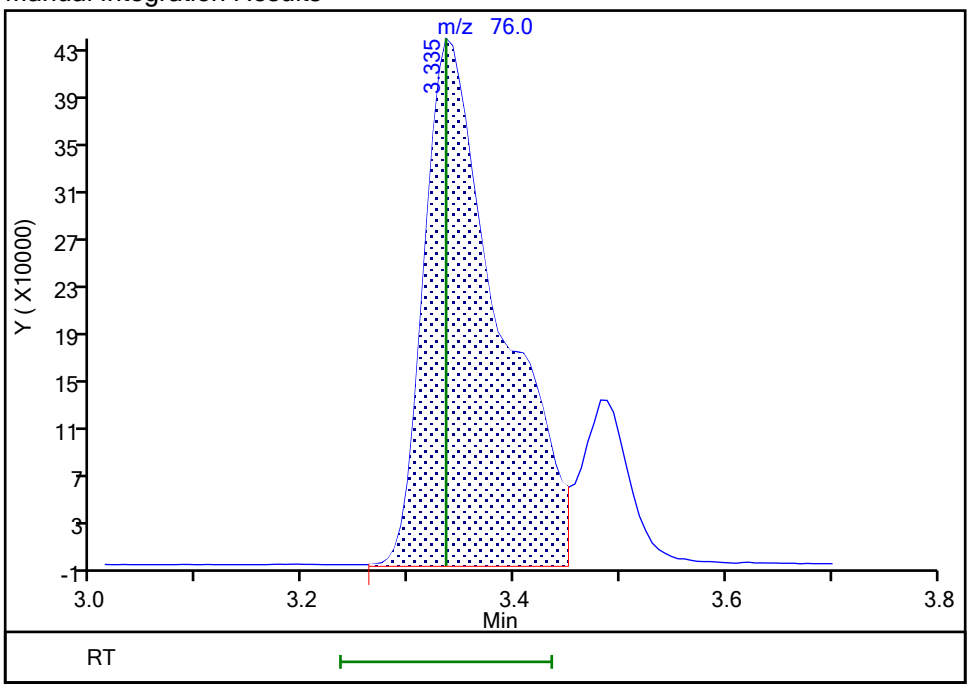
Processing Integration Results

RT: 3.34
Area: 1795377
Amount: 11.020094
Amount Units: ug/l



Manual Integration Results

RT: 3.34
Area: 2143003
Amount: 13.153836
Amount Units: ug/l



Reviewer: N7YK, 08-Jul-2025 10:32:52 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

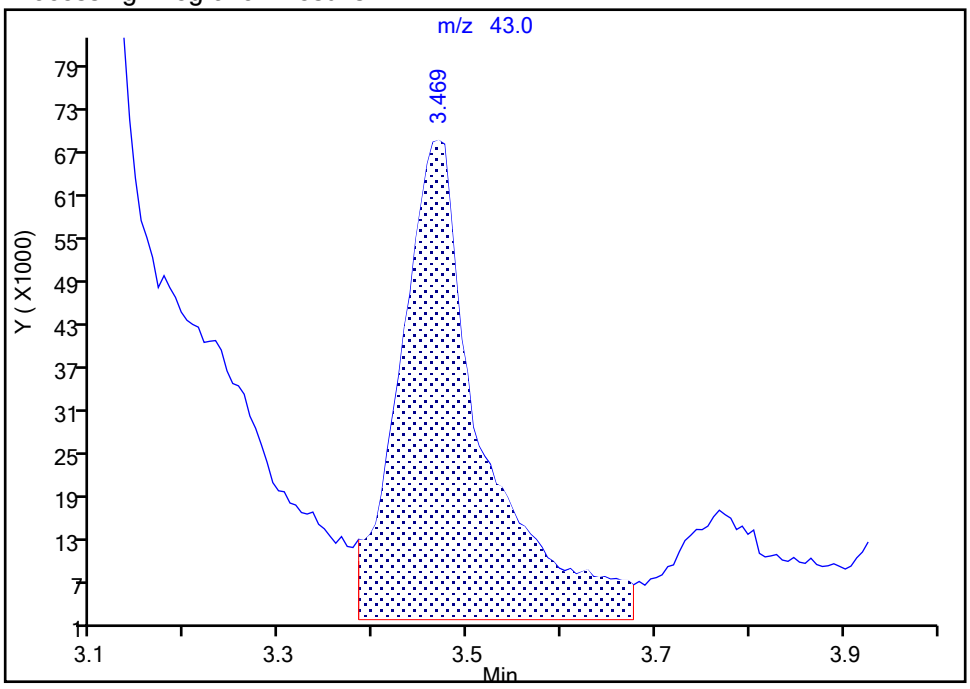
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X02.D				
Injection Date:	08-Jul-2025 10:09:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

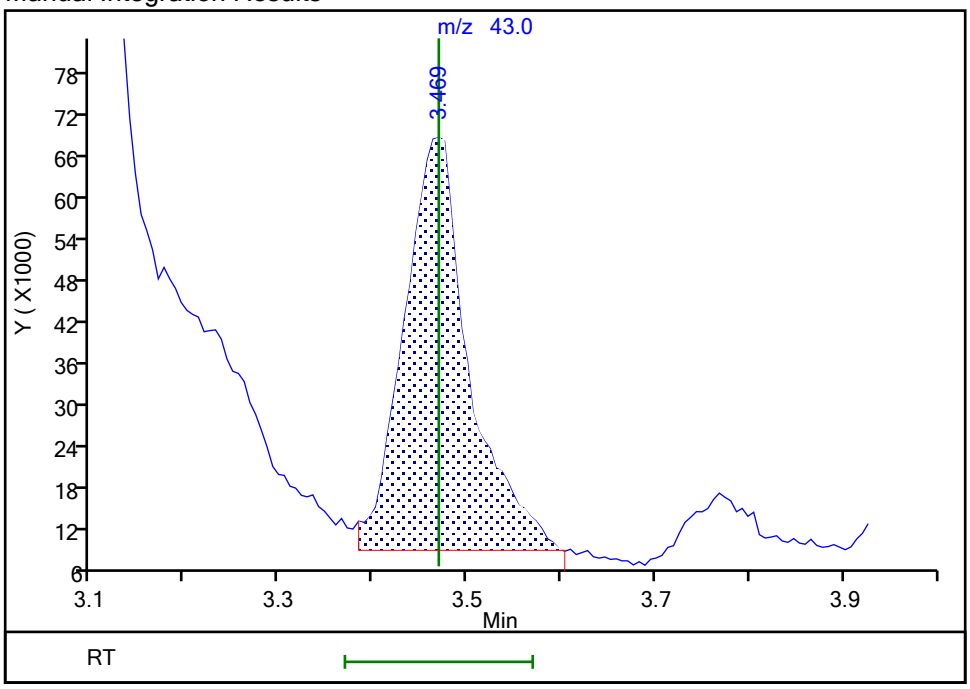
Processing Integration Results

RT: 3.47
Area: 406726
Amount: 20.717198
Amount Units: ug/l



Manual Integration Results

RT: 3.47
Area: 289334
Amount: 14.737660
Amount Units: ug/l



Reviewer: N7YK, 08-Jul-2025 10:33:03 -04:00:00 (UTC)
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCV 410-668089/4 Calibration Date: 07/08/2025 10:31

Instrument ID: 10193 Calib Start Date: 06/04/2025 17:23

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 19:37

Lab File ID: CL08X03.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl ether	Ave	0.4500	0.3973		11.0	12.5	-11.7	20.0
Acetonitrile	Ave	0.0181	0.0169		58.6	62.5	-6.3	20.0
Vinyl acetate	Ave	0.3609	0.3197		11.1	12.5	-11.4	20.0
Ethyl acetate	Ave	0.1745	0.1581		11.3	12.5	-9.4	20.0
n-Propyl acetate	Ave	0.0793	0.0704		11.1	12.5	-11.2	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X03.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 08-Jul-2025 10:31:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-004
Operator ID: ecr105096 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub45

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:49:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 11:08:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.817	1.805	0.012	99	1018533	12.5	11.0	
27 Acetonitrile	41	3.451	3.451	0.000	99	216961	62.5	58.6	
* 31 t-Butyl alcohol-d10 (IS)	65	3.670	3.664	0.006	96	152952	50.0	50.0	
38 Vinyl acetate	43	4.658	4.640	0.018	98	819813	12.5	11.1	
46 Ethyl acetate	43	5.560	5.554	0.006	99	405311	12.5	11.3	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	94	503486	10.0	10.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	98	101200	10.0	10.1	
63 Isopropyl acetate	43	6.834	6.828	0.006	98	876014	12.5	10.9	
* 65 Fluorobenzene (IS)	96	7.139	7.133	0.006	99	2051167	10.0	10.0	
75 n-Propyl acetate	61	8.170	8.170	-0.001	99	180411	12.5	11.1	
$ 83 Toluene-d8 (Surr)	98	9.242	9.243	-0.001	94	2014186	10.0	9.61	
109 n-Butyl acetate	43	10.224	10.224	0.000	98	746733	12.5	10.4	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1596026	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.858	0.006	95	732561	10.0	9.25	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	845928	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_V5ACE_00050	Amount Added:	2.50	Units: uL	
MSV_DME_00072	Amount Added:	2.50	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

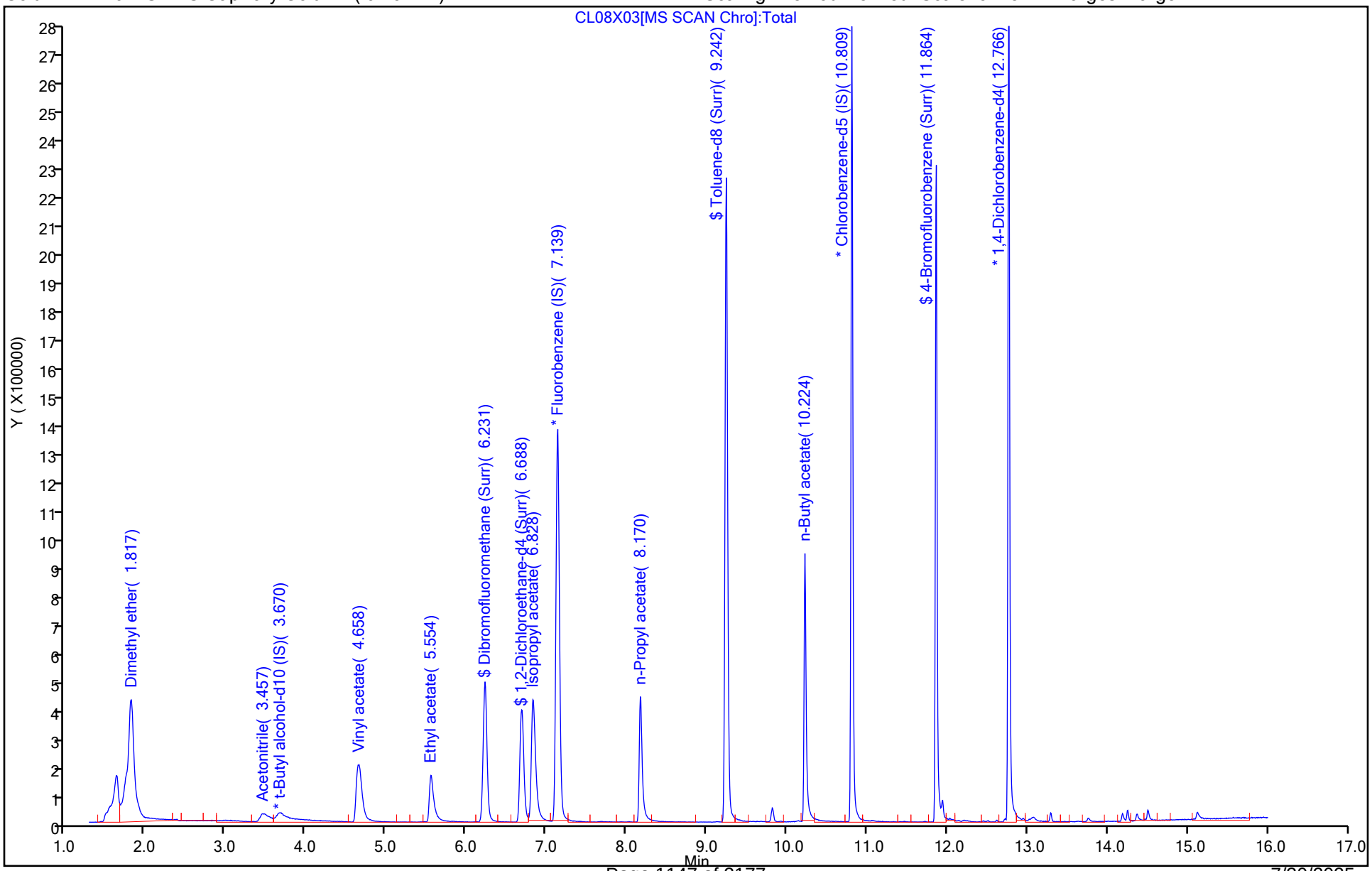
Report Date: 08-Jul-2025 16:49:01 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X03.D

Injection Date:	08-Jul-2025 10:31:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668678/3 Calibration Date: 07/09/2025 10:02

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CL09X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.3256	0.2560	0.1000	9.83	12.5	-21.4*	20.0
Chloromethane	Ave	0.3862	0.3594	0.1000	11.6	12.5	-6.9	20.0
1,3-Butadiene	Ave	0.4446	0.4490		12.6	12.5	1.0	20.0
Vinyl chloride	Ave	0.3413	0.3097	0.1000	11.3	12.5	-9.3	20.0
Bromomethane	Ave	0.2182	0.2251	0.1000	12.9	12.5	3.2	20.0
Chloroethane	Ave	0.1935	0.1790	0.1000	11.6	12.5	-7.5	20.0
Dichlorofluoromethane	Ave	0.5586	0.5236		11.7	12.5	-6.3	20.0
Trichlorofluoromethane	Ave	0.4317	0.4001	0.1000	11.6	12.5	-7.3	20.0
Ethyl ether	Ave	0.2057	0.2111		12.8	12.5	2.6	20.0
Freon 123a	Ave	0.3018	0.2823		11.7	12.5	-6.4	20.0
Acrolein	Ave	1.812	2.189		737	610	20.8*	20.0
1,1-Dichloroethene	Ave	0.2128	0.2036	0.1000	12.0	12.5	-4.3	20.0
Acetone	Ave	2.365	2.736	0.1000	145	125	15.7	20.0
Freon 113	Ave	0.2211	0.2045	0.1000	11.6	12.5	-7.5	20.0
Methyl iodide	Ave	0.4330	0.4461		12.9	12.5	3.0	20.0
Ethyl bromide	Ave	0.2041	0.2074		12.7	12.5	1.6	20.0
Carbon disulfide	Ave	0.7842	0.7929	0.1000	12.6	12.5	1.1	20.0
Methyl acetate	Ave	6.370	7.512	0.1000	14.7	12.5	17.9	20.0
Allyl chloride	Ave	0.4006	0.4041		12.6	12.5	0.9	20.0
Methylene Chloride	Ave	0.2569	0.2627	0.1000	12.8	12.5	2.3	20.0
t-Butyl alcohol	Ave	0.7429	0.8044		271	250	8.3	20.0
Acrylonitrile	Ave	3.469	3.919		35.3	31.3	13.0	20.0
Methyl tertiary butyl ether	Ave	0.7278	0.6974	0.1000	12.0	12.5	-4.2	20.0
trans-1,2-Dichloroethene	Ave	0.2625	0.2596	0.1000	12.4	12.5	-1.1	20.0
n-Hexane	Ave	0.3574	0.3186		11.1	12.5	-10.9	20.0
1,1-Dichloroethane	Ave	0.4780	0.4725	0.2000	12.4	12.5	-1.2	20.0
di-Isopropyl ether	Ave	0.8840	0.8758		12.4	12.5	-0.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4217	0.3999		11.9	12.5	-5.2	20.0
Ethyl t-butyl ether	Ave	0.8703	0.8072		11.6	12.5	-7.2	20.0
2-Butanone	Ave	4.540	5.292	0.1000	146	125	16.6	20.0
cis-1,2-Dichloroethene	Ave	0.3024	0.3010	0.1000	12.4	12.5	-0.5	20.0
2,2-Dichloropropane	Ave	0.3754	0.3904		13.0	12.5	4.0	20.0
Propionitrile	Ave	1.225	1.468		300	250	19.8	20.0
Methacrylonitrile	Ave	4.399	5.296		151	125	20.4*	20.0
Bromochloromethane	Ave	0.1350	0.1373		12.7	12.5	1.7	20.0
Tetrahydrofuran	Ave	1.291	1.523		73.7	62.5	17.9	20.0
Chloroform	Ave	0.4853	0.4839	0.2000	12.5	12.5	-0.3	20.0
1,1,1-Trichloroethane	Ave	0.4251	0.4221	0.1000	12.4	12.5	-0.7	20.0
Cyclohexane	Ave	0.4519	0.4167	0.1000	11.5	12.5	-7.8	20.0
Carbon tetrachloride	Ave	0.3622	0.3688	0.1000	12.7	12.5	1.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668678/3 Calibration Date: 07/09/2025 10:02

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CL09X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,1-Dichloropropene	Ave	0.3815	0.3731		12.2	12.5	-2.2	20.0
Isobutyl alcohol	Ave	0.3027	0.3719		768	625	22.9*	20.0
Benzene	Ave	1.137	1.140	0.5000	12.5	12.5	0.2	20.0
1,2-Dichloroethane	Ave	0.3111	0.3031	0.1000	12.2	12.5	-2.6	20.0
t-Amyl methyl ether	Ave	0.7782	0.7612		12.2	12.5	-2.2	20.0
n-Heptane	Ave	0.3521	0.3459		12.3	12.5	-1.7	20.0
n-Butanol	Ave	0.2850	0.3373		1290	1090	18.3	20.0
Trichloroethene	Ave	0.3010	0.2989	0.2000	12.4	12.5	-0.7	20.0
Methylcyclohexane	Ave	0.4837	0.4412	0.1000	11.4	12.5	-8.8	20.0
1,2-Dichloropropane	Ave	0.2911	0.2932	0.1000	12.6	12.5	0.7	20.0
1,4-Dioxane	Ave	0.0704	0.0760	0.0050	675	625	8.0	20.0
Dibromomethane	Ave	0.1439	0.1472		12.8	12.5	2.3	20.0
Methyl methacrylate	Ave	9.058	10.00		13.8	12.5	10.4	20.0
Bromodichloromethane	Ave	0.3547	0.3615	0.2000	12.7	12.5	1.9	20.0
2-Nitropropane	Ave	2.925	3.097		66.2	62.5	5.9	20.0
1-Bromo-2-chloroethane	Ave	0.2850	0.3107		13.6	12.5	9.0	20.0
cis-1,3-Dichloropropene	Ave	0.4367	0.4421	0.2000	12.7	12.5	1.2	20.0
4-Methyl-2-pentanone	Ave	12.04	14.44	0.1000	150	125	19.9	20.0
Toluene	Ave	0.9711	0.9580	0.4000	12.3	12.5	-1.4	20.0
trans-1,3-Dichloropropene	Ave	0.4912	0.5045	0.1000	12.8	12.5	2.7	20.0
Ethyl methacrylate	Ave	0.4256	0.4164		12.2	12.5	-2.1	20.0
1,1,2-Trichloroethane	Ave	0.2786	0.2818	0.1000	12.6	12.5	1.2	20.0
Tetrachloroethene	Ave	0.4508	0.4495	0.2000	12.5	12.5	-0.3	20.0
1,3-Dichloropropane	Ave	0.4721	0.4777		12.6	12.5	1.2	20.0
2-Hexanone	Ave	8.616	10.23	0.1000	148	125	18.8	20.0
Dibromochloromethane	Ave	0.3400	0.3598		13.2	12.5	5.8	20.0
1,2-Dibromoethane	Ave	0.2699	0.2821	0.1000	13.1	12.5	4.5	20.0
1-Chlorohexane	Ave	0.5450	0.5026		11.5	12.5	-7.8	20.0
Chlorobenzene	Ave	1.111	1.103	0.5000	12.4	12.5	-0.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3783	0.4032		13.3	12.5	6.6	20.0
Ethylbenzene	Ave	1.932	1.925	0.1000	12.5	12.5	-0.3	20.0
m&p-Xylene	Ave	0.7503	0.7574	0.1000	25.2	25.0	0.9	20.0
o-Xylene	Ave	0.7400	0.7442	0.3000	12.6	12.5	0.6	20.0
Styrene	Ave	1.231	1.267	0.3000	12.9	12.5	3.0	20.0
Bromoform	Ave	0.1980	0.2192	0.1000	13.8	12.5	10.7	20.0
Isopropylbenzene	Ave	1.705	1.727	0.1000	12.7	12.5	1.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6317	0.6173	0.3000	12.2	12.5	-2.3	20.0
Bromobenzene	Ave	0.8876	0.8459		11.9	12.5	-4.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1513	0.1468		121	125	-3.0	20.0
1,2,3-Trichloropropane	Ave	0.1732	0.1728		12.5	12.5	-0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668678/3 Calibration Date: 07/09/2025 10:02

Instrument ID: 10193 Calib Start Date: 06/04/2025 21:06

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 23:20

Lab File ID: CL09X02.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Propylbenzene	Ave	4.125	3.884		11.8	12.5	-5.9	20.0
2-Chlorotoluene	Ave	0.8481	0.7913		11.7	12.5	-6.7	20.0
1,3,5-Trimethylbenzene	Ave	2.985	2.862		12.0	12.5	-4.1	20.0
4-Chlorotoluene	Ave	0.8795	0.8297		11.8	12.5	-5.7	20.0
tert-Butylbenzene	Ave	0.6849	0.6411		11.7	12.5	-6.4	20.0
Pentachloroethane	Ave	0.5264	0.5499		13.1	12.5	4.5	20.0
1,2,4-Trimethylbenzene	Ave	3.067	2.988		12.2	12.5	-2.6	20.0
sec-Butylbenzene	Ave	3.811	3.655		12.0	12.5	-4.1	20.0
1,3-Dichlorobenzene	Ave	1.702	1.676	0.6000	12.3	12.5	-1.6	20.0
p-Isopropyltoluene	Ave	3.330	3.263		12.2	12.5	-2.0	20.0
1,4-Dichlorobenzene	Ave	1.777	1.728	0.5000	12.2	12.5	-2.8	20.0
1,2,3-Trimethylbenzene	Ave	1.386	1.322		11.9	12.5	-4.6	20.0
Benzyl chloride	Ave	0.2218	0.2727		15.4	12.5	22.9*	20.0
n-Butylbenzene	Ave	1.605	1.579		12.3	12.5	-1.7	20.0
1,2-Dichlorobenzene	Ave	1.553	1.553	0.4000	12.5	12.5	0.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0844	0.0876	0.0500	13.0	12.5	3.8	20.0
1,3,5-Trichlorobenzene	Ave	1.193	1.224		12.8	12.5	2.5	20.0
1,2,4-Trichlorobenzene	Ave	0.9016	0.9730	0.2000	13.5	12.5	7.9	20.0
Hexachlorobutadiene	Ave	0.5040	0.5049		12.5	12.5	0.2	20.0
Naphthalene	Ave	1.473	1.667		14.1	12.5	13.2	20.0
1,2,3-Trichlorobenzene	Ave	0.6984	0.8027		14.4	12.5	14.9	20.0
2-Methylnaphthalene	Qua		0.6352		11.9	12.5	-4.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2360	0.2433		10.3	10.0	3.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.0487	0.0490		10.1	10.0	0.7	20.0
Toluene-d8 (Surr)	Ave	1.313	1.315		10.0	10.0	0.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4960	0.5014		10.1	10.0	1.1	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X02.D
Lims ID: CCVIS VSTD12.5
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jul-2025 10:02:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-003
Misc. Info.: CCVIS VSTD12.5
Operator ID: ecr105096 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub1

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:17 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 10:32:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.762	1.762	0.000	100	680691	12.5	9.83	
5 Chloromethane	50	1.945	1.945	0.000	100	955757	12.5	11.6	
7 Butadiene	39	2.025	2.025	0.000	93	1194030	12.5	12.6	
6 Vinyl chloride	62	2.043	2.043	0.000	99	823577	12.5	11.3	
9 Bromomethane	94	2.342	2.342	0.000	91	598651	12.5	12.9	
10 Chloroethane	64	2.372	2.372	0.000	100	475912	12.5	11.6	
11 Dichlorofluoromethane	67	2.579	2.579	0.000	98	1392235	12.5	11.7	
13 Pentane	43	2.646	2.646	0.000	97	953058	12.5	11.9	
12 Trichlorofluoromethane	101	2.671	2.671	0.000	100	1063793	12.5	11.6	
14 Ethyl ether	59	2.823	2.823	0.000	94	561502	12.5	12.8	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.927	2.927	0.000	93	750684	12.5	11.7	
17 Acrolein	56	2.969	2.969	0.000	99	4234736	609.9	736.6	
18 1,1-Dichloroethene	96	3.091	3.091	0.000	99	541380	12.5	12.0	
20 Acetone	43	3.116	3.116	0.000	99	1084942	125.0	144.6	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	92	543689	12.5	11.6	
22 Iodomethane	142	3.256	3.256	0.000	98	1186334	12.5	12.9	
24 Isopropyl alcohol	45	3.268	3.268	0.000	42	498416	250.0	349.3	
23 Ethyl bromide	108	3.280	3.280	0.000	98	550916	12.5	12.7	
25 Carbon disulfide	76	3.347	3.347	0.000	99	2108310	12.5	12.6	
26 Methyl acetate	43	3.475	3.475	0.000	93	297873	12.5	14.7	M
29 3-Chloro-1-propene	41	3.494	3.494	0.000	91	1074527	12.5	12.6	
30 Methylene Chloride	84	3.658	3.658	0.000	92	698474	12.5	12.8	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	38	158618	50.0	50.0	M
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	99	637937	250.0	270.7	
33 Acrylonitrile	53	3.957	3.957	0.000	98	388528	31.3	35.3	
34 Methyl tert-butyl ether	73	4.012	4.012	0.000	93	1854355	12.5	12.0	
35 trans-1,2-Dichloroethene	96	4.012	4.012	0.000	99	690262	12.5	12.4	
36 Hexane	57	4.414	4.414	0.000	94	847089	12.5	11.1	
37 1,1-Dichloroethane	63	4.652	4.652	0.000	97	1256327	12.5	12.4	
39 Isopropyl ether	45	4.719	4.719	0.000	94	2328681	12.5	12.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	92	1063426	12.5	11.9	
41 Tert-butyl ethyl ether	59	5.274	5.274	0.000	98	2146519	12.5	11.6	
42 2-Butanone (MEK)	43	5.481	5.481	0.000	100	2098714	125.0	145.7	
43 cis-1,2-Dichloroethene	96	5.512	5.512	0.000	83	800307	12.5	12.4	
44 2,2-Dichloropropane	77	5.524	5.524	0.000	88	1038182	12.5	13.0	
45 Propionitrile	54	5.573	5.573	0.000	100	1164036	250.0	299.5	
47 Methacrylonitrile	67	5.792	5.792	0.000	92	2100110	125.0	150.5	
48 Chlorobromomethane	128	5.847	5.847	0.000	95	365086	12.5	12.7	
49 Tetrahydrofuran	71	5.853	5.853	0.000	72	301917	62.5	73.7	
50 Chloroform	83	6.012	6.012	0.000	95	1286675	12.5	12.5	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	517638	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	98	1122312	12.5	12.4	
55 Cyclohexane	56	6.323	6.323	0.000	92	1107956	12.5	11.5	
56 Carbon tetrachloride	117	6.438	6.438	0.000	96	980741	12.5	12.7	
57 1,1-Dichloropropene	75	6.451	6.451	0.000	97	992056	12.5	12.2	
58 Isobutyl alcohol	41	6.652	6.652	0.000	92	737352	625.0	767.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.694	6.694	0.000	99	104292	10.0	10.1	
60 Benzene	78	6.719	6.719	0.000	97	3031052	12.5	12.5	
61 1,2-Dichloroethane	62	6.792	6.792	0.000	98	805910	12.5	12.2	
64 Tert-amyl methyl ether	73	6.926	6.926	0.000	99	2023994	12.5	12.2	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	2127247	10.0	10.0	
66 n-Heptane	43	7.158	7.158	0.000	92	919892	12.5	12.3	
67 n-Butanol	56	7.566	7.566	0.000	90	1170184	1093.8	1294.2	
68 Trichloroethene	95	7.627	7.627	0.000	99	794859	12.5	12.4	
69 Methylcyclohexane	83	7.938	7.938	0.000	92	1173224	12.5	11.4	
70 1,2-Dichloropropane	63	7.969	7.969	0.000	97	779677	12.5	12.6	
71 2-ethoxy-2-methyl butane	87	7.999	7.999	0.000	93	1197766	12.5	12.3	
74 1,4-Dioxane	88	8.078	8.078	0.000	29	150645	625.0	674.9	M
72 Dibromomethane	93	8.078	8.078	0.000	85	391387	12.5	12.8	
73 Methyl methacrylate	69	8.078	8.078	0.000	91	396519	12.5	13.8	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	961342	12.5	12.7	
77 2-Nitropropane	41	8.621	8.621	0.000	99	613974	62.5	66.2	
78 1-Bromo-2-chloroethane	63	8.724	8.724	0.000	99	826273	12.5	13.6	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	1175445	12.5	12.7	
82 4-Methyl-2-pentanone (MIBK)	43	9.115	9.115	0.000	97	5724221	125.0	149.8	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	2130854	10.0	10.0	
84 Toluene	92	9.328	9.328	0.000	98	1940152	12.5	12.3	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	94	1021730	12.5	12.8	
86 Ethyl methacrylate	69	9.706	9.706	0.000	90	843338	12.5	12.2	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	91	570793	12.5	12.6	
88 Tetrachloroethene	166	9.919	9.919	0.000	99	910449	12.5	12.5	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	967494	12.5	12.6	
106 2-Hexanone	43	10.084	10.084	0.000	97	4057718	125.0	148.5	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	728759	12.5	13.2	
110 Ethylene Dibromide	107	10.346	10.346	0.000	98	571385	12.5	13.1	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	86	1620227	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	98	1017990	12.5	11.5	
113 Chlorobenzene	112	10.834	10.834	0.000	95	2234141	12.5	12.4	
114 1,1,1,2-Tetrachloroethane	131	10.931	10.931	0.000	96	816574	12.5	13.3	
115 Ethylbenzene	91	10.931	10.931	0.000	99	3898664	12.5	12.5	
116 m-Xylene & p-Xylene	106	11.059	11.059	0.000	96	3067777	25.0	25.2	
118 o-Xylene	106	11.401	11.401	0.000	96	1507302	12.5	12.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
119 Styrene	104	11.419	11.419	0.000	95	2566751	12.5	12.9	
120 Bromoform	173	11.571	11.571	0.000	97	443884	12.5	13.8	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	3497908	12.5	12.7	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	812392	10.0	10.1	
125 Bromobenzene	156	11.974	11.974	0.000	91	1020534	12.5	11.9	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	78	744762	12.5	12.2	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	95	1770736	125.0	121.3	
128 1,2,3-Trichloropropane	110	12.017	12.017	0.000	81	208427	12.5	12.5	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	4685351	12.5	11.8	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	954574	12.5	11.7	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	93	3453233	12.5	12.0	
132 4-Chlorotoluene	126	12.224	12.224	0.000	98	1000958	12.5	11.8	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	773418	12.5	11.7	
134 Pentachloroethane	167	12.474	12.474	0.000	94	663343	12.5	13.1	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	3604990	12.5	12.2	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	4409131	12.5	12.0	
137 1,3-Dichlorobenzene	146	12.712	12.712	0.000	98	2021381	12.5	12.3	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	3936632	12.5	12.2	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	965115	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	95	2084652	12.5	12.2	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	1594695	12.5	11.9	
142 Benzyl chloride	126	12.870	12.870	0.000	98	328966	12.5	15.4	
145 p-Diethylbenzene	119	13.004	13.004	0.000	93	2411382	12.5	12.4	
143 n-Butylbenzene	92	13.022	13.022	0.000	97	1904353	12.5	12.3	
144 1,2-Dichlorobenzene	146	13.047	13.047	0.000	99	1873813	12.5	12.5	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	87	105667	12.5	13.0	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	1476095	12.5	12.8	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	94	1173802	12.5	13.5	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	609133	12.5	12.5	
152 Naphthalene	128	14.345	14.345	0.000	97	2011393	12.5	14.1	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	968349	12.5	14.4	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	766284	12.5	11.9	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LL_#1_826_00170	Amount Added: 25.00	Units: uL	
MSV_LL_GAS826_00279	Amount Added: 25.00	Units: uL	
MSV_LL_#2_826_00184	Amount Added: 25.00	Units: uL	
MSV_HP25_ISSS_00116	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 09-Jul-2025 16:30:18 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X02.D

Injection Date: 09-Jul-2025 10:02:30 Instrument ID: 10193 Operator ID: ecr105096

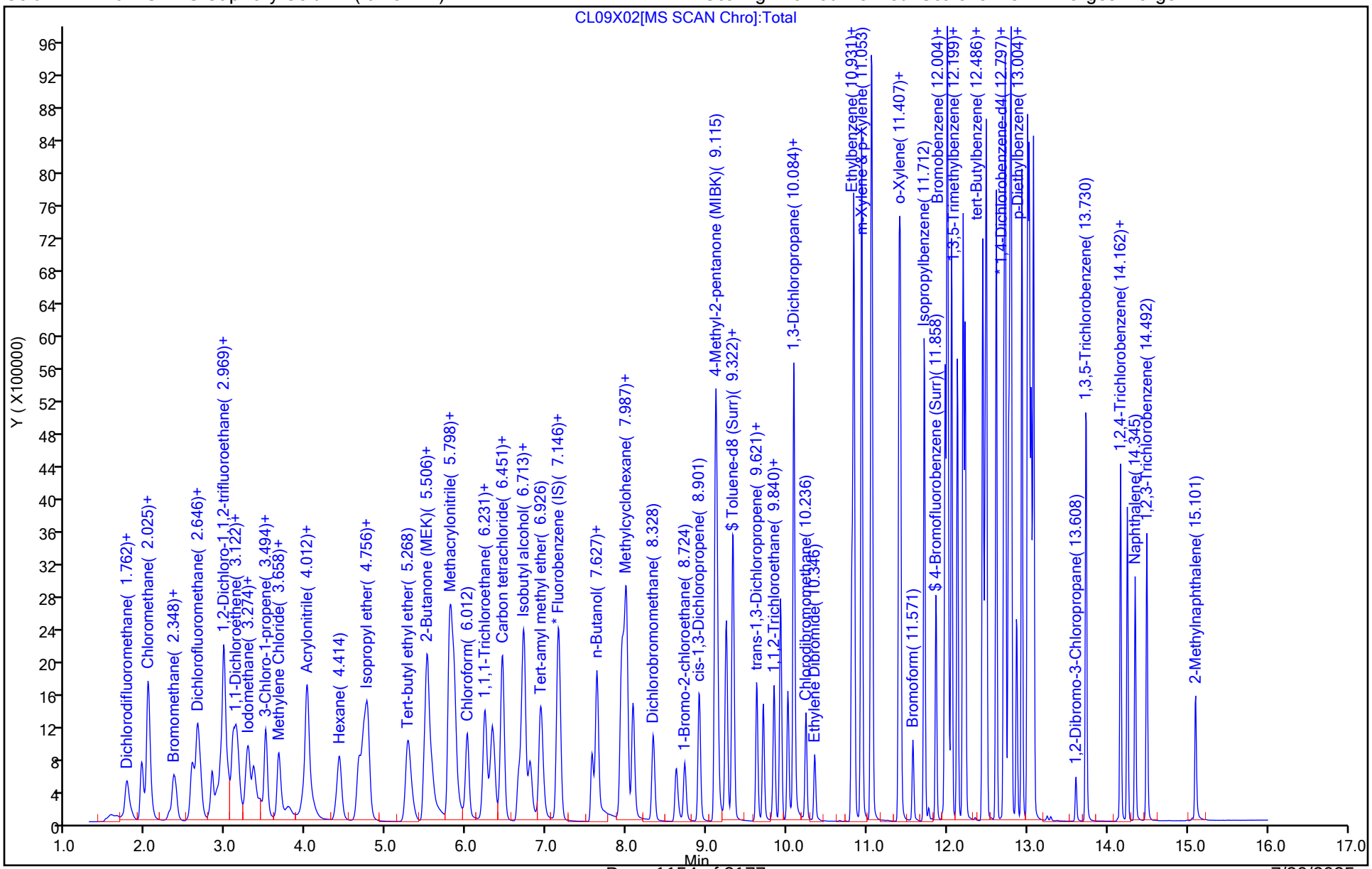
Lims ID: CCVIS VSTD12.5 Worklist Smp#: 3

Client ID:

Purge Vol: 25.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSV_10193_25mL Limit Group: MSV - 8260C_D

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

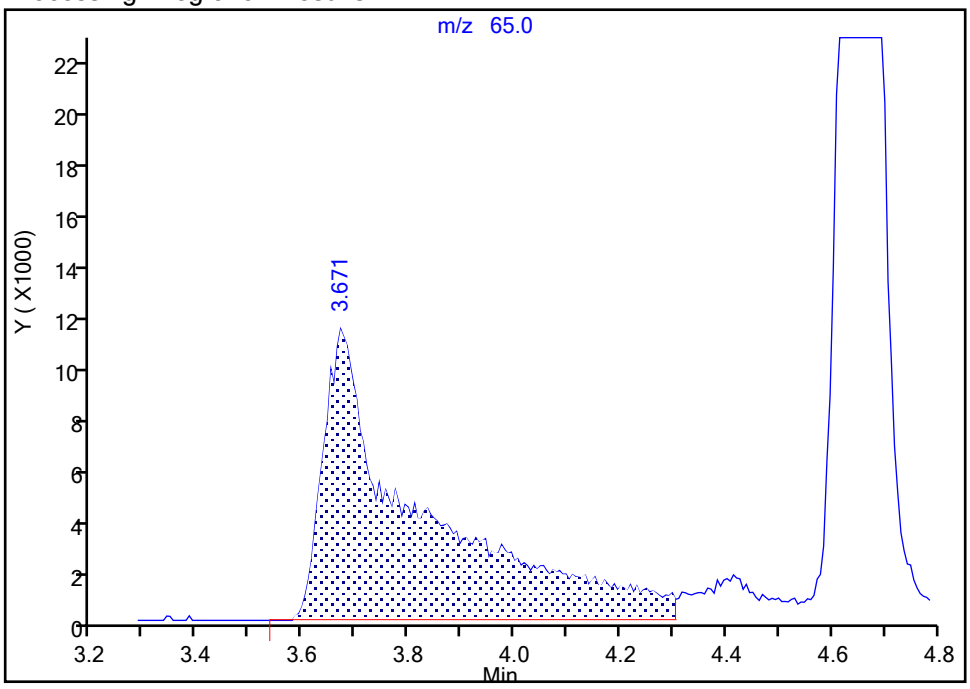
Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X02.D				
Injection Date:	09-Jul-2025 10:02:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

* 31 t-Butyl alcohol-d10 (IS), CAS: 53001-22-2

Signal: 1

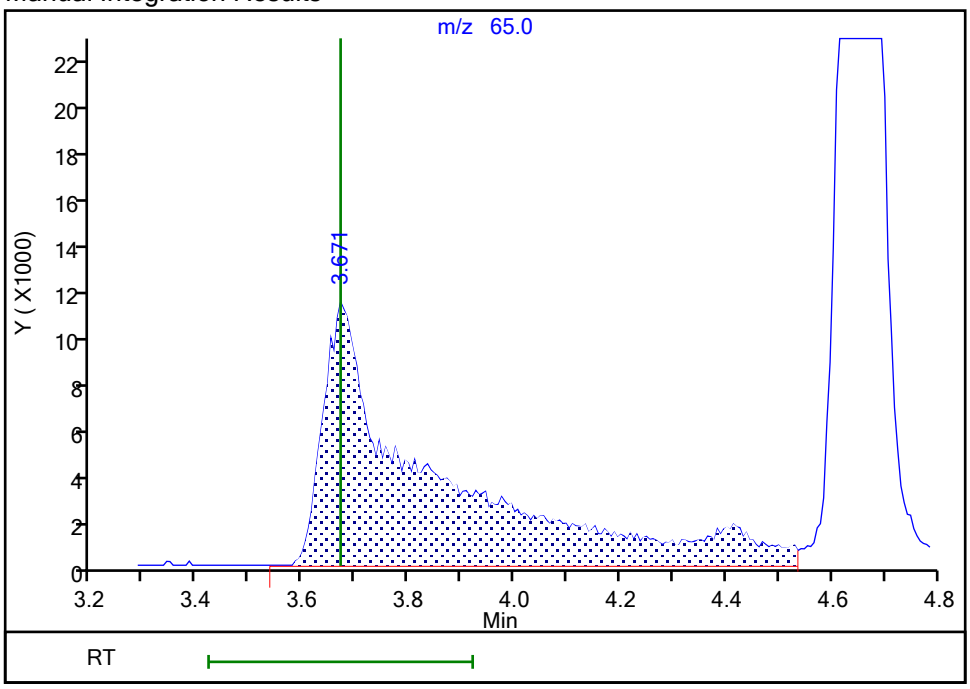
Processing Integration Results

RT: 3.67
Area: 143474
Amount: 50.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.67
Area: 158618
Amount: 50.000000
Amount Units: ug/l



Reviewer: N7YK, 09-Jul-2025 10:31:15 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

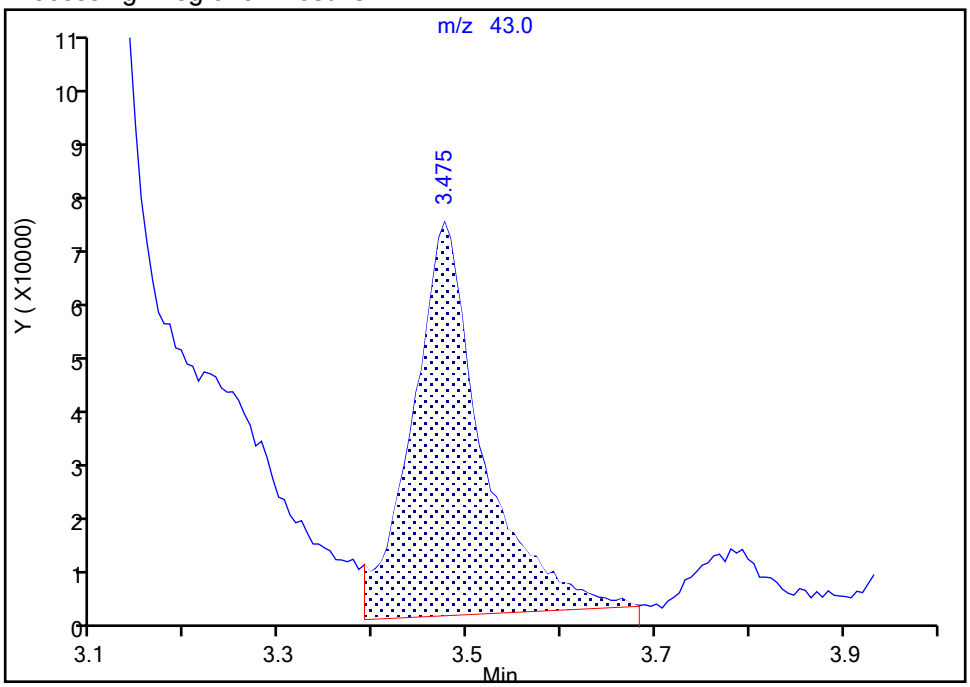
Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X02.D				
Injection Date:	09-Jul-2025 10:02:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

26 Methyl acetate, CAS: 79-20-9

Signal: 1

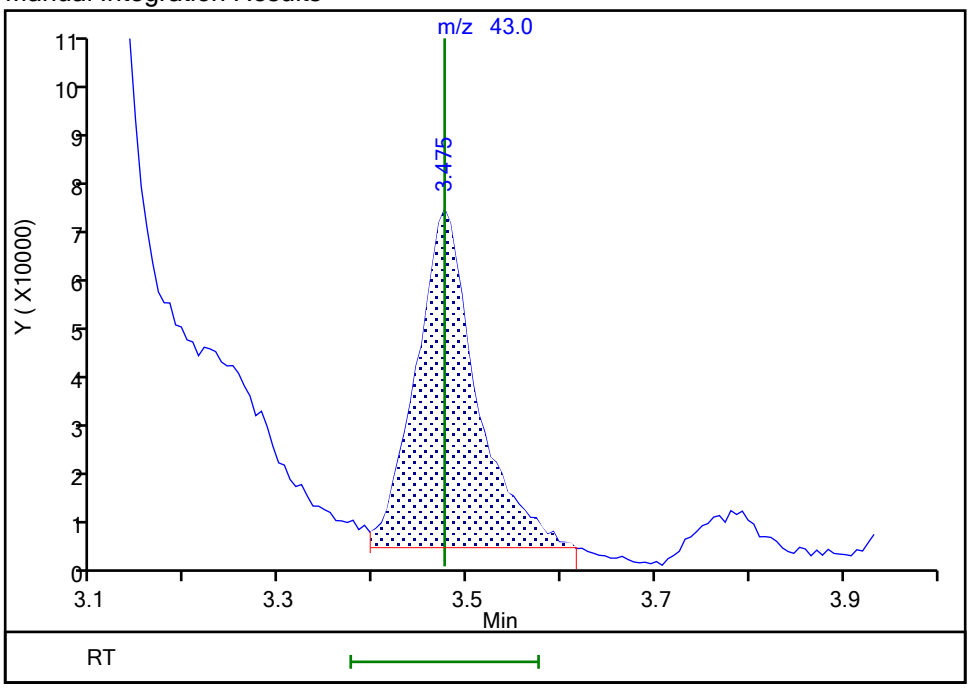
Processing Integration Results

RT: 3.48
Area: 369261
Amount: 20.201887
Amount Units: ug/l



Manual Integration Results

RT: 3.48
Area: 297873
Amount: 14.740438
Amount Units: ug/l



Reviewer: N7YK, 09-Jul-2025 10:30:51 -04:00:00 (UTC)

Audit Action: Assigned New Baseline Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

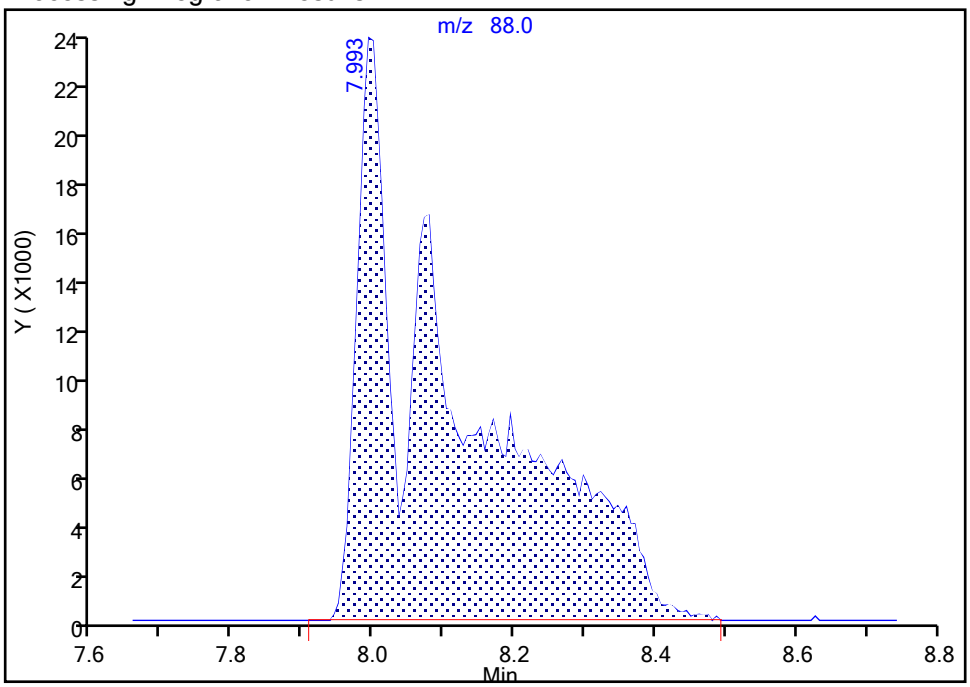
Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X02.D				
Injection Date:	09-Jul-2025 10:02:30	Instrument ID:	10193		
Lims ID:	CCVIS VSTD12.5				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

74 1,4-Dioxane, CAS: 123-91-1

Signal: 1

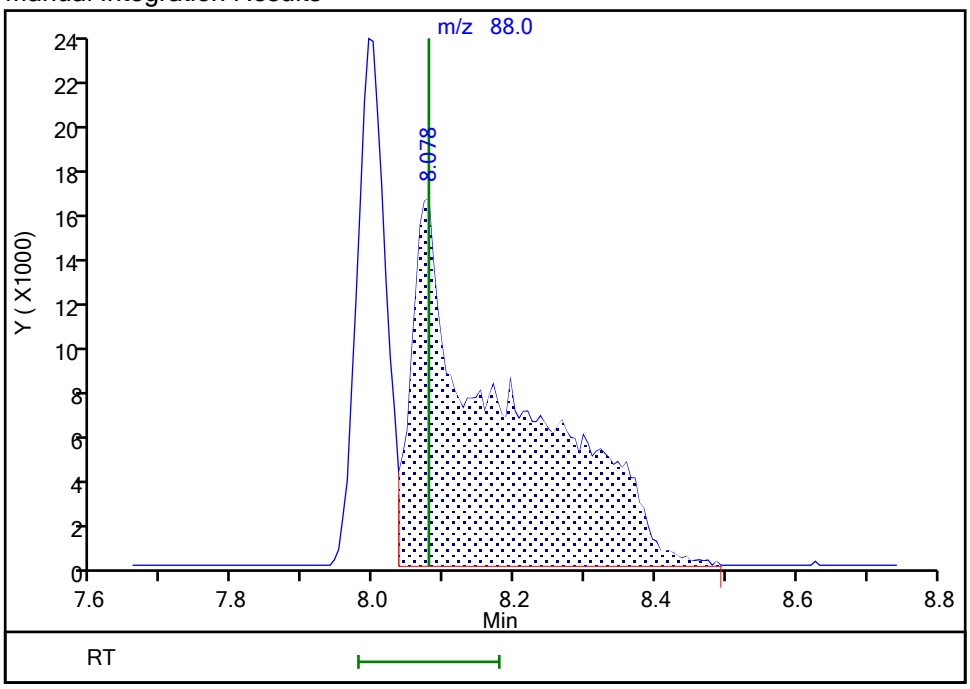
Processing Integration Results

RT: 7.99
Area: 214584
Amount: 961.3611
Amount Units: ug/l



Manual Integration Results

RT: 8.08
Area: 150645
Amount: 674.9070
Amount Units: ug/l



Reviewer: N7YK, 09-Jul-2025 10:31:39 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCV 410-668678/4 Calibration Date: 07/09/2025 10:24

Instrument ID: 10193 Calib Start Date: 06/04/2025 17:23

GC Column: R-624SilMS 30m ID: 0.25(mm) Calib End Date: 06/04/2025 19:37

Lab File ID: CL09X03.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dimethyl ether	Ave	0.4500	0.3837		10.7	12.5	-14.7	20.0
Acetonitrile	Ave	0.0181	0.0182		62.9	62.5	0.6	20.0
Vinyl acetate	Ave	0.3609	0.3626		12.6	12.5	0.5	20.0
Ethyl acetate	Ave	0.1745	0.1727		12.4	12.5	-1.1	20.0
n-Propyl acetate	Ave	0.0793	0.0782		12.3	12.5	-1.3	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X03.D
Lims ID: CCV
Client ID:
Sample Type: CCV
Inject. Date: 09-Jul-2025 10:24:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-004
Operator ID: ecr105096 Instrument ID: 10193
Sublist: chrom-MSV_10193_25mL*sub45

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:03:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.805	1.805	0.000	99	995789	12.5	10.7	
27 Acetonitrile	41	3.439	3.451	-0.012	98	235751	62.5	62.9	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.671	-0.007	96	153224	50.0	50.0	
38 Vinyl acetate	43	4.646	4.640	0.006	98	941050	12.5	12.6	
46 Ethyl acetate	43	5.548	5.554	-0.006	99	448120	12.5	12.4	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.231	-0.006	94	502052	10.0	10.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.694	-0.012	99	105222	10.0	10.4	
63 Isopropyl acetate	43	6.822	6.828	-0.006	98	970749	12.5	11.9	
* 65 Fluorobenzene (IS)	96	7.133	7.139	-0.006	99	2076374	10.0	10.0	
75 n-Propyl acetate	61	8.169	8.170	-0.001	99	203067	12.5	12.3	
$ 83 Toluene-d8 (Surr)	98	9.236	9.243	-0.007	94	2025658	10.0	9.60	
109 n-Butyl acetate	43	10.224	10.224	0.000	98	851600	12.5	11.8	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1606731	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	739273	10.0	9.28	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	851820	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_CCV_V5ACE_00050	Amount Added:	2.50	Units: uL	
MSV_DME_00072	Amount Added:	2.50	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

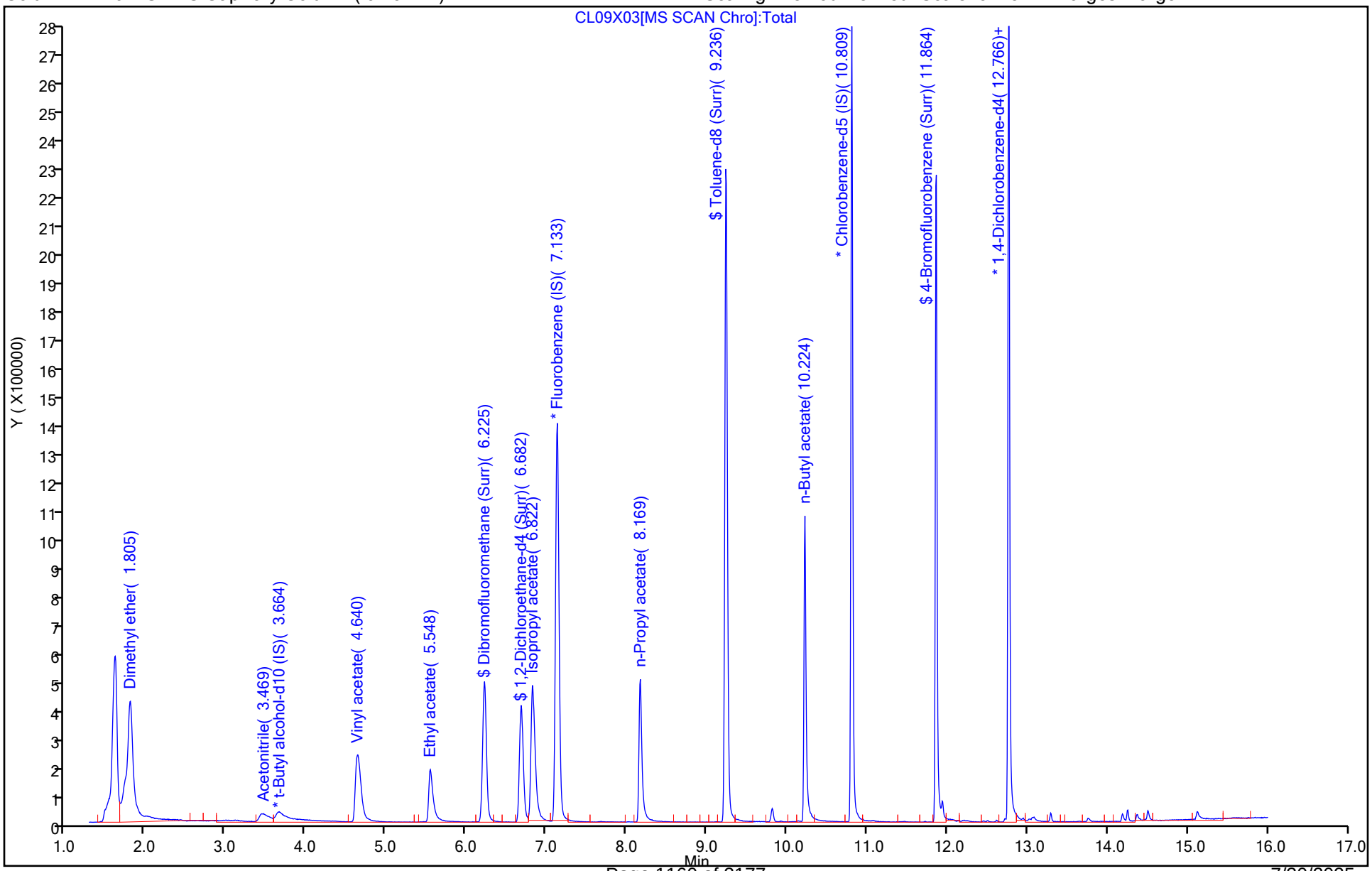
Report Date: 09-Jul-2025 16:30:23 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X03.D

Injection Date:	09-Jul-2025 10:24:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	CCV			Worklist Smp#:	4
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
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Eurofins Lancaster Laboratories Env, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Mar-2021 15:00:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: 410-0023820-001
Operator ID: SRK36897 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 24-Mar-2021 17:46:32 Calib Date: 11-Mar-2021 21:40:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1650

First Level Reviewer: beckerk Date: 24-Mar-2021 17:46:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 165 BFB	95	12.079	12.079	0.000	0	249627	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

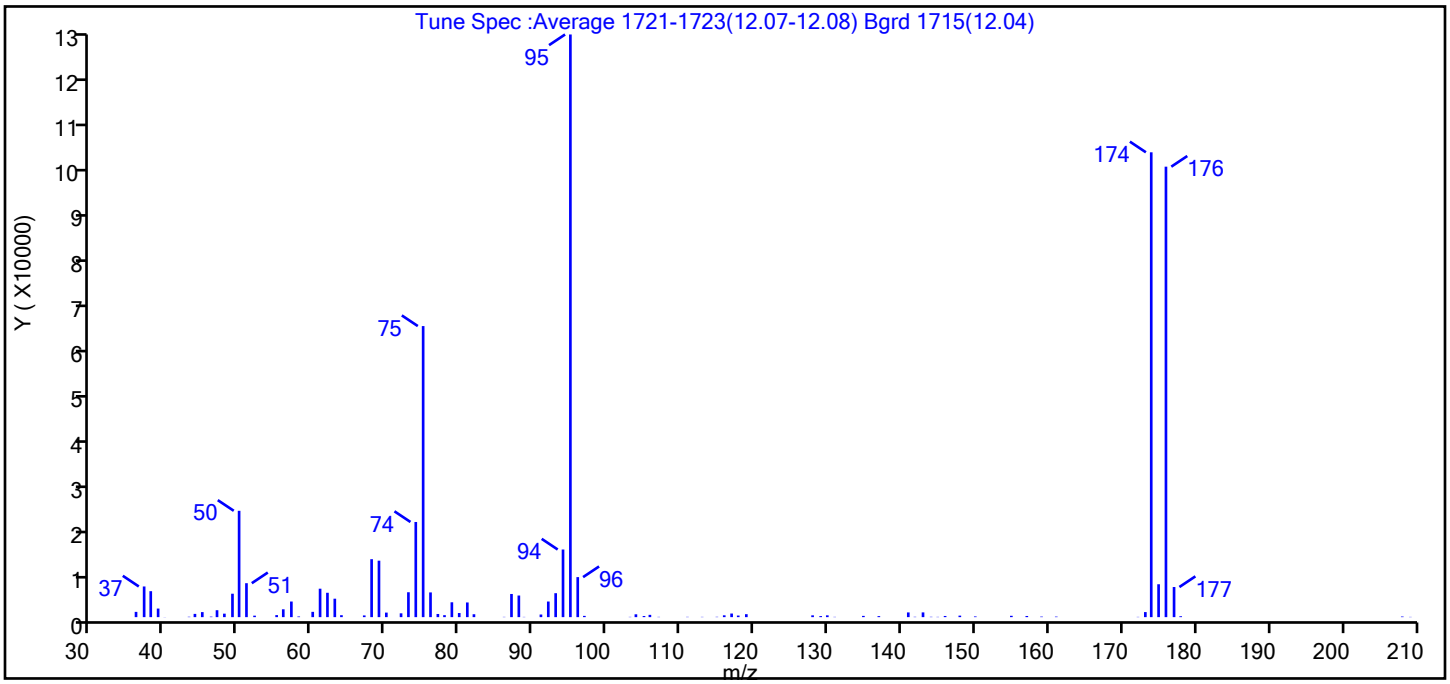
MSV_V_BFB_00004 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D
Injection Date: 11-Mar-2021 15:00:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: SRK36897 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 165 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.3
75	30 to 60% of m/z 95	50.0
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	5.6 (7.1)
176	Greater than 95% but less than 101% of m/z 174	77.3 (96.9)
177	5 to 9% of m/z 176	5.2 (6.7)

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 11-Mar-2021 15:00:30
Spectrum: Tune Spec :Average 1721-1723(12.07-12.08) Bgrd 1715(12.04)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1123	64.00	414	94.00	14419	142.00	74
37.00	6539	67.00	365	95.00	124224	143.00	1013
38.00	5535	68.00	12356	96.00	8535	144.00	73
39.00	1830	69.00	12037	97.00	269	145.00	58
40.00	24	70.00	969	103.00	57	146.00	250
43.00	81	72.00	815	104.00	607	148.00	322
44.00	695	73.00	5309	105.00	238	150.00	151
45.00	1073	74.00	20288	106.00	489	155.00	287
46.00	109	75.00	62056	107.00	58	157.00	245
47.00	1477	76.00	5272	111.00	61	159.00	115
48.00	742	77.00	676	113.00	57	161.00	114
49.00	4995	78.00	421	115.00	71	172.00	55
50.00	22672	79.00	3168	116.00	390	173.00	1079
51.00	7237	80.00	876	117.00	771	174.00	99104
52.00	317	81.00	3130	118.00	342	175.00	7012
55.00	434	82.00	620	119.00	632	176.00	96040
56.00	1676	86.00	56	128.00	386	177.00	6423
57.00	3330	87.00	4940	129.00	225	178.00	190
58.00	140	88.00	4610	130.00	384	208.00	130
60.00	1130	89.00	51	131.00	58	209.00	52
61.00	6063	91.00	560	135.00	267		
62.00	5195	92.00	3331	137.00	217		
63.00	3932	93.00	5106	141.00	1006		

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Env, LLC

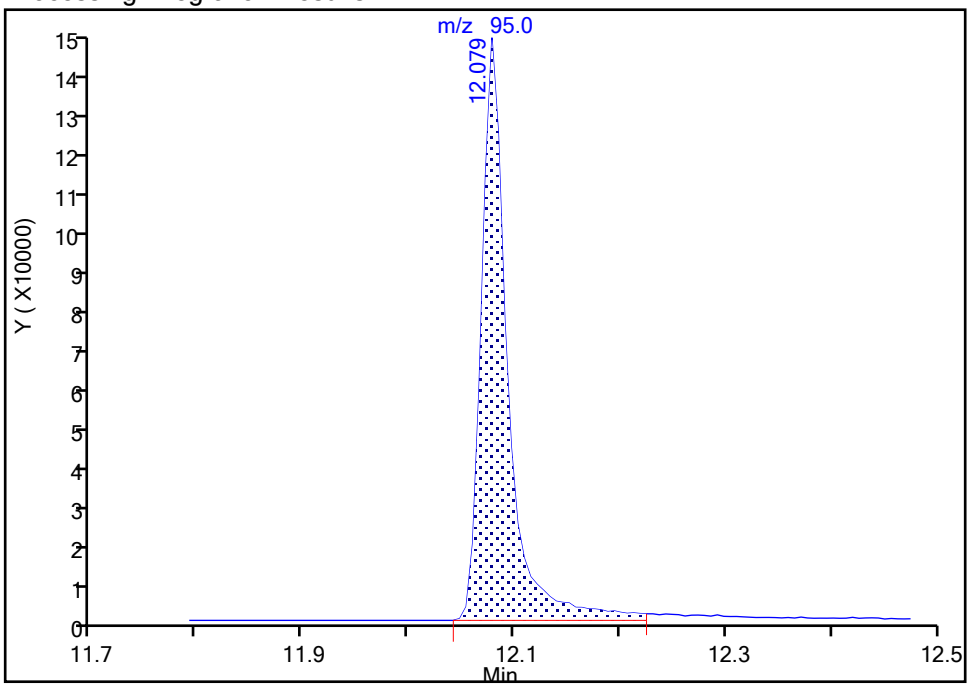
Data File:	\\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D				
Injection Date:	11-Mar-2021 15:00:30	Instrument ID:	10193		
Lims ID:	BFB				
Client ID:					
Operator ID:	SRK36897	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25mm)	Detector	MS Quad		

$ 165 BFB, CAS: 460-00-4

Signal: 1

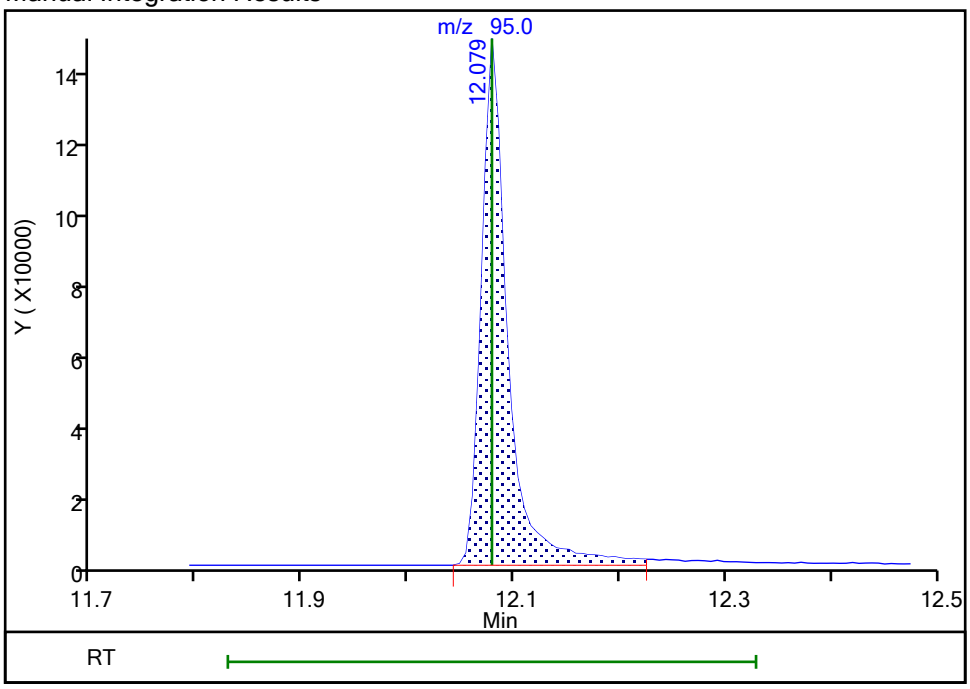
Processing Integration Results

RT: 12.08
Area: 249627
Amount: 0
Amount Units: ug/l



Manual Integration Results

RT: 12.08
Area: 249627
Amount: 0
Amount Units: ug/l



Reviewer: longj, 11-Mar-2021 15:28:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

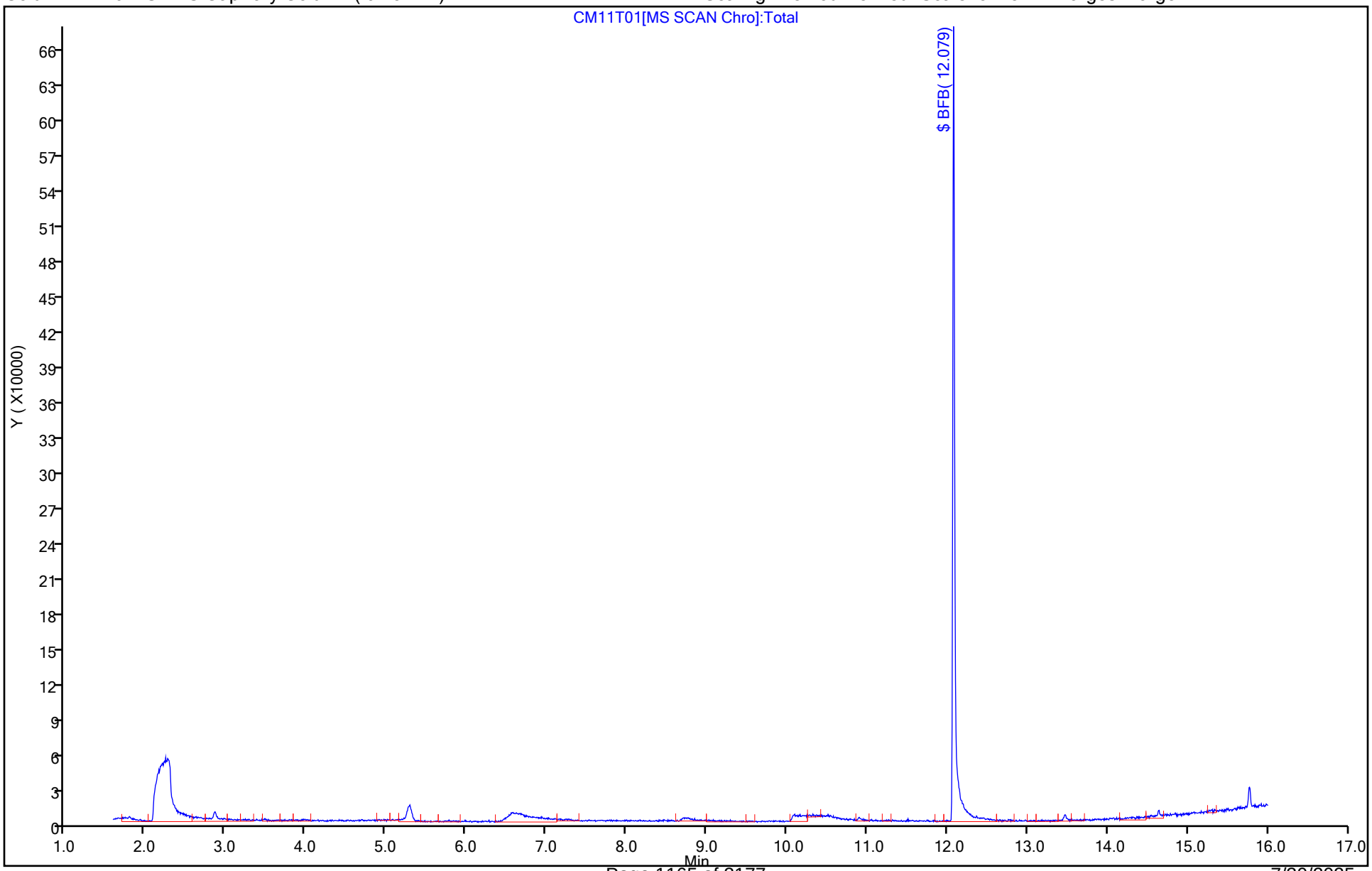
Report Date: 24-Mar-2021 17:46:32 Chrom Revision: 2.3 19-Mar-2021 08:24:58

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20210311-23820.b\CM11T01.D

Injection Date:	11-Mar-2021 15:00:30	Instrument ID:	10193	Operator ID:	SRK36897
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	04-Jun-2025 16:26:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0149247-001				
Misc. Info.:	BFB				
Operator ID:	knk41612	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	05-Jun-2025 11:38:29	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1656				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 168 BFB	95	4.947	4.947	0.000	89	943269	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

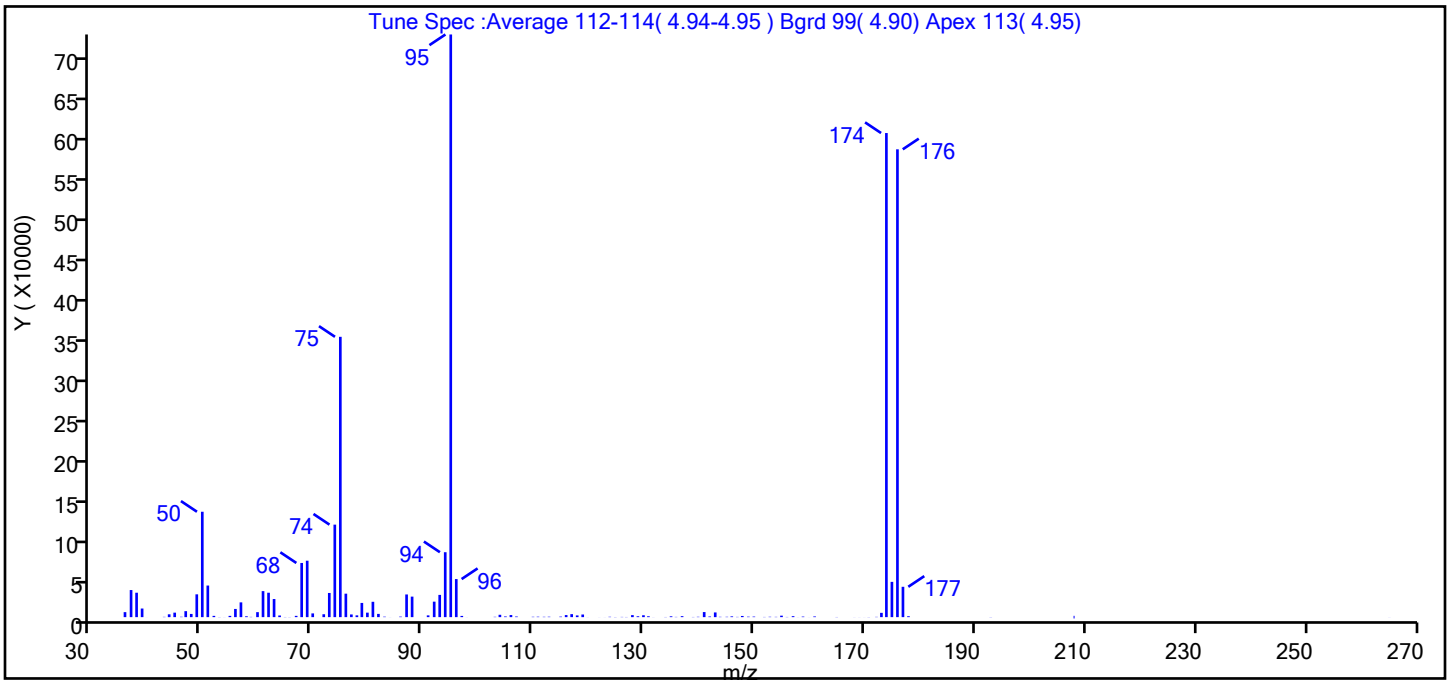
MSV_V_BFB_00019 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04T01.D
Injection Date: 04-Jun-2025 16:26:30 Instrument ID: 10193
Lims ID: BFB
Client ID:
Operator ID: knk41612 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: MSV_10193_25mL Limit Group: MSV - 8260C_D
Tune Method: BFB Method 8260

$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.1
75	30 to 60% of m/z 95	48.1
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	83.1
175	5 to 9% of m/z 174	6.1 (7.3)
176	Greater than 95% but less than 101% of m/z 174	80.3 (96.6)
177	5 to 9% of m/z 176	5.2 (6.5)

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 04-Jun-2025 16:26:30
Spectrum: Tune Spec :Average 112-114(4.94-4.95) Bgrd 99(4.90) Apex 113(4.95)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6200	70.00	4640	111.00	553	147.00	299
37.00	33552	71.00	13	112.00	420	148.00	1457
38.00	30240	72.00	3599	113.00	521	149.00	578
39.00	10674	73.00	29928	115.00	641	150.00	677
40.00	33	74.00	114552	116.00	2552	152.00	246
43.00	340	75.00	347136	117.00	3717	153.00	461
44.00	3512	76.00	29064	118.00	2131	154.00	351
45.00	5565	77.00	3332	119.00	3269	155.00	1829
46.00	458	78.00	2218	120.00	56	156.00	231
47.00	7407	79.00	17592	122.00	58	157.00	1201
48.00	3974	80.00	5565	123.00	53	158.00	63
49.00	28248	81.00	19008	124.00	440	159.00	677
50.00	130512	82.00	4028	125.00	179	160.00	52
51.00	39128	83.00	568	126.00	284	161.00	851
52.00	1578	84.00	62	127.00	206	165.00	195
53.00	159	86.00	647	128.00	2499	168.00	70
54.00	65	87.00	28088	129.00	1064	169.00	64
55.00	1562	88.00	25416	130.00	2336	170.00	51
56.00	10153	91.00	2191	131.00	1062	171.00	145
57.00	18296	92.00	19184	132.00	76	172.00	337
58.00	1061	93.00	27552	134.00	203	173.00	5327
59.00	303	94.00	80408	135.00	1026	174.00	599488
60.00	6175	95.00	721536	136.00	289	175.00	43680
61.00	32216	96.00	47152	137.00	1201	176.00	579328
62.00	30232	97.00	1526	139.00	221	177.00	37584
63.00	22432	98.00	50	140.00	436	178.00	1104
64.00	2039	103.00	398	141.00	6286	193.00	168
65.00	190	104.00	2921	142.00	777	208.00	2
66.00	151	105.00	851	143.00	5822	265.00	66
67.00	1591	106.00	2589	144.00	404		
68.00	67088	107.00	759	145.00	433		
69.00	69872	110.00	451	146.00	935		

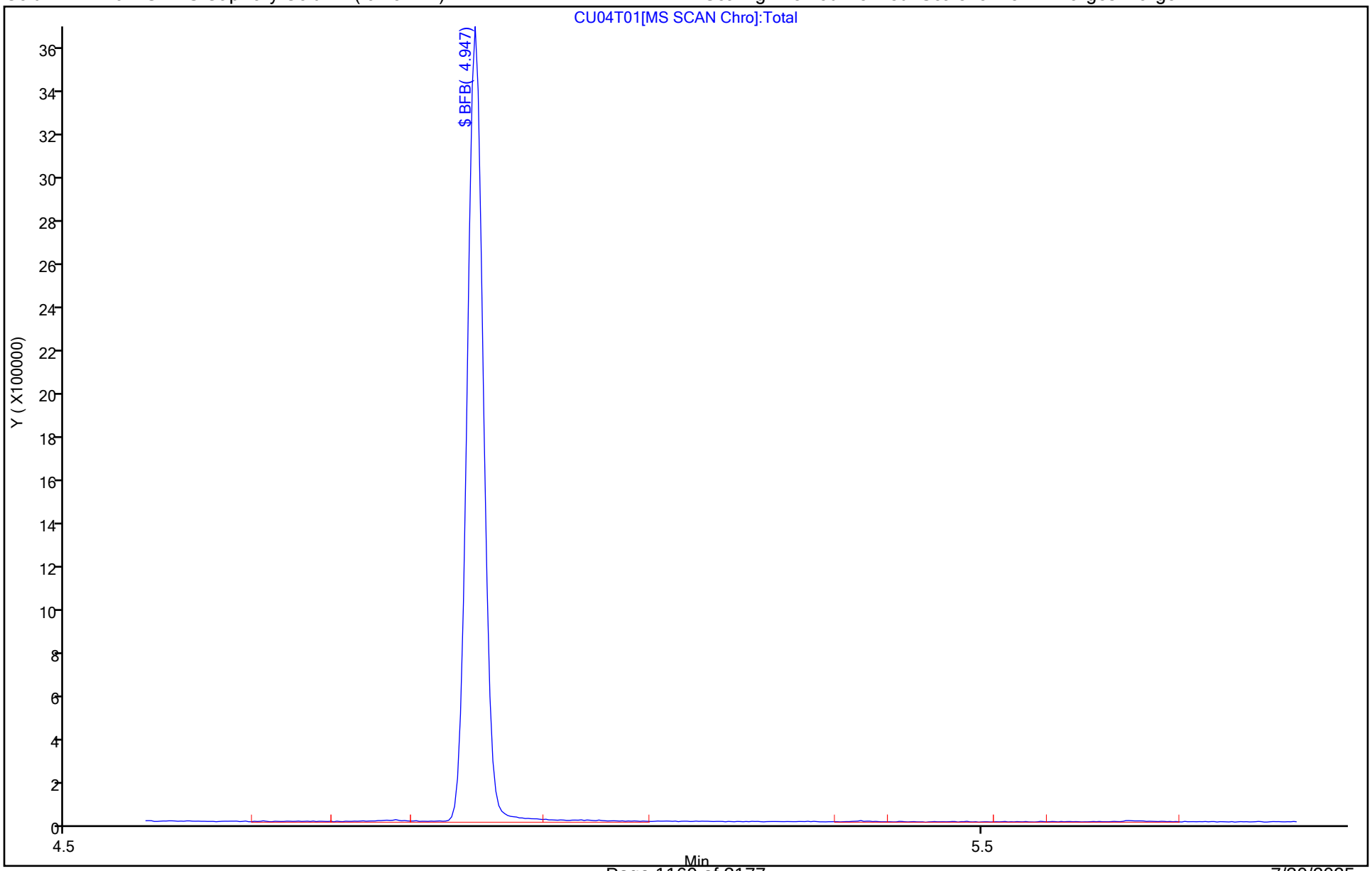
Report Date: 05-Jun-2025 11:38:29 Chrom Revision: 2.3 04-Jun-2025 17:32:36

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04T01.D

Injection Date:	04-Jun-2025 16:26:30	Instrument ID:	10193	Operator ID:	knk41612
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-Jul-2025 09:31:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-001				
Misc. Info.:	BFB				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	08-Jul-2025 16:48:39	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1611				
First Level Reviewer: N7YK		Date:	08-Jul-2025 09:41:27		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 168 BFB	95	4.947	4.947	0.000	91	803440	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

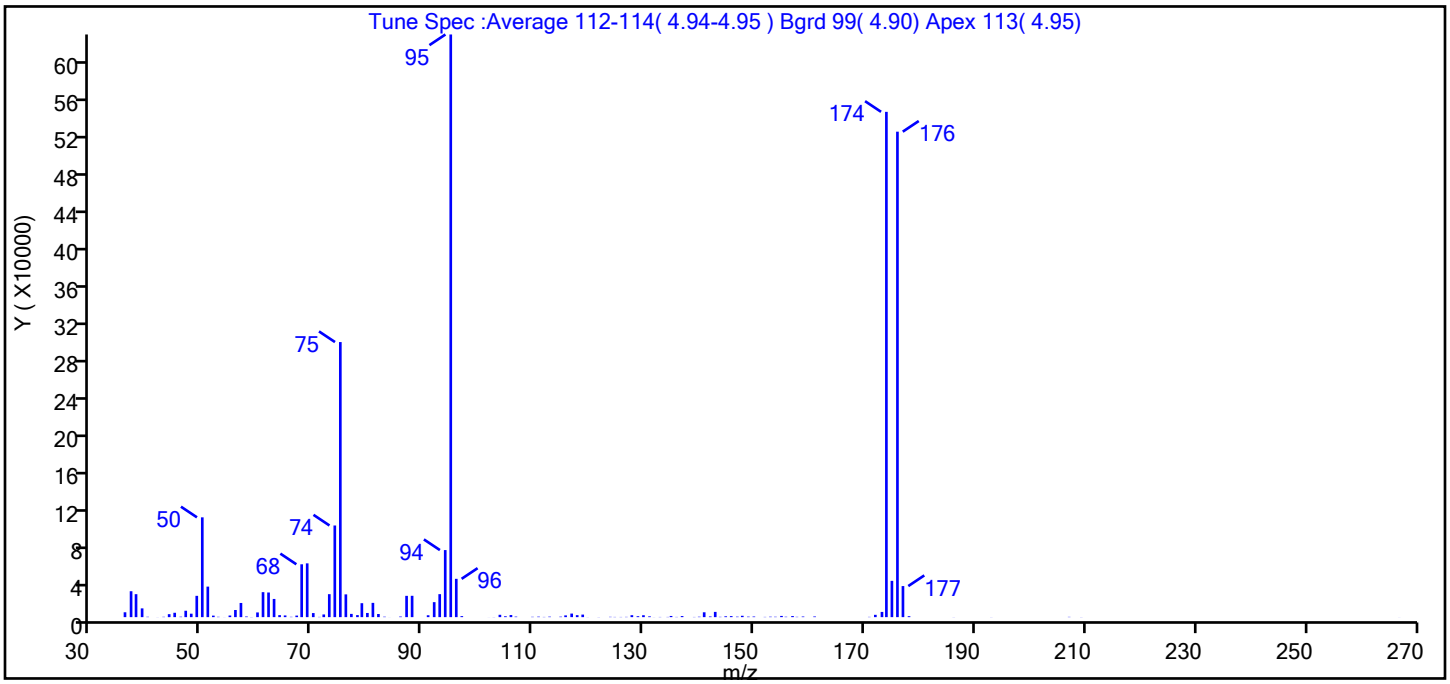
MSV_V_BFB_00019 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08T01.D				
Injection Date:	08-Jul-2025 09:31:30	Instrument ID:	10193		
Lims ID:	BFB				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.1
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	86.7
175	5 to 9% of m/z 174	6.2 (7.2)
176	Greater than 95% but less than 101% of m/z 174	83.3 (96.1)
177	5 to 9% of m/z 176	5.3 (6.4)

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 08-Jul-2025 09:31:30
Spectrum: Tune Spec :Average 112-114(4.94-4.95) Bgrd 99(4.90) Apex 113(4.95)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 123

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5185	68.00	56272	106.00	2247	143.00	5593
37.00	27592	69.00	57264	107.00	553	144.00	334
38.00	24456	70.00	4336	110.00	350	145.00	898
39.00	9337	71.00	254	111.00	524	146.00	1098
40.00	390	72.00	2874	112.00	229	147.00	505
42.00	69	73.00	24456	113.00	525	148.00	1451
43.00	346	74.00	97576	115.00	506	149.00	526
44.00	3169	75.00	292864	116.00	1858	150.00	655
45.00	4651	76.00	24248	117.00	3803	152.00	251
46.00	469	77.00	3462	118.00	2105	153.00	473
47.00	6811	78.00	2168	119.00	2724	154.00	411
48.00	3678	79.00	14854	120.00	75	155.00	1302
49.00	22680	80.00	4445	122.00	114	156.00	429
50.00	106256	81.00	15199	124.00	330	157.00	1151
51.00	32504	82.00	3340	125.00	231	158.00	336
52.00	1621	83.00	459	126.00	211	159.00	653
53.00	358	84.00	50	127.00	286	161.00	710
54.00	60	86.00	624	128.00	2072	171.00	278
55.00	1717	87.00	22672	129.00	974	172.00	2471
56.00	7611	88.00	22728	130.00	2033	173.00	5558
57.00	15092	91.00	2008	131.00	826	174.00	537984
58.00	686	92.00	15953	132.00	75	175.00	38648
59.00	147	93.00	24472	133.00	210	176.00	516864
60.00	5009	94.00	71400	134.00	227	177.00	33080
61.00	26600	95.00	620352	135.00	1256	178.00	995
62.00	26240	96.00	40784	136.00	228	186.00	88
63.00	19376	97.00	1074	137.00	1134	193.00	85
64.00	2143	102.00	50	139.00	207	207.00	292
65.00	1810	103.00	115	140.00	438	209.00	106
66.00	342	104.00	2505	141.00	5175	267.00	52
67.00	1655	105.00	936	142.00	697		

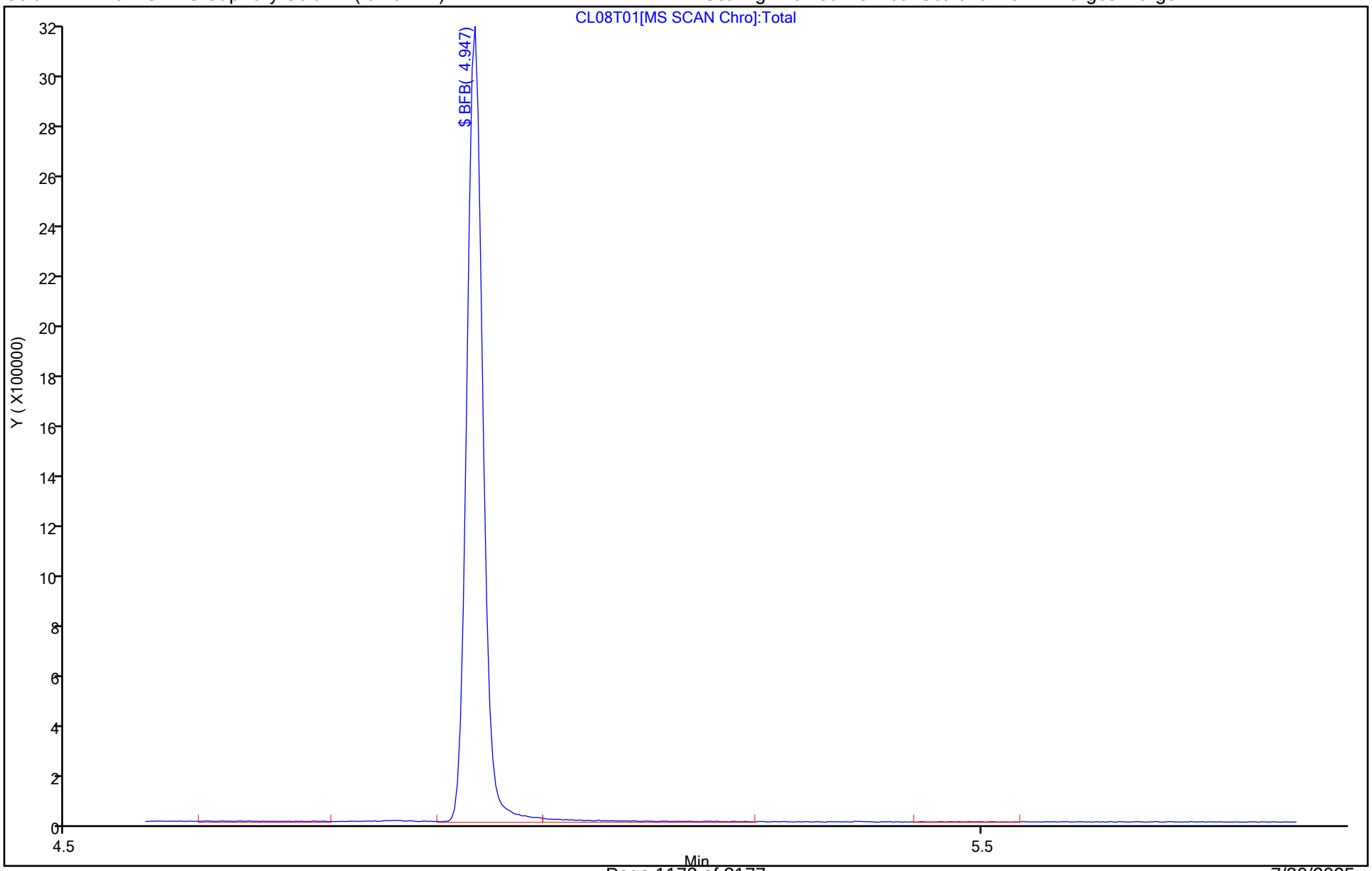
Report Date: 08-Jul-2025 16:48:40 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08T01.D

Injection Date:	08-Jul-2025 09:31:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09T01.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	09-Jul-2025 09:23:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	410-0152846-001				
Misc. Info.:	BFB				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 16:30:00	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1724				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 168 BFB	95	4.947	4.947	0.000	91	846019	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

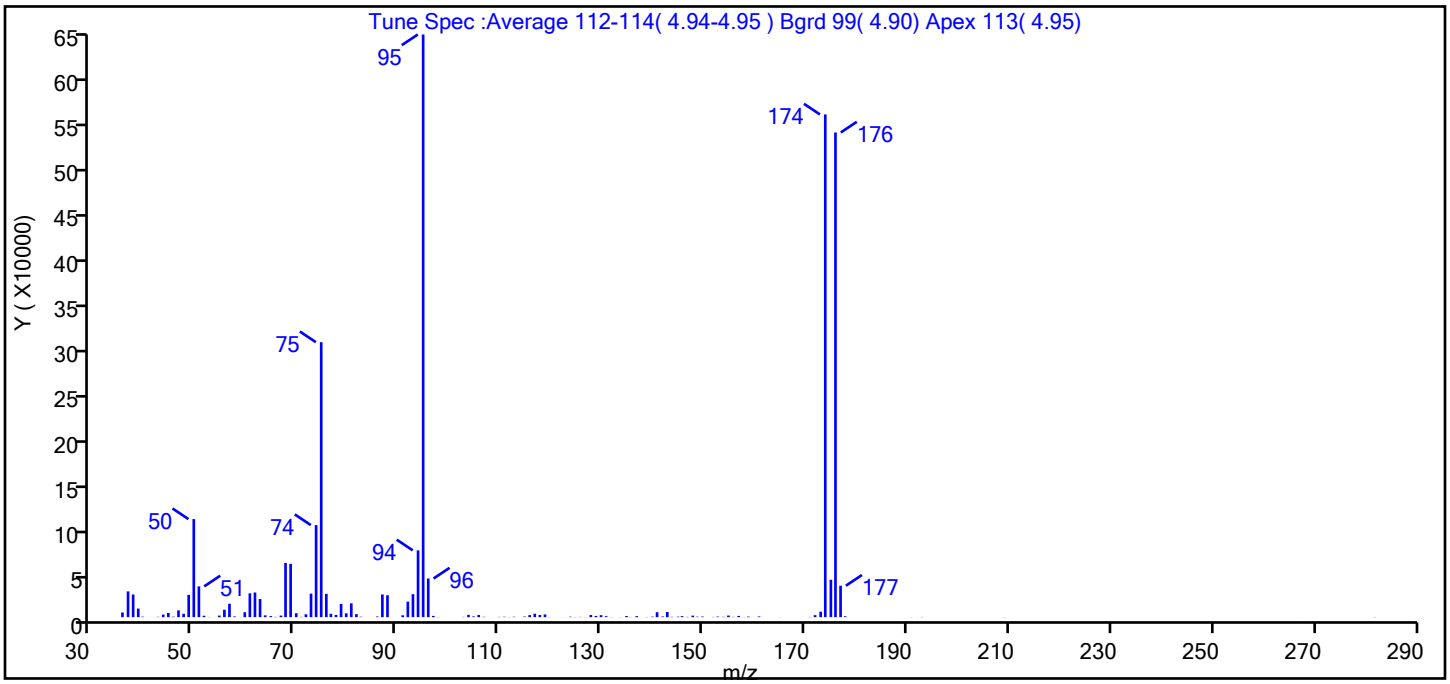
MSV_V_BFB_00019 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09T01.D				
Injection Date:	09-Jul-2025 09:23:30	Instrument ID:	10193		
Lims ID:	BFB				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Tune Method:	BFB Method 8260				

$ 168 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	86.3
175	5 to 9% of m/z 174	6.4 (7.4)
176	Greater than 95% but less than 101% of m/z 174	83.2 (96.4)
177	5 to 9% of m/z 176	5.4 (6.5)

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09T01.D\MSV_10193_25mL.rslt\spectra.d
Injection Date: 09-Jul-2025 09:23:30
Spectrum: Tune Spec :Average 112-114(4.94-4.95) Bgrd 99(4.90) Apex 113(4.95)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 123

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	5148	69.00	58824	110.00	280	145.00	552
37.00	28440	70.00	4334	111.00	441	146.00	1111
38.00	25032	71.00	317	112.00	163	147.00	322
39.00	9462	72.00	3155	113.00	434	148.00	1678
40.00	514	73.00	25984	115.00	635	149.00	498
42.00	57	74.00	101696	116.00	2245	150.00	651
43.00	345	75.00	303680	117.00	3801	152.00	249
44.00	2807	76.00	25704	118.00	2377	153.00	625
45.00	4558	77.00	3772	119.00	2948	154.00	300
46.00	487	78.00	2485	120.00	151	155.00	1758
47.00	7482	79.00	14626	122.00	81	156.00	278
48.00	3676	80.00	4216	123.00	66	157.00	1337
49.00	24608	81.00	15232	124.00	483	158.00	174
50.00	108280	82.00	3318	125.00	166	159.00	645
51.00	34000	83.00	451	126.00	244	161.00	769
52.00	1528	86.00	720	127.00	141	165.00	120
53.00	194	87.00	25024	128.00	2344	171.00	273
55.00	1728	88.00	24168	129.00	1321	172.00	2197
56.00	8253	91.00	2049	130.00	2186	173.00	6041
57.00	14800	92.00	17120	131.00	1052	174.00	555200
58.00	748	93.00	25352	132.00	169	175.00	41288
59.00	107	94.00	73792	134.00	133	176.00	535296
60.00	5456	95.00	643520	135.00	1213	177.00	34712
61.00	26296	96.00	42680	136.00	220	178.00	961
62.00	27216	97.00	1377	137.00	1134	191.00	135
63.00	19984	98.00	103	139.00	170	192.00	55
64.00	1989	103.00	266	140.00	533	193.00	211
65.00	1163	104.00	2512	141.00	5430	209.00	160
66.00	278	105.00	801	142.00	697	267.00	56
67.00	1713	106.00	2354	143.00	5692	282.00	182
68.00	59856	107.00	383	144.00	341		

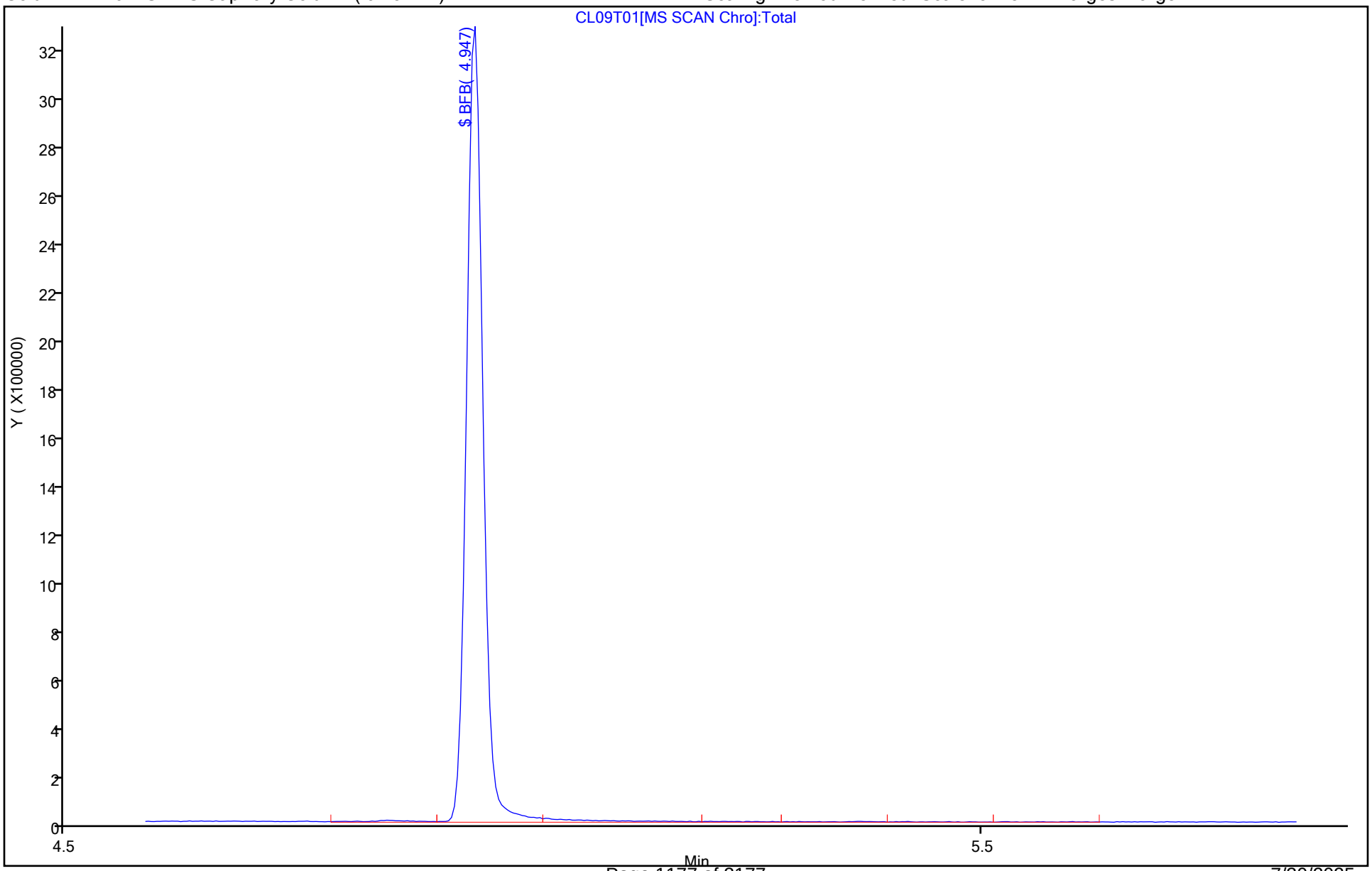
Report Date: 09-Jul-2025 16:30:01 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09T01.D

Injection Date:	09-Jul-2025 09:23:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	BFB			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-668089/8

Matrix: Water
Lab File ID: CL08X07.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 12:00

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
79-00-5	1,1,2-Trichloroethane	ND		0.50	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
78-93-3	2-Butanone	ND		10	
71-43-2	Benzene	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
60-29-7	Ethyl ether	ND		10	
100-41-4	Ethylbenzene	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X07.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Jul-2025 12:00:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-008
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:49:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 12:37:35

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116		1.720					ND	
2	Dichlorodifluoromethane	85		1.750					ND	
3	Chlorodifluoromethane	51		1.768					ND	7
4	Dimethyl ether	45		1.805					ND	
5	Chloromethane	50		1.933					ND	
7	Butadiene	39		2.012					ND	7
6	Vinyl chloride	62		2.031					ND	
8	2-Chloro-1,1,1-Trifluoroethane	118		2.079					ND	
9	Bromomethane	94		2.329					ND	
10	Chloroethane	64		2.360					ND	
11	Dichlorofluoromethane	67		2.573					ND	
13	Pentane	43		2.634					ND	U
12	Trichlorofluoromethane	101		2.658					ND	
14	Ethyl ether	59		2.817					ND	
16	1,2-Dichloro-1,1,2-trifluoroetha	67		2.915					ND	
17	Acrolein	56		2.963					ND	7
18	1,1-Dichloroethene	96		3.079					ND	
20	Acetone	43		3.110					ND	U
21	1,1,2-Trichloro-1,2,2-trifluoroe	101		3.134					ND	
22	Iodomethane	142		3.244					ND	
24	Isopropyl alcohol	45		3.262					ND	U
23	Ethyl bromide	108		3.268					ND	
25	Carbon disulfide	76		3.335					ND	7
27	Acetonitrile	41		3.451					ND	7
26	Methyl acetate	43		3.469					ND	7
29	3-Chloro-1-propene	41		3.481					ND	
30	Methylene Chloride	84		3.646					ND	
* 31	t-Butyl alcohol-d10 (IS)	65	3.671	3.664	0.007	95	155251	50.0	50.0	
32	2-Methyl-2-propanol	59		3.768					ND	
33	Acrylonitrile	53		3.945					ND	
34	Methyl tert-butyl ether	73		4.000					ND	
35	trans-1,2-Dichloroethene	96		4.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Hexane	57		4.402					ND	
38 Vinyl acetate	43		4.640					ND	
37 1,1-Dichloroethane	63		4.646					ND	
39 Isopropyl ether	45		4.713					ND	
40 2-Chloro-1,3-butadiene	53		4.756					ND	
41 Tert-butyl ethyl ether	59		5.262					ND	
42 2-Butanone (MEK)	43		5.475					ND	
43 cis-1,2-Dichloroethene	96		5.505					ND	
44 2,2-Dichloropropane	77		5.512					ND	
46 Ethyl acetate	43		5.554					ND	
45 Propionitrile	54		5.573					ND	
47 Methacrylonitrile	67		5.786					ND	
48 Chlorobromomethane	128		5.835					ND	
49 Tetrahydrofuran	71		5.841					ND	
50 Chloroform	83		5.999					ND	
51 Methyl acrylate	55		6.013					ND	
S 52 1,2-Dichloroethene, Total	100		6.155					ND	7
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	93	484157	10.0	10.7	
53 1,1,1-Trichloroethane	97		6.225					ND	
55 Cyclohexane	56		6.322					ND	
56 Carbon tetrachloride	117		6.438					ND	
57 1,1-Dichloropropene	75		6.444					ND	
58 Isobutyl alcohol	41		6.645					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	100676	10.0	10.7	
60 Benzene	78		6.713					ND	
62 1-Chlorobutane	56		6.781					ND	
61 1,2-Dichloroethane	62		6.792					ND	
63 Isopropyl acetate	43		6.828					ND	
64 Tert-amyl methyl ether	73		6.920					ND	
* 65 Fluorobenzene (IS)	96	7.139	7.133	0.006	99	1923250	10.0	10.0	
66 n-Heptane	43		7.151					ND	7
67 n-Butanol	56		7.566					ND	
68 Trichloroethene	95		7.627					ND	
69 Methylcyclohexane	83		7.932					ND	
70 1,2-Dichloropropane	63		7.968					ND	
71 2-ethoxy-2-methyl butane	87		7.993					ND	
74 1,4-Dioxane	88		8.072					ND	
72 Dibromomethane	93		8.078					ND	
73 Methyl methacrylate	69		8.078					ND	
75 n-Propyl acetate	61		8.170					ND	
76 Dichlorobromomethane	83		8.328					ND	
77 2-Nitropropane	41		8.615					ND	
78 1-Bromo-2-chloroethane	63		8.718					ND	
79 2-Chloroethyl vinyl ether	63		8.724					ND	
80 cis-1,3-Dichloropropene	75		8.901					ND	
81 Chloroacetonitrile	75		9.067					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.108					ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	93	1913275	10.0	9.70	
84 Toluene	92		9.322					ND	
85 trans-1,3-Dichloropropene	75		9.621					ND	
86 Ethyl methacrylate	69		9.700					ND	
87 1,1,2-Trichloroethane	97		9.840					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166		9.919					ND	7
89 1,3-Dichloropropane	76		10.011					ND	
S 107 1,3-Dichloropropene, Total	100		10.060					ND	7
106 2-Hexanone	43		10.084					ND	
109 n-Butyl acetate	43		10.224					ND	
108 Chlorodibromomethane	129		10.236					ND	
110 Ethylene Dibromide	107		10.346					ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1502260	10.0	10.0	
112 1-Chlorohexane	91		10.834					ND	7
113 Chlorobenzene	112		10.834					ND	
114 1,1,1,2-Tetrachloroethane	131		10.925					ND	
115 Ethylbenzene	91		10.931					ND	
116 m-Xylene & p-Xylene	106		11.053					ND	
S 117 Xylenes, Total	106		11.245					ND	7
118 o-Xylene	106		11.401					ND	
119 Styrene	104		11.413					ND	
120 Bromoform	173		11.571					ND	
121 Isopropylbenzene	105		11.712					ND	
122 cis-1,4-Dichloro-2-butene	88		11.772					ND	
123 Cyclohexanone	55		11.797					ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.864	11.858	0.006	95	696881	10.0	9.35	
125 Bromobenzene	156		11.974					ND	
126 1,1,2,2-Tetrachloroethane	83		11.974					ND	
127 trans-1,4-Dichloro-2-butene	53		11.998					ND	
128 1,2,3-Trichloropropane	110		12.016					ND	
129 N-Propylbenzene	91		12.053					ND	
130 2-Chlorotoluene	126		12.126					ND	
131 1,3,5-Trimethylbenzene	105		12.199					ND	
132 4-Chlorotoluene	126		12.224					ND	
133 tert-Butylbenzene	134		12.443					ND	
134 Pentachloroethane	167		12.474					ND	
135 1,2,4-Trimethylbenzene	105		12.492					ND	
136 sec-Butylbenzene	105		12.614					ND	
137 1,3-Dichlorobenzene	146		12.711					ND	7
138 4-Isopropyltoluene	119		12.724					ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	824157	10.0	10.0	
140 1,4-Dichlorobenzene	146		12.785					ND	7
141 1,2,3-Trimethylbenzene	120		12.797					ND	7
142 Benzyl chloride	126		12.870					ND	7
145 p-Diethylbenzene	119		13.004					ND	
143 n-Butylbenzene	92		13.022					ND	
144 1,2-Dichlorobenzene	146		13.053					ND	
147 Hexachloroethane	117		13.444					ND	
148 1,2-Dibromo-3-Chloropropane	155		13.608					ND	
149 1,3,5-Trichlorobenzene	180		13.736					ND	7
150 1,2,4-Trichlorobenzene	180		14.162					ND	
151 Hexachlorobutadiene	225		14.248					ND	
152 Naphthalene	128		14.345					ND	7
153 1,2,3-Trichlorobenzene	180		14.492					ND	
154 2-Methylnaphthalene	142	15.174	15.101	0.073	1	461		0.4333	
155 Dodecane	57		0.000					ND	
253 Dimethylformamide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
252 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
251 sec-Butyl Alcohol TIC	1		0.000					ND	
250 C4-C12	1		0.000					ND	
249 C5-C12	1		0.000					ND	
248 C7-C12	1		0.000					ND	
247 C6-C10	1		0.000					ND	
246 C6-C12	1		0.000					ND	
245 C4-C10	1		0.000					ND	
254 3-Pentanone TIC	1		0.000					ND	
244 1,1-Dichloro-1-fluoroethane TIC	1		0.000					ND	
165 n-Decane	57		0.000					ND	
164 Ethanol	45		0.000					ND	
163 t-Amyl alcohol	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
161 Methylal	1		0.000					ND	
160 1,1-Dichloroacetone	1		0.000					ND	
159 1-Chloropropane	1		0.000					ND	
158 2-Bromo-1-chloropropane	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
166 1-Bromo-3-Chloropropane	1		0.000					ND	
255 Isooctane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00114 Amount Added: 1.00 Units: uL Run Reagent

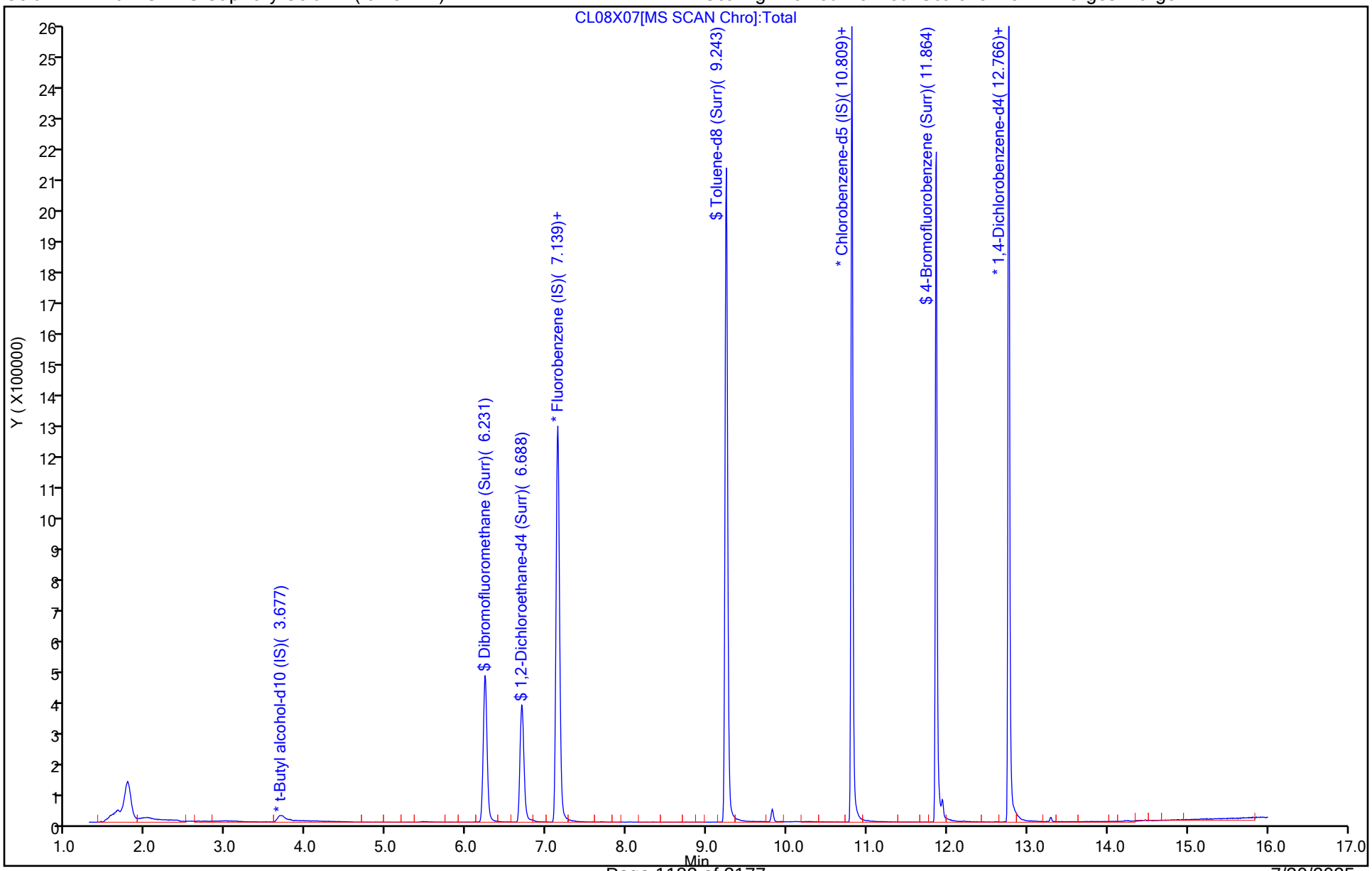
Report Date: 08-Jul-2025 16:49:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X07.D

Injection Date:	08-Jul-2025 12:00:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X07.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	08-Jul-2025 12:00:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-008				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	08-Jul-2025 16:49:01	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1611				

First Level Reviewer: N7YK Date: 08-Jul-2025 12:37:35

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.7	106.68
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.7	107.49
$ 83 Toluene-d8 (Surr)	10.0	9.70	96.97
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.35	93.53

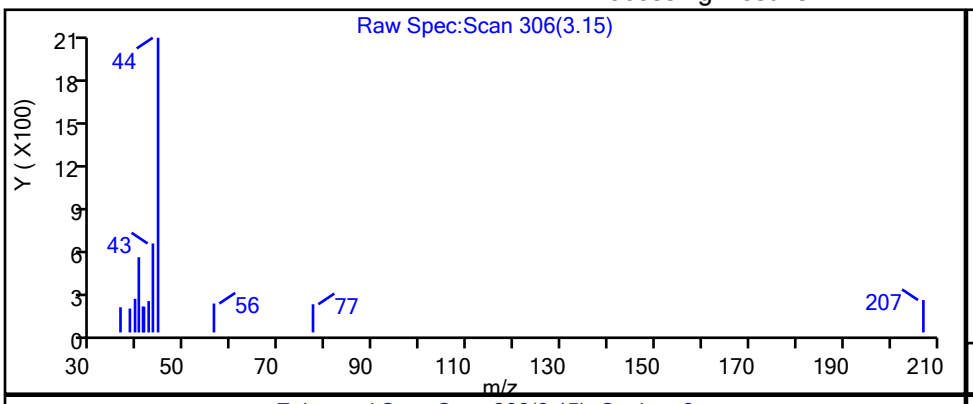
User Disabled Compound Report

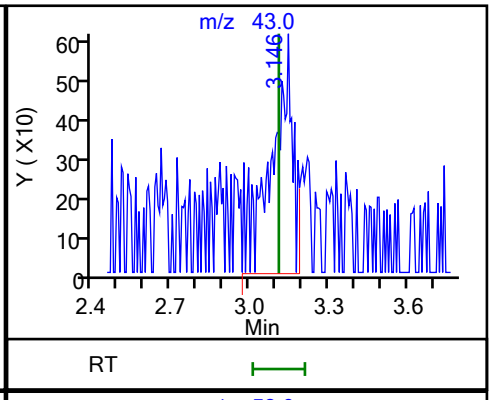
Eurofins Lancaster Laboratories Environment Testing, LLC

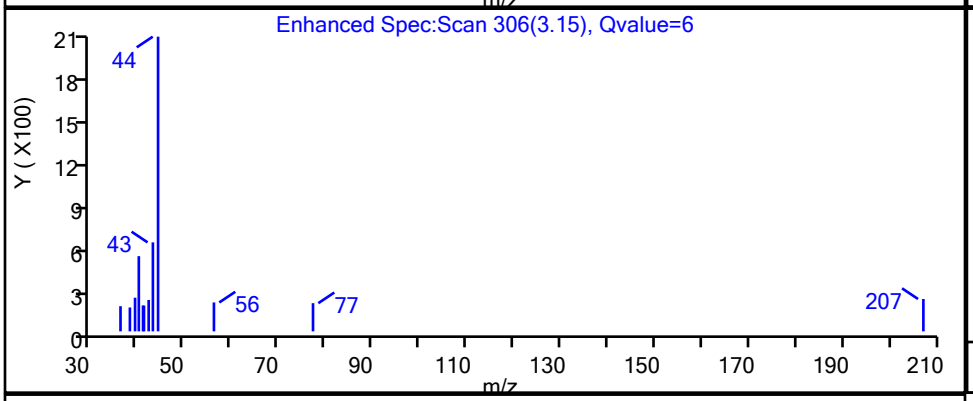
Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X07.D				
Injection Date:	08-Jul-2025 12:00:30	Instrument ID:	10193		
Lims ID:	MB				
Client ID:					
Operator ID:	ecr105096	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		
Column:	Rxi-624Sil MS Capillary Column (0.25 mm)	Detector	MS Quad		

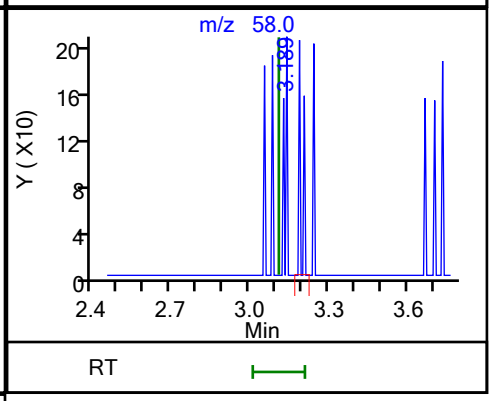
20 Acetone, CAS: 67-64-1

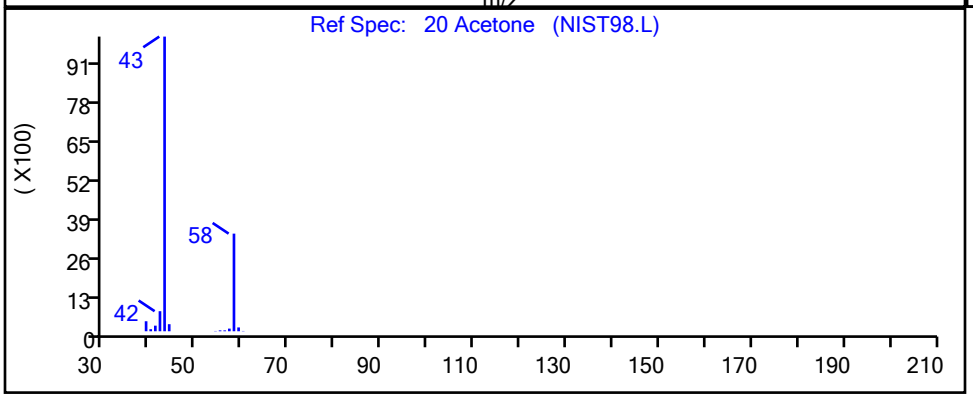
Processing Results











RT	Mass	Response	Amount
3.15	43.00	3519	0.479161
3.19	58.00	131	

Reviewer: N7YK, 08-Jul-2025 12:36:54 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-668678/10

Matrix: Water
Lab File ID: CL09X09.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 12:38

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-34-3	1,1-Dichloroethane	ND		1.0	
75-35-4	1,1-Dichloroethene	ND		1.0	
71-55-6	1,1,1-Trichloroethane	ND		1.0	
78-93-3	2-Butanone	ND		10	
71-43-2	Benzene	ND		1.0	
56-23-5	Carbon tetrachloride	ND		1.0	
75-00-3	Chloroethane	ND		1.0	
74-87-3	Chloromethane	ND		1.0	
75-71-8	Dichlorodifluoromethane	ND		1.0	
60-29-7	Ethyl ether	ND		10	
100-41-4	Ethylbenzene	ND		1.0	
75-09-2	Methylene Chloride	ND		1.0	
127-18-4	Tetrachloroethene	ND		1.0	
109-99-9	Tetrahydrofuran	ND		25	
108-88-3	Toluene	ND		1.0	
79-01-6	Trichloroethene	ND		1.0	
75-69-4	Trichlorofluoromethane	ND		1.0	
75-01-4	Vinyl chloride	ND		1.0	
1330-20-7	Xylenes, Total	ND		3.0	
115-10-6	Dimethyl ether	ND		10	
76-13-1	Freon 113	ND		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	106		80-120
460-00-4	4-Bromofluorobenzene (Surr)	94		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X09.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jul-2025 12:38:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-010
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 16:08:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116		1.720					ND	
2 Dichlorodifluoromethane	85		1.762					ND	
3 Chlorodifluoromethane	51		1.768					ND	7
4 Dimethyl ether	45		1.805					ND	
5 Chloromethane	50		1.945					ND	
7 Butadiene	39		2.025					ND	7
6 Vinyl chloride	62		2.043					ND	
8 2-Chloro-1,1,1-Trifluoroethane	118		2.079					ND	
9 Bromomethane	94		2.342					ND	
10 Chloroethane	64		2.372					ND	
11 Dichlorofluoromethane	67		2.579					ND	
13 Pentane	43		2.646					ND	U
12 Trichlorofluoromethane	101		2.671					ND	
14 Ethyl ether	59		2.823					ND	
16 1,2-Dichloro-1,1,2-trifluoroetha	67		2.927					ND	
17 Acrolein	56		2.969					ND	7
18 1,1-Dichloroethene	96		3.091					ND	
20 Acetone	43		3.116					ND	7
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		3.140					ND	
22 Iodomethane	142		3.256					ND	
24 Isopropyl alcohol	45		3.268					ND	
23 Ethyl bromide	108		3.280					ND	
25 Carbon disulfide	76		3.347					ND	7
27 Acetonitrile	41		3.451					ND	
26 Methyl acetate	43		3.475					ND	
29 3-Chloro-1-propene	41		3.494					ND	
30 Methylene Chloride	84		3.658					ND	7
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.671	-0.007	96	136877	50.0	50.0	
32 2-Methyl-2-propanol	59		3.774					ND	
33 Acrylonitrile	53		3.957					ND	
34 Methyl tert-butyl ether	73		4.012					ND	
35 trans-1,2-Dichloroethene	96		4.012					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
36 Hexane	57		4.414					ND	
38 Vinyl acetate	43		4.640					ND	
37 1,1-Dichloroethane	63		4.652					ND	
39 Isopropyl ether	45		4.719					ND	
40 2-Chloro-1,3-butadiene	53		4.768					ND	
41 Tert-butyl ethyl ether	59		5.274					ND	
42 2-Butanone (MEK)	43		5.481					ND	
43 cis-1,2-Dichloroethene	96		5.512					ND	
44 2,2-Dichloropropane	77		5.524					ND	
46 Ethyl acetate	43		5.554					ND	7
45 Propionitrile	54		5.573					ND	
47 Methacrylonitrile	67		5.792					ND	
48 Chlorobromomethane	128		5.847					ND	
49 Tetrahydrofuran	71		5.853					ND	
50 Chloroform	83		6.012					ND	
51 Methyl acrylate	55		6.013					ND	
S 52 1,2-Dichloroethene, Total	100		6.155					ND	7
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.231	-0.006	94	477116	10.0	10.6	
53 1,1,1-Trichloroethane	97		6.231					ND	
55 Cyclohexane	56		6.323					ND	
56 Carbon tetrachloride	117		6.438					ND	
57 1,1-Dichloropropene	75		6.451					ND	
58 Isobutyl alcohol	41		6.652					ND	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.694	-0.012	98	97827	10.0	10.5	
60 Benzene	78		6.719					ND	
62 1-Chlorobutane	56		6.781					ND	
61 1,2-Dichloroethane	62		6.792					ND	
63 Isopropyl acetate	43		6.828					ND	
64 Tert-amyl methyl ether	73		6.926					ND	
* 65 Fluorobenzene (IS)	96	7.133	7.139	-0.006	99	1912119	10.0	10.0	
66 n-Heptane	43		7.158					ND	7
67 n-Butanol	56		7.566					ND	
68 Trichloroethene	95		7.627					ND	
69 Methylcyclohexane	83		7.938					ND	
70 1,2-Dichloropropane	63		7.969					ND	
71 2-ethoxy-2-methyl butane	87		7.999					ND	
74 1,4-Dioxane	88		8.078					ND	
72 Dibromomethane	93		8.078					ND	
73 Methyl methacrylate	69		8.078					ND	
75 n-Propyl acetate	61		8.170					ND	
76 Dichlorobromomethane	83		8.328					ND	
77 2-Nitropropane	41		8.621					ND	
79 2-Chloroethyl vinyl ether	63		8.724					ND	
78 1-Bromo-2-chloroethane	63		8.724					ND	
80 cis-1,3-Dichloropropene	75		8.901					ND	
81 Chloroacetonitrile	75		9.067					ND	
82 4-Methyl-2-pentanone (MIBK)	43		9.115					ND	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1876251	10.0	9.64	
84 Toluene	92		9.328					ND	7
85 trans-1,3-Dichloropropene	75		9.621					ND	
86 Ethyl methacrylate	69		9.706					ND	
87 1,1,2-Trichloroethane	97		9.840					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
88 Tetrachloroethene	166		9.919					ND	
89 1,3-Dichloropropane	76		10.011					ND	
S 107 1,3-Dichloropropene, Total	100		10.060					ND	7
106 2-Hexanone	43		10.084					ND	
109 n-Butyl acetate	43		10.224					ND	U
108 Chlorodibromomethane	129		10.236					ND	
110 Ethylene Dibromide	107		10.346					ND	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1482262	10.0	10.0	
112 1-Chlorohexane	91		10.834					ND	7
113 Chlorobenzene	112		10.834					ND	
114 1,1,1,2-Tetrachloroethane	131		10.931					ND	
115 Ethylbenzene	91		10.931					ND	
116 m-Xylene & p-Xylene	106		11.059					ND	
S 117 Xylenes, Total	106		11.245					ND	7
118 o-Xylene	106		11.401					ND	
119 Styrene	104		11.419					ND	
120 Bromoform	173		11.571					ND	
121 Isopropylbenzene	105		11.712					ND	
122 cis-1,4-Dichloro-2-butene	88		11.772					ND	
123 Cyclohexanone	55		11.797					ND	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	94	689186	10.0	9.37	
125 Bromobenzene	156		11.974					ND	
126 1,1,2,2-Tetrachloroethane	83		11.974					ND	
127 trans-1,4-Dichloro-2-butene	53		11.998					ND	
128 1,2,3-Trichloropropane	110		12.017					ND	
129 N-Propylbenzene	91		12.053					ND	
130 2-Chlorotoluene	126		12.126					ND	
131 1,3,5-Trimethylbenzene	105		12.199					ND	
132 4-Chlorotoluene	126		12.224					ND	
133 tert-Butylbenzene	134		12.443					ND	
134 Pentachloroethane	167		12.474					ND	
135 1,2,4-Trimethylbenzene	105		12.492					ND	
136 sec-Butylbenzene	105		12.614					ND	
137 1,3-Dichlorobenzene	146		12.712					ND	7
138 4-Isopropyltoluene	119		12.724					ND	7
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	805474	10.0	10.0	
140 1,4-Dichlorobenzene	146		12.785					ND	7
141 1,2,3-Trimethylbenzene	120		12.797					ND	7
142 Benzyl chloride	126		12.870					ND	
145 p-Diethylbenzene	119		13.004					ND	
143 n-Butylbenzene	92		13.022					ND	
144 1,2-Dichlorobenzene	146		13.047					ND	
147 Hexachloroethane	117		13.444					ND	
148 1,2-Dibromo-3-Chloropropane	155		13.608					ND	
149 1,3,5-Trichlorobenzene	180		13.736					ND	7
150 1,2,4-Trichlorobenzene	180		14.162					ND	7
151 Hexachlorobutadiene	225		14.248					ND	
152 Naphthalene	128		14.345					ND	7
153 1,2,3-Trichlorobenzene	180		14.492					ND	
154 2-Methylnaphthalene	142		15.101					ND	
155 Dodecane	57		0.000					ND	
253 Dimethylformamide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
252 1,1,1,2-Tetrafluoroethane TIC	1		0.000					ND	
251 sec-Butyl Alcohol TIC	1		0.000					ND	
250 C4-C12	1		0.000					ND	
249 C5-C12	1		0.000					ND	
248 C7-C12	1		0.000					ND	
247 C6-C10	1		0.000					ND	
246 C6-C12	1		0.000					ND	
245 C4-C10	1		0.000					ND	
254 3-Pentanone TIC	1		0.000					ND	
244 1,1-Dichloro-1-fluoroethane TIC	1		0.000					ND	
165 n-Decane	57		0.000					ND	
164 Ethanol	45		0.000					ND	
163 t-Amyl alcohol	1		0.000					ND	
162 Propene oxide	1		0.000					ND	
161 Methylal	1		0.000					ND	
160 1,1-Dichloroacetone	1		0.000					ND	
159 1-Chloropropane	1		0.000					ND	
158 2-Bromo-1-chloropropane	1		0.000					ND	
157 tert-Butyl Formate	1		0.000					ND	
156 1,1-Dichloro-1-fluoroethane	1		0.000					ND	
166 1-Bromo-3-Chloropropane	1		0.000					ND	
255 Isooctane TIC	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSV_HP25_ISSS_00116 Amount Added: 1.00 Units: uL Run Reagent

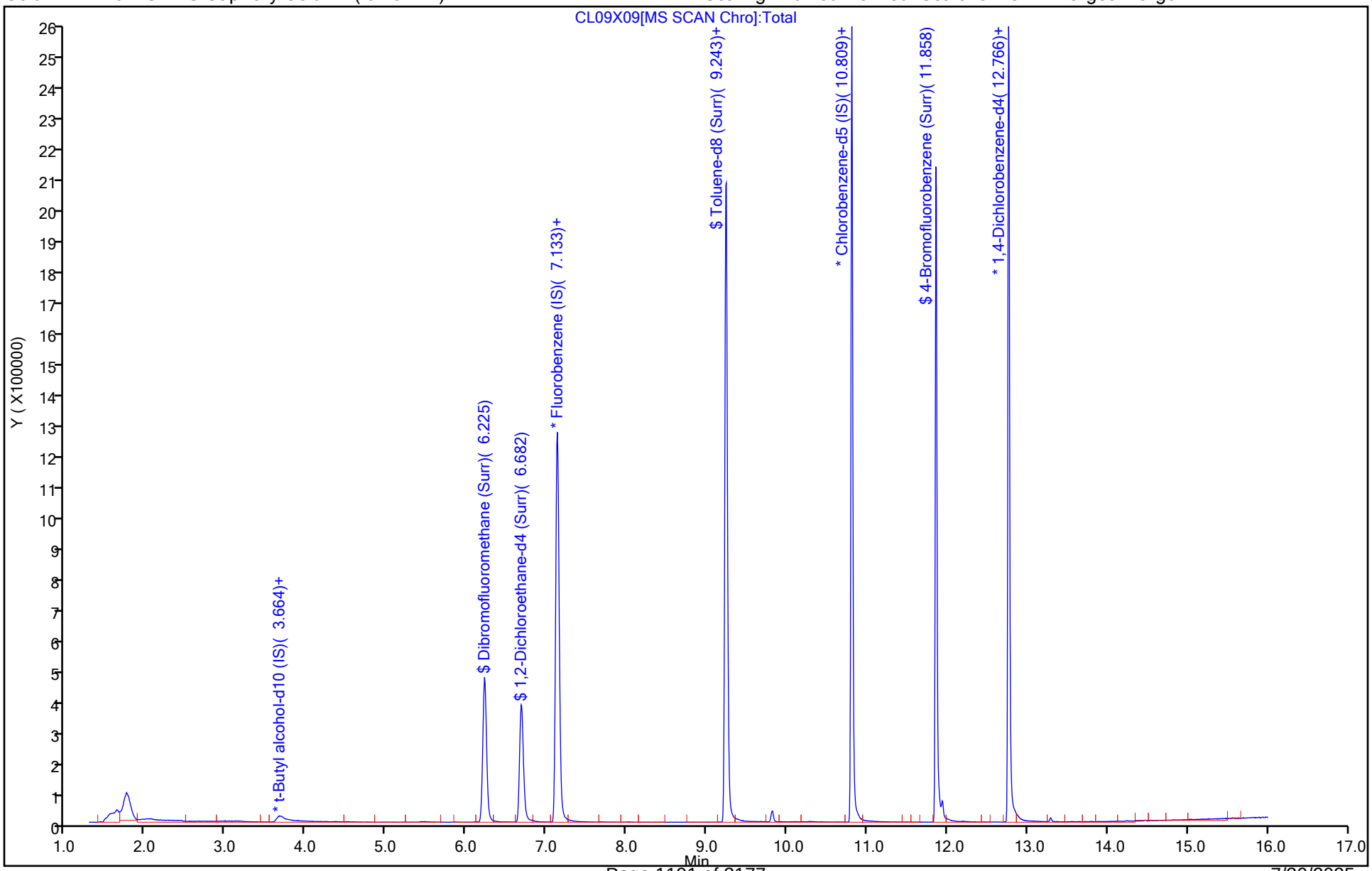
Report Date: 09-Jul-2025 16:31:14 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X09.D

Injection Date:	09-Jul-2025 12:38:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	MB			Worklist Smp#:	10
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X09.D				
Lims ID:	MB				
Client ID:					
Sample Type:	MB				
Inject. Date:	09-Jul-2025 12:38:30	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152846-010				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 16:30:22	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1724				

First Level Reviewer: N7YK Date: 09-Jul-2025 16:08:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.6	105.74
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.06
$ 83 Toluene-d8 (Surr)	10.0	9.64	96.37
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.37	93.75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-668089/5

Matrix: Water
Lab File ID: CL08X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 10:53

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-34-3	1,1-Dichloroethane	4.93		1.0	
75-35-4	1,1-Dichloroethene	5.06		1.0	
71-55-6	1,1,1-Trichloroethane	4.90		1.0	
78-93-3	2-Butanone	68.2		10	
71-43-2	Benzene	4.76		1.0	
56-23-5	Carbon tetrachloride	5.02		1.0	
75-00-3	Chloroethane	4.99		1.0	
74-87-3	Chloromethane	4.79		1.0	
75-71-8	Dichlorodifluoromethane	5.11		1.0	
60-29-7	Ethyl ether	4.62	J	10	
100-41-4	Ethylbenzene	4.64		1.0	
75-09-2	Methylene Chloride	5.11		1.0	
127-18-4	Tetrachloroethene	4.65		1.0	
109-99-9	Tetrahydrofuran	26.0		25	
108-88-3	Toluene	4.70		1.0	
79-01-6	Trichloroethene	4.70		1.0	
75-69-4	Trichlorofluoromethane	5.00		1.0	
75-01-4	Vinyl chloride	4.97		1.0	
1330-20-7	Xylenes, Total	14.2		3.0	
76-13-1	Freon 113	4.46		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2025 10:53:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-005
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:49:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 11:38:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.750	1.750	0.000	96	347361	5.00	5.11	
5 Chloromethane	50	1.933	1.933	0.000	100	386742	5.00	4.79	
7 Butadiene	39	2.018	2.012	0.006	93	449264	5.00	4.84	
6 Vinyl chloride	62	2.037	2.031	0.006	99	353981	5.00	4.97	
9 Bromomethane	94	2.329	2.329	0.000	91	252128	5.00	5.53	
10 Chloroethane	64	2.366	2.360	0.006	100	201822	5.00	4.99	
11 Dichlorofluoromethane	67	2.573	2.573	0.000	98	563119	5.00	4.83	
13 Pentane	43	2.634	2.634	0.000	96	345933	5.00	4.41	
12 Trichlorofluoromethane	101	2.665	2.658	0.007	99	450926	5.00	5.00	
14 Ethyl ether	59	2.817	2.817	0.000	94	198436	4.96	4.62	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.915	2.915	0.001	92	303089	5.00	4.81	
17 Acrolein	56	2.969	2.963	0.006	99	236444	36.6	43.6	
18 1,1-Dichloroethene	96	3.085	3.079	0.006	99	225082	5.00	5.06	
20 Acetone	43	3.110	3.110	0.000	99	468445	62.5	66.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.128	3.134	-0.006	92	206044	5.00	4.46	
22 Iodomethane	142	3.250	3.244	0.006	98	428700	5.00	4.74	
24 Isopropyl alcohol	45	3.256	3.262	-0.006	33	43647	37.5	32.4	
25 Carbon disulfide	76	3.341	3.335	0.006	99	786263	5.00	4.80	M
26 Methyl acetate	43	3.463	3.469	-0.006	98	119481	5.00	6.27	M
29 3-Chloro-1-propene	41	3.488	3.481	0.007	91	380568	5.00	4.55	
30 Methylene Chloride	84	3.646	3.646	0.000	92	274070	5.00	5.11	
* 31 t-Butyl alcohol-d10 (IS)	65	3.658	3.664	-0.006	38	149552	50.0	50.0	
32 2-Methyl-2-propanol	59	3.774	3.768	0.006	98	122874	50.0	55.3	
33 Acrylonitrile	53	3.945	3.945	0.000	99	263905	25.0	25.4	
34 Methyl tert-butyl ether	73	4.006	4.000	0.006	92	651021	5.00	4.28	
35 trans-1,2-Dichloroethene	96	4.006	4.000	0.006	99	268358	5.00	4.89	
36 Hexane	57	4.402	4.402	0.000	95	305192	5.00	4.09	
37 1,1-Dichloroethane	63	4.646	4.646	0.000	97	492577	5.00	4.93	
39 Isopropyl ether	45	4.713	4.713	0.000	93	824210	5.00	4.46	
40 2-Chloro-1,3-butadiene	53	4.762	4.756	0.006	91	377815	5.00	4.29	
41 Tert-butyl ethyl ether	59	5.262	5.262	0.000	97	755107	5.00	4.15	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	100	926466	62.5	68.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	5.506	5.505	0.001	83	301845	5.00	4.78	
44 2,2-Dichloropropane	77	5.512	5.512	0.000	86	386986	5.00	4.94	
45 Propionitrile	54	5.566	5.573	-0.007	97	146407	37.5	40.0	
47 Methacrylonitrile	67	5.786	5.786	0.000	92	552212	37.5	42.0	
48 Chlorobromomethane	128	5.841	5.835	0.006	94	138327	5.00	4.91	
49 Tetrahydrofuran	71	5.847	5.841	0.006	75	100444	25.0	26.0	
50 Chloroform	83	6.005	5.999	0.006	94	491220	5.00	4.85	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	505923	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.225	6.225	0.000	98	435290	5.00	4.90	
55 Cyclohexane	56	6.316	6.322	-0.006	92	398710	5.00	4.22	
56 Carbon tetrachloride	117	6.438	6.438	0.000	95	379690	5.00	5.02	
57 1,1-Dichloropropene	75	6.444	6.444	0.000	95	358577	5.00	4.50	
58 Isobutyl alcohol	41	6.652	6.645	0.007	92	123345	125.0	136.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	107603	10.0	10.6	
60 Benzene	78	6.713	6.713	0.000	97	1131859	5.00	4.76	
61 1,2-Dichloroethane	62	6.786	6.792	-0.006	98	299212	5.00	4.61	
64 Tert-amyl methyl ether	73	6.920	6.920	0.000	98	716056	5.00	4.41	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	98	2088770	10.0	10.0	
66 n-Heptane	43	7.158	7.151	0.007	92	345152	5.00	4.69	
67 n-Butanol	56	7.572	7.566	0.006	92	223317	250.0	262.0	
68 Trichloroethene	95	7.627	7.627	0.000	98	295180	5.00	4.70	
69 Methylcyclohexane	83	7.932	7.932	0.000	92	417689	5.00	4.13	
70 1,2-Dichloropropane	63	7.962	7.968	-0.006	97	286602	5.00	4.71	
71 2-ethoxy-2-methyl butane	87	7.993	7.993	0.000	94	420917	5.00	4.42	
74 1,4-Dioxane	88	8.072	8.072	0.000	32	30483	125.0	144.8	M
72 Dibromomethane	93	8.078	8.078	0.000	93	143540	5.00	4.77	
73 Methyl methacrylate	69	8.078	8.078	0.000	91	134223	5.00	4.95	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	352901	5.00	4.76	
77 2-Nitropropane	41	8.621	8.615	0.006	99	38199	5.00	4.37	
78 1-Bromo-2-chloroethane	63	8.724	8.718	0.006	99	302776	5.00	5.09	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	95	394744	5.00	4.33	
82 4-Methyl-2-pentanone (MIBK)	43	9.108	9.108	0.000	97	2382981	62.5	66.2	
$ 83 Toluene-d8 (Surr)	98	9.236	9.243	-0.007	93	2071425	10.0	9.84	
84 Toluene	92	9.322	9.322	0.000	98	731707	5.00	4.70	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	93	352558	5.00	4.48	
86 Ethyl methacrylate	69	9.706	9.700	0.006	89	276845	5.00	4.06	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	90	213534	5.00	4.78	
88 Tetrachloroethene	166	9.919	9.919	0.000	99	335770	5.00	4.65	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	349090	5.00	4.62	
106 2-Hexanone	43	10.084	10.084	0.000	97	1756719	62.5	68.2	
108 Chlorodibromomethane	129	10.236	10.236	0.000	91	266150	5.00	4.89	
110 Ethylene Dibromide	107	10.346	10.346	0.000	98	205482	5.00	4.75	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1602020	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	374954	5.00	4.29	
113 Chlorobenzene	112	10.834	10.834	0.000	96	848674	5.00	4.77	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.925	0.000	96	298990	5.00	4.93	
115 Ethylbenzene	91	10.931	10.931	0.000	98	1434524	5.00	4.64	
116 m-Xylene & p-Xylene	106	11.053	11.053	0.000	97	1147351	10.0	9.55	
118 o-Xylene	106	11.401	11.401	0.000	96	553241	5.00	4.67	
119 Styrene	104	11.419	11.413	0.006	95	942200	5.00	4.78	
120 Bromoform	173	11.571	11.571	0.000	97	160539	5.00	5.06	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	1440649	5.00	5.27	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	92	792102	10.0	9.97	
125 Bromobenzene	156	11.974	11.974	0.000	90	383893	5.00	4.72	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	71	266727	5.00	4.61	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	94	292852	25.0	21.1	
128 1,2,3-Trichloropropane	110	12.016	12.016	0.000	83	73386	5.00	4.63	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1744032	5.00	4.61	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	354263	5.00	4.56	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	93	1268856	5.00	4.64	
132 4-Chlorotoluene	126	12.224	12.224	0.000	98	368524	5.00	4.57	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	257455	5.00	4.10	
135 1,2,4-Trimethylbenzene	105	12.486	12.492	-0.006	98	1286467	5.00	4.58	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1597868	5.00	4.58	
137 1,3-Dichlorobenzene	146	12.711	12.711	0.000	98	746089	5.00	4.78	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	1397840	5.00	4.58	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	916163	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	96	763472	5.00	4.69	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	583956	5.00	4.60	
142 Benzyl chloride	126	12.870	12.870	0.000	98	104665	5.00	5.15	
145 p-Diethylbenzene	119	13.004	13.004	0.000	93	868844	5.00	4.71	
143 n-Butylbenzene	92	13.022	13.022	0.000	97	686491	5.00	4.67	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	686628	5.00	4.83	
148 1,2-Dibromo-3-Chloropropane	155	13.614	13.608	0.006	88	33150	5.00	4.29	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	533103	5.00	4.88	
150 1,2,4-Trichlorobenzene	180	14.168	14.162	0.006	94	400849	5.00	4.85	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	234883	5.00	5.09	
152 Naphthalene	128	14.345	14.345	0.000	97	623852	5.00	4.62	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	319993	5.00	5.00	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	188470	5.00	3.60	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00235	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00011	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

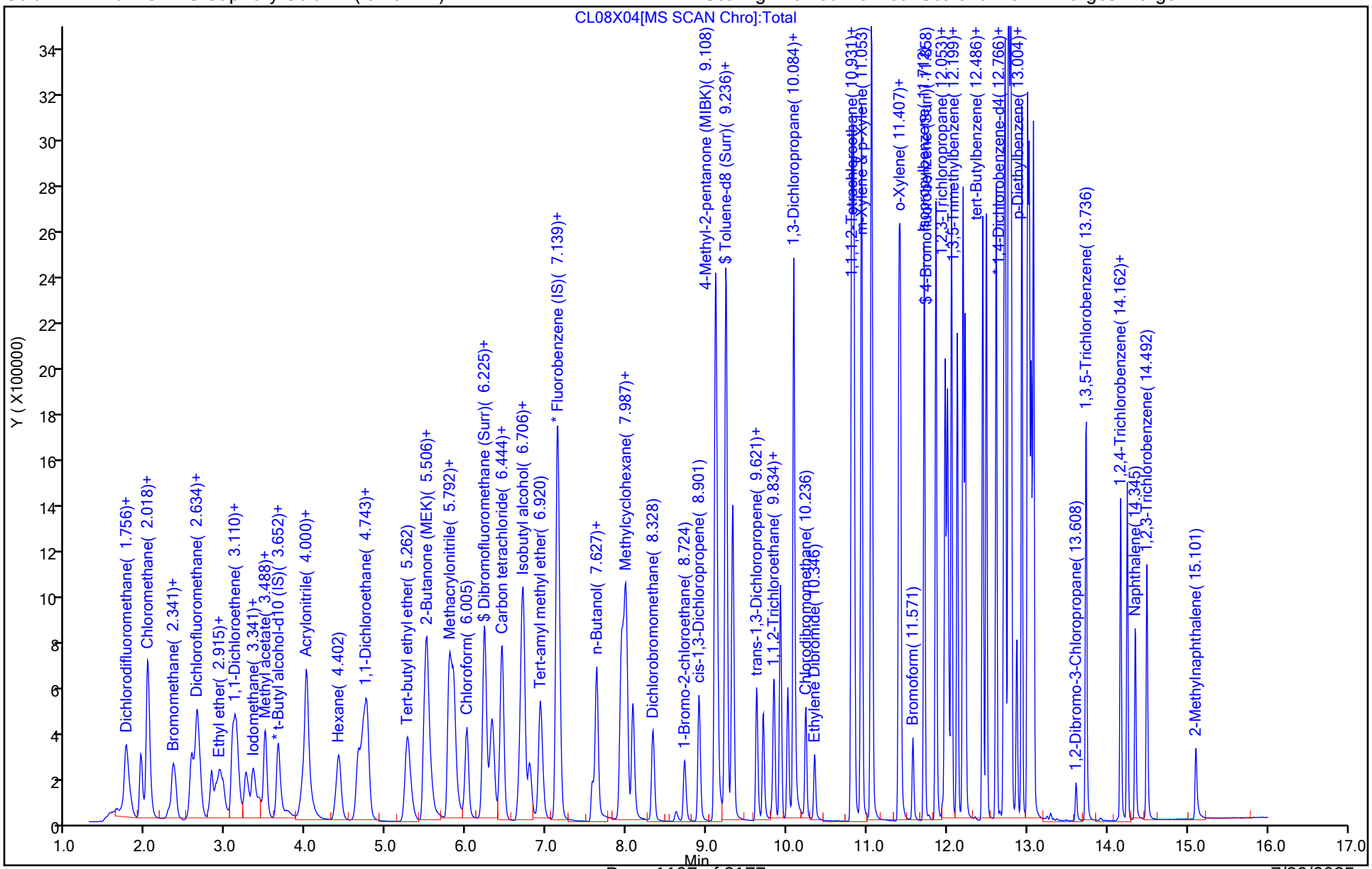
Report Date: 08-Jul-2025 16:49:03 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X04.D

Injection Date:	08-Jul-2025 10:53:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2025 10:53:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-005
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:49:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 11:38:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.3	102.64
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.79
$ 83 Toluene-d8 (Surr)	10.0	9.84	98.45
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.97	99.69

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-668089/6

Matrix: Water
Lab File ID: CL08X05.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 11:16

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
115-10-6	Dimethyl ether	4.38	J	10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X05.D
Lims ID: LCS Sm
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2025 11:16:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-006
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:49:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 11:39:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.811	1.805	0.006	99	392363	5.00	4.38	
27 Acetonitrile	41	3.457	3.451	0.006	98	70412	18.8	19.6	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.664	0.000	95	144427	50.0	50.0	
38 Vinyl acetate	43	4.652	4.640	0.012	98	838204	12.5	11.7	
46 Ethyl acetate	43	5.554	5.554	0.000	99	81552	2.50	2.35	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	492042	10.0	10.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	99936	10.0	10.3	
63 Isopropyl acetate	43	6.828	6.828	0.000	99	173333	2.50	2.22	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1988898	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	99	34261	2.50	2.17	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	-0.001	93	1949121	10.0	9.66	
109 n-Butyl acetate	43	10.230	10.224	0.006	98	136147	2.50	1.96	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1536819	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	710961	10.0	9.33	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	96	839410	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_LCS_V5ACE_00054	Amount Added:	6.25	Units: uL	
MSV_DME_00072	Amount Added:	0.50	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

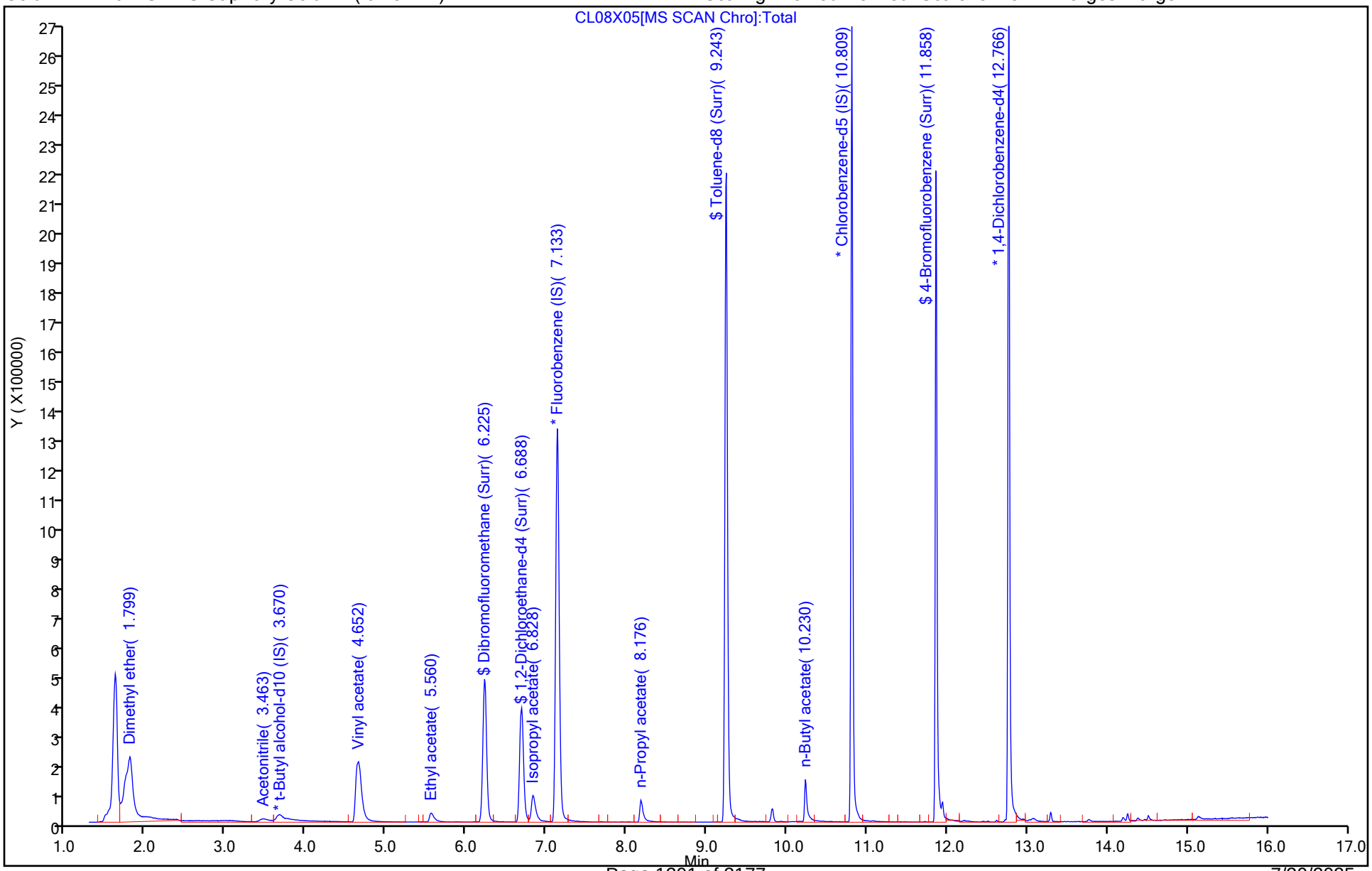
Report Date: 08-Jul-2025 16:49:20 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X05.D

Injection Date:	08-Jul-2025 11:16:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	LCS Sm			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X05.D
Lims ID: LCS Sm
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2025 11:16:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-006
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 08-Jul-2025 16:49:01 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1611

First Level Reviewer: N7YK Date: 08-Jul-2025 11:39:18

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.5	104.84
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.18
$ 83 Toluene-d8 (Surr)	10.0	9.66	96.56
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.33	93.28

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-668678/5

Matrix: Water
Lab File ID: CL09X04.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 10:46

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-34-3	1,1-Dichloroethane	5.02		1.0	
75-35-4	1,1-Dichloroethene	5.09		1.0	
71-55-6	1,1,1-Trichloroethane	4.93		1.0	
78-93-3	2-Butanone	72.1		10	
71-43-2	Benzene	4.84		1.0	
56-23-5	Carbon tetrachloride	5.05		1.0	
75-00-3	Chloroethane	4.52		1.0	
74-87-3	Chloromethane	4.57		1.0	
75-71-8	Dichlorodifluoromethane	4.52		1.0	
60-29-7	Ethyl ether	4.66	J	10	
100-41-4	Ethylbenzene	4.76		1.0	
75-09-2	Methylene Chloride	5.14		1.0	
127-18-4	Tetrachloroethene	4.74		1.0	
109-99-9	Tetrahydrofuran	27.5		25	
108-88-3	Toluene	4.84		1.0	
79-01-6	Trichloroethene	4.75		1.0	
75-69-4	Trichlorofluoromethane	4.55		1.0	
75-01-4	Vinyl chloride	4.53		1.0	
1330-20-7	Xylenes, Total	14.4		3.0	
76-13-1	Freon 113	4.70		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2025 10:46:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-005
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:17:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	99	308013	5.00	4.52	
5 Chloromethane	50	1.939	1.945	-0.006	100	369701	5.00	4.57	
7 Butadiene	39	2.018	2.025	-0.007	94	413952	5.00	4.44	
6 Vinyl chloride	62	2.037	2.043	-0.006	99	324032	5.00	4.53	
9 Bromomethane	94	2.335	2.342	-0.007	92	230155	5.00	5.03	
10 Chloroethane	64	2.372	2.372	0.000	99	183360	5.00	4.52	
11 Dichlorofluoromethane	67	2.579	2.579	0.000	97	513694	5.00	4.39	
13 Pentane	43	2.640	2.646	-0.006	96	344493	5.00	4.38	
12 Trichlorofluoromethane	101	2.665	2.671	-0.006	97	411367	5.00	4.55	
14 Ethyl ether	59	2.823	2.823	0.000	93	200898	4.96	4.66	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.927	2.927	0.000	92	282031	5.00	4.46	
17 Acrolein	56	2.969	2.969	0.000	99	216323	36.6	41.6	
18 1,1-Dichloroethene	96	3.085	3.091	-0.006	99	227081	5.00	5.09	
20 Acetone	43	3.116	3.116	0.000	100	457775	62.5	67.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.134	3.140	-0.006	92	217486	5.00	4.70	
22 Iodomethane	142	3.256	3.256	0.000	98	435479	5.00	4.80	
24 Isopropyl alcohol	45	3.256	3.268	-0.012	32	43244	37.5	33.5	
25 Carbon disulfide	76	3.341	3.347	-0.006	99	780116	5.00	4.75	
26 Methyl acetate	43	3.475	3.475	0.000	96	107844	5.00	5.90	M
29 3-Chloro-1-propene	41	3.494	3.494	0.000	90	389301	5.00	4.64	
30 Methylene Chloride	84	3.652	3.658	-0.006	92	276552	5.00	5.14	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.671	-0.007	39	143504	50.0	50.0	
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	99	115579	50.0	54.2	
33 Acrylonitrile	53	3.957	3.957	0.000	98	271038	25.0	27.2	
34 Methyl tert-butyl ether	73	4.006	4.012	-0.006	83	663729	5.00	4.35	
35 trans-1,2-Dichloroethene	96	4.012	4.012	0.000	99	277549	5.00	5.05	
36 Hexane	57	4.414	4.414	0.000	94	314787	5.00	4.20	
37 1,1-Dichloroethane	63	4.652	4.652	0.000	96	502643	5.00	5.02	
39 Isopropyl ether	45	4.725	4.719	0.006	94	846715	5.00	4.57	
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	92	387318	5.00	4.38	
41 Tert-butyl ethyl ether	59	5.268	5.274	-0.006	97	771291	5.00	4.23	
42 2-Butanone (MEK)	43	5.475	5.481	-0.006	100	939547	62.5	72.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	5.506	5.512	-0.006	84	306124	5.00	4.83	
44 2,2-Dichloropropane	77	5.518	5.524	-0.006	86	392380	5.00	4.99	
45 Propionitrile	54	5.585	5.573	0.012	98	138512	37.5	39.4	
47 Methacrylonitrile	67	5.792	5.792	0.000	93	551857	37.5	43.7	
48 Chlorobromomethane	128	5.847	5.847	0.000	93	140011	5.00	4.95	
49 Tetrahydrofuran	71	5.853	5.853	0.000	79	101854	25.0	27.5	
50 Chloroform	83	6.005	6.012	-0.007	95	496073	5.00	4.88	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.231	-0.006	94	507352	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.225	6.231	-0.006	76	438911	5.00	4.93	
55 Cyclohexane	56	6.322	6.323	0.000	92	414792	5.00	4.38	
56 Carbon tetrachloride	117	6.438	6.438	0.000	96	383343	5.00	5.05	
57 1,1-Dichloropropene	75	6.451	6.451	0.000	95	364521	5.00	4.56	
58 Isobutyl alcohol	41	6.646	6.652	-0.006	89	116062	125.0	133.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	102959	10.0	10.1	
60 Benzene	78	6.713	6.719	-0.006	97	1153613	5.00	4.84	
61 1,2-Dichloroethane	62	6.792	6.792	0.000	98	305647	5.00	4.69	
64 Tert-amyl methyl ether	73	6.926	6.926	0.000	98	725318	5.00	4.45	
* 65 Fluorobenzene (IS)	96	7.133	7.139	-0.006	98	2095297	10.0	10.0	
66 n-Heptane	43	7.158	7.158	0.000	92	347093	5.00	4.70	
67 n-Butanol	56	7.578	7.566	0.012	90	195033	250.0	238.4	
68 Trichloroethene	95	7.627	7.627	0.000	98	299854	5.00	4.75	
69 Methylcyclohexane	83	7.938	7.938	0.000	92	433207	5.00	4.27	
70 1,2-Dichloropropane	63	7.962	7.969	-0.007	97	295326	5.00	4.84	
71 2-ethoxy-2-methyl butane	87	7.993	7.999	-0.006	93	426686	5.00	4.47	
74 1,4-Dioxane	88	8.078	8.078	0.000	30	28230	125.0	139.8	
72 Dibromomethane	93	8.078	8.078	0.000	93	147113	5.00	4.88	
73 Methyl methacrylate	69	8.078	8.078	0.000	91	136216	5.00	5.24	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	355650	5.00	4.79	
77 2-Nitropropane	41	8.621	8.621	0.000	98	38038	5.00	4.53	
78 1-Bromo-2-chloroethane	63	8.724	8.724	0.000	99	283863	5.00	4.75	
80 cis-1,3-Dichloropropene	75	8.907	8.901	0.006	96	397601	5.00	4.35	
82 4-Methyl-2-pentanone (MIBK)	43	9.109	9.115	-0.006	98	2382893	62.5	68.9	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	93	2084976	10.0	10.0	
84 Toluene	92	9.322	9.328	-0.006	98	745612	5.00	4.84	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	94	354937	5.00	4.56	
86 Ethyl methacrylate	69	9.706	9.706	0.000	90	279165	5.00	4.14	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	91	215976	5.00	4.89	
88 Tetrachloroethene	166	9.919	9.919	0.000	98	339216	5.00	4.74	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	357179	5.00	4.77	
106 2-Hexanone	43	10.084	10.084	0.000	97	1765035	62.5	71.4	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	264528	5.00	4.90	
110 Ethylene Dibromide	107	10.346	10.346	0.000	99	203621	5.00	4.76	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1586222	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	96	382966	5.00	4.43	
113 Chlorobenzene	112	10.834	10.834	0.000	95	850451	5.00	4.82	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.931	-0.006	96	304280	5.00	5.07	
115 Ethylbenzene	91	10.931	10.931	0.000	98	1458389	5.00	4.76	
116 m-Xylene & p-Xylene	106	11.053	11.059	-0.006	97	1149751	10.0	9.66	
118 o-Xylene	106	11.401	11.401	0.000	96	552256	5.00	4.70	
119 Styrene	104	11.419	11.419	0.000	95	958446	5.00	4.91	
120 Bromoform	173	11.571	11.571	0.000	97	155522	5.00	4.95	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	1472673	5.00	5.45	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	92	786664	10.0	10.0	
125 Bromobenzene	156	11.974	11.974	0.000	91	385848	5.00	4.74	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	87	270438	5.00	4.66	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	93	270950	25.0	19.5	
128 1,2,3-Trichloropropane	110	12.017	12.017	0.000	83	74120	5.00	4.66	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1761520	5.00	4.65	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	356720	5.00	4.58	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	93	1290419	5.00	4.71	
132 4-Chlorotoluene	126	12.224	12.224	0.000	97	374689	5.00	4.64	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	262658	5.00	4.18	
135 1,2,4-Trimethylbenzene	105	12.492	12.492	0.000	97	1323567	5.00	4.70	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1643125	5.00	4.70	
137 1,3-Dichlorobenzene	146	12.705	12.712	-0.007	98	758220	5.00	4.85	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	1415602	5.00	4.63	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	917706	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	96	774702	5.00	4.75	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	590416	5.00	4.64	
142 Benzyl chloride	126	12.870	12.870	0.000	98	104109	5.00	5.11	
145 p-Diethylbenzene	119	13.004	13.004	0.000	93	881725	5.00	4.77	
143 n-Butylbenzene	92	13.022	13.022	0.000	97	697678	5.00	4.74	
144 1,2-Dichlorobenzene	146	13.047	13.047	0.000	99	693228	5.00	4.86	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	87	34090	5.00	4.40	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	536331	5.00	4.90	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	95	406277	5.00	4.91	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	237664	5.00	5.14	
152 Naphthalene	128	14.345	14.345	0.000	97	629326	5.00	4.65	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	320441	5.00	5.00	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	197146	5.00	3.74	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00235	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00011	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

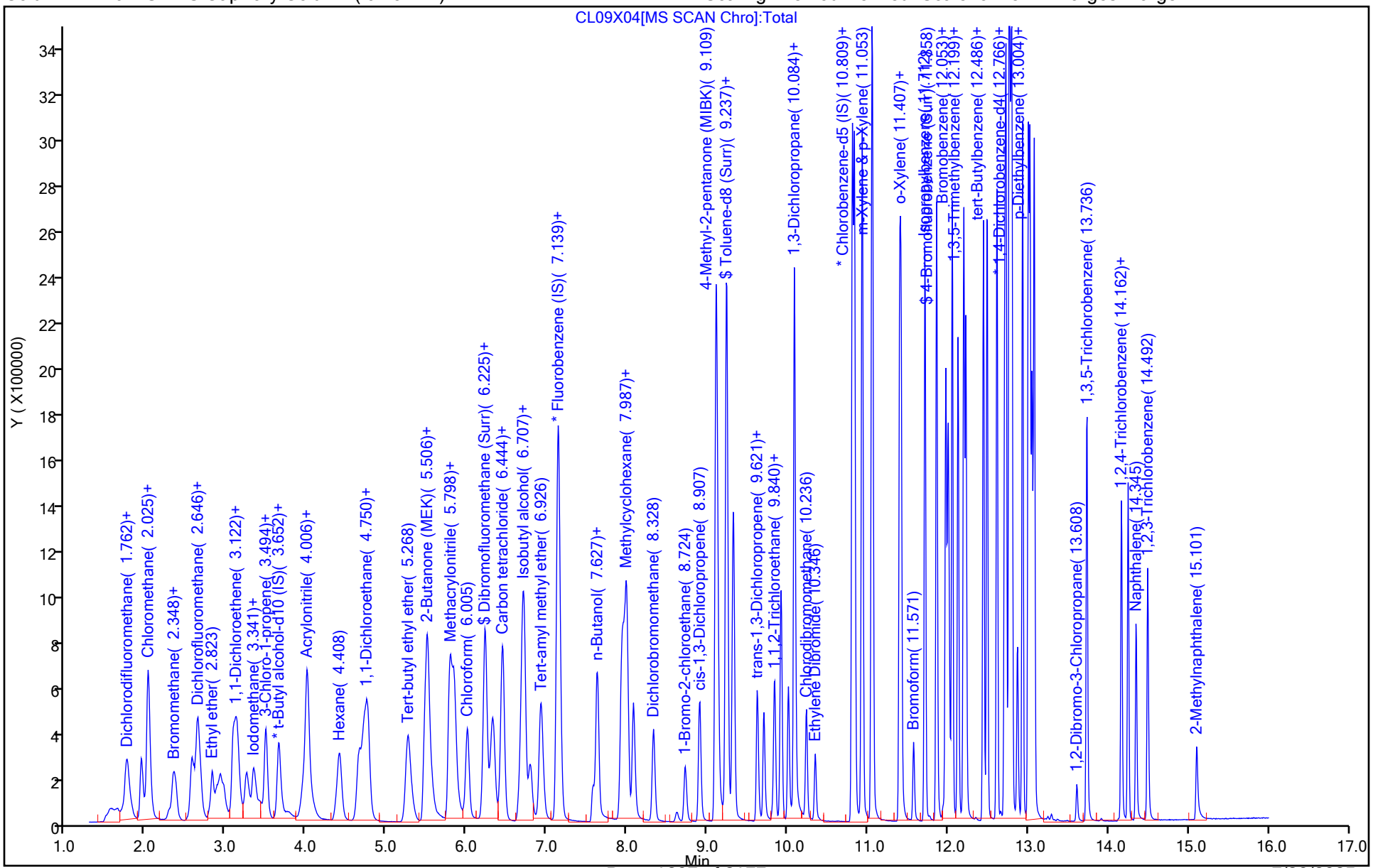
Report Date: 09-Jul-2025 16:30:25 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X04.D

Injection Date:	09-Jul-2025 10:46:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X04.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2025 10:46:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-005
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:17:14

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.3	102.61
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.1	100.90
$ 83 Toluene-d8 (Surr)	10.0	10.0	100.08
$ 124 4-Bromofluorobenzene (Surr)	10.0	10.0	99.99

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-668678/7

Matrix: Water
Lab File ID: CL09X06.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 11:31

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
115-10-6	Dimethyl ether	3.54	J	10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X06.D
Lims ID: LCS Sm
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2025 11:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-007
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:57:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.817	1.805	0.012	99	322453	5.00	3.54	
27 Acetonitrile	41	3.469	3.451	0.018	98	73706	18.8	20.2	
* 31 t-Butyl alcohol-d10 (IS)	65	3.670	3.671	-0.001	97	155715	50.0	50.0	
38 Vinyl acetate	43	4.652	4.640	0.012	97	854331	12.5	11.7	
46 Ethyl acetate	43	5.560	5.554	0.006	99	86659	2.50	2.46	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	491395	10.0	10.3	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	101744	10.0	10.3	
63 Isopropyl acetate	43	6.834	6.828	0.006	99	187564	2.50	2.37	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	99	2021691	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	99	36504	2.50	2.28	
$ 83 Toluene-d8 (Surr)	98	9.242	9.243	-0.001	93	1977754	10.0	9.59	
109 n-Butyl acetate	43	10.230	10.224	0.006	97	150443	2.50	2.12	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1570006	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	722358	10.0	9.28	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	834939	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_LCS_V5ACE_00054	Amount Added:	6.25	Units: uL	
MSV_DME_00072	Amount Added:	0.50	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

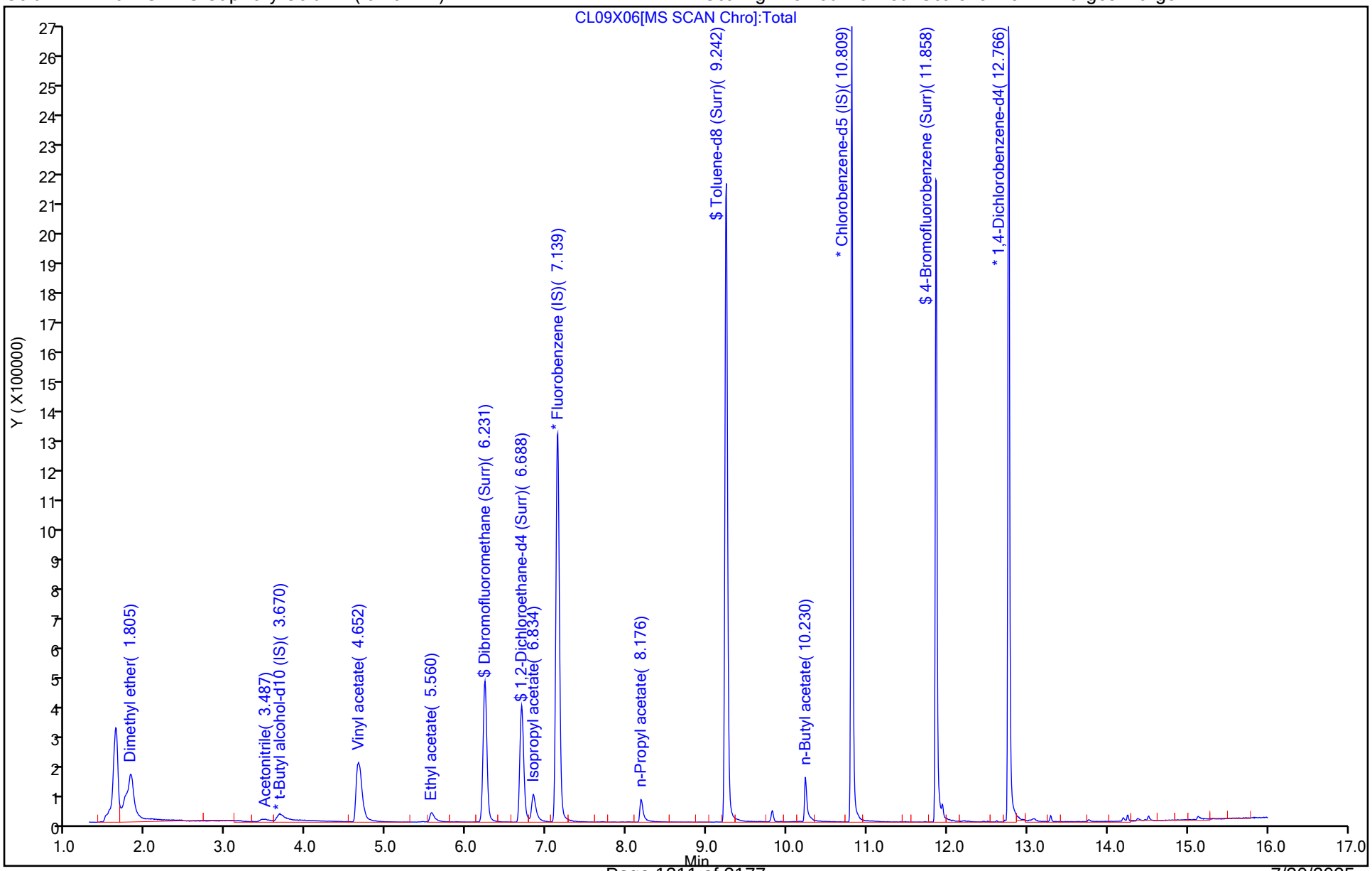
Report Date: 09-Jul-2025 16:31:02 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X06.D

Injection Date:	09-Jul-2025 11:31:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	LCS Sm			Worklist Smp#:	7
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X06.D
Lims ID: LCS Sm
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2025 11:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-007
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:57:13

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.3	103.00
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.34
$ 83 Toluene-d8 (Surr)	10.0	9.59	95.91
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.28	92.77

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-668678/6

Matrix: Water
Lab File ID: CL09X05.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 11:09

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-34-3	1,1-Dichloroethane	5.19		1.0	
75-35-4	1,1-Dichloroethene	5.25		1.0	
71-55-6	1,1,1-Trichloroethane	5.11		1.0	
78-93-3	2-Butanone	72.1		10	
71-43-2	Benzene	5.05		1.0	
56-23-5	Carbon tetrachloride	5.25		1.0	
75-00-3	Chloroethane	4.82		1.0	
74-87-3	Chloromethane	4.77		1.0	
75-71-8	Dichlorodifluoromethane	4.79		1.0	
60-29-7	Ethyl ether	4.88	J	10	
100-41-4	Ethylbenzene	4.92		1.0	
75-09-2	Methylene Chloride	5.37		1.0	
127-18-4	Tetrachloroethene	4.89		1.0	
109-99-9	Tetrahydrofuran	27.7		25	
108-88-3	Toluene	5.00		1.0	
79-01-6	Trichloroethene	4.92		1.0	
75-69-4	Trichlorofluoromethane	4.74		1.0	
75-01-4	Vinyl chloride	4.85		1.0	
1330-20-7	Xylenes, Total	14.9		3.0	
76-13-1	Freon 113	4.79		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2025 11:09:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-006
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:44:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.762	1.762	0.000	100	317466	5.00	4.79	
5 Chloromethane	50	1.945	1.945	0.000	100	374733	5.00	4.77	
7 Butadiene	39	2.025	2.025	0.000	93	441977	5.00	4.88	
6 Vinyl chloride	62	2.043	2.043	0.000	99	337163	5.00	4.85	
9 Bromomethane	94	2.342	2.342	0.000	91	233491	5.00	5.26	
10 Chloroethane	64	2.372	2.372	0.000	100	189986	5.00	4.82	
11 Dichlorofluoromethane	67	2.585	2.579	0.006	98	525402	5.00	4.62	
13 Pentane	43	2.646	2.646	0.000	96	351803	5.00	4.60	
12 Trichlorofluoromethane	101	2.671	2.671	0.000	99	416303	5.00	4.74	
14 Ethyl ether	59	2.829	2.823	0.006	93	204563	4.96	4.88	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.927	2.927	0.000	95	279960	5.00	4.56	
17 Acrolein	56	2.976	2.969	0.007	99	220398	36.6	41.8	
18 1,1-Dichloroethene	96	3.091	3.091	0.000	98	227657	5.00	5.25	
20 Acetone	43	3.122	3.116	0.006	99	459604	62.5	66.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	92	215792	5.00	4.79	
22 Iodomethane	142	3.256	3.256	0.000	99	443343	5.00	5.03	
24 Isopropyl alcohol	45	3.262	3.268	-0.006	32	55647	37.5	42.5	
25 Carbon disulfide	76	3.347	3.347	0.000	99	794012	5.00	4.97	
26 Methyl acetate	43	3.482	3.475	0.007	40	112299	5.00	6.06	M
29 3-Chloro-1-propene	41	3.494	3.494	0.000	90	395874	5.00	4.85	
30 Methylene Chloride	84	3.658	3.658	0.000	92	280867	5.00	5.37	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	94	145437	50.0	50.0	
32 2-Methyl-2-propanol	59	3.780	3.774	0.006	99	113594	50.0	52.6	
33 Acrylonitrile	53	3.957	3.957	0.000	98	274059	25.0	27.2	
34 Methyl tert-butyl ether	73	4.012	4.012	0.000	93	666421	5.00	4.50	
35 trans-1,2-Dichloroethene	96	4.012	4.012	0.000	99	275710	5.00	5.16	
36 Hexane	57	4.414	4.414	0.000	94	317836	5.00	4.37	
37 1,1-Dichloroethane	63	4.658	4.652	0.006	96	505279	5.00	5.19	
39 Isopropyl ether	45	4.725	4.719	0.006	95	852642	5.00	4.74	
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	92	393690	5.00	4.59	
41 Tert-butyl ethyl ether	59	5.268	5.274	-0.006	97	780706	5.00	4.41	
42 2-Butanone (MEK)	43	5.481	5.481	0.000	100	951805	62.5	72.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	5.512	5.512	0.000	84	307010	5.00	4.99	
44 2,2-Dichloropropane	77	5.518	5.524	-0.006	88	392341	5.00	5.13	
45 Propionitrile	54	5.591	5.573	0.018	98	151996	37.5	42.7	
47 Methacrylonitrile	67	5.792	5.792	0.000	92	561056	37.5	43.9	
48 Chlorobromomethane	128	5.847	5.847	0.000	93	140179	5.00	5.10	
49 Tetrahydrofuran	71	5.859	5.853	0.006	79	104080	25.0	27.7	
50 Chloroform	83	6.005	6.012	-0.007	95	503345	5.00	5.09	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	491522	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	89	442348	5.00	5.11	
55 Cyclohexane	56	6.322	6.323	0.000	91	418504	5.00	4.55	
56 Carbon tetrachloride	117	6.438	6.438	0.000	96	387123	5.00	5.25	
57 1,1-Dichloropropene	75	6.450	6.451	-0.001	96	370052	5.00	4.76	
58 Isobutyl alcohol	41	6.652	6.652	0.000	92	123091	125.0	139.8	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.694	-0.012	99	104811	10.0	10.6	
60 Benzene	78	6.719	6.719	0.000	97	1169140	5.00	5.05	
61 1,2-Dichloroethane	62	6.792	6.792	0.000	97	303278	5.00	4.79	
64 Tert-amyl methyl ether	73	6.926	6.926	0.000	98	729297	5.00	4.60	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	98	2036030	10.0	10.0	
66 n-Heptane	43	7.158	7.158	0.000	92	351288	5.00	4.90	
67 n-Butanol	56	7.572	7.566	0.006	90	213274	250.0	257.3	
68 Trichloroethene	95	7.627	7.627	0.000	99	301432	5.00	4.92	
69 Methylcyclohexane	83	7.938	7.938	0.000	92	438880	5.00	4.46	
70 1,2-Dichloropropane	63	7.968	7.969	-0.001	97	293490	5.00	4.95	
71 2-ethoxy-2-methyl butane	87	7.999	7.999	0.000	93	432022	5.00	4.65	
74 1,4-Dioxane	88	8.078	8.078	0.000	30	28015	125.0	136.9	M
72 Dibromomethane	93	8.078	8.078	0.000	94	142603	5.00	4.87	
73 Methyl methacrylate	69	8.078	8.078	0.000	91	134538	5.00	5.11	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	357849	5.00	4.96	
77 2-Nitropropane	41	8.621	8.621	0.000	99	38697	5.00	4.55	
78 1-Bromo-2-chloroethane	63	8.724	8.724	0.000	99	285673	5.00	4.92	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	399786	5.00	4.50	
82 4-Methyl-2-pentanone (MIBK)	43	9.109	9.115	-0.007	97	2434052	62.5	69.5	
$ 83 Toluene-d8 (Surr)	98	9.237	9.243	-0.006	93	2029237	10.0	9.92	
84 Toluene	92	9.322	9.328	-0.006	98	755822	5.00	5.00	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	94	355663	5.00	4.65	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	286341	5.00	4.32	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	92	213637	5.00	4.92	
88 Tetrachloroethene	166	9.919	9.919	0.000	99	343426	5.00	4.89	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	91	360380	5.00	4.90	
106 2-Hexanone	43	10.084	10.084	0.000	97	1793729	62.5	71.6	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	260045	5.00	4.91	
110 Ethylene Dibromide	107	10.346	10.346	0.000	99	209046	5.00	4.97	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	84	1557617	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	388457	5.00	4.58	
113 Chlorobenzene	112	10.834	10.834	0.000	95	865034	5.00	5.00	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.931	-0.006	96	309179	5.00	5.25	
115 Ethylbenzene	91	10.931	10.931	0.000	98	1480347	5.00	4.92	
116 m-Xylene & p-Xylene	106	11.053	11.059	-0.006	97	1169664	10.0	10.0	
118 o-Xylene	106	11.401	11.401	0.000	96	568400	5.00	4.93	
119 Styrene	104	11.419	11.419	0.000	95	967959	5.00	5.05	
120 Bromoform	173	11.571	11.571	0.000	97	153594	5.00	4.98	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	1499720	5.00	5.65	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	92	765531	10.0	9.91	
125 Bromobenzene	156	11.974	11.974	0.000	90	389326	5.00	4.95	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	70	267521	5.00	4.78	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	91	266804	25.0	19.9	
128 1,2,3-Trichloropropane	110	12.016	12.017	0.000	83	75084	5.00	4.89	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1780026	5.00	4.87	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	359731	5.00	4.79	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	1304028	5.00	4.93	
132 4-Chlorotoluene	126	12.224	12.224	0.000	97	385597	5.00	4.95	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	264588	5.00	4.36	
135 1,2,4-Trimethylbenzene	105	12.486	12.492	-0.006	98	1338552	5.00	4.93	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1653379	5.00	4.90	
137 1,3-Dichlorobenzene	146	12.711	12.712	-0.001	98	763269	5.00	5.06	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	1434497	5.00	4.86	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	885897	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	96	786999	5.00	5.00	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	594257	5.00	4.84	
142 Benzyl chloride	126	12.870	12.870	0.000	98	102954	5.00	5.24	
145 p-Diethylbenzene	119	13.004	13.004	0.000	94	888709	5.00	4.98	
143 n-Butylbenzene	92	13.022	13.022	0.000	98	700172	5.00	4.92	
144 1,2-Dichlorobenzene	146	13.047	13.047	0.000	99	697449	5.00	5.07	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	86	34783	5.00	4.65	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	539574	5.00	5.10	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	95	409816	5.00	5.13	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	243763	5.00	5.46	
152 Naphthalene	128	14.345	14.345	0.000	97	654987	5.00	5.02	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	326758	5.00	5.28	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	223418	5.00	4.30	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	12.50	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	12.50	Units: uL	
MSV_LCS_ACROL_00235	Amount Added:	12.50	Units: uL	
MSV_LCS_EE_00011	Amount Added:	12.50	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

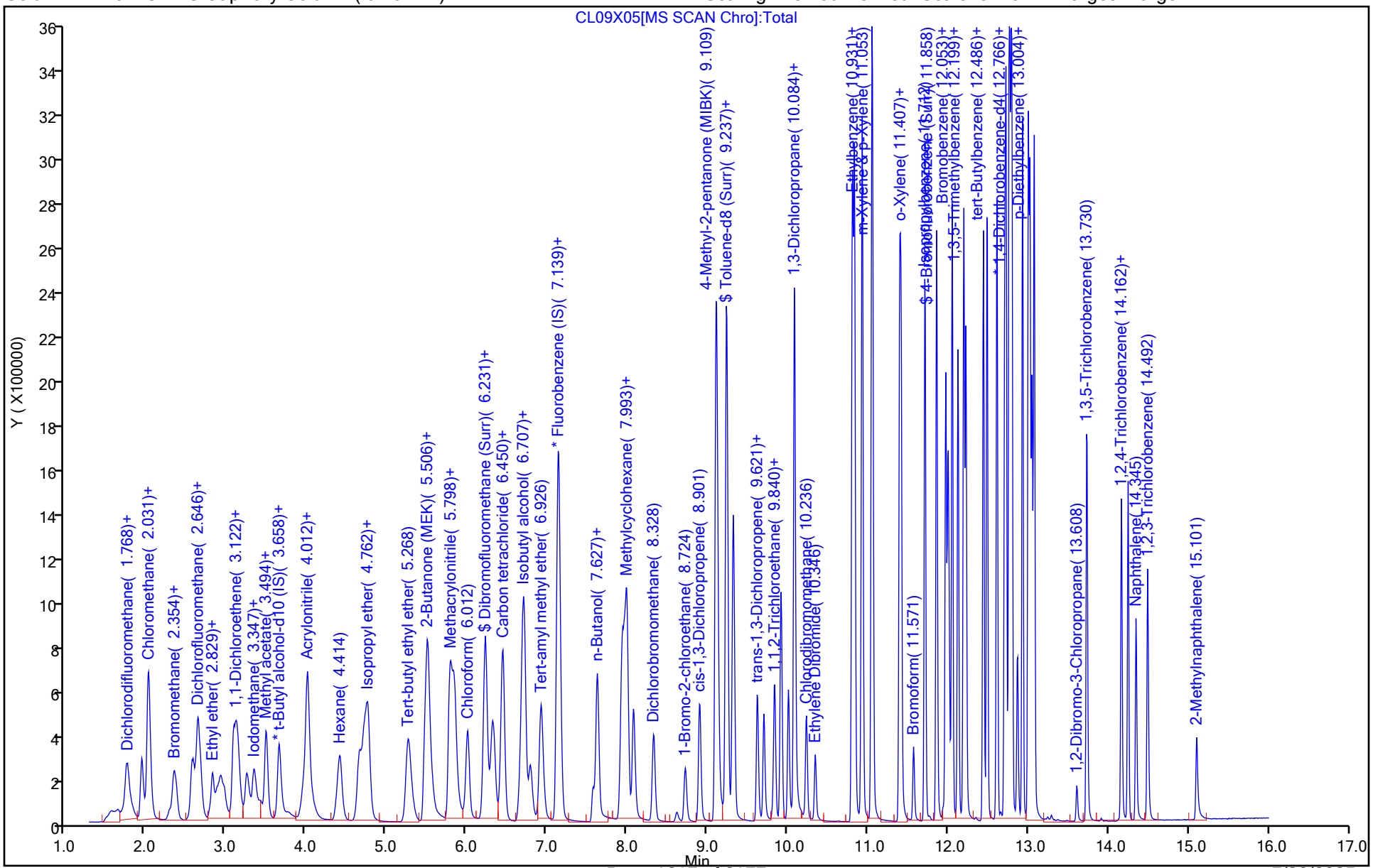
Report Date: 09-Jul-2025 16:30:43 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X05.D

Injection Date:	09-Jul-2025 11:09:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	LCSD			Worklist Smp#:	6
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X05.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2025 11:09:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-006
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 11:44:20

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.2	102.30
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.71
$ 83 Toluene-d8 (Surr)	10.0	9.92	99.19
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.91	99.09

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-668678/8

Matrix: Water
Lab File ID: CL09X07.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 11:53

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
115-10-6	Dimethyl ether	3.57	J	10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X07.D
Lims ID: LCSD Sm
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2025 11:53:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152846-008
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 16:30:22 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1724

First Level Reviewer: N7YK Date: 09-Jul-2025 12:30:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.817	1.805	0.012	99	318492	5.00	3.57	
27 Acetonitrile	41	3.457	3.451	0.006	93	64053	18.8	17.9	
* 31 t-Butyl alcohol-d10 (IS)	65	3.670	3.671	-0.001	96	142357	50.0	50.0	
38 Vinyl acetate	43	4.652	4.640	0.012	98	748607	12.5	10.5	
46 Ethyl acetate	43	5.560	5.554	0.006	99	87309	2.50	2.52	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	487005	10.0	10.4	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	102306	10.0	10.6	
63 Isopropyl acetate	43	6.828	6.828	0.000	99	183775	2.50	2.36	
* 65 Fluorobenzene (IS)	96	7.133	7.139	-0.006	99	1983439	10.0	10.0	
75 n-Propyl acetate	61	8.182	8.170	0.012	98	36641	2.50	2.33	
$ 83 Toluene-d8 (Surr)	98	9.242	9.243	-0.001	93	1939223	10.0	9.62	
109 n-Butyl acetate	43	10.230	10.224	0.006	97	144773	2.50	2.09	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1534434	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	704886	10.0	9.26	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	95	830674	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_LCS_V5ACE_00054	Amount Added:	6.25	Units: uL	
MSV_DME_00072	Amount Added:	0.50	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

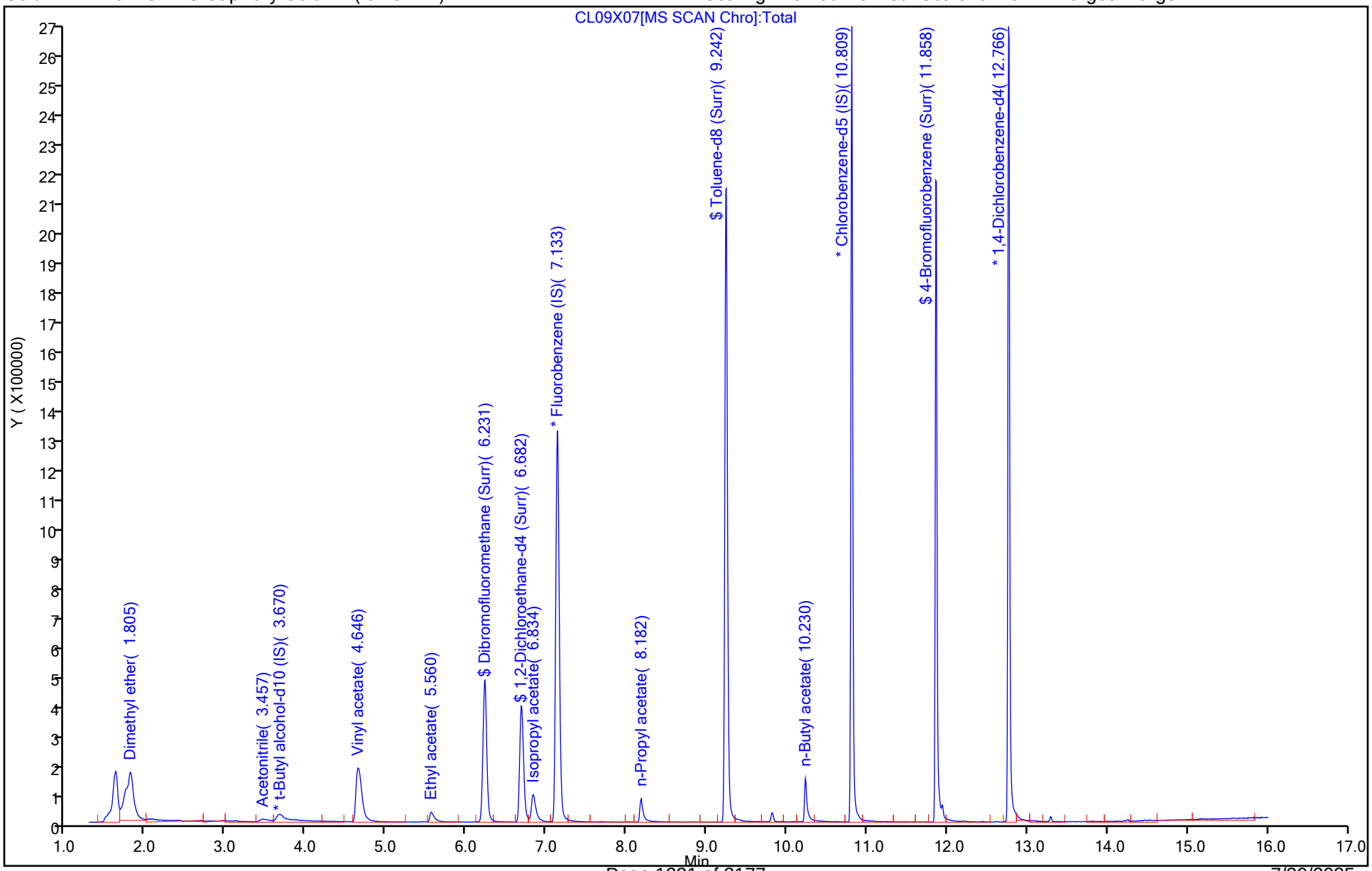
Report Date: 09-Jul-2025 16:31:06 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X07.D

Injection Date:	09-Jul-2025 11:53:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	LCSD Sm			Worklist Smp#:	8
Client ID:					
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X07.D				
Lims ID:	LCSD Sm				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	09-Jul-2025 11:53:30	ALS Bottle#:	7	Worklist Smp#:	8
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152846-008				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 16:30:22	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1724				

First Level Reviewer: N7YK Date: 09-Jul-2025 12:30:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.4	104.05
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.92
$ 83 Toluene-d8 (Surr)	10.0	9.62	96.22
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.26	92.62

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MS Lab Sample ID: 410-229895-4 MS

Matrix: Water Lab File ID: CL08X18.D

Analysis Method: 8260D Date Collected: 06/26/2025 09:45

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 16:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	5.30		1.0	
78-93-3	2-Butanone	73.4		10	
56-23-5	Carbon tetrachloride	5.53		1.0	
75-00-3	Chloroethane	6.43		1.0	
74-87-3	Chloromethane	5.40		1.0	
75-71-8	Dichlorodifluoromethane	6.31		1.0	
75-34-3	1,1-Dichloroethane	7.15		1.0	
75-35-4	1,1-Dichloroethene	5.71		1.0	
100-41-4	Ethylbenzene	4.94		1.0	
60-29-7	Ethyl ether	19.9		10	
75-09-2	Methylene Chloride	5.39		1.0	
127-18-4	Tetrachloroethene	5.16		1.0	
109-99-9	Tetrahydrofuran	30.7		25	
108-88-3	Toluene	5.09		1.0	
71-55-6	1,1,1-Trichloroethane	5.33		1.0	
79-01-6	Trichloroethene	5.16		1.0	
75-69-4	Trichlorofluoromethane	5.81		1.0	
75-01-4	Vinyl chloride	5.71		1.0	
1330-20-7	Xylenes, Total	15.1		3.0	
76-13-1	Freon 113	5.55		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X18.D
Lims ID: 410-229895-A-4 MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 08-Jul-2025 16:05:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-019
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:10:12 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:10:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.750	1.750	0.000	100	417524	5.00	6.31	
5 Chloromethane	50	1.939	1.933	0.006	100	424470	5.00	5.40	
7 Butadiene	39	2.012	2.012	0.000	94	540463	5.00	5.98	
6 Vinyl chloride	62	2.037	2.031	0.006	98	396578	5.00	5.71	
9 Bromomethane	94	2.335	2.329	0.006	91	265604	5.00	5.99	
10 Chloroethane	64	2.366	2.360	0.006	100	253029	5.00	6.43	
11 Dichlorofluoromethane	67	2.579	2.573	0.006	98	607840	5.00	5.35	
13 Pentane	43	2.640	2.634	0.006	96	414324	5.00	5.43	
12 Trichlorofluoromethane	101	2.659	2.658	0.001	99	510503	5.00	5.81	
14 Ethyl ether	59	2.817	2.817	0.000	94	833843	4.97	19.9	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.915	0.007	92	322296	5.00	5.25	
17 Acrolein	56	2.963	2.963	0.000	99	200092	36.6	39.1	
18 1,1-Dichloroethene	96	3.085	3.079	0.006	98	247310	5.00	5.71	
20 Acetone	43	3.110	3.110	0.000	100	456273	62.6	68.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.134	3.134	0.000	93	249762	5.00	5.55	
22 Iodomethane	142	3.250	3.244	0.006	99	449625	5.00	5.11	
24 Isopropyl alcohol	45	3.262	3.262	0.000	95	35726	37.5	28.1	
25 Carbon disulfide	76	3.341	3.335	0.006	99	850500	5.00	5.33	M
26 Methyl acetate	43	3.463	3.469	-0.006	98	117447	5.00	6.52	
29 3-Chloro-1-propene	41	3.488	3.481	0.007	91	394089	5.00	4.84	
30 Methylene Chloride	84	3.652	3.646	0.006	92	281383	5.00	5.39	
* 31 t-Butyl alcohol-d10 (IS)	65	3.664	3.664	0.000	94	141325	50.0	50.0	
32 2-Methyl-2-propanol	59	3.774	3.768	0.006	98	107528	50.0	51.2	
33 Acrylonitrile	53	3.951	3.945	0.006	98	272457	25.0	27.8	
34 Methyl tert-butyl ether	73	4.000	4.000	0.000	89	648523	5.00	4.38	
35 trans-1,2-Dichloroethene	96	4.006	4.000	0.006	99	288135	5.00	5.40	
36 Hexane	57	4.408	4.402	0.006	95	362345	5.00	4.98	
37 1,1-Dichloroethane	63	4.646	4.646	0.000	97	695070	5.00	7.15	
39 Isopropyl ether	45	4.713	4.713	0.000	94	831275	5.00	4.62	
40 2-Chloro-1,3-butadiene	53	4.762	4.756	0.006	92	405302	5.00	4.73	
41 Tert-butyl ethyl ether	59	5.262	5.262	0.000	97	746747	5.00	4.22	
42 2-Butanone (MEK)	43	5.475	5.475	0.000	100	942368	62.6	73.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	5.506	5.505	0.001	83	415595	5.00	6.76	
44 2,2-Dichloropropane	77	5.518	5.512	0.006	87	418045	5.00	5.48	
45 Propionitrile	54	5.573	5.573	0.000	99	147675	37.5	42.6	
47 Methacrylonitrile	67	5.792	5.786	0.006	92	549243	37.5	44.2	
48 Chlorobromomethane	128	5.841	5.835	0.006	93	138456	5.00	5.04	
49 Tetrahydrofuran	71	5.841	5.841	0.000	75	111931	25.0	30.7	
50 Chloroform	83	6.005	5.999	0.006	95	515409	5.00	5.22	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	494901	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.225	6.225	0.000	98	460837	5.00	5.33	
55 Cyclohexane	56	6.322	6.322	0.000	91	454874	5.00	4.95	
56 Carbon tetrachloride	117	6.438	6.438	0.000	97	407670	5.00	5.53	
57 1,1-Dichloropropene	75	6.444	6.444	0.000	96	381866	5.00	4.92	
58 Isobutyl alcohol	41	6.652	6.645	0.007	89	116855	125.1	136.6	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.682	6.682	0.000	99	104172	10.0	10.5	
60 Benzene	78	6.713	6.713	0.000	97	1226018	5.00	5.30	
61 1,2-Dichloroethane	62	6.786	6.792	-0.006	98	318038	5.00	5.03	
64 Tert-amyl methyl ether	73	6.920	6.920	0.000	98	703759	5.00	4.45	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	98	2033957	10.0	10.0	
66 n-Heptane	43	7.158	7.151	0.007	92	398051	5.00	5.56	
67 n-Butanol	56	7.572	7.566	0.006	93	186433	250.2	231.4	
68 Trichloroethene	95	7.627	7.627	0.000	99	316040	5.00	5.16	
69 Methylcyclohexane	83	7.932	7.932	0.000	92	485711	5.00	4.94	
70 1,2-Dichloropropane	63	7.962	7.968	-0.006	97	301524	5.00	5.09	
71 2-ethoxy-2-methyl butane	87	7.993	7.993	0.000	93	420434	5.00	4.53	
74 1,4-Dioxane	88	8.072	8.072	0.000	28	26015	125.1	130.8	M
72 Dibromomethane	93	8.078	8.078	0.000	93	146600	5.00	5.01	
73 Methyl methacrylate	69	8.078	8.078	0.000	90	124243	5.00	4.85	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	360997	5.00	5.00	
77 2-Nitropropane	41	8.615	8.615	0.000	97	38306	5.00	4.63	
78 1-Bromo-2-chloroethane	63	8.718	8.718	0.000	99	300464	5.00	5.18	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	387565	5.00	4.36	
82 4-Methyl-2-pentanone (MIBK)	43	9.108	9.108	0.000	97	2366944	62.6	69.5	
$ 83 Toluene-d8 (Surr)	98	9.237	9.243	-0.006	93	2031590	10.0	9.93	
84 Toluene	92	9.322	9.322	0.000	98	769808	5.00	5.09	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	93	347741	5.00	4.55	
86 Ethyl methacrylate	69	9.706	9.700	0.006	90	273147	5.00	4.12	
87 1,1,2-Trichloroethane	97	9.834	9.840	-0.006	92	209461	5.00	4.83	
88 Tetrachloroethene	166	9.919	9.919	0.000	99	362124	5.00	5.16	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	352043	5.00	4.79	
106 2-Hexanone	43	10.084	10.084	0.000	97	1696029	62.6	69.6	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	257283	5.00	4.86	
110 Ethylene Dibromide	107	10.346	10.346	0.000	98	205676	5.00	4.89	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	84	1557121	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	399186	5.00	4.70	
113 Chlorobenzene	112	10.834	10.834	0.000	95	871995	5.00	5.04	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.925	0.000	96	308384	5.00	5.24	
115 Ethylbenzene	91	10.931	10.931	0.000	98	1485208	5.00	4.94	
116 m-Xylene & p-Xylene	106	11.053	11.053	0.000	97	1187925	10.0	10.2	
118 o-Xylene	106	11.401	11.401	0.000	96	562409	5.00	4.88	
119 Styrene	104	11.413	11.413	0.000	95	969035	5.00	5.06	
120 Bromoform	173	11.571	11.571	0.000	97	150089	5.00	4.87	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	1484667	5.00	5.59	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	766187	10.0	9.92	
125 Bromobenzene	156	11.974	11.974	0.000	90	392126	5.00	4.93	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	74	268424	5.00	4.75	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	92	264178	25.0	19.5	
128 1,2,3-Trichloropropane	110	12.016	12.016	0.000	82	72210	5.00	4.66	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1792267	5.00	4.85	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	362942	5.00	4.78	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	93	1293862	5.00	4.84	
132 4-Chlorotoluene	126	12.224	12.224	0.000	97	385019	5.00	4.89	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	263201	5.00	4.29	
135 1,2,4-Trimethylbenzene	105	12.486	12.492	-0.006	98	1314371	5.00	4.79	
136 sec-Butylbenzene	105	12.614	12.614	0.000	95	1644582	5.00	4.82	
137 1,3-Dichlorobenzene	146	12.705	12.711	-0.006	99	755093	5.00	4.95	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	1425766	5.00	4.78	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	895276	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	95	783365	5.00	4.92	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	579446	5.00	4.67	
142 Benzyl chloride	126	12.870	12.870	0.000	98	104514	5.00	5.26	
145 p-Diethylbenzene	119	13.004	13.004	0.000	94	884177	5.00	4.90	
143 n-Butylbenzene	92	13.022	13.022	0.000	98	703937	5.00	4.90	
144 1,2-Dichlorobenzene	146	13.053	13.053	0.000	99	692877	5.00	4.98	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	86	33455	5.00	4.43	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	523012	5.00	4.90	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	95	389746	5.00	4.83	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	240972	5.00	5.34	
152 Naphthalene	128	14.345	14.345	0.000	97	602596	5.00	4.57	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	305252	5.00	4.88	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	166684	5.00	3.31	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00235	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00011	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

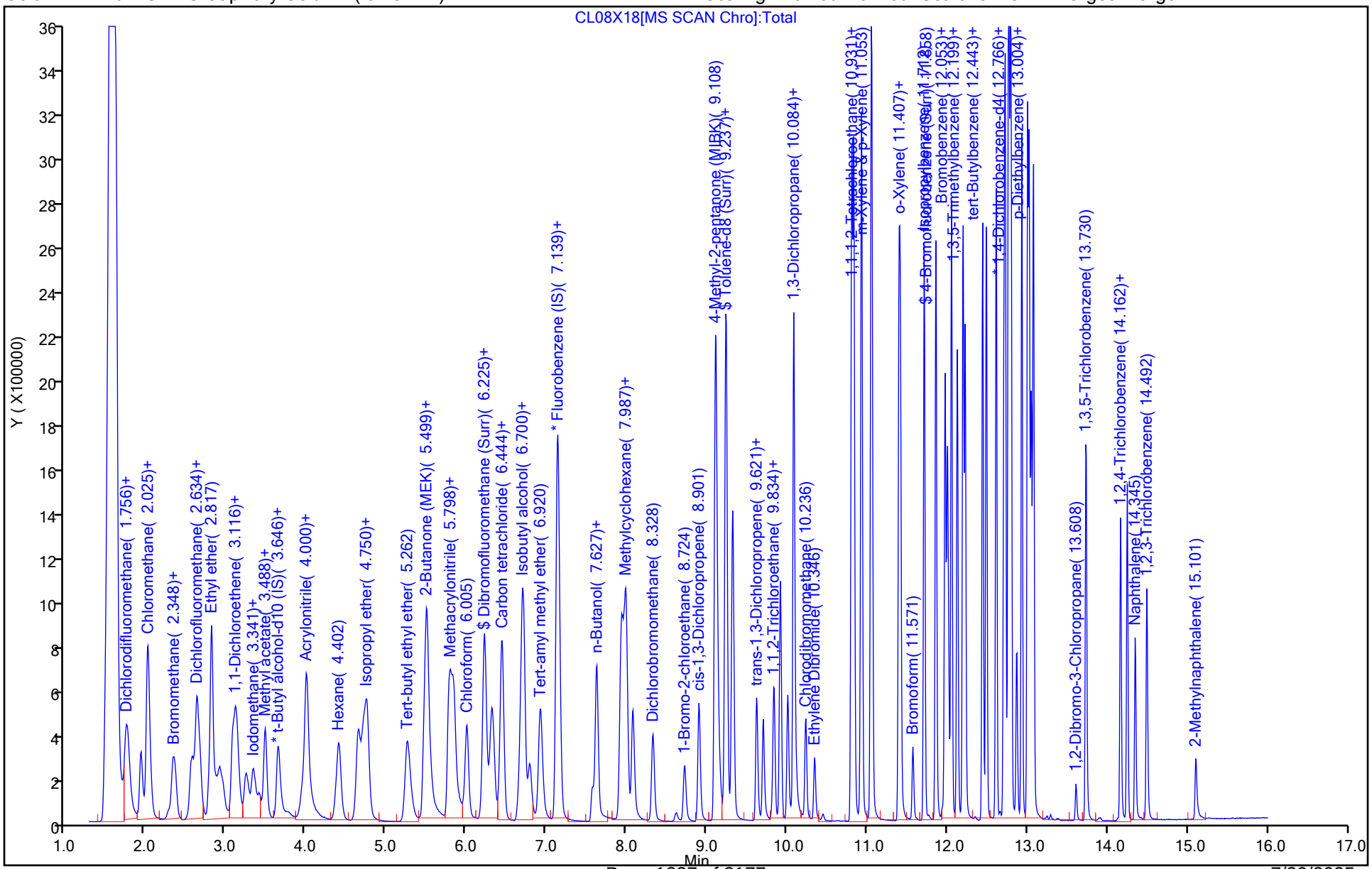
Report Date: 09-Jul-2025 09:10:13 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X18.D

Injection Date:	08-Jul-2025 16:05:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-4 MS			Worklist Smp#:	19
Client ID:	16WC1A				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X18.D				
Lims ID:	410-229895-A-4 MS				
Client ID:	16WC1A				
Sample Type:	MS				
Inject. Date:	08-Jul-2025 16:05:30	ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-019				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:10:12	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:10:12

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.3	103.11
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.17
$ 83 Toluene-d8 (Surr)	10.0	9.93	99.34
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.92	99.21

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MS
Lab Sample ID: 410-229895-4 MS

Matrix: Water
Lab File ID: CL08X20.D

Analysis Method: 8260D
Date Collected: 06/26/2025 09:45

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 16:50

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
115-10-6	Dimethyl ether	ND		10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X20.D
Lims ID: 410-229895-B-4 MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 08-Jul-2025 16:50:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-021
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:12:13 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:12:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.817	1.805	0.012	100	498773	4.65	5.60	
27 Acetonitrile	41	3.469	3.451	0.018	98	61848	18.8	17.3	
* 31 t-Butyl alcohol-d10 (IS)	65	3.683	3.664	0.019	97	151170	50.0	50.0	
38 Vinyl acetate	43	4.658	4.640	0.018	98	950065	12.5	13.3	
46 Ethyl acetate	43	5.567	5.554	0.013	97	76119	2.50	2.21	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.225	0.006	93	488242	10.0	10.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	99	101733	10.0	10.6	
63 Isopropyl acetate	43	6.835	6.828	0.007	99	159823	2.50	2.06	
* 65 Fluorobenzene (IS)	96	7.139	7.133	0.006	99	1977574	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	98	29740	2.50	1.90	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	94	1944391	10.0	9.68	
109 n-Butyl acetate	43	10.230	10.224	0.006	98	120154	2.50	1.74	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1530080	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	704986	10.0	9.29	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	821650	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_LCS_V5ACE_00054	Amount Added:	2.69	Units: uL	
MSV_DME_00072	Amount Added:	0.20	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

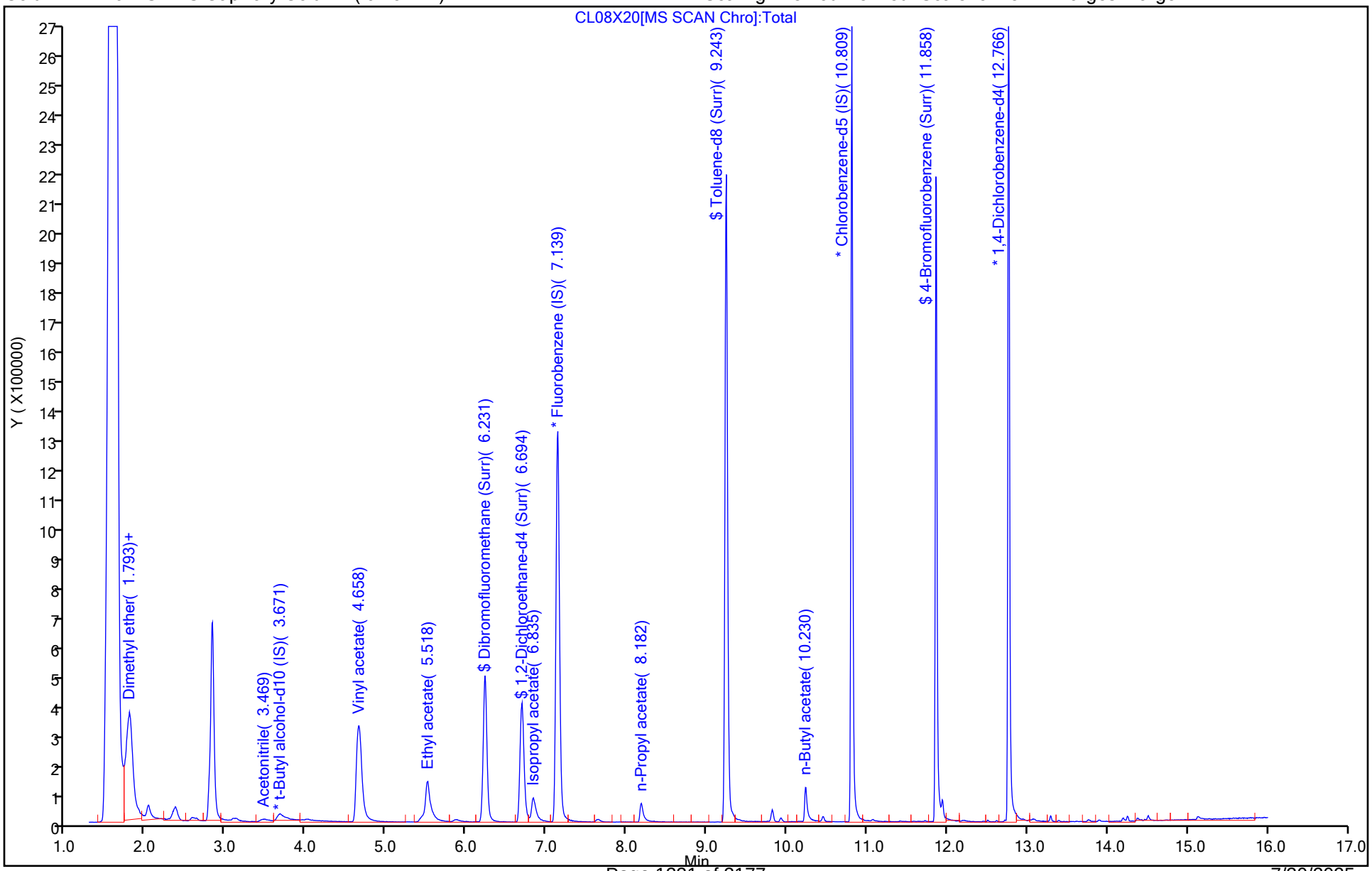
Report Date: 09-Jul-2025 09:12:44 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X20.D

Injection Date:	08-Jul-2025 16:50:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-B-4 MS			Worklist Smp#:	21
Client ID:	16WC1A				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X20.D				
Lims ID:	410-229895-B-4 MS				
Client ID:	16WC1A				
Sample Type:	MS				
Inject. Date:	08-Jul-2025 16:50:30	ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-021				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:12:13	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:12:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.5	104.62
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.6	105.64
$ 83 Toluene-d8 (Surr)	10.0	9.68	96.75
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.29	92.90

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: Lab Sample ID: 410-229825-B-1 MS

Matrix: Water Lab File ID: CL09X22.D

Analysis Method: 8260D Date Collected:

Sample wt/vol: 25(mL) Date Analyzed: 07/09/2025 17:28

Soil Aliquot Vol: Dilution Factor: 100

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668678 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-34-3	1,1-Dichloroethane	585		100	
75-35-4	1,1-Dichloroethene	625		100	
71-55-6	1,1,1-Trichloroethane	593		100	
78-93-3	2-Butanone	7740		1000	
71-43-2	Benzene	569		100	
56-23-5	Carbon tetrachloride	619		100	
75-00-3	Chloroethane	511		100	
74-87-3	Chloromethane	530		100	
75-71-8	Dichlorodifluoromethane	592		100	
60-29-7	Ethyl ether	ND		1000	
100-41-4	Ethylbenzene	560		100	
75-09-2	Methylene Chloride	589		100	
127-18-4	Tetrachloroethene	571		100	
109-99-9	Tetrahydrofuran	3010		2500	
108-88-3	Toluene	576		100	
79-01-6	Trichloroethene	32700		100	
75-69-4	Trichlorofluoromethane	550		100	
75-01-4	Vinyl chloride	538		100	
1330-20-7	Xylenes, Total	1690		300	
76-13-1	Freon 113	625		100	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X22.D
Lims ID: 410-229825-B-1 MS
Client ID: MS-P-7S-R-20250626
Sample Type: MS
Inject. Date: 09-Jul-2025 17:28:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 100.0000
Sample Info: 410-0152846-023
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:29:55 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:29:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	100	359090	5.00	5.92	
5 Chloromethane	50	1.939	1.945	-0.006	100	381903	5.00	5.30	
7 Butadiene	39	2.024	2.025	-0.001	93	539577	5.00	6.51	
6 Vinyl chloride	62	2.043	2.043	0.000	99	342110	5.00	5.38	
9 Bromomethane	94	2.342	2.342	0.000	91	224782	5.00	5.53	
10 Chloroethane	64	2.372	2.372	0.000	99	184323	5.00	5.11	
11 Dichlorofluoromethane	67	2.579	2.579	0.000	98	512205	5.00	4.92	
13 Pentane	43	2.640	2.646	-0.006	96	413177	5.00	5.90	
12 Trichlorofluoromethane	101	2.665	2.671	-0.006	100	442528	5.00	5.50	
14 Ethyl ether	59	2.823	2.823	0.000	94	183868	4.97	4.79	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.927	-0.006	93	284324	5.00	5.05	
18 1,1-Dichloroethene	96	3.091	3.091	0.000	99	248114	5.00	6.25	
20 Acetone	43	3.116	3.116	0.000	90	406554	62.6	71.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	92	257610	5.00	6.25	
22 Iodomethane	142	3.256	3.256	0.000	99	449444	5.00	5.57	
24 Isopropyl alcohol	45	3.268	3.268	0.000	40	50341	37.5	46.5	
25 Carbon disulfide	76	3.341	3.347	-0.006	99	839969	5.00	5.75	M
26 Methyl acetate	43	3.482	3.475	0.007	95	103002	5.00	6.72	
29 3-Chloro-1-propene	41	3.494	3.494	0.000	91	392072	5.00	5.25	
30 Methylene Chloride	84	3.658	3.658	0.000	92	281941	5.00	5.89	
* 31 t-Butyl alcohol-d10 (IS)	65	3.671	3.671	0.000	47	120396	50.0	50.0	
32 2-Methyl-2-propanol	59	3.780	3.774	0.006	99	99666	50.0	55.7	
33 Acrylonitrile	53	3.963	3.957	0.006	99	246579	25.0	29.5	
34 Methyl tert-butyl ether	73	4.006	4.012	-0.006	79	624995	5.00	4.61	
35 trans-1,2-Dichloroethene	96	4.006	4.012	-0.006	99	287070	5.00	5.87	
36 Hexane	57	4.414	4.414	0.000	94	378977	5.00	5.69	
37 1,1-Dichloroethane	63	4.652	4.652	0.000	97	521048	5.00	5.85	
39 Isopropyl ether	45	4.719	4.719	0.000	94	823347	5.00	5.00	
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	91	415535	5.00	5.29	
41 Tert-butyl ethyl ether	59	5.268	5.274	-0.006	96	734645	5.00	4.53	
42 2-Butanone (MEK)	43	5.481	5.481	0.000	100	845777	62.6	77.4	
43 cis-1,2-Dichloroethene	96	5.512	5.512	0.000	82	324712	5.00	5.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.524	5.524	0.000	70	408323	5.00	5.83	
45 Propionitrile	54	5.585	5.573	0.012	97	150298	37.5	51.0	
47 Methacrylonitrile	67	5.792	5.792	0.000	92	520383	37.5	49.1	
48 Chlorobromomethane	128	5.847	5.847	0.000	93	141037	5.00	5.60	
49 Tetrahydrofuran	71	5.853	5.853	0.000	66	93681	25.0	30.1	
50 Chloroform	83	6.005	6.012	-0.007	95	519875	5.00	5.75	
$ 54 Dibromofluoromethane (Surr)	113	6.231	6.231	0.000	94	449264	10.0	10.2	
53 1,1,1-Trichloroethane	97	6.231	6.231	0.000	84	470370	5.00	5.93	
55 Cyclohexane	56	6.322	6.323	0.000	91	487303	5.00	5.78	
56 Carbon tetrachloride	117	6.438	6.438	0.000	97	418345	5.00	6.19	
57 1,1-Dichloropropene	75	6.450	6.451	-0.001	96	392458	5.00	5.52	
58 Isobutyl alcohol	41	6.658	6.652	0.006	92	103632	125.1	142.2	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	90519	10.0	9.97	
60 Benzene	78	6.713	6.719	-0.006	97	1206647	5.00	5.69	
61 1,2-Dichloroethane	62	6.792	6.792	0.000	98	1591882	5.00	27.4	E
64 Tert-amyl methyl ether	73	6.926	6.926	0.000	98	701951	5.00	4.84	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	98	1864455	10.0	10.0	
66 n-Heptane	43	7.158	7.158	0.000	86	414859	5.00	6.32	
67 n-Butanol	56	7.572	7.566	0.006	89	190777	250.2	278.0	
68 Trichloroethene	95	7.627	7.627	0.000	98	18324672	5.00	326.5	E
69 Methylcyclohexane	83	7.932	7.938	-0.006	92	535070	5.00	5.93	
70 1,2-Dichloropropane	63	7.968	7.969	-0.001	97	310543	5.00	5.72	
71 2-ethoxy-2-methyl butane	87	7.993	7.999	-0.006	93	431978	5.00	5.08	
74 1,4-Dioxane	88	8.072	8.078	-0.006	30	22683	125.1	133.9	M
72 Dibromomethane	93	8.078	8.078	0.000	93	148560	5.00	5.54	
73 Methyl methacrylate	69	8.078	8.078	0.000	92	133868	5.00	6.14	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	363605	5.00	5.50	
77 2-Nitropropane	41	8.621	8.621	0.000	98	34974	5.00	4.97	
78 1-Bromo-2-chloroethane	63	8.718	8.724	-0.006	99	267110	5.00	5.03	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	392152	5.00	4.82	
82 4-Methyl-2-pentanone (MIBK)	43	9.108	9.115	-0.007	97	2289477	62.6	79.0	
$ 83 Toluene-d8 (Surr)	98	9.243	9.243	0.000	93	1881915	10.0	10.1	
84 Toluene	92	9.322	9.328	-0.006	98	795649	5.00	5.76	
85 trans-1,3-Dichloropropene	75	9.621	9.621	0.000	94	345366	5.00	4.94	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	270517	5.00	4.47	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	92	220896	5.00	5.58	
88 Tetrachloroethene	166	9.919	9.919	0.000	99	365907	5.00	5.71	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	353161	5.00	5.26	
106 2-Hexanone	43	10.084	10.084	0.000	97	1696073	62.6	81.7	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	254379	5.00	5.26	
110 Ethylene Dibromide	107	10.346	10.346	0.000	99	202315	5.00	5.27	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1421952	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	415850	5.00	5.37	
113 Chlorobenzene	112	10.834	10.834	0.000	96	882449	5.00	5.58	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.931	-0.006	96	312622	5.00	5.81	
115 Ethylbenzene	91	10.931	10.931	0.000	98	1537314	5.00	5.60	
116 m-Xylene & p-Xylene	106	11.053	11.059	-0.006	97	1220738	10.0	11.4	
118 o-Xylene	106	11.401	11.401	0.000	96	579237	5.00	5.50	
119 Styrene	104	11.413	11.419	-0.006	95	986863	5.00	5.64	
120 Bromoform	173	11.571	11.571	0.000	97	141359	5.00	5.02	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	1550447	5.00	6.40	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	699334	10.0	9.92	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
125 Bromobenzene	156	11.974	11.974	0.000	90	394286	5.00	5.46	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	69	260700	5.00	5.07	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	91	222812	25.0	18.1	
128 1,2,3-Trichloropropane	110	12.016	12.017	0.000	84	71784	5.00	5.09	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1860773	5.00	5.54	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	376033	5.00	5.45	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	1367104	5.00	5.62	
132 4-Chlorotoluene	126	12.224	12.224	0.000	97	394769	5.00	5.51	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	272084	5.00	4.88	
135 1,2,4-Trimethylbenzene	105	12.486	12.492	-0.006	98	1407716	5.00	5.64	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1733691	5.00	5.59	
137 1,3-Dichlorobenzene	146	12.705	12.712	-0.007	98	775788	5.00	5.60	
138 4-Isopropyltoluene	119	12.724	12.724	0.000	97	1508688	5.00	5.56	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	814323	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.785	12.785	0.000	95	795727	5.00	5.50	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	98	618853	5.00	5.48	
142 Benzyl chloride	126	12.870	12.870	0.000	99	96320	5.00	5.33	
145 p-Diethylbenzene	119	13.004	13.004	0.000	93	940075	5.00	5.73	
143 n-Butylbenzene	92	13.022	13.022	0.000	98	742360	5.00	5.68	
144 1,2-Dichlorobenzene	146	13.047	13.047	0.000	99	707439	5.00	5.59	
148 1,2-Dibromo-3-Chloropropane	155	13.608	13.608	0.000	88	32432	5.00	4.72	
149 1,3,5-Trichlorobenzene	180	13.736	13.736	0.000	98	550167	5.00	5.66	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	94	415039	5.00	5.65	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	258811	5.00	6.31	
152 Naphthalene	128	14.345	14.345	0.000	96	626584	5.00	5.22	
153 1,2,3-Trichlorobenzene	180	14.492	14.492	0.000	96	331435	5.00	5.83	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	195580	5.00	4.12	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00011	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

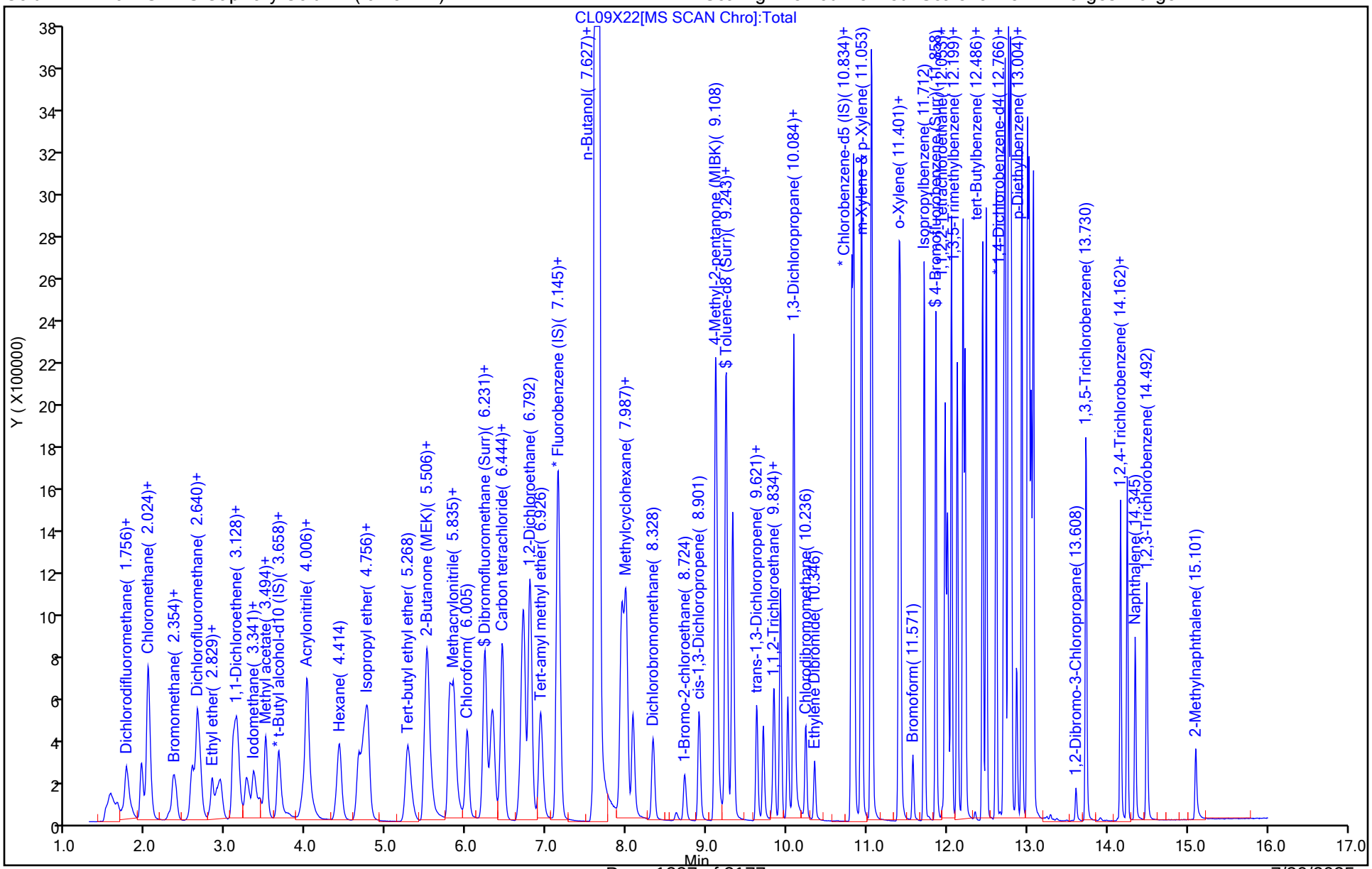
Report Date: 10-Jul-2025 12:29:55 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X22.D

Injection Date:	09-Jul-2025 17:28:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229825-B-1 MS			Worklist Smp#:	23
Client ID:	MS-P-7S-R-20250626				
Purge Vol:	25.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	22
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X22.D
Lims ID: 410-229825-B-1 MS
Client ID: MS-P-7S-R-20250626
Sample Type: MS
Inject. Date: 09-Jul-2025 17:28:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 25.000 mL Dil. Factor: 100.0000
Sample Info: 410-0152846-023
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:29:55 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:29:55

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.2	102.11
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	9.97	99.70
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.77
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.92	99.16

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MSD Lab Sample ID: 410-229895-4 MSD

Matrix: Water Lab File ID: CL08X19.D

Analysis Method: 8260D Date Collected: 06/26/2025 09:45

Sample wt/vol: 25(mL) Date Analyzed: 07/08/2025 16:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL) Heated Purge: (Y/N) N pH:

% Moisture: % Solids: Level: (low/med) Low

Analysis Batch No.: 668089 Units: ug/L

Preparation Batch No.: Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
71-43-2	Benzene	5.32		1.0	
78-93-3	2-Butanone	67.3		10	
56-23-5	Carbon tetrachloride	5.66		1.0	
75-00-3	Chloroethane	6.33		1.0	
74-87-3	Chloromethane	5.33		1.0	
75-71-8	Dichlorodifluoromethane	6.29		1.0	
75-34-3	1,1-Dichloroethane	7.20		1.0	
75-35-4	1,1-Dichloroethene	5.89		1.0	
100-41-4	Ethylbenzene	5.02		1.0	
60-29-7	Ethyl ether	19.2		10	
75-09-2	Methylene Chloride	5.40		1.0	
127-18-4	Tetrachloroethene	5.24		1.0	
109-99-9	Tetrahydrofuran	27.1		25	
108-88-3	Toluene	5.12		1.0	
71-55-6	1,1,1-Trichloroethane	5.39		1.0	
79-01-6	Trichloroethene	5.21		1.0	
75-69-4	Trichlorofluoromethane	5.79		1.0	
75-01-4	Vinyl chloride	5.70		1.0	
1330-20-7	Xylenes, Total	15.1		3.0	
76-13-1	Freon 113	5.80		1.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	100		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X19.D
Lims ID: 410-229895-A-4 MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 08-Jul-2025 16:28:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-020
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:12:13 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:11:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.750	1.750	0.000	100	418859	5.00	6.29	
5 Chloromethane	50	1.933	1.933	0.000	99	420853	5.00	5.33	
7 Butadiene	39	2.012	2.012	0.000	93	517544	5.00	5.69	
6 Vinyl chloride	62	2.030	2.031	-0.001	99	398362	5.00	5.70	
9 Bromomethane	94	2.329	2.329	0.000	91	253989	5.00	5.69	
10 Chloroethane	64	2.360	2.360	0.000	100	250622	5.00	6.33	
11 Dichlorofluoromethane	67	2.573	2.573	0.000	97	601140	5.00	5.26	M
13 Pentane	43	2.634	2.634	0.000	97	446546	5.00	5.81	
12 Trichlorofluoromethane	101	2.658	2.658	0.000	100	511385	5.00	5.79	
14 Ethyl ether	59	2.817	2.817	0.000	93	808868	4.97	19.2	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.908	2.915	-0.006	95	320189	5.00	5.19	
17 Acrolein	56	2.963	2.963	0.000	99	199692	36.6	37.5	
18 1,1-Dichloroethene	96	3.079	3.079	0.000	99	256645	5.00	5.89	
20 Acetone	43	3.110	3.110	0.000	99	446870	62.6	64.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.128	3.134	-0.006	92	262488	5.00	5.80	
22 Iodomethane	142	3.250	3.244	0.006	98	458855	5.00	5.18	
24 Isopropyl alcohol	45	3.250	3.262	-0.012	33	40587	37.5	30.7	
25 Carbon disulfide	76	3.335	3.335	0.000	99	862171	5.00	5.37	M
26 Methyl acetate	43	3.463	3.469	-0.006	95	114213	5.00	6.10	
29 3-Chloro-1-propene	41	3.481	3.481	0.000	91	403665	5.00	4.92	
30 Methylene Chloride	84	3.646	3.646	0.000	92	283962	5.00	5.40	
* 31 t-Butyl alcohol-d10 (IS)	65	3.658	3.664	-0.006	38	146976	50.0	50.0	
32 2-Methyl-2-propanol	59	3.768	3.768	0.000	97	109996	50.0	50.4	
33 Acrylonitrile	53	3.951	3.945	0.006	99	256190	25.0	25.1	
34 Methyl tert-butyl ether	73	4.000	4.000	0.000	79	641950	5.00	4.31	
35 trans-1,2-Dichloroethene	96	4.000	4.000	0.000	99	291523	5.00	5.43	
36 Hexane	57	4.402	4.402	0.000	94	394210	5.00	5.39	
37 1,1-Dichloroethane	63	4.640	4.646	-0.006	97	704336	5.00	7.20	
39 Isopropyl ether	45	4.713	4.713	0.000	93	846208	5.00	4.68	
40 2-Chloro-1,3-butadiene	53	4.756	4.756	0.000	92	418404	5.00	4.85	
41 Tert-butyl ethyl ether	59	5.262	5.262	0.000	98	755500	5.00	4.24	
42 2-Butanone (MEK)	43	5.469	5.475	-0.006	100	897633	62.6	67.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
43 cis-1,2-Dichloroethene	96	5.499	5.505	-0.006	85	414291	5.00	6.69	
44 2,2-Dichloropropane	77	5.511	5.512	-0.001	86	426275	5.00	5.55	
45 Propionitrile	54	5.572	5.573	-0.001	98	139713	37.5	38.8	
47 Methacrylonitrile	67	5.786	5.786	0.000	92	528839	37.5	40.9	
48 Chlorobromomethane	128	5.835	5.835	0.000	94	139387	5.00	5.05	
49 Tetrahydrofuran	71	5.847	5.841	0.006	69	103002	25.0	27.1	
50 Chloroform	83	5.999	5.999	0.000	95	509814	5.00	5.13	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	497834	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.225	6.225	0.000	79	469036	5.00	5.39	
55 Cyclohexane	56	6.322	6.322	0.000	92	492992	5.00	5.33	
56 Carbon tetrachloride	117	6.432	6.438	-0.006	97	419573	5.00	5.66	
57 1,1-Dichloropropene	75	6.444	6.444	0.000	96	395625	5.00	5.07	
58 Isobutyl alcohol	41	6.645	6.645	0.000	89	119369	125.1	134.1	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	98	105079	10.0	10.5	
60 Benzene	78	6.706	6.713	-0.007	97	1237998	5.00	5.32	
61 1,2-Dichloroethane	62	6.786	6.792	-0.006	97	308077	5.00	4.84	
64 Tert-amyl methyl ether	73	6.920	6.920	0.000	98	697295	5.00	4.38	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	98	2046323	10.0	10.0	
66 n-Heptane	43	7.151	7.151	0.000	93	438330	5.00	6.08	
67 n-Butanol	56	7.572	7.566	0.006	91	207566	250.2	247.8	
68 Trichloroethene	95	7.621	7.627	-0.006	99	321137	5.00	5.21	
69 Methylcyclohexane	83	7.932	7.932	0.000	92	527562	5.00	5.33	
70 1,2-Dichloropropane	63	7.962	7.968	-0.006	97	301101	5.00	5.06	
71 2-ethoxy-2-methyl butane	87	7.993	7.993	0.000	94	422903	5.00	4.53	
74 1,4-Dioxane	88	8.066	8.072	-0.006	31	28962	125.1	140.0	M
72 Dibromomethane	93	8.072	8.078	-0.006	94	144144	5.00	4.89	
73 Methyl methacrylate	69	8.072	8.078	-0.006	91	123916	5.00	4.65	
76 Dichlorobromomethane	83	8.328	8.328	0.000	99	356948	5.00	4.92	
77 2-Nitropropane	41	8.615	8.615	0.000	99	35451	5.00	4.12	
78 1-Bromo-2-chloroethane	63	8.718	8.718	0.000	99	292604	5.00	5.02	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	390746	5.00	4.37	
82 4-Methyl-2-pentanone (MIBK)	43	9.108	9.108	0.000	97	2290463	62.6	64.7	
$ 83 Toluene-d8 (Surr)	98	9.236	9.243	-0.007	93	2055958	10.0	9.98	
84 Toluene	92	9.322	9.322	0.000	98	779867	5.00	5.12	
85 trans-1,3-Dichloropropene	75	9.620	9.621	-0.001	94	348509	5.00	4.52	
86 Ethyl methacrylate	69	9.700	9.700	0.000	89	270185	5.00	4.05	
87 1,1,2-Trichloroethane	97	9.834	9.840	-0.006	92	211993	5.00	4.85	
88 Tetrachloroethene	166	9.919	9.919	0.000	98	370854	5.00	5.24	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	352162	5.00	4.75	
106 2-Hexanone	43	10.084	10.084	0.000	97	1682330	62.6	66.4	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	255730	5.00	4.79	
110 Ethylene Dibromide	107	10.346	10.346	0.000	99	202158	5.00	4.77	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1569140	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	97	416611	5.00	4.87	
113 Chlorobenzene	112	10.834	10.834	0.000	95	883704	5.00	5.07	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.925	0.000	95	307474	5.00	5.18	
115 Ethylbenzene	91	10.931	10.931	0.000	99	1522997	5.00	5.02	
116 m-Xylene & p-Xylene	106	11.053	11.053	0.000	96	1201191	10.0	10.2	
118 o-Xylene	106	11.401	11.401	0.000	96	569273	5.00	4.90	
119 Styrene	104	11.413	11.413	0.000	95	976885	5.00	5.06	
120 Bromoform	173	11.571	11.571	0.000	97	148114	5.00	4.77	
121 Isopropylbenzene	105	11.712	11.712	0.000	96	1534534	5.00	5.74	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	92	774189	10.0	9.95	
125 Bromobenzene	156	11.974	11.974	0.000	90	393578	5.00	4.92	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	68	261986	5.00	4.60	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	94	262205	25.0	19.2	
128 1,2,3-Trichloropropane	110	12.016	12.016	0.000	84	72663	5.00	4.65	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1851321	5.00	4.98	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	371897	5.00	4.86	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	95	1330116	5.00	4.94	
132 4-Chlorotoluene	126	12.224	12.224	0.000	98	388710	5.00	4.90	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	274512	5.00	4.45	
135 1,2,4-Trimethylbenzene	105	12.486	12.492	-0.006	98	1352127	5.00	4.89	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1730749	5.00	5.04	
137 1,3-Dichlorobenzene	146	12.705	12.711	-0.006	98	769659	5.00	5.01	
138 4-Isopropyltoluene	119	12.723	12.724	-0.001	97	1494677	5.00	4.98	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	901641	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.784	12.785	-0.001	95	798407	5.00	4.98	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	600890	5.00	4.81	
142 Benzyl chloride	126	12.870	12.870	0.000	98	101764	5.00	5.09	
145 p-Diethylbenzene	119	13.004	13.004	0.000	93	924017	5.00	5.08	
143 n-Butylbenzene	92	13.022	13.022	0.000	97	742414	5.00	5.13	
144 1,2-Dichlorobenzene	146	13.047	13.053	-0.006	99	702613	5.00	5.02	
148 1,2-Dibromo-3-Chloropropane	155	13.607	13.608	-0.001	88	32987	5.00	4.34	
149 1,3,5-Trichlorobenzene	180	13.729	13.736	-0.007	98	550346	5.00	5.12	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	94	416945	5.00	5.13	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	264387	5.00	5.82	
152 Naphthalene	128	14.345	14.345	0.000	97	630938	5.00	4.75	
153 1,2,3-Trichlorobenzene	180	14.491	14.492	-0.001	96	332888	5.00	5.29	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	91	200070	5.00	3.85	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	5.38	Units: uL	
MSV_LCS_ACROL_00235	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00011	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

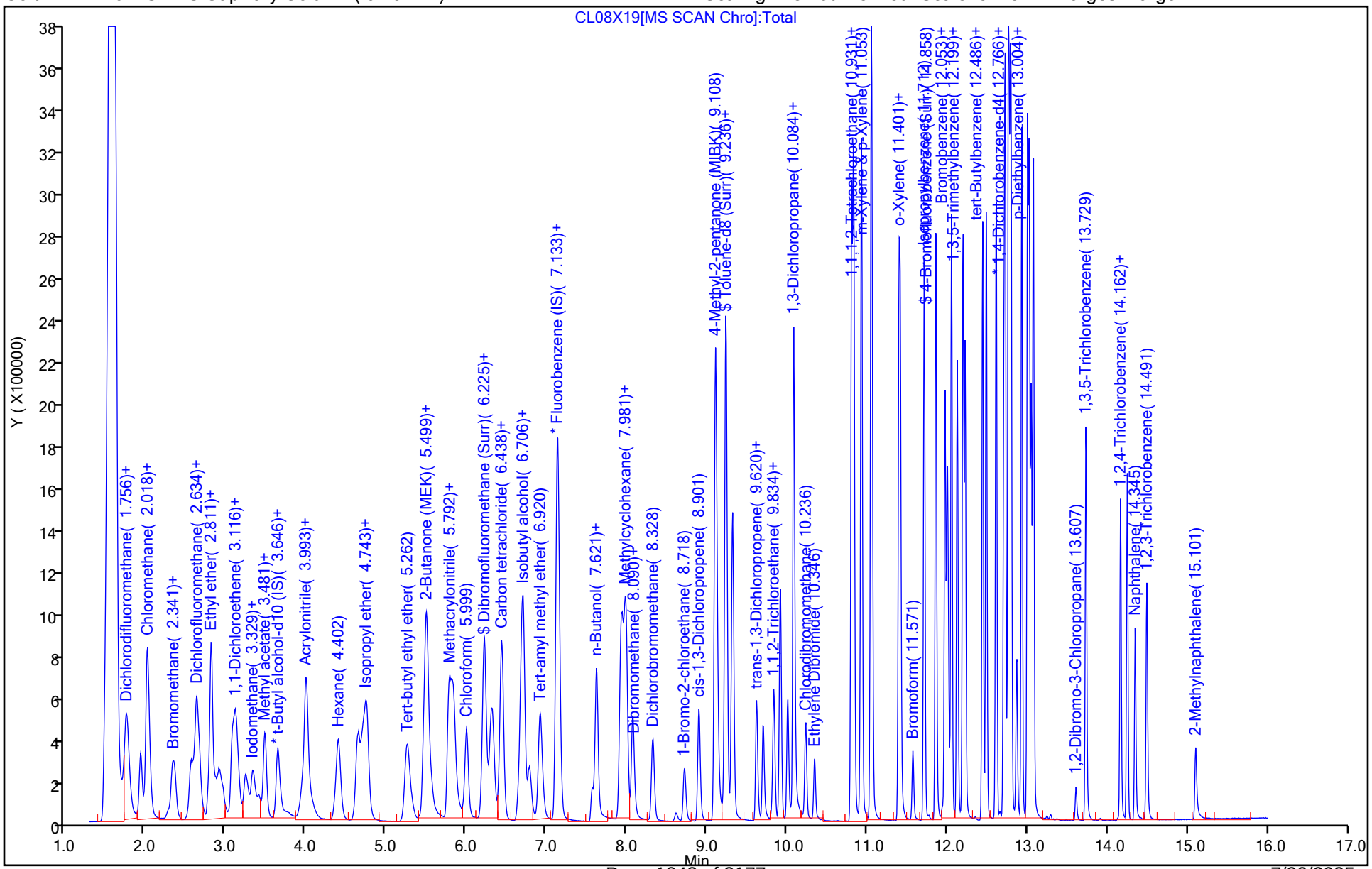
Report Date: 09-Jul-2025 09:12:14 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X19.D

Injection Date:	08-Jul-2025 16:28:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-A-4 MSD			Worklist Smp#:	20
Client ID:	16WC1A				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X19.D				
Lims ID:	410-229895-A-4 MSD				
Client ID:	16WC1A				
Sample Type:	MSD				
Inject. Date:	08-Jul-2025 16:28:30	ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-020				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:12:13	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:11:01

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.3	103.10
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.5	105.45
$ 83 Toluene-d8 (Surr)	10.0	9.98	99.76
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.95	99.48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MSD
Lab Sample ID: 410-229895-4 MSD

Matrix: Water
Lab File ID: CL08X21.D

Analysis Method: 8260D
Date Collected: 06/26/2025 09:45

Sample wt/vol: 25(mL)
Date Analyzed: 07/08/2025 17:12

Soil Aliquot Vol:
Dilution Factor: 1

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668089
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
115-10-6	Dimethyl ether	ND		10	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		80-120
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X21.D
Lims ID: 410-229895-B-4 MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 08-Jul-2025 17:12:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 25.000 mL Dil. Factor: 1.0000
Sample Info: 410-0152711-022
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 09-Jul-2025 09:12:13 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1623

First Level Reviewer: N9NA Date: 09-Jul-2025 09:13:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
4 Dimethyl ether	45	1.799	1.805	-0.006	100	455993	4.65	5.51	
27 Acetonitrile	41	3.457	3.451	0.006	98	79423	18.8	23.9	
* 31 t-Butyl alcohol-d10 (IS)	65	3.665	3.664	0.001	95	139037	50.0	50.0	
38 Vinyl acetate	43	4.640	4.640	0.000	98	949403	12.5	14.3	
46 Ethyl acetate	43	5.554	5.554	0.000	99	77817	2.50	2.42	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.225	0.000	94	455238	10.0	10.5	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.682	0.006	98	92546	10.0	10.3	
63 Isopropyl acetate	43	6.829	6.828	0.001	99	162352	2.50	2.25	
* 65 Fluorobenzene (IS)	96	7.133	7.133	0.000	99	1838668	10.0	10.0	
75 n-Propyl acetate	61	8.176	8.170	0.006	98	30118	2.50	2.07	
$ 83 Toluene-d8 (Surr)	98	9.237	9.243	-0.006	94	1789345	10.0	9.56	
109 n-Butyl acetate	43	10.230	10.224	0.006	97	116099	2.50	1.81	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1425121	10.0	10.0	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	93	647639	10.0	9.16	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	770316	10.0	10.0	

QC Flag Legend
Processing Flags

Reagents:

MSV_LCS_V5ACE_00054	Amount Added:	2.69	Units: uL	
MSV_DME_00072	Amount Added:	0.20	Units: uL	
MSV_HP25_ISSS_00114	Amount Added:	1.00	Units: uL	Run Reagent

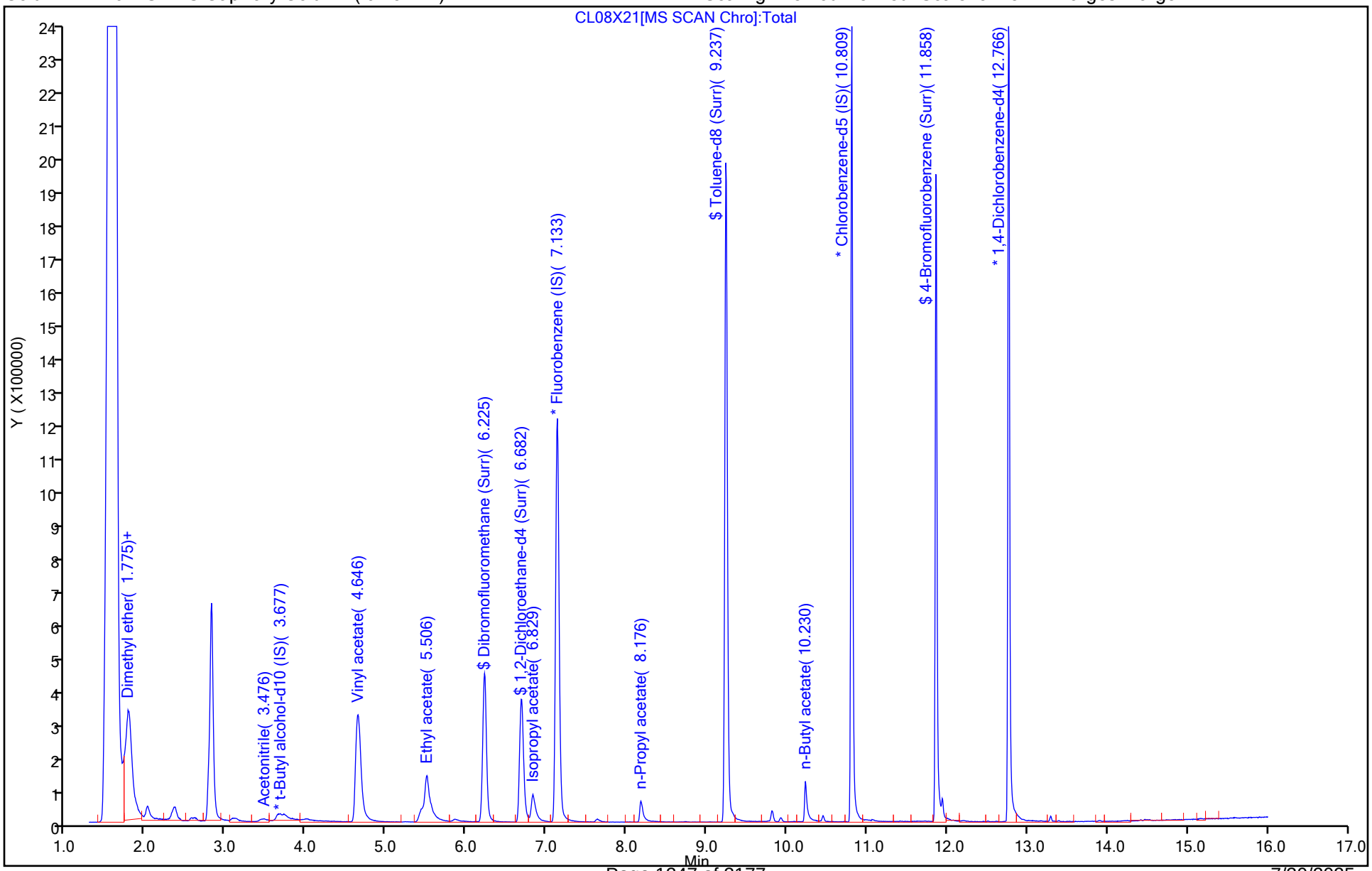
Report Date: 09-Jul-2025 09:13:03 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X21.D

Injection Date:	08-Jul-2025 17:12:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229895-B-4 MSD			Worklist Smp#:	22
Client ID:	16WC1A				
Purge Vol:	25.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\CL08X21.D				
Lims ID:	410-229895-B-4 MSD				
Client ID:	16WC1A				
Sample Type:	MSD				
Inject. Date:	08-Jul-2025 17:12:30	ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	25.000 mL	Dil. Factor:	1.0000		
Sample Info:	410-0152711-022				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250708-152711.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	09-Jul-2025 09:12:13	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1623				

First Level Reviewer: N9NA Date: 09-Jul-2025 09:13:03

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.5	104.92
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.3	103.36
$ 83 Toluene-d8 (Surr)	10.0	9.56	95.60
$ 124 4-Bromofluorobenzene (Surr)	10.0	9.16	91.63

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: 410-229825-A-1 MSD

Matrix: Water
Lab File ID: CL09X23.D

Analysis Method: 8260D
Date Collected:

Sample wt/vol: 25(mL)
Date Analyzed: 07/09/2025 17:50

Soil Aliquot Vol:
Dilution Factor: 100

Soil Extract Vol.:
GC Column: R-624SilMS 30m ID: 0.25(mm)

Purge Volume: 25.0(mL)
Heated Purge: (Y/N) N pH:

% Moisture: % Solids:
Level: (low/med) Low

Analysis Batch No.: 668678
Units: ug/L

Preparation Batch No.:
Instrument ID: 10193

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
75-34-3	1,1-Dichloroethane	553		100	
75-35-4	1,1-Dichloroethene	585		100	
71-55-6	1,1,1-Trichloroethane	563		100	
78-93-3	2-Butanone	7340		1000	
71-43-2	Benzene	542		100	
56-23-5	Carbon tetrachloride	588		100	
75-00-3	Chloroethane	483		100	
74-87-3	Chloromethane	459		100	
75-71-8	Dichlorodifluoromethane	549		100	
60-29-7	Ethyl ether	ND		1000	
100-41-4	Ethylbenzene	532		100	
75-09-2	Methylene Chloride	559		100	
127-18-4	Tetrachloroethene	535		100	
109-99-9	Tetrahydrofuran	2960		2500	
108-88-3	Toluene	548		100	
79-01-6	Trichloroethene	31200		100	
75-69-4	Trichlorofluoromethane	514		100	
75-01-4	Vinyl chloride	497		100	
1330-20-7	Xylenes, Total	1600		300	
76-13-1	Freon 113	586		100	

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X23.D
Lims ID: 410-229825-A-1 MSD
Client ID: MSD-P-7S-R-20250626
Sample Type: MSD
Inject. Date: 09-Jul-2025 17:50:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 25.000 mL Dil. Factor: 100.0000
Sample Info: 410-0152846-024
Operator ID: ecr105096 Instrument ID: 10193

Method: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m
Limit Group: MSV - 8260C_D
Last Update: 10-Jul-2025 12:31:31 Calib Date: 04-Jun-2025 23:20:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D

Column 1 : Rxi-624Sil MS Capillary Column (0.25 mm) Det: MS Quad
Process Host: CTX1609

First Level Reviewer: N9NA Date: 10-Jul-2025 12:31:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
2 Dichlorodifluoromethane	85	1.756	1.762	-0.006	100	356453	5.00	5.49	
5 Chloromethane	50	1.939	1.945	-0.006	100	353416	5.00	4.59	
7 Butadiene	39	2.018	2.025	-0.007	93	552024	5.00	6.23	
6 Vinyl chloride	62	2.037	2.043	-0.006	99	338017	5.00	4.97	
9 Bromomethane	94	2.341	2.342	-0.001	91	225286	5.00	5.18	
10 Chloroethane	64	2.372	2.372	0.000	100	186324	5.00	4.83	
11 Dichlorofluoromethane	67	2.579	2.579	0.000	98	509420	5.00	4.58	M
13 Pentane	43	2.640	2.646	-0.006	96	429098	5.00	5.74	
12 Trichlorofluoromethane	101	2.664	2.671	-0.007	99	441898	5.00	5.14	
14 Ethyl ether	59	2.823	2.823	0.000	93	193416	4.97	4.72	
16 1,2-Dichloro-1,1,2-trifluoroetha	67	2.921	2.927	-0.006	92	286230	5.00	4.76	
18 1,1-Dichloroethene	96	3.085	3.091	-0.006	99	248196	5.00	5.85	
20 Acetone	43	3.116	3.116	0.000	92	466232	62.6	69.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	3.140	3.140	0.000	93	258037	5.00	5.86	
22 Iodomethane	142	3.262	3.256	0.006	99	456379	5.00	5.29	
24 Isopropyl alcohol	45	3.262	3.268	-0.006	32	45617	37.5	35.9	
25 Carbon disulfide	76	3.341	3.347	-0.006	99	851926	5.00	5.45	M
26 Methyl acetate	43	3.475	3.475	0.000	98	111349	5.00	6.19	
29 3-Chloro-1-propene	41	3.494	3.494	0.000	91	410329	5.00	5.14	
30 Methylene Chloride	84	3.658	3.658	0.000	92	285889	5.00	5.59	
* 31 t-Butyl alcohol-d10 (IS)	65	3.683	3.671	0.012	94	141223	50.0	50.0	
32 2-Methyl-2-propanol	59	3.774	3.774	0.000	89	86869	50.0	41.4	
33 Acrylonitrile	53	3.957	3.957	0.000	99	274340	25.0	28.0	
34 Methyl tert-butyl ether	73	4.000	4.012	-0.012	98	651955	5.00	4.50	
35 trans-1,2-Dichloroethene	96	4.006	4.012	-0.006	99	295419	5.00	5.65	
36 Hexane	57	4.408	4.414	-0.006	95	391703	5.00	5.50	
37 1,1-Dichloroethane	63	4.652	4.652	0.000	97	526779	5.00	5.53	
39 Isopropyl ether	45	4.719	4.719	0.000	94	848023	5.00	4.81	
40 2-Chloro-1,3-butadiene	53	4.768	4.768	0.000	92	423703	5.00	5.04	
41 Tert-butyl ethyl ether	59	5.268	5.274	-0.006	98	762909	5.00	4.40	
42 2-Butanone (MEK)	43	5.481	5.481	0.000	100	940725	62.6	73.4	
43 cis-1,2-Dichloroethene	96	5.505	5.512	-0.007	83	330332	5.00	5.48	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
44 2,2-Dichloropropane	77	5.518	5.524	-0.006	88	415981	5.00	5.56	
45 Propionitrile	54	5.585	5.573	0.012	98	147223	37.5	42.5	
47 Methacrylonitrile	67	5.792	5.792	0.000	92	561924	37.5	45.2	
48 Chlorobromomethane	128	5.847	5.847	0.000	98	143668	5.00	5.34	
49 Tetrahydrofuran	71	5.853	5.853	0.000	73	108044	25.0	29.6	
50 Chloroform	83	6.005	6.012	-0.007	95	522653	5.00	5.40	
$ 54 Dibromofluoromethane (Surr)	113	6.225	6.231	-0.006	94	483258	10.0	10.3	
53 1,1,1-Trichloroethane	97	6.225	6.231	-0.006	98	477134	5.00	5.63	
55 Cyclohexane	56	6.328	6.323	0.006	91	497742	5.00	5.53	
56 Carbon tetrachloride	117	6.438	6.438	0.000	95	424585	5.00	5.88	
57 1,1-Dichloropropene	75	6.450	6.451	-0.001	96	397133	5.00	5.22	
58 Isobutyl alcohol	41	6.652	6.652	0.000	87	115367	125.1	134.9	
$ 59 1,2-Dichloroethane-d4 (Surr)	102	6.688	6.694	-0.006	99	97419	10.0	10.0	
60 Benzene	78	6.712	6.719	-0.007	97	1228488	5.00	5.42	
61 1,2-Dichloroethane	62	6.792	6.792	0.000	98	1648429	5.00	26.6	E
64 Tert-amyl methyl ether	73	6.926	6.926	0.000	98	725652	5.00	4.68	
* 65 Fluorobenzene (IS)	96	7.139	7.139	0.000	98	1992447	10.0	10.0	
66 n-Heptane	43	7.158	7.158	0.000	92	428606	5.00	6.11	
67 n-Butanol	56	7.572	7.566	0.006	90	203900	250.2	253.3	
68 Trichloroethene	95	7.627	7.627	0.000	98	18728506	5.00	312.3	E
69 Methylcyclohexane	83	7.932	7.938	-0.006	92	547946	5.00	5.69	
70 1,2-Dichloropropane	63	7.968	7.969	-0.001	97	318900	5.00	5.50	
71 2-ethoxy-2-methyl butane	87	7.993	7.999	-0.006	93	441411	5.00	4.86	
74 1,4-Dioxane	88	8.084	8.078	0.006	28	27330	125.1	137.5	
72 Dibromomethane	93	8.078	8.078	0.000	92	152536	5.00	5.32	
73 Methyl methacrylate	69	8.072	8.078	-0.006	91	134628	5.00	5.26	
76 Dichlorobromomethane	83	8.328	8.328	0.000	100	371421	5.00	5.26	
77 2-Nitropropane	41	8.615	8.621	-0.006	98	39319	5.00	4.76	
78 1-Bromo-2-chloroethane	63	8.724	8.724	0.000	99	266484	5.00	4.69	
80 cis-1,3-Dichloropropene	75	8.901	8.901	0.000	96	401113	5.00	4.61	
82 4-Methyl-2-pentanone (MIBK)	43	9.108	9.115	-0.007	97	2454923	62.6	72.2	
$ 83 Toluene-d8 (Surr)	98	9.242	9.243	-0.001	93	2017152	10.0	10.1	
84 Toluene	92	9.322	9.328	-0.006	98	809910	5.00	5.48	
85 trans-1,3-Dichloropropene	75	9.620	9.621	-0.001	94	352072	5.00	4.71	
86 Ethyl methacrylate	69	9.706	9.706	0.000	89	280606	5.00	4.33	
87 1,1,2-Trichloroethane	97	9.840	9.840	0.000	92	227024	5.00	5.36	
88 Tetrachloroethene	166	9.919	9.919	0.000	99	366900	5.00	5.35	
89 1,3-Dichloropropane	76	10.011	10.011	0.000	92	362998	5.00	5.05	
106 2-Hexanone	43	10.084	10.084	0.000	97	1773569	62.6	72.9	
108 Chlorodibromomethane	129	10.236	10.236	0.000	90	253146	5.00	4.89	
110 Ethylene Dibromide	107	10.346	10.346	0.000	98	206071	5.00	5.02	
* 111 Chlorobenzene-d5 (IS)	117	10.809	10.809	0.000	85	1521598	10.0	10.0	
112 1-Chlorohexane	91	10.834	10.834	0.000	95	420040	5.00	5.07	
113 Chlorobenzene	112	10.834	10.834	0.000	95	889436	5.00	5.26	
114 1,1,1,2-Tetrachloroethane	131	10.925	10.931	-0.006	95	317596	5.00	5.52	
115 Ethylbenzene	91	10.931	10.931	0.000	98	1564805	5.00	5.32	
116 m-Xylene & p-Xylene	106	11.053	11.059	-0.006	97	1236237	10.0	10.8	
118 o-Xylene	106	11.401	11.401	0.000	96	589906	5.00	5.24	
119 Styrene	104	11.419	11.419	0.000	95	1005781	5.00	5.37	
120 Bromoform	173	11.571	11.571	0.000	97	144639	5.00	4.80	
121 Isopropylbenzene	105	11.711	11.712	-0.001	96	1570595	5.00	6.05	
$ 124 4-Bromofluorobenzene (Surr)	95	11.858	11.858	0.000	91	755063	10.0	10.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
125 Bromobenzene	156	11.974	11.974	0.000	90	399455	5.00	5.16	
126 1,1,2,2-Tetrachloroethane	83	11.974	11.974	0.000	70	271600	5.00	4.93	
127 trans-1,4-Dichloro-2-butene	53	11.998	11.998	0.000	93	231348	25.0	17.6	
128 1,2,3-Trichloropropane	110	12.016	12.017	0.000	82	75086	5.00	4.98	
129 N-Propylbenzene	91	12.053	12.053	0.000	99	1873798	5.00	5.21	
130 2-Chlorotoluene	126	12.126	12.126	0.000	97	378169	5.00	5.12	
131 1,3,5-Trimethylbenzene	105	12.199	12.199	0.000	94	1386490	5.00	5.33	
132 4-Chlorotoluene	126	12.224	12.224	0.000	97	392159	5.00	5.12	
133 tert-Butylbenzene	134	12.443	12.443	0.000	93	273882	5.00	4.59	
135 1,2,4-Trimethylbenzene	105	12.486	12.492	-0.006	98	1439533	5.00	5.39	
136 sec-Butylbenzene	105	12.614	12.614	0.000	94	1768420	5.00	5.33	
137 1,3-Dichlorobenzene	146	12.705	12.712	-0.007	98	782871	5.00	5.28	
138 4-Isopropyltoluene	119	12.723	12.724	-0.001	97	1517522	5.00	5.23	
* 139 1,4-Dichlorobenzene-d4	152	12.766	12.766	0.000	94	871346	10.0	10.0	
140 1,4-Dichlorobenzene	146	12.784	12.785	-0.001	96	818988	5.00	5.29	
141 1,2,3-Trimethylbenzene	120	12.797	12.797	0.000	99	618246	5.00	5.12	
142 Benzyl chloride	126	12.870	12.870	0.000	99	102176	5.00	5.29	
145 p-Diethylbenzene	119	13.004	13.004	0.000	95	933250	5.00	5.31	
143 n-Butylbenzene	92	13.022	13.022	0.000	97	742244	5.00	5.31	
144 1,2-Dichlorobenzene	146	13.047	13.047	0.000	99	713507	5.00	5.27	
148 1,2-Dibromo-3-Chloropropane	155	13.607	13.608	-0.001	87	34294	5.00	4.67	
149 1,3,5-Trichlorobenzene	180	13.735	13.736	-0.001	98	550434	5.00	5.29	
150 1,2,4-Trichlorobenzene	180	14.162	14.162	0.000	94	421994	5.00	5.37	
151 Hexachlorobutadiene	225	14.248	14.248	0.000	97	261312	5.00	5.95	
152 Naphthalene	128	14.345	14.345	0.000	97	672706	5.00	5.24	
153 1,2,3-Trichlorobenzene	180	14.491	14.492	-0.001	96	340150	5.00	5.59	
154 2-Methylnaphthalene	142	15.101	15.101	0.000	92	233302	5.00	4.53	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

MSV_LCS_VOC#1_00227	Amount Added:	5.38	Units: uL	
MSV_QC_Gas826_00268	Amount Added:	5.38	Units: uL	
MSV_LCS_EE_00011	Amount Added:	5.38	Units: uL	
MSV_HP25_ISSS_00116	Amount Added:	1.00	Units: uL	Run Reagent

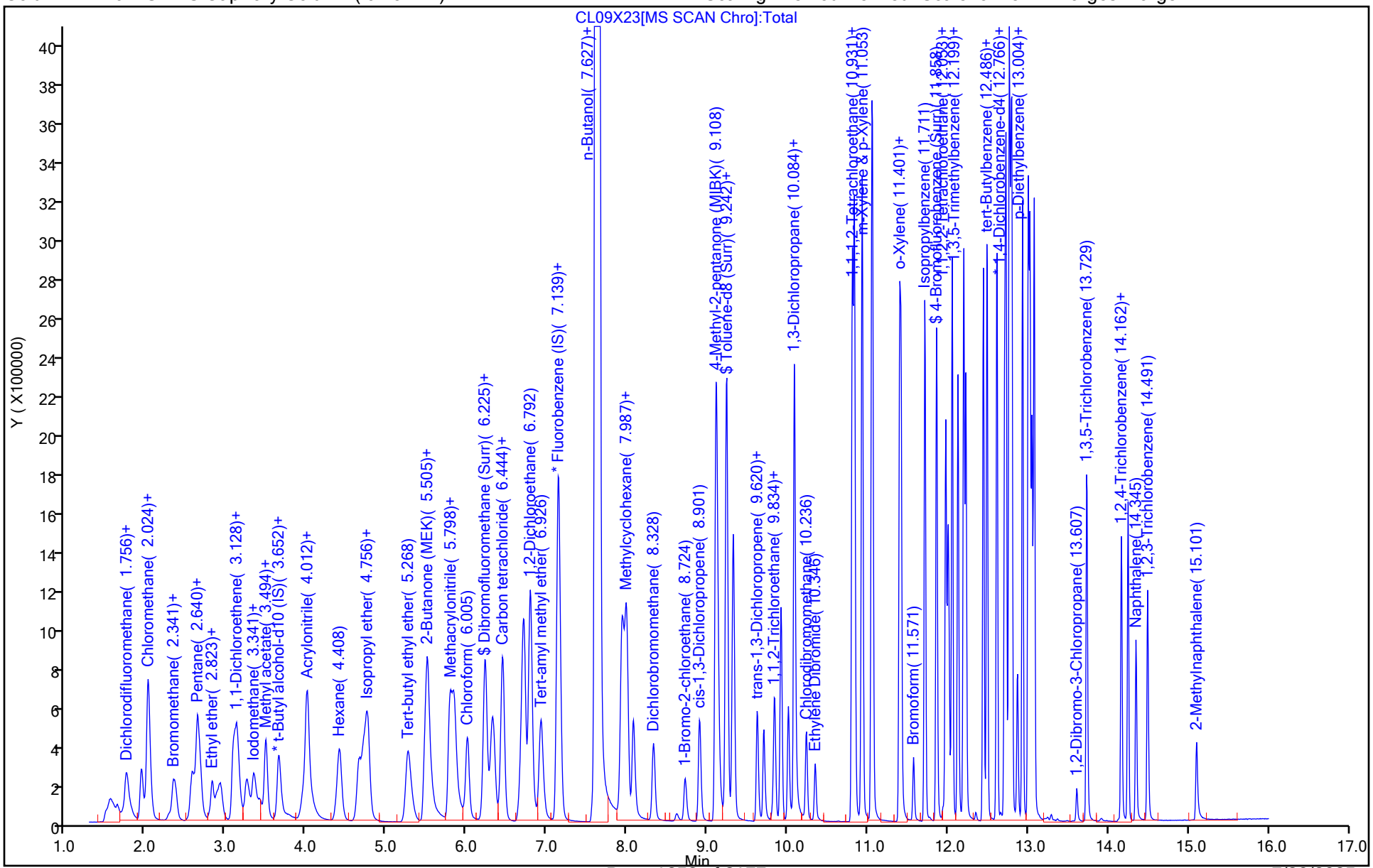
Report Date: 10-Jul-2025 12:31:31 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X23.D

Injection Date:	09-Jul-2025 17:50:30	Instrument ID:	10193	Operator ID:	ecr105096
Lims ID:	410-229825-A-1 MSD			Worklist Smp#:	24
Client ID:	MSD-P-7S-R-20250626				
Purge Vol:	25.000 mL	Dil. Factor:	100.0000	ALS Bottle#:	23
Method:	MSV_10193_25mL	Limit Group:	MSV - 8260C_D		

Column: Rxi-624Sil MS Capillary Column (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\CL09X23.D				
Lims ID:	410-229825-A-1 MSD				
Client ID:	MSD-P-7S-R-20250626				
Sample Type:	MSD				
Inject. Date:	09-Jul-2025 17:50:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	25.000 mL	Dil. Factor:	100.0000		
Sample Info:	410-0152846-024				
Operator ID:	ecr105096	Instrument ID:	10193		
Method:	\\chromfs\Lancaster\ChromData\10193\20250709-152846.b\MSV_10193_25mL.m				
Limit Group:	MSV - 8260C_D				
Last Update:	10-Jul-2025 12:31:31	Calib Date:	04-Jun-2025 23:20:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\10193\20250604-149247.b\CU04X18.D				
Column 1 :	Rxi-624Sil MS Capillary Column (0.25 mm)		Det: MS Quad		
Process Host:	CTX1609				

First Level Reviewer: N9NA Date: 10-Jul-2025 12:31:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 54 Dibromofluoromethane (Surr)	10.0	10.3	102.78
$ 59 1,2-Dichloroethane-d4 (Surr)	10.0	10.0	100.40
$ 83 Toluene-d8 (Surr)	10.0	10.1	100.93
$ 124 4-Bromofluorobenzene (Surr)	10.0	10.0	100.05

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Start Date: 03/11/2021 15:00

Analysis Batch Number: 102081 End Date: 03/11/2021 22:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-102081/1		03/11/2021 15:00	1	CM11T01.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/3		03/11/2021 16:05	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/4		03/11/2021 16:28	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/5		03/11/2021 16:50	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/6		03/11/2021 17:12	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/7		03/11/2021 17:35	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/9		03/11/2021 18:19	1		R-624SilMS 30m 0.25(mm)
ICV 410-102081/10		03/11/2021 18:42	1		R-624SilMS 30m 0.25(mm)
IC 410-102081/12		03/11/2021 19:26	1	CM11X12.D	R-624SilMS 30m 0.25(mm)
ICIS 410-102081/13		03/11/2021 19:49	1	CM11X13.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/14		03/11/2021 20:11	1	CM11X14.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/15		03/11/2021 20:33	1	CM11X15.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/16		03/11/2021 20:55	1	CM11X16.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/17		03/11/2021 21:18	1	CM11X17.D	R-624SilMS 30m 0.25(mm)
IC 410-102081/18		03/11/2021 21:40	1	CM11X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-102081/19		03/11/2021 22:02	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Start Date: 04/13/2021 20:23

Analysis Batch Number: 114096 End Date: 04/14/2021 00:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-114096/1		04/13/2021 20:23	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/3		04/13/2021 21:00	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/4		04/13/2021 21:23	1		R-624SilMS 30m 0.25(mm)
CCV 410-114096/1004		04/13/2021 21:23	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/5		04/13/2021 21:45	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/6		04/13/2021 22:07	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/7		04/13/2021 22:29	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/8		04/13/2021 22:52	1		R-624SilMS 30m 0.25(mm)
IC 410-114096/9		04/13/2021 23:14	1		R-624SilMS 30m 0.25(mm)
ICV 410-114096/10		04/13/2021 23:36	1	CA13V01.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (QC)		04/13/2021 23:59	1		R-624SilMS 30m 0.25(mm)
ZZZZZ (QC)		04/14/2021 00:21	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193

Start Date: 06/04/2025 16:26

Analysis Batch Number: 652703

End Date: 06/05/2025 00:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-652703/1		06/04/2025 16:26	1	CU04T01.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/3		06/04/2025 17:23	1	CU04X02.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/4		06/04/2025 17:46	1	CU04X03.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/5		06/04/2025 18:08	1	CU04X04.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/6		06/04/2025 18:30	1	CU04X05.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/7		06/04/2025 18:53	1	CU04X06.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/8		06/04/2025 19:15	1	CU04X07.D	R-624SilMS 30m 0.25(mm)
CCV 410-652703/1008		06/04/2025 19:15	1		R-624SilMS 30m 0.25(mm)
IC 410-652703/9		06/04/2025 19:37	1	CU04X08.D	R-624SilMS 30m 0.25(mm)
ICV 410-652703/11		06/04/2025 20:22	1	CU04X10.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/13		06/04/2025 21:06	1	CU04X12.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/14		06/04/2025 21:28	1	CU04X13.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/15		06/04/2025 21:51	1	CU04X14.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/16		06/04/2025 22:13	1	CU04X15.D	R-624SilMS 30m 0.25(mm)
IC 410-652703/17		06/04/2025 22:35	1	CU04X16.D	R-624SilMS 30m 0.25(mm)
ICIS 410-652703/18		06/04/2025 22:57	1	CU04X17.D	R-624SilMS 30m 0.25(mm)
ZZZZZ		06/04/2025 22:57	1		R-624SilMS 30m 0.25(mm)
IC 410-652703/19		06/04/2025 23:20	1	CU04X18.D	R-624SilMS 30m 0.25(mm)
ICV 410-652703/21		06/05/2025 00:04	1	CU04X20.D	R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Start Date: 07/08/2025 09:31

Analysis Batch Number: 668089 End Date: 07/08/2025 20:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-668089/1		07/08/2025 09:31	1	CL08T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-668089/3		07/08/2025 10:09	1	CL08X02.D	R-624SilMS 30m 0.25(mm)
CCV 410-668089/4		07/08/2025 10:31	1	CL08X03.D	R-624SilMS 30m 0.25(mm)
LCS 410-668089/5		07/08/2025 10:53	1	CL08X04.D	R-624SilMS 30m 0.25(mm)
LCS 410-668089/6		07/08/2025 11:16	1	CL08X05.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (QC)		07/08/2025 11:38	1		R-624SilMS 30m 0.25(mm)
MB 410-668089/8		07/08/2025 12:00	1	CL08X07.D	R-624SilMS 30m 0.25(mm)
410-229895-12	Trip Blank 1	07/08/2025 12:23	1	CL08X08.D	R-624SilMS 30m 0.25(mm)
410-229895-13	Trip Blank 2	07/08/2025 12:45	1	CL08X09.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/08/2025 13:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/08/2025 14:14	1		R-624SilMS 30m 0.25(mm)
410-229895-1	16C1	07/08/2025 14:36	1	CL08X14.D	R-624SilMS 30m 0.25(mm)
410-229895-2	16MW8	07/08/2025 14:59	1	CL08X15.D	R-624SilMS 30m 0.25(mm)
410-229895-3	16MW9	07/08/2025 15:21	1	CL08X16.D	R-624SilMS 30m 0.25(mm)
410-229895-4	16WC1A	07/08/2025 15:43	1	CL08X17.D	R-624SilMS 30m 0.25(mm)
410-229895-4 MS	16WC1A MS	07/08/2025 16:05	1	CL08X18.D	R-624SilMS 30m 0.25(mm)
410-229895-4 MSD	16WC1A MSD	07/08/2025 16:28	1	CL08X19.D	R-624SilMS 30m 0.25(mm)
410-229895-4 MS	16WC1A MS	07/08/2025 16:50	1	CL08X20.D	R-624SilMS 30m 0.25(mm)
410-229895-4 MSD	16WC1A MSD	07/08/2025 17:12	1	CL08X21.D	R-624SilMS 30m 0.25(mm)
410-229895-5	16WDUP	07/08/2025 17:35	1	CL08X22.D	R-624SilMS 30m 0.25(mm)
410-229895-6	16WC1B	07/08/2025 17:57	1	CL08X23.D	R-624SilMS 30m 0.25(mm)
410-229895-7	16-2	07/08/2025 18:19	1	CL08X24.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/08/2025 18:41	1		R-624SilMS 30m 0.25(mm)
410-229895-9	16-5	07/08/2025 19:04	1	CL08X26.D	R-624SilMS 30m 0.25(mm)
410-229895-10	16WC2B	07/08/2025 19:26	1	CL08X27.D	R-624SilMS 30m 0.25(mm)
410-229895-11	16SPRING	07/08/2025 19:48	1	CL08X28.D	R-624SilMS 30m 0.25(mm)
CCVC 410-668089/30		07/08/2025 20:10	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: 10193 Start Date: 07/09/2025 09:23

Analysis Batch Number: 668678 End Date: 07/09/2025 18:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 410-668678/1		07/09/2025 09:23	1	CL09T01.D	R-624SilMS 30m 0.25(mm)
CCVIS 410-668678/3		07/09/2025 10:02	1	CL09X02.D	R-624SilMS 30m 0.25(mm)
CCV 410-668678/4		07/09/2025 10:24	1	CL09X03.D	R-624SilMS 30m 0.25(mm)
LCS 410-668678/5		07/09/2025 10:46	1	CL09X04.D	R-624SilMS 30m 0.25(mm)
LCSD 410-668678/6		07/09/2025 11:09	1	CL09X05.D	R-624SilMS 30m 0.25(mm)
LCS 410-668678/7		07/09/2025 11:31	1	CL09X06.D	R-624SilMS 30m 0.25(mm)
LCSD 410-668678/8		07/09/2025 11:53	1	CL09X07.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (QC)		07/09/2025 12:16	1		R-624SilMS 30m 0.25(mm)
MB 410-668678/10		07/09/2025 12:38	1	CL09X09.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/09/2025 14:07	1		R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/09/2025 14:29	1		R-624SilMS 30m 0.25(mm)
410-229895-6 RA	16WC1B RA	07/09/2025 15:14	1	CL09X16.D	R-624SilMS 30m 0.25(mm)
410-229895-7 RA	16-2 RA	07/09/2025 15:36	1	CL09X17.D	R-624SilMS 30m 0.25(mm)
410-229895-8	16-3	07/09/2025 15:59	1	CL09X18.D	R-624SilMS 30m 0.25(mm)
410-229895-1 DL	16C1 DL	07/09/2025 16:21	10	CL09X19.D	R-624SilMS 30m 0.25(mm)
410-229895-3 DL	16MW9 DL	07/09/2025 16:43	10	CL09X20.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:05	100		R-624SilMS 30m 0.25(mm)
410-229825-B-1 MS		07/09/2025 17:28	100	CL09X22.D	R-624SilMS 30m 0.25(mm)
410-229825-A-1 MSD		07/09/2025 17:50	100	CL09X23.D	R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:12	1000		R-624SilMS 30m 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:34	1		R-624SilMS 30m 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 102081 Batch Start Date: 03/11/21 15:00 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_HP25_ISSS 00023	MSV_RV1_826 00041	MSV_RV4_826 00047
BFB 410-102081/1		8260D			1 uL	1 uL				
IC 410-102081/12		8260D			25 mL	25 mL	0126201F	1 uL	25 uL	25 uL
ICIS 410-102081/13		8260D			25 mL	25 mL	0126201F	1 uL	10 uL	10 uL
IC 410-102081/14		8260D			25 mL	25 mL	0126201F	1 uL	5 uL	5 uL
IC 410-102081/15		8260D			25 mL	25 mL	0126201F	1 uL	2 uL	2 uL
IC 410-102081/16		8260D			25 mL	25 mL	0126201F	1 uL	2 uL	2 uL
IC 410-102081/17		8260D			25 mL	25 mL	0126201F	1 uL	2 uL	2 uL
IC 410-102081/18		8260D			25 mL	25 mL	0126201F	1 uL	2 uL	2 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_RV4GAS826 00118	MSV_V_BFB 00004				
BFB 410-102081/1		8260D				1 uL				
IC 410-102081/12		8260D			25 uL					
ICIS 410-102081/13		8260D			10 uL					
IC 410-102081/14		8260D			5 uL					
IC 410-102081/15		8260D			2 uL					
IC 410-102081/16		8260D			2 uL					
IC 410-102081/17		8260D			2 uL					
IC 410-102081/18		8260D			2 uL					

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 102081 Batch Start Date: 03/11/21 15:00 Batch Analyst: Sposito, Kevin A

Batch Method: 8260D Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 114096 Batch Start Date: 04/13/21 20:23 Batch Analyst: Campbell, Miranda E

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	MSV_HP25_ISSS 00023	MSV_Q_CDFM_25 00014	MSV_Q_QARC 00077
ICV 410-114096/10		8260D			25 mL	25 mL	0126201F	1 uL	5 uL	12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_Q_QDME 00013	MSV_Q_VOA5 00025	MSV_QAcet 00012	MSV_QCYC 00005	MSV_QLKB 00004	MSV_QREV4_25 00017
ICV 410-114096/10		8260D			5 uL	25 uL	7.5 uL	12.5 uL	25 uL	12.5 uL

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 652703 Batch Start Date: 06/04/25 16:26 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Lot#Vial	LCS_ETBR 00010	MSV_CCV_CYC 00011	MSV_CCV_V5ACE 00049
BFB 410-652703/1		8260D			1 uL	1 uL				
IC 410-652703/3		8260D			25 mL	25 mL	431126		1.6 uL	0.2 uL
IC 410-652703/4		8260D			25 mL	25 mL	431126		4 uL	0.5 uL
IC 410-652703/5		8260D			25 mL	25 mL	431126		8 uL	1 uL
IC 410-652703/6		8260D			25 mL	25 mL	431126		8 uL	1 uL
IC 410-652703/7		8260D			25 mL	25 mL	431126		8 uL	1 uL
IC 410-652703/8		8260D			25 mL	25 mL	431126		8 uL	1 uL
IC 410-652703/9		8260D			25 mL	25 mL	431126		20 uL	2.5 uL
ICV 410-652703/11		8260D			25 mL	25 mL	431126			
IC 410-652703/13		8260D			25 mL	25 mL	431126			
IC 410-652703/14		8260D			25 mL	25 mL	431126			
IC 410-652703/15		8260D			25 mL	25 mL	431126			
IC 410-652703/16		8260D			25 mL	25 mL	431126			
IC 410-652703/17		8260D			25 mL	25 mL	431126			
ICIS 410-652703/18		8260D			25 mL	25 mL	431126			
IC 410-652703/19		8260D			25 mL	25 mL	431126			
ICV 410-652703/21		8260D			25 mL	25 mL	431126	12.5 uL		

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00064	MSV_HP25_ISO 00013	MSV_HP25_ISSS 00114	MSV_LCS_2CEVE 00231	MSV_LCS_ACROL 00229	MSV_LCS_CYC 00011
BFB 410-652703/1		8260D								
IC 410-652703/3		8260D			0.2 uL	1 uL				
IC 410-652703/4		8260D			0.5 uL	1 uL				
IC 410-652703/5		8260D			1 uL	1 uL				
IC 410-652703/6		8260D			1 uL	1 uL				
IC 410-652703/7		8260D			1 uL	1 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 652703 Batch Start Date: 06/04/25 16:26 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_DME 00064	MSV_HP25_ISO 00013	MSV_HP25_ISSS 00114	MSV_LCS_2CEVE 00231	MSV_LCS_ACROL 00229	MSV_LCS_CYC 00011
IC 410-652703/8		8260D			1 uL	1 uL				
IC 410-652703/9		8260D			2.5 uL	1 uL				
ICV 410-652703/11		8260D			0.5 uL	1 uL		12.5 uL		12.5 uL
IC 410-652703/13		8260D					1 uL			
IC 410-652703/14		8260D					1 uL			
IC 410-652703/15		8260D					1 uL			
IC 410-652703/16		8260D					1 uL			
IC 410-652703/17		8260D					1 uL			
ICIS 410-652703/18		8260D					1 uL			
IC 410-652703/19		8260D					1 uL			
ICV 410-652703/21		8260D					1 uL		12.5 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_EE 00011	MSV_LCS_LKB 00014	MSV_LCS_Penta 00056	MSV_LCS_SMFre 00089	MSV_LCS_V5ACE 00053	MSV_LCS_VOC#1 00222
BFB 410-652703/1		8260D								
IC 410-652703/3		8260D								
IC 410-652703/4		8260D								
IC 410-652703/5		8260D								
IC 410-652703/6		8260D								
IC 410-652703/7		8260D								
IC 410-652703/8		8260D								
IC 410-652703/9		8260D								
ICV 410-652703/11		8260D				25 uL		12.5 uL	6.25 uL	
IC 410-652703/13		8260D								
IC 410-652703/14		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 652703 Batch Start Date: 06/04/25 16:26 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_EE 00011	MSV_LCS_LKB 00014	MSV_LCS_Penta 00056	MSV_LCS_SMFre 00089	MSV_LCS_V5ACE 00053	MSV_LCS_VOC#1 00222
IC 410-652703/15		8260D								
IC 410-652703/16		8260D								
IC 410-652703/17		8260D								
ICIS 410-652703/18		8260D								
IC 410-652703/19		8260D								
ICV 410-652703/21		8260D			12.5 uL		12.5 uL			12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#1_826 00168	MSV_LL_#2_826 00181	MSV_LL_GAS826 00274	MSV_QC_Gas826 00263	MSV_V_BFB 00019	MSV_V_SMRV4 00088
BFB 410-652703/1		8260D							1 uL	
IC 410-652703/3		8260D								1 uL
IC 410-652703/4		8260D								2.5 uL
IC 410-652703/5		8260D								5 uL
IC 410-652703/6		8260D								5 uL
IC 410-652703/7		8260D								5 uL
IC 410-652703/8		8260D								5 uL
IC 410-652703/9		8260D								12.5 uL
ICV 410-652703/11		8260D								
IC 410-652703/13		8260D			2 uL	2 uL	2 uL			
IC 410-652703/14		8260D			2 uL	2 uL	2 uL			
IC 410-652703/15		8260D			2 uL	2 uL	2 uL			
IC 410-652703/16		8260D			2 uL	2 uL	2 uL			
IC 410-652703/17		8260D			5 uL	5 uL	5 uL			
ICIS 410-652703/18		8260D			10 uL	10 uL	10 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 652703 Batch Start Date: 06/04/25 16:26 Batch Analyst: Kephart, Kayla

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LL_#1_826 00168	MSV_LL_#2_826 00181	MSV_LL_GAS826 00274	MSV_QC_Gas826 00263	MSV_V_BFB 00019	MSV_V_SMRV4 00088
IC 410-652703/19		8260D			25 uL	25 uL	25 uL			
ICV 410-652703/21		8260D						12.5 uL		

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668089 Batch Start Date: 07/08/25 09:31 Batch Analyst: Ressler, Eric

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-668089/1		8260D			1 uL	1 uL				
CCVIS 410-668089/3		8260D			25 mL	25 mL				431127
CCV 410-668089/4		8260D			25 mL	25 mL				431127
LCS 410-668089/5		8260D			25 mL	25 mL				431127
LCS 410-668089/6		8260D			25 mL	25 mL				431127
MB 410-668089/8		8260D			25 mL	25 mL				431127
410-229895-A-12	Trip Blank 1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-13	Trip Blank 2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-1	16C1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-2	16MW8	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-3	16MW9	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-4	16WC1A	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-4 MS	16WC1A	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-4 MSD	16WC1A	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-B-4 MS	16WC1A	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-B-4 MSD	16WC1A	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-5	16WDUP	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-6	16WC1B	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-7	16-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-9	16-5	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-10	16WC2B	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-A-11	16SPRING	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00050	MSV_DME 00072	MSV_HP25_ISSS 00114	MSV_LCS_ACROL 00235	MSV_LCS_EE 00011	MSV_LCS_V5ACE 00054
BFB 410-668089/1		8260D								

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668089 Batch Start Date: 07/08/25 09:31 Batch Analyst: Ressler, Eric

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00050	MSV_DME 00072	MSV_HP25_ISSS 00114	MSV_LCS_ACROL 00235	MSV_LCS_EE 00011	MSV_LCS_V5ACE 00054
CCVIS 410-668089/3		8260D					1 uL			
CCV 410-668089/4		8260D			2.5 uL	2.5 uL	1 uL			
LCS 410-668089/5		8260D					1 uL	12.5 uL	12.5 uL	
LCS 410-668089/6		8260D				0.5 uL	1 uL			6.25 uL
MB 410-668089/8		8260D					1 uL			
410-229895-A-12	Trip Blank 1	8260D	Water	T			1 uL			
410-229895-A-13	Trip Blank 2	8260D	Water	T			1 uL			
410-229895-A-1	16C1	8260D	Water	T			1 uL			
410-229895-A-2	16MW8	8260D	Water	T			1 uL			
410-229895-A-3	16MW9	8260D	Water	T			1 uL			
410-229895-A-4	16WC1A	8260D	Water	T			1 uL			
410-229895-A-4 MS	16WC1A	8260D	Water	T			1 uL	5.38 uL	5.38 uL	
410-229895-A-4 MSD	16WC1A	8260D	Water	T			1 uL	5.38 uL	5.38 uL	
410-229895-B-4 MS	16WC1A	8260D	Water	T		0.2 uL	1 uL			2.69 uL
410-229895-B-4 MSD	16WC1A	8260D	Water	T		0.2 uL	1 uL			2.69 uL
410-229895-A-5	16WDUP	8260D	Water	T			1 uL			
410-229895-A-6	16WC1B	8260D	Water	T			1 uL			
410-229895-A-7	16-2	8260D	Water	T			1 uL			
410-229895-A-9	16-5	8260D	Water	T			1 uL			
410-229895-A-10	16WC2B	8260D	Water	T			1 uL			
410-229895-A-11	16SPRING	8260D	Water	T			1 uL			

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00227	MSV_LL_#1_826 00170	MSV_LL_#2_826 00184	MSV_LL_GAS826 00279	MSV_QC_Gas826 00268	MSV_V_BFB 00019
BFB 410-668089/1		8260D								1 uL
CCVIS 410-668089/3		8260D				25 uL	25 uL	25 uL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668089 Batch Start Date: 07/08/25 09:31 Batch Analyst: Ressler, Eric

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00227	MSV_LL_#1_826 00170	MSV_LL_#2_826 00184	MSV_LL_GAS826 00279	MSV_QC_Gas826 00268	MSV_V_BFB 00019
CCV 410-668089/4		8260D								
LCS 410-668089/5		8260D			12.5 uL				12.5 uL	
LCS 410-668089/6		8260D								
MB 410-668089/8		8260D								
410-229895-A-12	Trip Blank 1	8260D	Water	T						
410-229895-A-13	Trip Blank 2	8260D	Water	T						
410-229895-A-1	16C1	8260D	Water	T						
410-229895-A-2	16MW8	8260D	Water	T						
410-229895-A-3	16MW9	8260D	Water	T						
410-229895-A-4	16WC1A	8260D	Water	T						
410-229895-A-4 MS	16WC1A	8260D	Water	T	5.38 uL				5.38 uL	
410-229895-A-4 MSD	16WC1A	8260D	Water	T	5.38 uL				5.38 uL	
410-229895-B-4 MS	16WC1A	8260D	Water	T						
410-229895-B-4 MSD	16WC1A	8260D	Water	T						
410-229895-A-5	16WDUP	8260D	Water	T						
410-229895-A-6	16WC1B	8260D	Water	T						
410-229895-A-7	16-2	8260D	Water	T						
410-229895-A-9	16-5	8260D	Water	T						
410-229895-A-10	16WC2B	8260D	Water	T						
410-229895-A-11	16SPRING	8260D	Water	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668678 Batch Start Date: 07/09/25 09:23 Batch Analyst: Ressler, Eric

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Initial pH	ResidualChloCheck	Headspace	Lot#Vial
BFB 410-668678/1		8260D			1 uL	1 uL				
CCVIS 410-668678/3		8260D			25 mL	25 mL				431127
CCV 410-668678/4		8260D			25 mL	25 mL				431127
LCS 410-668678/5		8260D			25 mL	25 mL				431127
LCSD 410-668678/6		8260D			25 mL	25 mL				431127
LCS 410-668678/7		8260D			25 mL	25 mL				431127
LCSD 410-668678/8		8260D			25 mL	25 mL				431127
MB 410-668678/10		8260D			25 mL	25 mL				431127
410-229895-C-6	16WC1B	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-C-7	16-2	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-C-8	16-3	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	
410-229895-B-1	16C1	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	431127
410-229895-B-3	16MW9	8260D	Water	T	25 mL	25 mL	<2 SU	N	N	431127
410-229825-B-1 MS	MS-P-7S-R-20250626	8260D		T	25 mL	25 mL	<2 SU	N	N	431127
410-229825-A-1 MSD	MSD-P-7S-R-20250626	8260D		T	25 mL	25 mL	<2 SU	N	N	431127

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE_00050	MSV_DME_00072	MSV_HP25_ISSS_00116	MSV_LCS_ACROL_00235	MSV_LCS_EE_00011	MSV_LCS_V5ACE_00054
BFB 410-668678/1		8260D								
CCVIS 410-668678/3		8260D					1 uL			
CCV 410-668678/4		8260D			2.5 uL	2.5 uL	1 uL			
LCS 410-668678/5		8260D					1 uL	12.5 uL	12.5 uL	
LCSD 410-668678/6		8260D					1 uL	12.5 uL	12.5 uL	
LCS 410-668678/7		8260D				0.5 uL	1 uL			6.25 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668678 Batch Start Date: 07/09/25 09:23 Batch Analyst: Ressler, Eric

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_CCV_V5ACE 00050	MSV_DME 00072	MSV_HP25_ISSS 00116	MSV_LCS_ACROL 00235	MSV_LCS_EE 00011	MSV_LCS_V5ACE 00054
LCSD 410-668678/8		8260D				0.5 uL	1 uL			6.25 uL
MB 410-668678/10		8260D					1 uL			
410-229895-C-6	16WC1B	8260D	Water	T			1 uL			
410-229895-C-7	16-2	8260D	Water	T			1 uL			
410-229895-C-8	16-3	8260D	Water	T			1 uL			
410-229895-B-1	16C1	8260D	Water	T			1 uL			
410-229895-B-3	16MW9	8260D	Water	T			1 uL			
410-229825-B-1 MS	MS-P-7S-R-20250626	8260D		T			1 uL		5.38 uL	
410-229825-A-1 MSD	MSD-P-7S-R-20250626	8260D		T			1 uL		5.38 uL	

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00227	MSV_LL_#1_826 00170	MSV_LL_#2_826 00184	MSV_LL_GAS826 00279	MSV_QC_Gas826 00268	MSV_V_BFB 00019
BFB 410-668678/1		8260D								1 uL
CCVIS 410-668678/3		8260D				25 uL	25 uL	25 uL		
CCV 410-668678/4		8260D								
LCS 410-668678/5		8260D			12.5 uL				12.5 uL	
LCSD 410-668678/6		8260D			12.5 uL				12.5 uL	
LCS 410-668678/7		8260D								
LCSD 410-668678/8		8260D								
MB 410-668678/10		8260D								
410-229895-C-6	16WC1B	8260D	Water	T						
410-229895-C-7	16-2	8260D	Water	T						
410-229895-C-8	16-3	8260D	Water	T						
410-229895-B-1	16C1	8260D	Water	T						
410-229895-B-3	16MW9	8260D	Water	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668678 Batch Start Date: 07/09/25 09:23 Batch Analyst: Ressler, Eric

Batch Method: 8260D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSV_LCS_VOC#1 00227	MSV_LL_#1_826 00170	MSV_LL_#2_826 00184	MSV_LL_GAS826 00279	MSV_QC_Gas826 00268	MSV_V_BFB 00019
410-229825-B-1 MS	MS-P-7S-R-20250626	8260D		T	5.38 uL				5.38 uL	
410-229825-A-1 MSD	MSD-P-7S-R-20250626	8260D		T	5.38 uL				5.38 uL	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270E

Semivolatile Organic Compounds (GC/MS) by Method 8270E

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
16C1	410-229895-1	57	45	91	83	84	96
16MW8	410-229895-2	53	38	84	85	72	86
16MW9	410-229895-3	48	43	87	82	74	101
16WC1A	410-229895-4	10	6 S1-	82	77	22	58
16WDUP	410-229895-5	22	19	92	87	34	67
16WC1B	410-229895-6	35	26	88	84	68	87
16-2	410-229895-7	49	34	79	79	66	108
16-3	410-229895-8	55	38	84	80	63	104
16-5	410-229895-9	52	36	77	76	64	105
16WC2B	410-229895-10	41	28	67	69	52	90
16SPRING	410-229895-11	44	30	71	71	58	99
	MB 410-666257/1-A	50	35	78	73	63	105
	MB 410-666606/1-A	57	40	81	80	62	94
	LCS 410-666257/2-A	52	37	74	63	75	95
	LCS 410-666606/2-A	50	39	60	66	77	102
	LCSD 410-666257/3-A	51	38	69	64	75	92
16WC1A MS	410-229895-4 MS	25	17	76	71	17	101
16WC1A MSD	410-229895-4 MSD	27	23	82	77	26	102

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	33-120
FBP = 2-Fluorobiphenyl (Surr)	45-120
TBP = 2,4,6-Tribromophenol (Surr)	13-134
TPHd14 = p-Terphenyl-d14 (Surr)	26-123

Column to be used to flag recovery values

FORM II 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HF0306.D

Lab ID: LCS 410-666257/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	50.0	46.8	94	54-143	
2,6-Dinitrotoluene	50.0	43.0	86	53-139	
Diethyl phthalate	50.0	40.8	82	45-130	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HG0905.D

Lab ID: LCS 410-666606/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	50.0	49.1	98	54-143	
2,6-Dinitrotoluene	50.0	43.9	88	53-139	
Diethyl phthalate	50.0	32.8	66	45-130	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HF0307.D

Lab ID: LCSD 410-666257/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dinitrotoluene	50.0	48.4	97	3	30	54-143	
2,6-Dinitrotoluene	50.0	43.1	86	0	30	53-139	
Diethyl phthalate	50.0	42.8	86	5	30	45-130	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HG0912.D

Lab ID: 410-229895-4 MS Client ID: 16WC1A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	51.0	ND	51.0	100	54-143	
2,6-Dinitrotoluene	51.0	ND	47.7	94	53-139	
Diethyl phthalate	51.0	ND	43.4	85	45-130	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HG0913.D

Lab ID: 410-229895-4 MSD Client ID: 16WC1A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dinitrotoluene	50.6	53.7	106	5	30	54-143	
2,6-Dinitrotoluene	50.6	49.9	99	5	30	53-139	
Diethyl phthalate	50.6	47.0	93	8	30	45-130	

Column to be used to flag recovery and RPD values

FORM III 8270E

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF0305.D Lab Sample ID: MB 410-666257/1-A

Matrix: Water Date Extracted: 07/02/2025 15:31

Instrument ID: HP18831 Date Analyzed: 07/03/2025 14:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-666257/2-A	HF0306.D	07/03/2025 14:48
	LCSD 410-666257/3-A	HF0307.D	07/03/2025 15:10
16MW8	410-229895-2	HF0328.D	07/03/2025 22:40
16-2	410-229895-7	HF0329.D	07/03/2025 23:01
16-3	410-229895-8	HF0330.D	07/03/2025 23:23
16-5	410-229895-9	HG0870.D	07/09/2025 03:30
16WC2B	410-229895-10	HG0871.D	07/09/2025 03:51
16SPRING	410-229895-11	HG0872.D	07/09/2025 04:12

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HG0904.D Lab Sample ID: MB 410-666606/1-A

Matrix: Water Date Extracted: 07/03/2025 08:30

Instrument ID: HP18831 Date Analyzed: 07/09/2025 11:15

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-666606/2-A	HG0905.D	07/09/2025 11:36
16WC1A	410-229895-4	HG0911.D	07/09/2025 14:34
16WC1A MS	410-229895-4 MS	HG0912.D	07/09/2025 14:55
16WC1A MSD	410-229895-4 MSD	HG0913.D	07/09/2025 15:17
16C1	410-229895-1	HG0924.D	07/09/2025 19:13
16MW9	410-229895-3	HG0925.D	07/09/2025 19:34
16WDUP	410-229895-5	HG0926.D	07/09/2025 19:56
16WC1B	410-229895-6	HG0927.D	07/09/2025 20:17

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF2350.D DFTPP Injection Date: 06/23/2025

Instrument ID: HP18831 DFTPP Injection Time: 19:52

Analysis Batch No.: 661633

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	46.2	
68	Less than 2% of mass 69	0.6	(1.5) 1
69	Mass 69 Relative abundance	41.9	
70	Less than 2% of mass 69	0.3	(0.6) 1
127	10-80% of Base Peak	45.9	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	27.2	
365	Greater than 1% of mass 198	3.7	
441	present but less than 24% of mass 442	14.4	(15.0) 2
442	Greater than 50% of mass 198	96.1	
443	15-24% of mass 442	18.2	(19.0) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-661633/2	HF2351.D	06/23/2025	20:42
	IC 410-661633/3	HF2352.D	06/23/2025	21:24
	IC 410-661633/4	HF2353.D	06/23/2025	21:46
	IC 410-661633/5	HF2354.D	06/23/2025	22:08
	IC 410-661633/6	HF2355.D	06/23/2025	22:30
	IC 410-661633/7	HF2356.D	06/23/2025	22:52
	IC 410-661633/8	HF2357.D	06/23/2025	23:14
	IC 410-661633/9	HF2358.D	06/23/2025	23:36
	ICV 410-661633/12	HF2361.D	06/24/2025	0:42

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF2400.D DFTPP Injection Date: 06/24/2025

Instrument ID: HP18831 DFTPP Injection Time: 09:59

Analysis Batch No.: 661953

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.1	
68	Less than 2% of mass 69	0.7	(1.7) 1
69	Mass 69 Relative abundance	41.9	
70	Less than 2% of mass 69	0.1	(0.1) 1
127	10-80% of Base Peak	46.8	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	26.5	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	15.0	(16.3) 2
442	Greater than 50% of mass 198	92.1	
443	15-24% of mass 442	19.1	(20.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 410-661953/3	HF2403.D	06/24/2025	11:42
	ICV 410-661953/4	HF2404.D	06/24/2025	12:04

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF0300a.D DFTPP Injection Date: 07/03/2025

Instrument ID: HP18831 DFTPP Injection Time: 11:39

Analysis Batch No.: 666539

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	52.8	
68	Less than 2% of mass 69	0.8	(1.7) 1
69	Mass 69 Relative abundance	45.6	
70	Less than 2% of mass 69	0.2	(0.4) 1
127	10-80% of Base Peak	49.1	
197	Less than 2% of mass 198	0.5	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	25.9	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	13.6	(15.2) 2
442	Greater than 50% of mass 198	89.7	
443	15-24% of mass 442	17.5	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-666539/2	HF0301a.D	07/03/2025	12:04
	MB 410-666257/1-A	HF0305.D	07/03/2025	14:27
	LCS 410-666257/2-A	HF0306.D	07/03/2025	14:48
	LCSD 410-666257/3-A	HF0307.D	07/03/2025	15:10
	CCVC 410-666539/19	HF0321.D	07/03/2025	20:11
16MW8	410-229895-2	HF0328.D	07/03/2025	22:40
16-2	410-229895-7	HF0329.D	07/03/2025	23:01
16-3	410-229895-8	HF0330.D	07/03/2025	23:23

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HG0850.D DFTPP Injection Date: 07/08/2025

Instrument ID: HP18831 DFTPP Injection Time: 20:14

Analysis Batch No.: 668512

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	49.6	
68	Less than 2% of mass 69	0.7	(1.6) 1
69	Mass 69 Relative abundance	43.8	
70	Less than 2% of mass 69	0.3	(0.7) 1
127	10-80% of Base Peak	47.1	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	25.9	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	14.3	(14.9) 2
442	Greater than 50% of mass 198	95.7	
443	15-24% of mass 442	17.5	(18.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-668512/2	HG0851.D	07/08/2025	20:38
	CCV 410-668512/4	HG0852.D	07/08/2025	21:06
16-5	410-229895-9	HG0870.D	07/09/2025	3:30
16WC2B	410-229895-10	HG0871.D	07/09/2025	3:51
16SPRING	410-229895-11	HG0872.D	07/09/2025	4:12

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HG0900.D DFTPP Injection Date: 07/09/2025

Instrument ID: HP18831 DFTPP Injection Time: 09:05

Analysis Batch No.: 668774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	55.3	
68	Less than 2% of mass 69	0.8	(1.8) 1
69	Mass 69 Relative abundance	47.6	
70	Less than 2% of mass 69	0.1	(0.2) 1
127	10-80% of Base Peak	50.6	
197	Less than 2% of mass 198	1.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	24.8	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	13.3	(15.6) 2
442	Greater than 50% of mass 198	85.1	
443	15-24% of mass 442	16.0	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-668774/2	HG0901.D	07/09/2025	9:26
	MB 410-666606/1-A	HG0904.D	07/09/2025	11:15
	LCS 410-666606/2-A	HG0905.D	07/09/2025	11:36
16WC1A	410-229895-4	HG0911.D	07/09/2025	14:34
16WC1A MS	410-229895-4 MS	HG0912.D	07/09/2025	14:55
16WC1A MSD	410-229895-4 MSD	HG0913.D	07/09/2025	15:17
16C1	410-229895-1	HG0924.D	07/09/2025	19:13
16MW9	410-229895-3	HG0925.D	07/09/2025	19:34
16WDUP	410-229895-5	HG0926.D	07/09/2025	19:56
16WC1B	410-229895-6	HG0927.D	07/09/2025	20:17

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: ICIS 410-661633/2 Date Analyzed: 06/23/2025 20:42

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF2351.D Heated Purge: (Y/N) N

Calibration ID: 74017

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		181463	4.53	770741	5.78	500342	7.52
UPPER LIMIT		362926	5.03	1541482	6.28	1000684	8.02
LOWER LIMIT		90732	4.03	385371	5.28	250171	7.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-661633/12		234353	4.53	992854	5.78	619056	7.52
ICV 410-661953/3		191957	4.53	789503	5.78	506875	7.52
ICV 410-661953/4		196976	4.53	809040	5.78	531437	7.52
CCVIS 410-666539/2		141415	4.45	645881	5.69	438474	7.44
CCVIS 410-668512/2		159935	4.45	732906	5.69	495411	7.44
CCVIS 410-668774/2		265771	4.45	1148231	5.69	761884	7.44

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: ICIS 410-661633/2 Date Analyzed: 06/23/2025 20:42

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF2351.D Heated Purge: (Y/N) N

Calibration ID: 74017

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		997272	8.99	1134927	10.39	1210811	13.88
UPPER LIMIT		1994544	9.49	2269854	10.89	2421622	14.38
LOWER LIMIT		498636	8.49	567464	9.89	605406	13.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-661633/12		1268761	8.98	1443662	10.39	1485625	13.88
ICV 410-661953/3		1067519	8.98	1184230	10.39	1103087	13.87
ICV 410-661953/4		1119321	8.98	1234179	10.39	1167352	13.87
CCVIS 410-666539/2		932709	8.90	1072474	10.30	1187532	13.75
CCVIS 410-668512/2		1017418	8.90	1189888	10.30	1294254	13.75
CCVIS 410-668774/2		1545877	8.90	1670919	10.30	1668151	13.75

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-666539/2 Date Analyzed: 07/03/2025 12:04

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF0301a.D Heated Purge: (Y/N) N

Calibration ID: 74181

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		141415	4.45	645881	5.69	438474	7.44
UPPER LIMIT		282830	4.95	1291762	6.19	876948	7.94
LOWER LIMIT		70708	3.95	322941	5.19	219237	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666257/1-A		102177	4.45	427292	5.69	291164	7.43
LCS 410-666257/2-A		115432	4.45	488472	5.69	355210	7.44
LCSD 410-666257/3-A		91690	4.45	414161	5.69	289681	7.43
CCVC 410-666539/19		158351	4.45	688856	5.69	461504	7.44
410-229895-2	16MW8	101843	4.45	430476	5.69	281078	7.43
410-229895-7	16-2	110869	4.45	448086	5.69	298496	7.43
410-229895-8	16-3	85549	4.45	377729	5.69	262679	7.43

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-666539/2 Date Analyzed: 07/03/2025 12:04

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF0301a.D Heated Purge: (Y/N) N

Calibration ID: 74181

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		932709	8.90	1072474	10.30	1187532	13.75
UPPER LIMIT		1865418	9.40	2144948	10.80	2375064	14.25
LOWER LIMIT		466355	8.40	536237	9.80	593766	13.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666257/1-A		606362	8.90	685407	10.30	751874	13.75
LCS 410-666257/2-A		726946	8.90	833756	10.30	898913	13.75
LCSD 410-666257/3-A		613354	8.90	726973	10.30	847541	13.75
CCVC 410-666539/19		949020	8.90	1067538	10.30	1183565	13.75
410-229895-2	16MW8	591337	8.90	678861	10.30	823415	13.75
410-229895-7	16-2	612897	8.90	710205	10.30	818020	13.75
410-229895-8	16-3	571647	8.90	666312	10.30	778428	13.75

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668512/2 Date Analyzed: 07/08/2025 20:38

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0851.D Heated Purge: (Y/N) N

Calibration ID: 74181

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		159935	4.45	732906	5.69	495411	7.44
UPPER LIMIT		319870	4.95	1465812	6.19	990822	7.94
LOWER LIMIT		79968	3.95	366453	5.19	247706	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-229895-9	16-5	138719	4.45	588688	5.69	402602	7.43
410-229895-10	16WC2B	148210	4.45	618616	5.69	404407	7.43
410-229895-11	16SPRING	152880	4.45	633040	5.69	431885	7.43

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668512/2 Date Analyzed: 07/08/2025 20:38

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0851.D Heated Purge: (Y/N) N

Calibration ID: 74181

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1017418	8.90	1189888	10.30	1294254	13.75
UPPER LIMIT		2034836	9.40	2379776	10.80	2588508	14.25
LOWER LIMIT		508709	8.40	594944	9.80	647127	13.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-229895-9	16-5	839828	8.90	968528	10.30	1039935	13.75
410-229895-10	16WC2B	868725	8.90	986718	10.30	985241	13.75
410-229895-11	16SPRING	914374	8.90	1034750	10.30	1059767	13.75

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668774/2 Date Analyzed: 07/09/2025 09:26

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0901.D Heated Purge: (Y/N) N

Calibration ID: 74181

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		265771	4.45	1148231	5.69	761884	7.44
UPPER LIMIT		531542	4.95	2296462	6.19	1523768	7.94
LOWER LIMIT		132886	3.95	574116	5.19	380942	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666606/1-A		167264	4.45	699053	5.69	445744	7.43
LCS 410-666606/2-A		195294	4.45	815872	5.69	521994	7.43
410-229895-4	16WC1A	271003	4.45	1088283	5.69	679557	7.43
410-229895-4 MS	16WC1A MS	178766	4.45	785065	5.69	521358	7.43
410-229895-4 MSD	16WC1A MSD	182239	4.45	783446	5.69	505278	7.43
410-229895-1	16C1	176805	4.45	726880	5.69	473424	7.43
410-229895-3	16MW9	268483	4.45	1067293	5.69	652746	7.43
410-229895-5	16WDUP	202660	4.45	806425	5.69	504928	7.43
410-229895-6	16WC1B	231121	4.45	947122	5.69	584859	7.43

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668774/2 Date Analyzed: 07/09/2025 09:26

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0901.D Heated Purge: (Y/N) N

Calibration ID: 74181

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1545877	8.90	1670919	10.30	1668151	13.75
UPPER LIMIT		3091754	9.40	3341838	10.80	3336302	14.25
LOWER LIMIT		772939	8.40	835460	9.80	834076	13.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666606/1-A		894356	8.90	971842	10.30	914158	13.75
LCS 410-666606/2-A		1005653	8.90	1082512	10.30	1042765	13.75
410-229895-4	16WC1A	1331503	8.90	1409507	10.30	1114223	13.75
410-229895-4 MS	16WC1A MS	999501	8.90	1088174	10.30	1073276	13.75
410-229895-4 MSD	16WC1A MSD	987547	8.90	1061851	10.30	1002992	13.75
410-229895-1	16C1	956283	8.90	1053004	10.30	1008454	13.75
410-229895-3	16MW9	1242052	8.90	1283616	10.30	950437	13.75
410-229895-5	16WDUP	1026381	8.90	1122813	10.30	1016889	13.75
410-229895-6	16WC1B	1118364	8.90	1230342	10.30	1055208	13.75

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16C1
Lab Sample ID: 410-229895-1

Matrix: Water
Lab File ID: HG0924.D

Analysis Method: 8270E
Date Collected: 06/26/2025 12:15

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 244.6(mL)
Date Analyzed: 07/09/2025 19:13

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	84		13-134
321-60-8	2-Fluorobiphenyl (Surr)	83		45-120
367-12-4	2-Fluorophenol (Surr)	57		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	91		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	96		26-123
4165-62-2	Phenol-d5 (Surr)	45		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0924.D				
Lims ID:	410-229895-H-1-A				
Client ID:	16C1				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:13:30	ALS Bottle#:	24	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-1-A				
Misc. Info.:	410-0152870-029				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: W6ZA		Date:	10-Jul-2025 13:10:44		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	597869	14.2	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	664152	11.3	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	176805	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1178000	22.7	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	726880	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2652252	20.8	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	94	473424	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	96	416453	21.0	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	956283	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1053004	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4084227	23.9	
* 159 Perylene-d12	264	13.745	13.751	-0.006	98	1008454	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

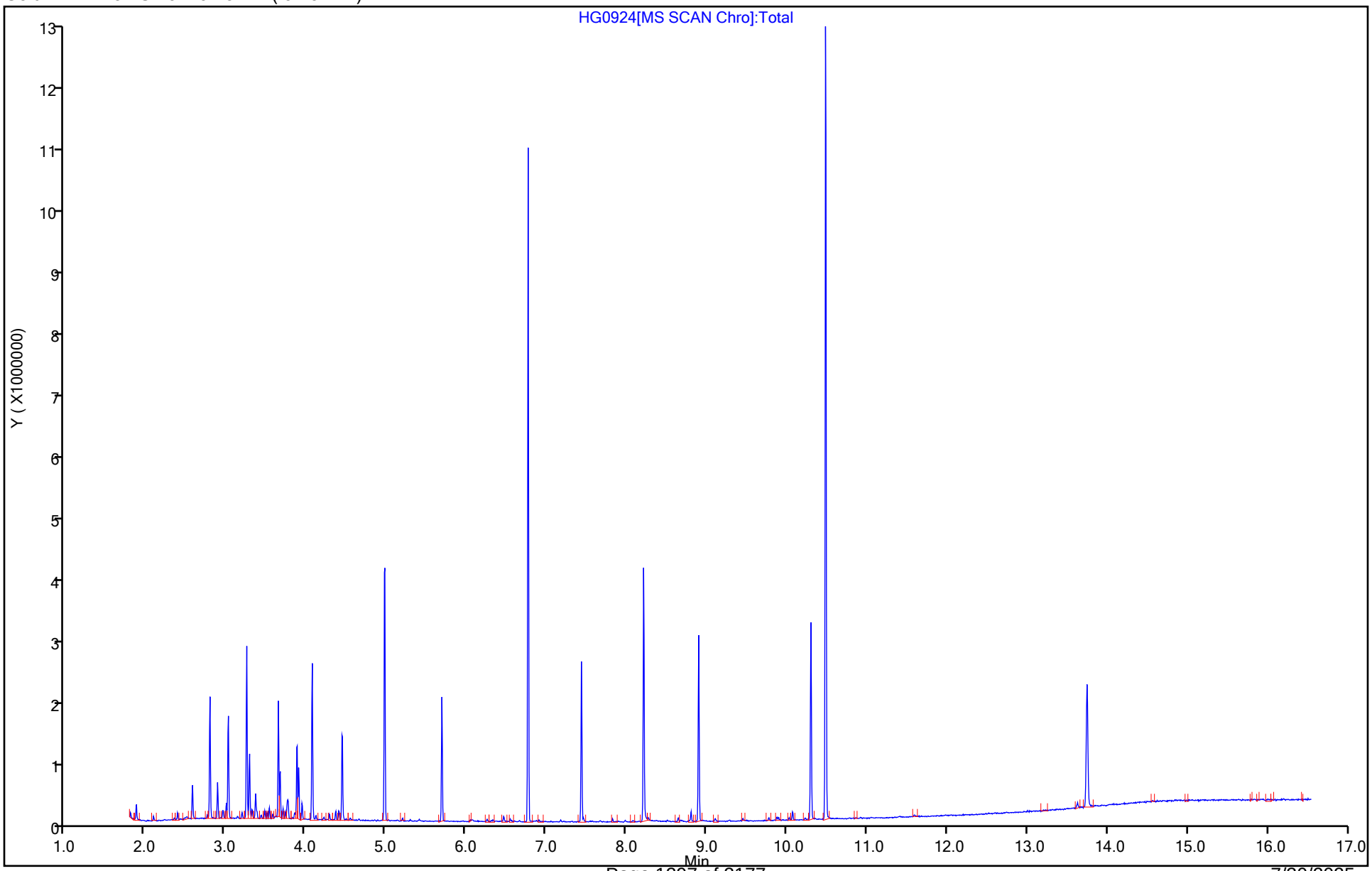
Report Date: 10-Jul-2025 13:15:26 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0924.D

Injection Date:	09-Jul-2025 19:13:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-1-A	Lab Sample ID:	410-229895-1	Worklist Smp#:	29
Client ID:	16C1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0924.D				
Lims ID:	410-229895-H-1-A				
Client ID:	16C1				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:13:30	ALS Bottle#:	24	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-1-A				
Misc. Info.:	410-0152870-029				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:10:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	14.2	56.69
$ 16 Phenol-d5	25.0	11.3	45.26
$ 41 Nitrobenzene-d5	25.0	22.7	90.89
$ 76 2-Fluorobiphenyl (Surr)	25.0	20.8	83.03
$ 113 2,4,6-Tribromophenol	25.0	21.0	83.94
$ 142 p-Terphenyl-d14	25.0	23.9	95.52

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW8
Lab Sample ID: 410-229895-2

Matrix: Water
Lab File ID: HF0328.D

Analysis Method: 8270E
Date Collected: 06/25/2025 12:05

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 245.1(mL)
Date Analyzed: 07/03/2025 22:40

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	72		13-134
321-60-8	2-Fluorobiphenyl (Surr)	85		45-120
367-12-4	2-Fluorophenol (Surr)	53		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	86		26-123
4165-62-2	Phenol-d5 (Surr)	38		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0328.D
Lims ID: 410-229895-E-2-A
Client ID: 16MW8
Sample Type: Client
Inject. Date: 03-Jul-2025 22:40:30 ALS Bottle#: 29 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-2-A
Misc. Info.: 410-0152352-029
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:26:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	321072	13.2	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	320170	9.47	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	101843	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	642603	20.9	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	430476	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1615723	21.3	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	281078	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	211276	17.9	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	591337	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	98	678861	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	2382366	21.6	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	823415	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

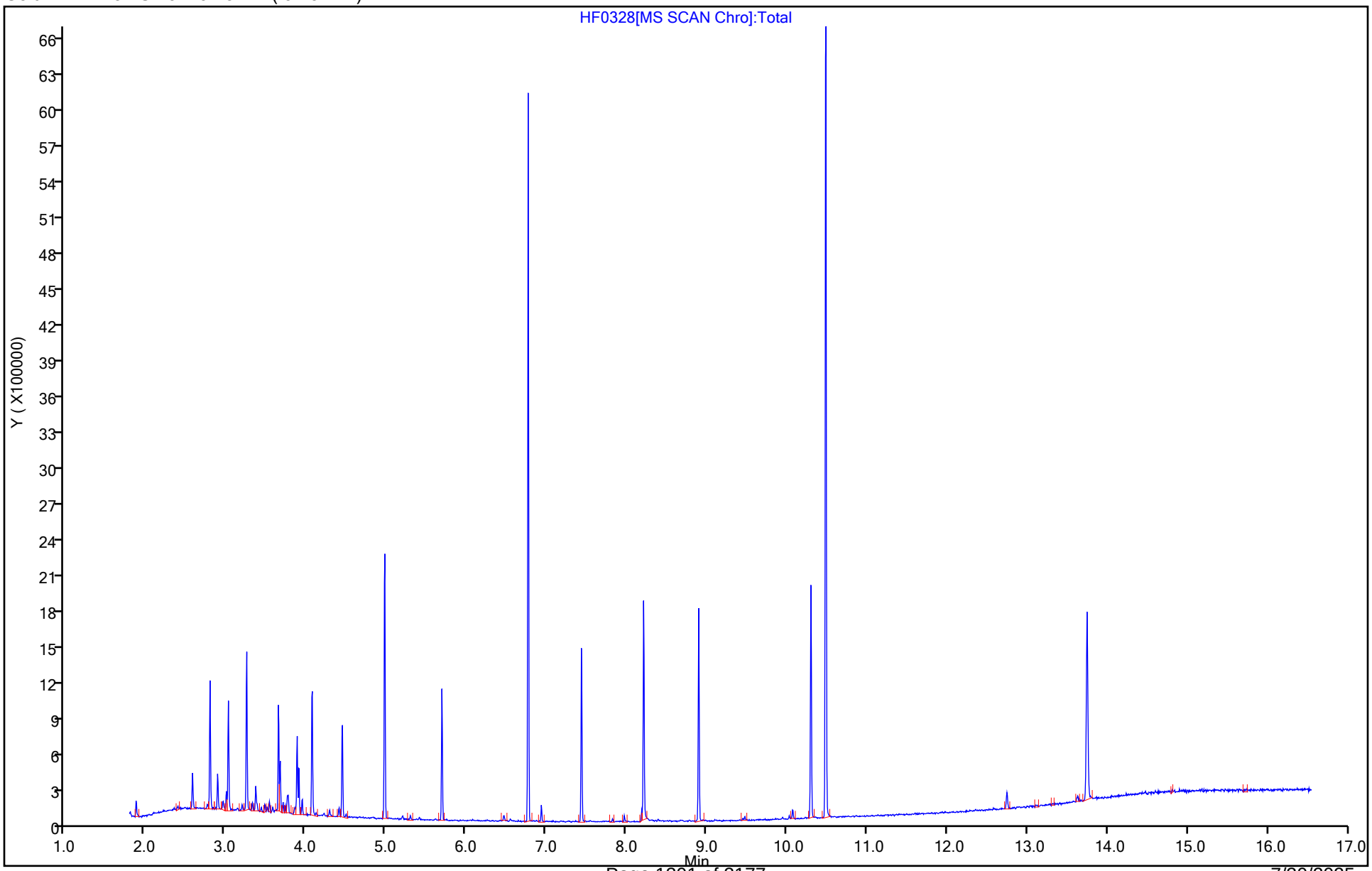
Report Date: 07-Jul-2025 11:29:38 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0328.D

Injection Date:	03-Jul-2025 22:40:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	410-229895-E-2-A	Lab Sample ID:	410-229895-2	Worklist Smp#:	29
Client ID:	16MW8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0328.D				
Lims ID:	410-229895-E-2-A				
Client ID:	16MW8				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 22:40:30	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-2-A				
Misc. Info.:	410-0152352-029				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:26:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	13.2	52.85
$ 16 Phenol-d5	25.0	9.47	37.88
$ 41 Nitrobenzene-d5	25.0	20.9	83.72
$ 76 2-Fluorobiphenyl (Surr)	25.0	21.3	85.19
$ 113 2,4,6-Tribromophenol	25.0	17.9	71.73
$ 142 p-Terphenyl-d14	25.0	21.6	86.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW9
Lab Sample ID: 410-229895-3

Matrix: Water
Lab File ID: HG0925.D

Analysis Method: 8270E
Date Collected: 06/26/2025 11:00

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 247.7(mL)
Date Analyzed: 07/09/2025 19:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	74		13-134
321-60-8	2-Fluorobiphenyl (Surr)	82		45-120
367-12-4	2-Fluorophenol (Surr)	48		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	87		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	101		26-123
4165-62-2	Phenol-d5 (Surr)	43		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D
Lims ID: 410-229895-Q-3-A
Client ID: 16MW9
Sample Type: Client
Inject. Date: 09-Jul-2025 19:34:30 ALS Bottle#: 25 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-Q-3-A
Misc. Info.: 410-0152870-030
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	763120	11.9	
$ 16 Phenol-d5	99	4.075	4.075	0.000	97	965596	10.8	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	268483	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1657609	21.8	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	1067293	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	3603070	20.5	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	95	652746	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	U
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	507892	18.6	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1242052	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1283616	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.480	0.000	98	5266565	25.3	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	950437	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

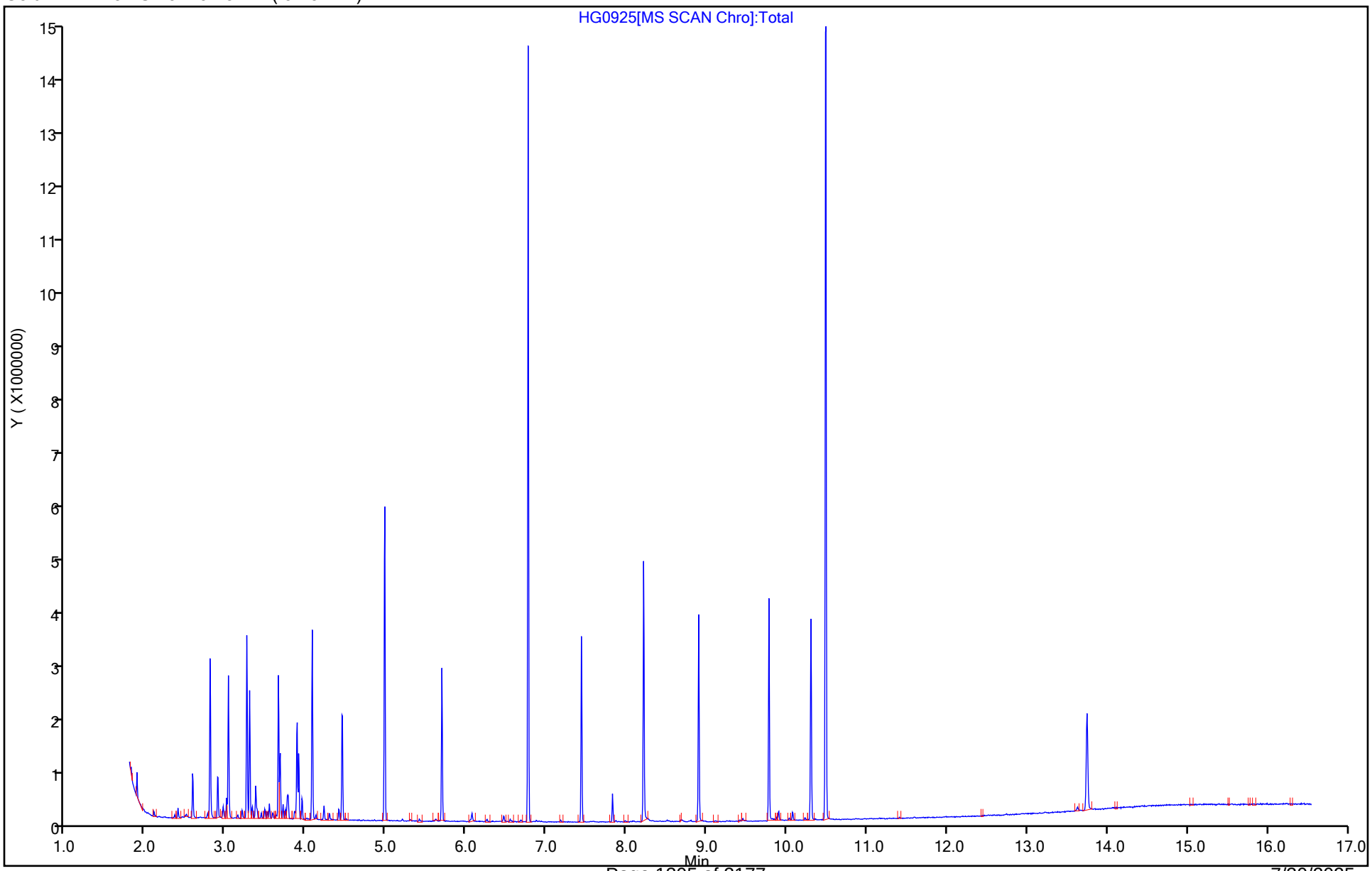
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:15:29 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D				
Injection Date:	09-Jul-2025 19:34:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-Q-3-A	Lab Sample ID:	410-229895-3	Worklist Smp#:	30
Client ID:	16MW9				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D				
Lims ID:	410-229895-Q-3-A				
Client ID:	16MW9				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:34:30	ALS Bottle#:	25	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-Q-3-A				
Misc. Info.:	410-0152870-030				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	11.9	47.65
$ 16 Phenol-d5	25.0	10.8	43.33
$ 41 Nitrobenzene-d5	25.0	21.8	87.11
$ 76 2-Fluorobiphenyl (Surr)	25.0	20.5	81.80
$ 113 2,4,6-Tribromophenol	25.0	18.6	74.25
$ 142 p-Terphenyl-d14	25.0	25.3	101.04

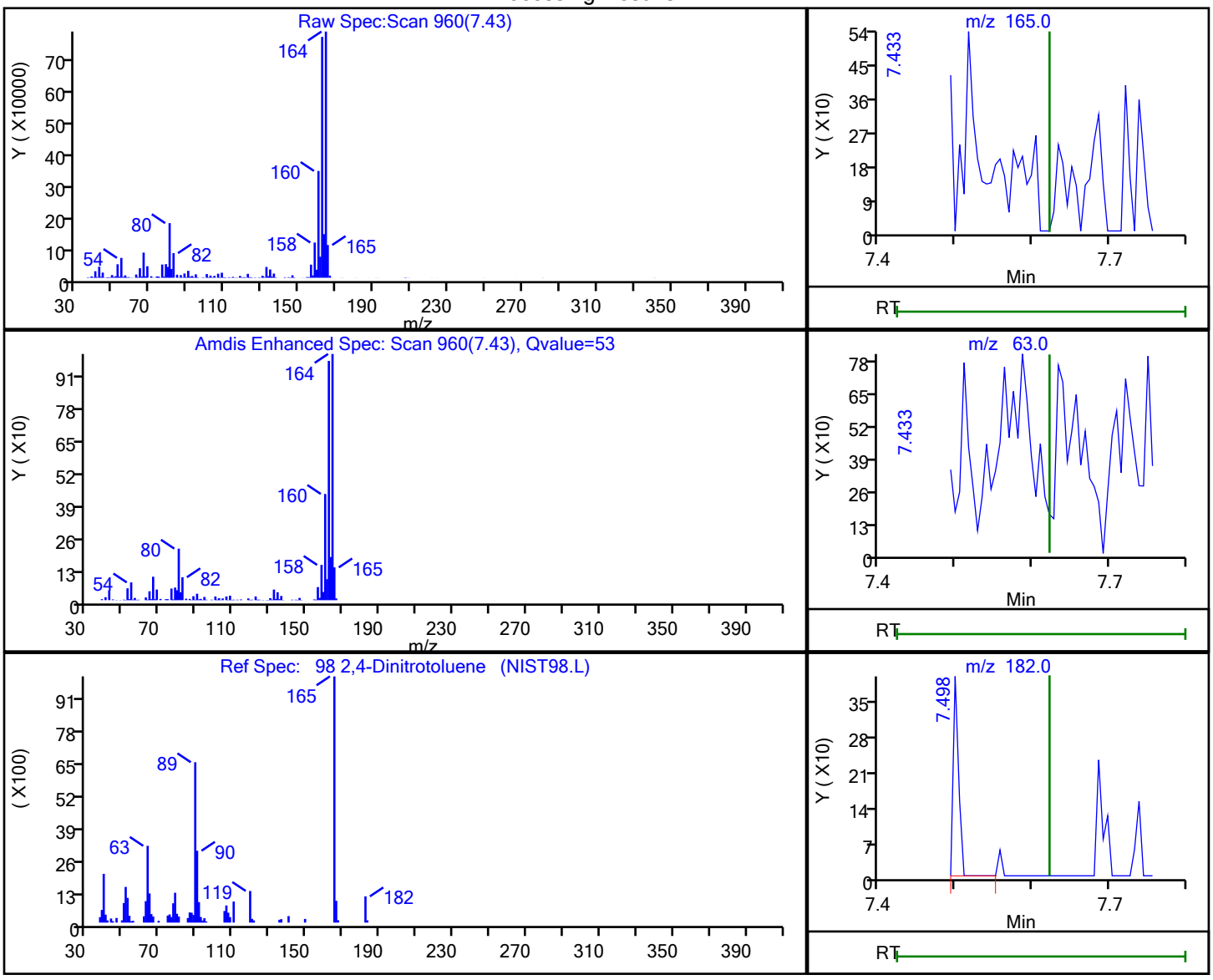
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D				
Injection Date:	09-Jul-2025 19:34:30	Instrument ID:	HP18831		
Lims ID:	410-229895-Q-3-A	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	eea115318_kel10217	ALS Bottle#:	25	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	85970	1.864624
7.43	63.00	1828	
7.50	182.00	191	
7.43	89.00	2021	

Reviewer: W6ZA, 10-Jul-2025 13:10:57 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4

Matrix: Water
Lab File ID: HG0911.D

Analysis Method: 8270E
Date Collected: 06/26/2025 09:45

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 247.2(mL)
Date Analyzed: 07/09/2025 14:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	22		13-134
321-60-8	2-Fluorobiphenyl (Surr)	77		45-120
367-12-4	2-Fluorophenol (Surr)	10		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	58		26-123
4165-62-2	Phenol-d5 (Surr)	6	S1-	10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0911.D
Lims ID: 410-229895-H-4-D
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 09-Jul-2025 14:34:30 ALS Bottle#: 11 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-H-4-D
Misc. Info.: 410-0152870-018
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:59:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	162451	2.51	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	134621	1.50	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	271003	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1584853	20.4	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	1088283	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	3529939	19.2	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	95	679557	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	96	160149	5.62	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1331503	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1409507	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	3343089	14.6	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1114223	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

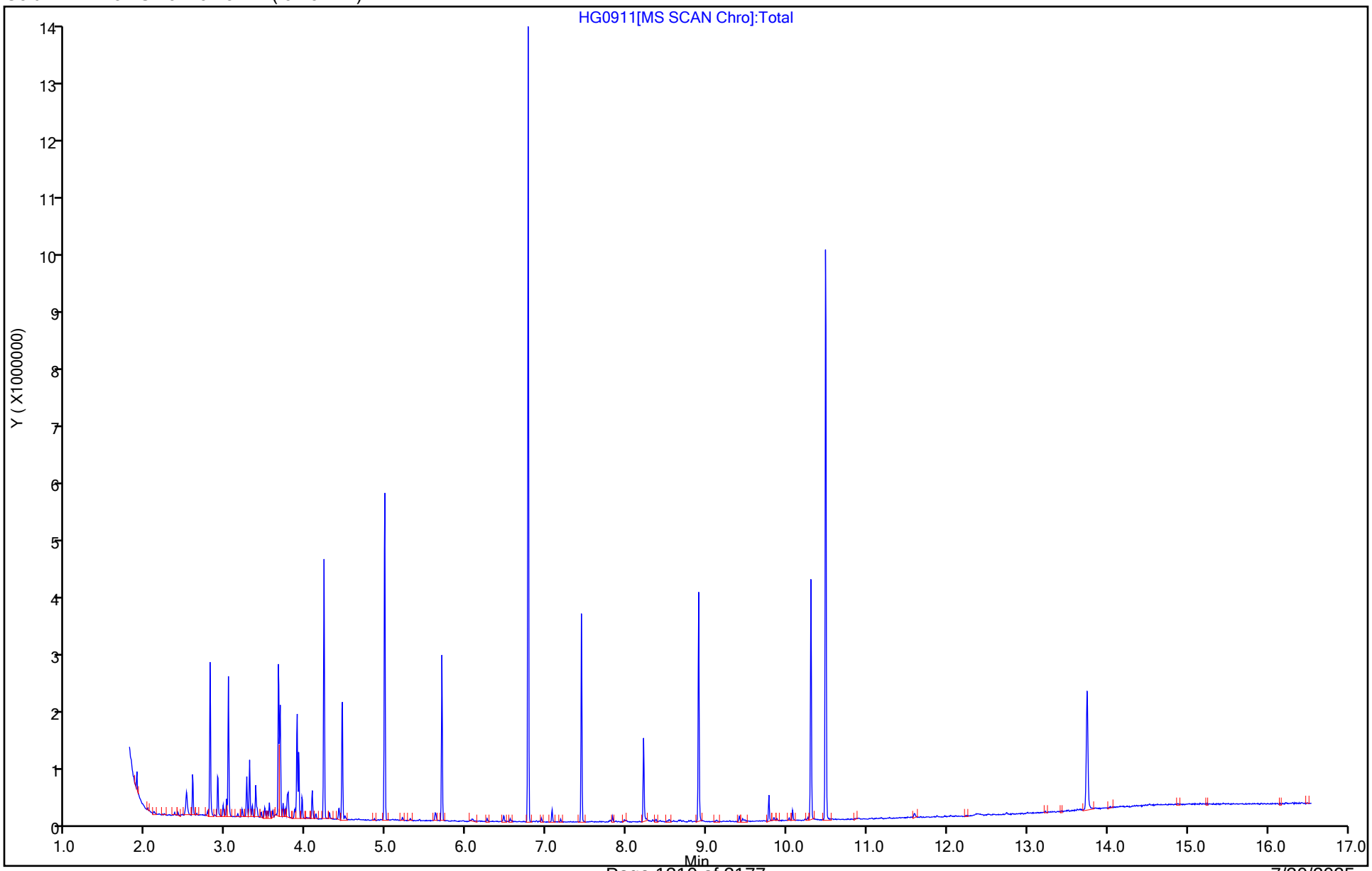
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:41 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0911.D				
Injection Date:	09-Jul-2025 14:34:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-4-D	Lab Sample ID:	410-229895-4	Worklist Smp#:	18
Client ID:	16WC1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0911.D				
Lims ID:	410-229895-H-4-D				
Client ID:	16WC1A				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 14:34:30	ALS Bottle#:	11	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-4-D				
Misc. Info.:	410-0152870-018				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:59:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	2.51	10.05
$ 16 Phenol-d5	25.0	1.50	5.99
$ 41 Nitrobenzene-d5	25.0	20.4	81.68
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.2	76.98
$ 113 2,4,6-Tribromophenol	25.0	5.62	22.49
$ 142 p-Terphenyl-d14	25.0	14.6	58.41

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5

Matrix: Water
Lab File ID: HG0926.D

Analysis Method: 8270E
Date Collected: 06/26/2025 09:00

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 247.4(mL)
Date Analyzed: 07/09/2025 19:56

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	34		13-134
321-60-8	2-Fluorobiphenyl (Surr)	87		45-120
367-12-4	2-Fluorophenol (Surr)	22		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	92		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	67		26-123
4165-62-2	Phenol-d5 (Surr)	19		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0926.D
Lims ID: 410-229895-E-5-A
Client ID: 16WDUP
Sample Type: Client
Inject. Date: 09-Jul-2025 19:56:30 ALS Bottle#: 26 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-5-A
Misc. Info.: 410-0152870-031
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	261194	5.40	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	319270	4.75	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	96	202660	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1320430	23.0	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	806425	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2949624	21.6	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	504928	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	178690	8.44	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1026381	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1122813	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	3067150	16.8	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1016889	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

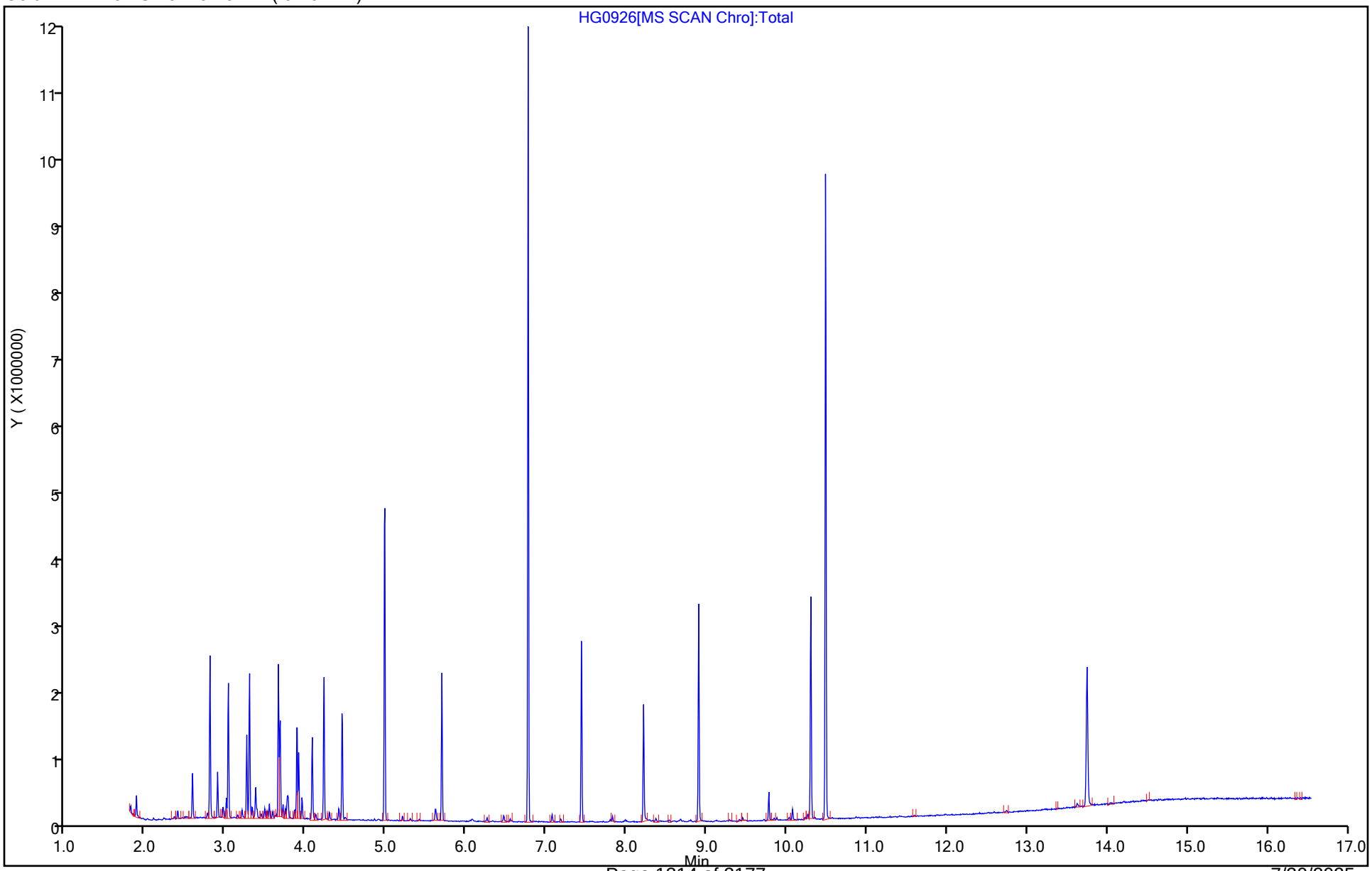
Report Date: 10-Jul-2025 13:15:32 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0926.D

Injection Date:	09-Jul-2025 19:56:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-E-5-A	Lab Sample ID:	410-229895-5	Worklist Smp#:	31
Client ID:	16WDUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0926.D				
Lims ID:	410-229895-E-5-A				
Client ID:	16WDUP				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:56:30	ALS Bottle#:	26	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-5-A				
Misc. Info.:	410-0152870-031				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	5.40	21.61
$ 16 Phenol-d5	25.0	4.75	18.98
$ 41 Nitrobenzene-d5	25.0	23.0	91.83
$ 76 2-Fluorobiphenyl (Surr)	25.0	21.6	86.57
$ 113 2,4,6-Tribromophenol	25.0	8.44	33.77
$ 142 p-Terphenyl-d14	25.0	16.8	67.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6

Matrix: Water
Lab File ID: HG0927.D

Analysis Method: 8270E
Date Collected: 06/26/2025 11:20

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 245.1(mL)
Date Analyzed: 07/09/2025 20:17

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	68		13-134
321-60-8	2-Fluorobiphenyl (Surr)	84		45-120
367-12-4	2-Fluorophenol (Surr)	35		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	88		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	87		26-123
4165-62-2	Phenol-d5 (Surr)	26		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0927.D				
Lims ID:	410-229895-E-6-A				
Client ID:	16WC1B				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 20:17:30	ALS Bottle#:	27	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-6-A				
Misc. Info.:	410-0152870-032				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: W6ZA		Date:	10-Jul-2025 13:11:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	486835	8.83	
$ 16 Phenol-d5	99	4.075	4.075	0.000	97	489373	6.38	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	231121	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1482095	21.9	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	947122	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	3331598	21.1	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	94	584859	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	415531	16.9	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1118364	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1230342	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4353223	21.8	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1055208	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

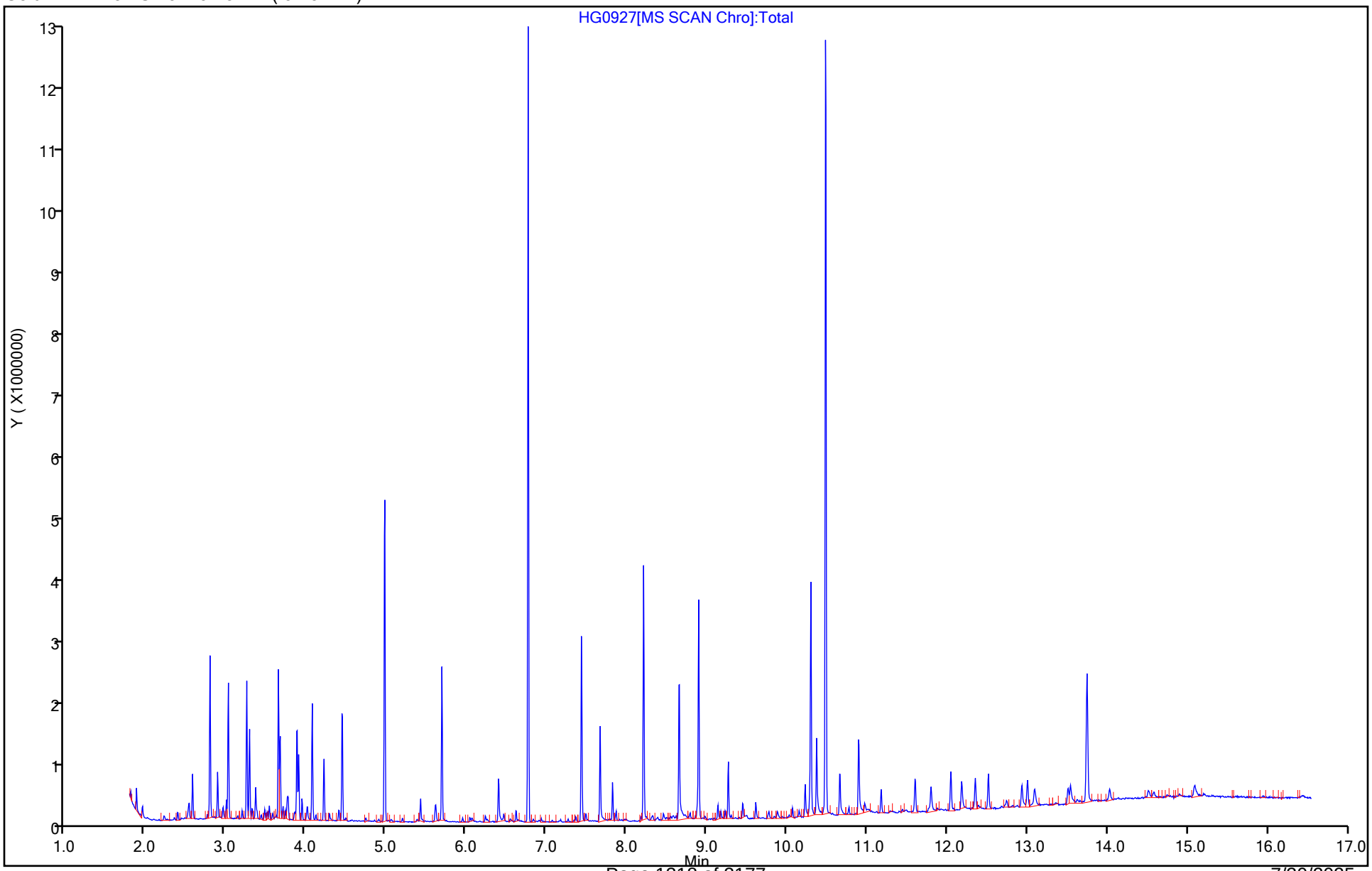
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:15:34 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0927.D				
Injection Date:	09-Jul-2025 20:17:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-E-6-A	Lab Sample ID:	410-229895-6	Worklist Smp#:	32
Client ID:	16WC1B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0927.D				
Lims ID:	410-229895-E-6-A				
Client ID:	16WC1B				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 20:17:30	ALS Bottle#:	27	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-6-A				
Misc. Info.:	410-0152870-032				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	8.83	35.31
$ 16 Phenol-d5	25.0	6.38	25.51
$ 41 Nitrobenzene-d5	25.0	21.9	87.76
$ 76 2-Fluorobiphenyl (Surr)	25.0	21.1	84.42
$ 113 2,4,6-Tribromophenol	25.0	16.9	67.80
$ 142 p-Terphenyl-d14	25.0	21.8	87.13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7

Matrix: Water
Lab File ID: HF0329.D

Analysis Method: 8270E
Date Collected: 06/25/2025 11:15

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 247.6(mL)
Date Analyzed: 07/03/2025 23:01

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	66		13-134
321-60-8	2-Fluorobiphenyl (Surr)	79		45-120
367-12-4	2-Fluorophenol (Surr)	49		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	108		26-123
4165-62-2	Phenol-d5 (Surr)	34		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D
Lims ID: 410-229895-E-7-A
Client ID: 16-2
Sample Type: Client
Inject. Date: 03-Jul-2025 23:01:30 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-7-A
Misc. Info.: 410-0152352-030
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	327326	12.4	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	311392	8.46	
* 23 1,4-Dichlorobenzene-d4	152	4.452	4.446	0.006	96	110869	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	627243	19.6	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	448086	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1594034	19.8	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	298496	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	U
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	205937	16.5	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	612897	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	98	710205	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	3105583	26.9	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	818020	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

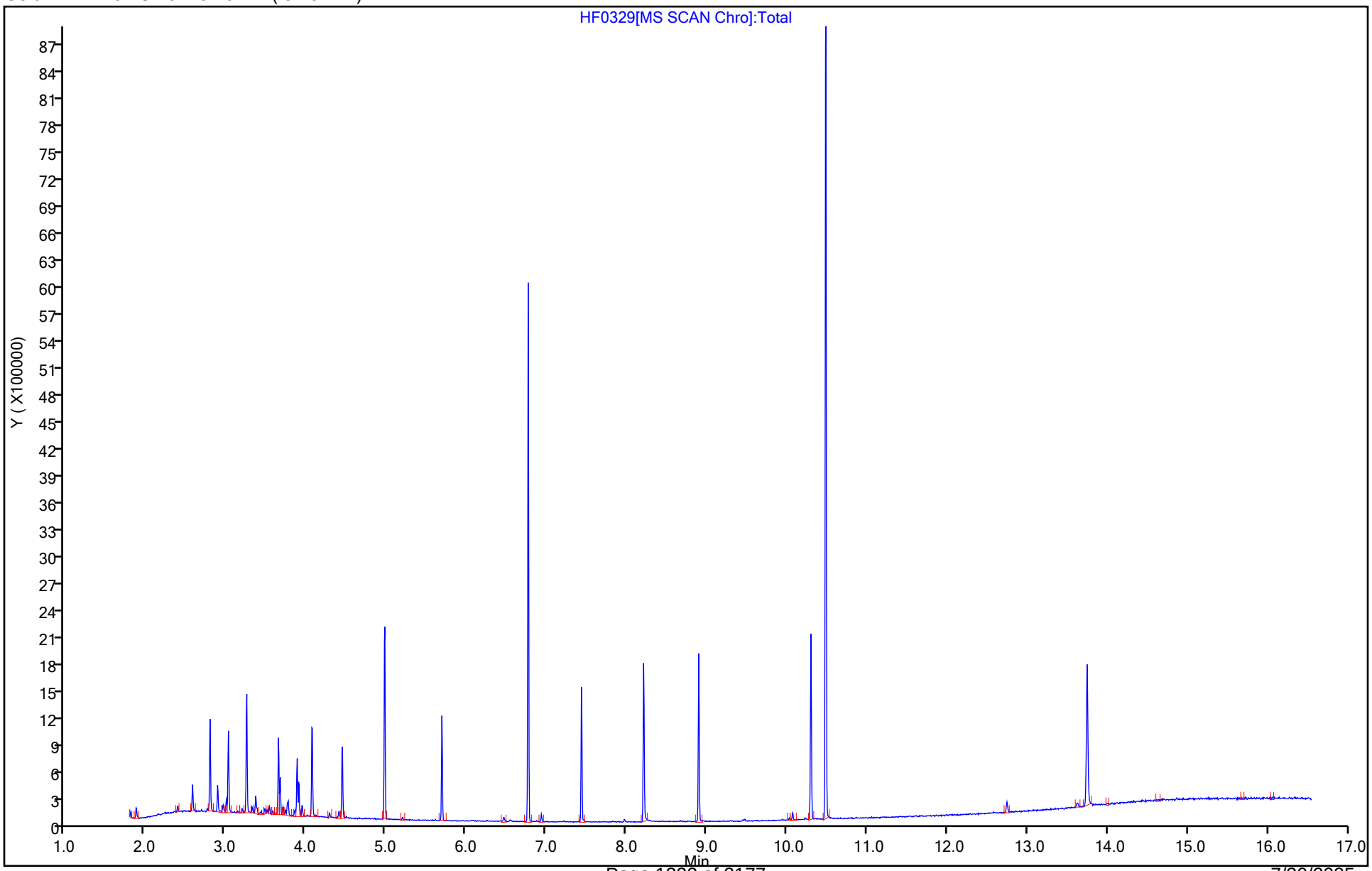
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Jul-2025 11:29:41 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D				
Injection Date:	03-Jul-2025 23:01:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	410-229895-E-7-A	Lab Sample ID:	410-229895-7	Worklist Smp#:	30
Client ID:	16-2				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D				
Lims ID:	410-229895-E-7-A				
Client ID:	16-2				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 23:01:30	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-7-A				
Misc. Info.:	410-0152352-030				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.4	49.49
$ 16 Phenol-d5	25.0	8.46	33.84
$ 41 Nitrobenzene-d5	25.0	19.6	78.51
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.8	79.14
$ 113 2,4,6-Tribromophenol	25.0	16.5	65.84
$ 142 p-Terphenyl-d14	25.0	26.9	107.69

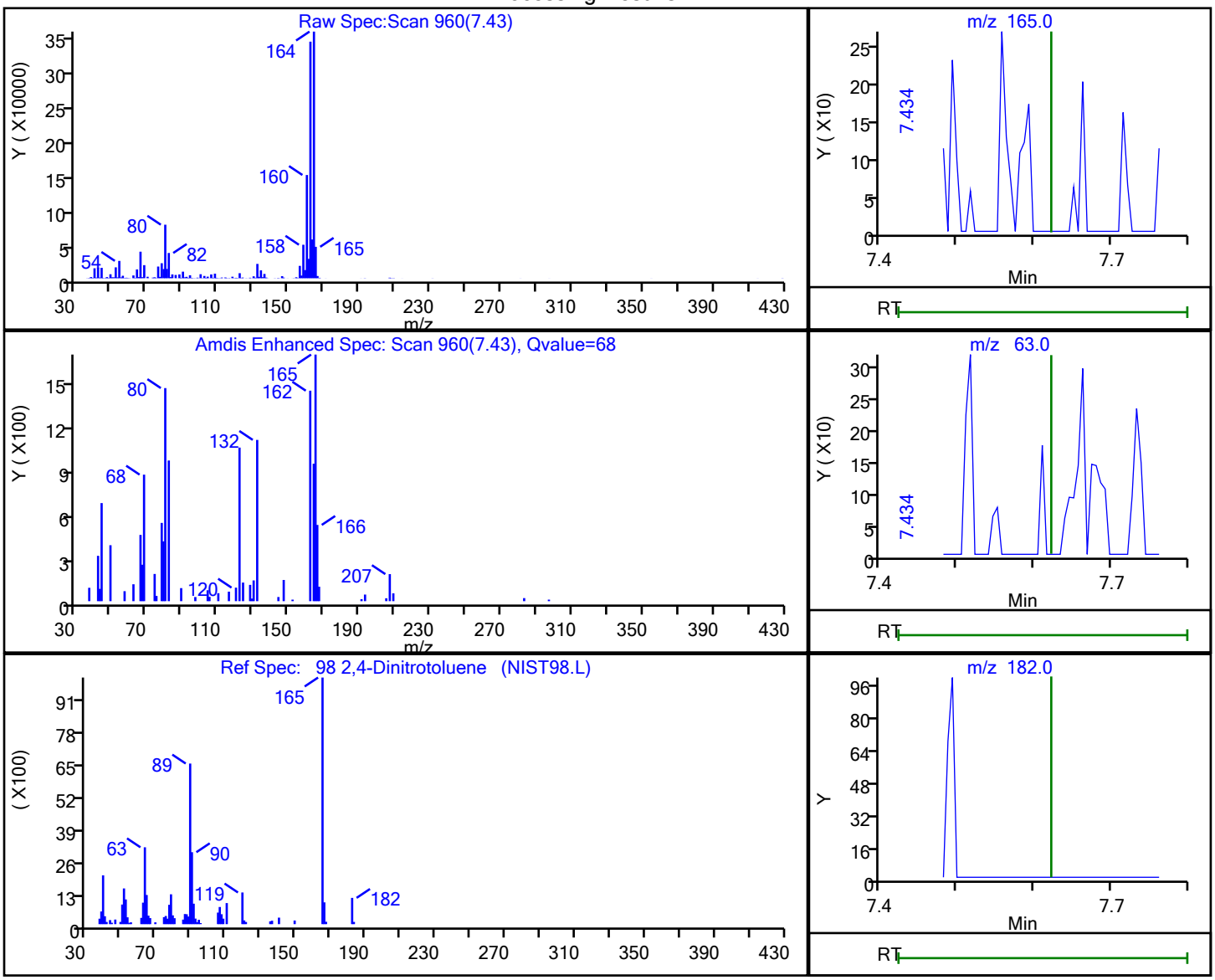
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D				
Injection Date:	03-Jul-2025 23:01:30	Instrument ID:	HP18831		
Lims ID:	410-229895-E-7-A	Lab Sample ID:	410-229895-7		
Client ID:	16-2				
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	36948	1.752431
7.43	63.00	595	
7.62	182.00	0	
7.43	89.00	647	

Reviewer: W6ZA, 07-Jul-2025 11:26:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-3
Lab Sample ID: 410-229895-8

Matrix: Water
Lab File ID: HF0330.D

Analysis Method: 8270E
Date Collected: 06/25/2025 13:00

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 246.8(mL)
Date Analyzed: 07/03/2025 23:23

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	63		13-134
321-60-8	2-Fluorobiphenyl (Surr)	80		45-120
367-12-4	2-Fluorophenol (Surr)	55		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	104		26-123
4165-62-2	Phenol-d5 (Surr)	38		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0330.D
Lims ID: 410-229895-E-8-A
Client ID: 16-3
Sample Type: Client
Inject. Date: 03-Jul-2025 23:23:30 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-8-A
Misc. Info.: 410-0152352-031
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	280295	13.7	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	273013	9.61	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	85549	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	566104	21.0	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	377729	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1423735	20.1	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	93	262679	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	172086	15.6	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	571647	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	666312	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	2803226	25.9	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	778428	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

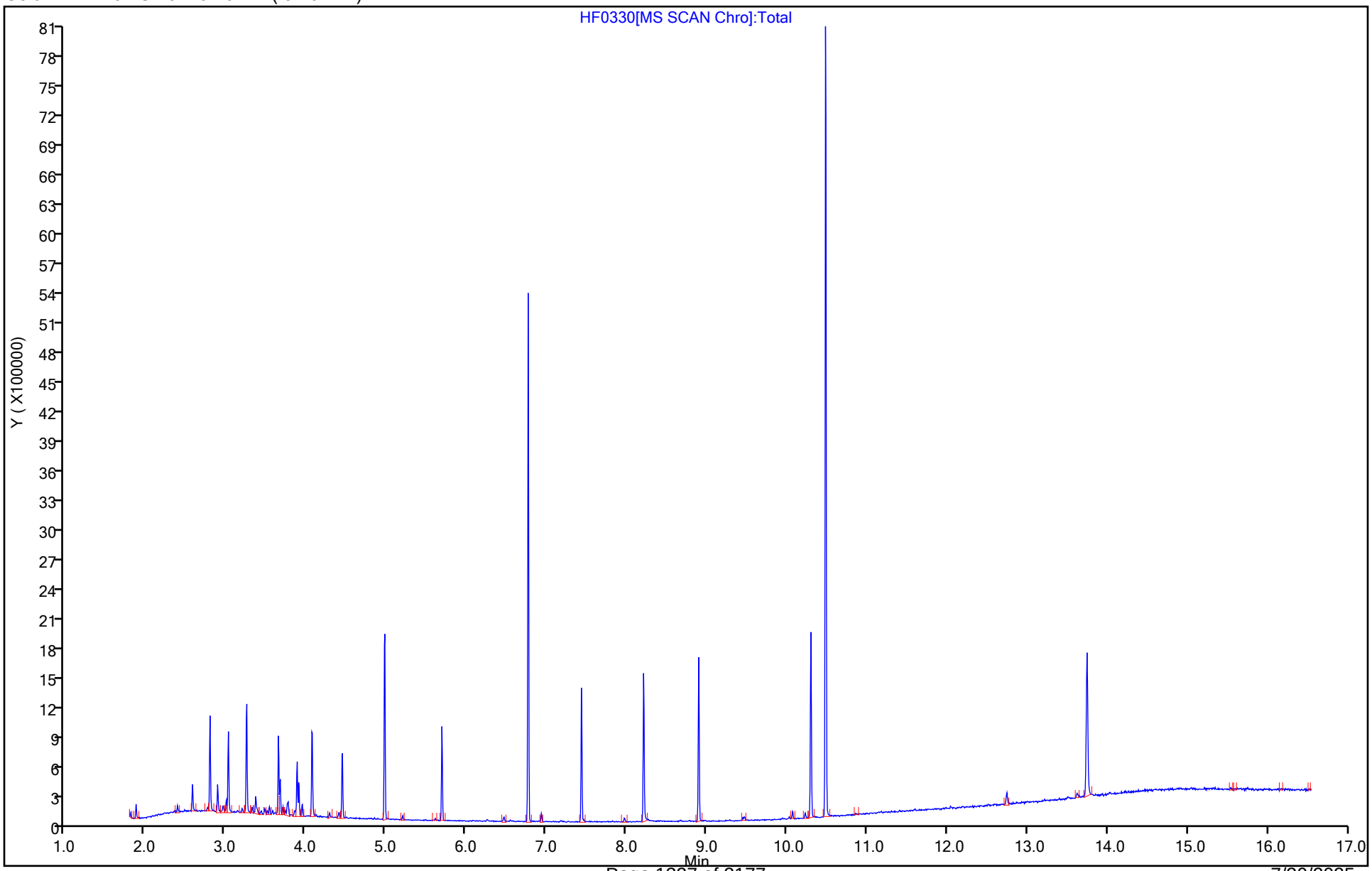
Report Date: 07-Jul-2025 11:29:43 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0330.D

Injection Date:	03-Jul-2025 23:23:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	410-229895-E-8-A	Lab Sample ID:	410-229895-8	Worklist Smp#:	31
Client ID:	16-3				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0330.D				
Lims ID:	410-229895-E-8-A				
Client ID:	16-3				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 23:23:30	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-8-A				
Misc. Info.:	410-0152352-031				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	13.7	54.93
$ 16 Phenol-d5	25.0	9.61	38.45
$ 41 Nitrobenzene-d5	25.0	21.0	84.06
$ 76 2-Fluorobiphenyl (Surr)	25.0	20.1	80.33
$ 113 2,4,6-Tribromophenol	25.0	15.6	62.52
$ 142 p-Terphenyl-d14	25.0	25.9	103.61

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-5
Lab Sample ID: 410-229895-9

Matrix: Water
Lab File ID: HG0870.D

Analysis Method: 8270E
Date Collected: 06/25/2025 09:15

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 246(mL)
Date Analyzed: 07/09/2025 03:30

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668512
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	64		13-134
321-60-8	2-Fluorobiphenyl (Surr)	76		45-120
367-12-4	2-Fluorophenol (Surr)	52		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	105		26-123
4165-62-2	Phenol-d5 (Surr)	36		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0870.D
Lims ID: 410-229895-E-9-A
Client ID: 16-5
Sample Type: Client
Inject. Date: 09-Jul-2025 03:30:30 ALS Bottle#: 19 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-9-A
Misc. Info.: 410-0152813-020
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Jul-2025 12:05:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.262	0.000	95	429849	13.0	
$ 16 Phenol-d5	99	4.075	4.081	0.000	96	415914	9.03	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	96	138719	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	806350	19.2	
* 54 Naphthalene-d8	136	5.693	5.692	0.000	100	588688	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	2063150	19.0	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.434	0.000	94	402602	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	96	268158	15.9	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	839828	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	968528	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	4143854	26.3	
* 159 Perylene-d12	264	13.745	13.745	0.000	99	1039935	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

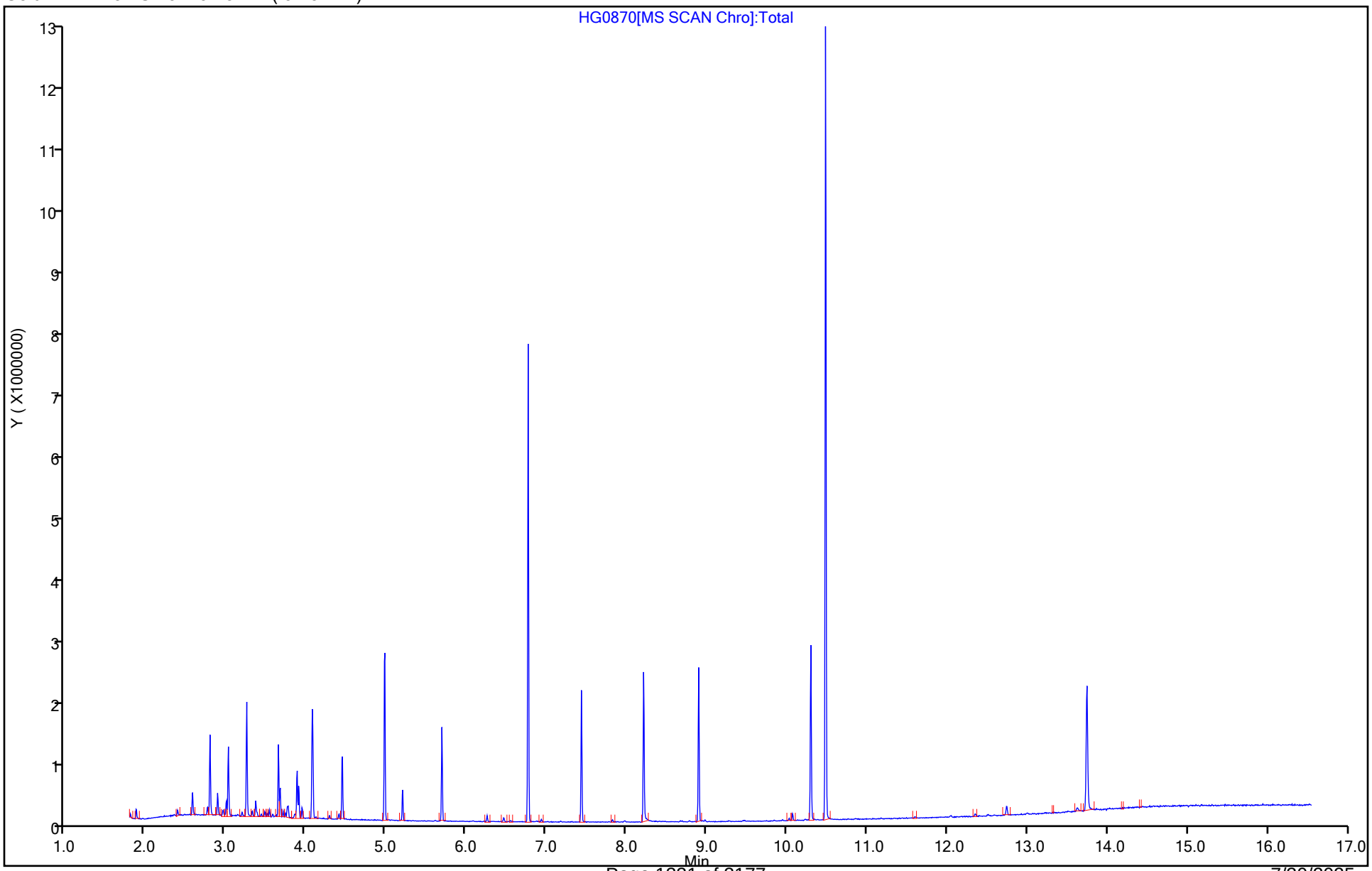
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 09-Jul-2025 12:06:21 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0870.D				
Injection Date:	09-Jul-2025 03:30:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	410-229895-E-9-A	Lab Sample ID:	410-229895-9	Worklist Smp#:	20
Client ID:	16-5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0870.D				
Lims ID:	410-229895-E-9-A				
Client ID:	16-5				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 03:30:30	ALS Bottle#:	19	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-9-A				
Misc. Info.:	410-0152813-020				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	13.0	51.95
$ 16 Phenol-d5	25.0	9.03	36.12
$ 41 Nitrobenzene-d5	25.0	19.2	76.82
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.0	75.95
$ 113 2,4,6-Tribromophenol	25.0	15.9	63.56
$ 142 p-Terphenyl-d14	25.0	26.3	105.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC2B
Lab Sample ID: 410-229895-10

Matrix: Water
Lab File ID: HG0871.D

Analysis Method: 8270E
Date Collected: 06/25/2025 10:20

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 246.6(mL)
Date Analyzed: 07/09/2025 03:51

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668512
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	52		13-134
321-60-8	2-Fluorobiphenyl (Surr)	69		45-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	67		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	90		26-123
4165-62-2	Phenol-d5 (Surr)	28		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D
Lims ID: 410-229895-E-10-A
Client ID: 16WC2B
Sample Type: Client
Inject. Date: 09-Jul-2025 03:51:30 ALS Bottle#: 20 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-10-A
Misc. Info.: 410-0152813-021
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Jul-2025 12:05:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.262	0.000	95	366318	10.4	
$ 16 Phenol-d5	99	4.075	4.081	0.000	96	347425	7.06	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	98	148210	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	736946	16.7	
* 54 Naphthalene-d8	136	5.692	5.692	0.000	100	618616	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1892623	17.3	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.434	0.000	95	404407	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	U
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	221298	13.1	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	868725	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	986718	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	3616739	22.6	
* 159 Perylene-d12	264	13.745	13.745	0.000	99	985241	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

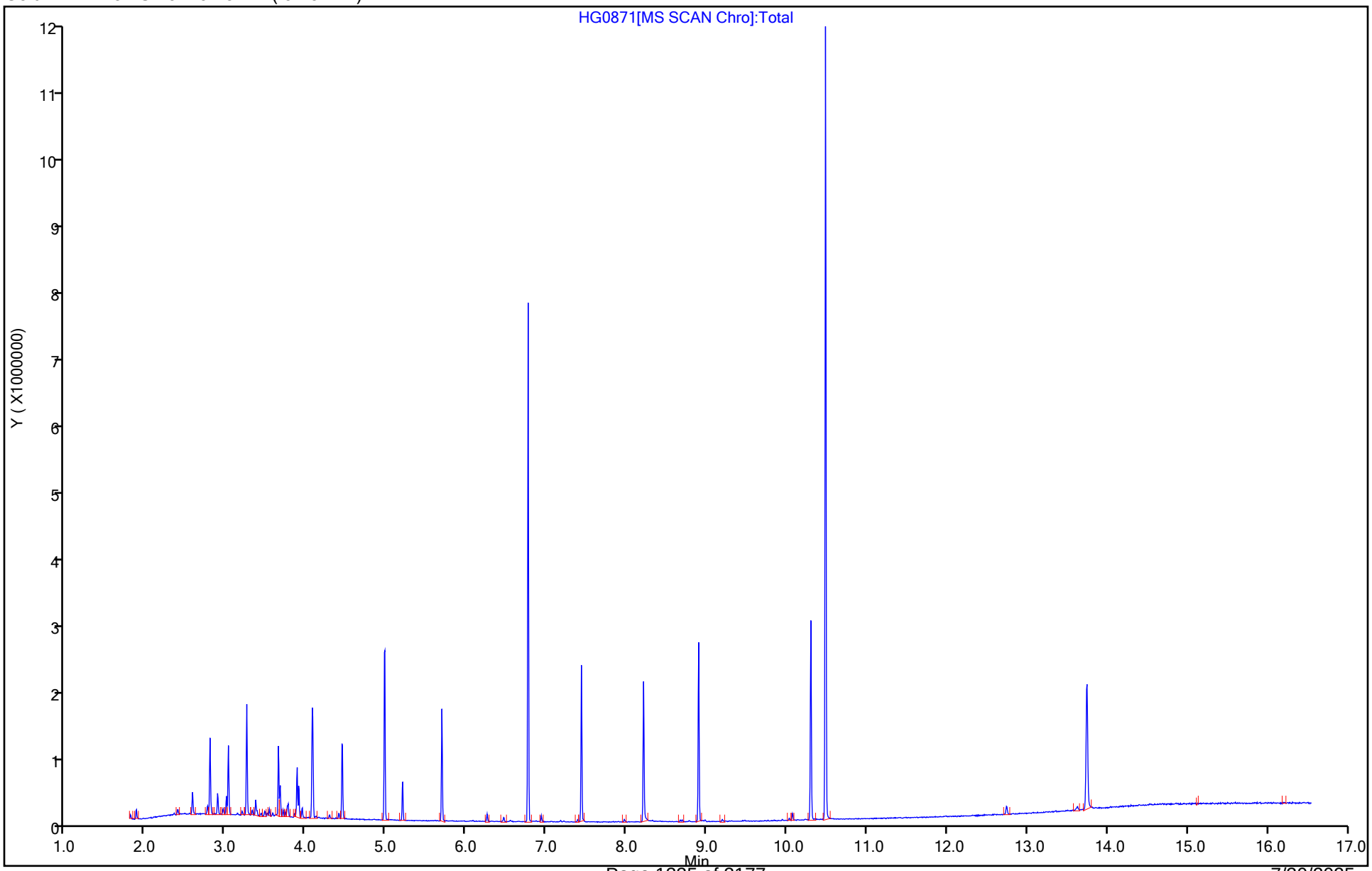
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 09-Jul-2025 12:06:25 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D				
Injection Date:	09-Jul-2025 03:51:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	410-229895-E-10-A	Lab Sample ID:	410-229895-10	Worklist Smp#:	21
Client ID:	16WC2B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D				
Lims ID:	410-229895-E-10-A				
Client ID:	16WC2B				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 03:51:30	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-10-A				
Misc. Info.:	410-0152813-021				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	10.4	41.43
$ 16 Phenol-d5	25.0	7.06	28.24
$ 41 Nitrobenzene-d5	25.0	16.7	66.81
$ 76 2-Fluorobiphenyl (Surr)	25.0	17.3	69.36
$ 113 2,4,6-Tribromophenol	25.0	13.1	52.22
$ 142 p-Terphenyl-d14	25.0	22.6	90.27

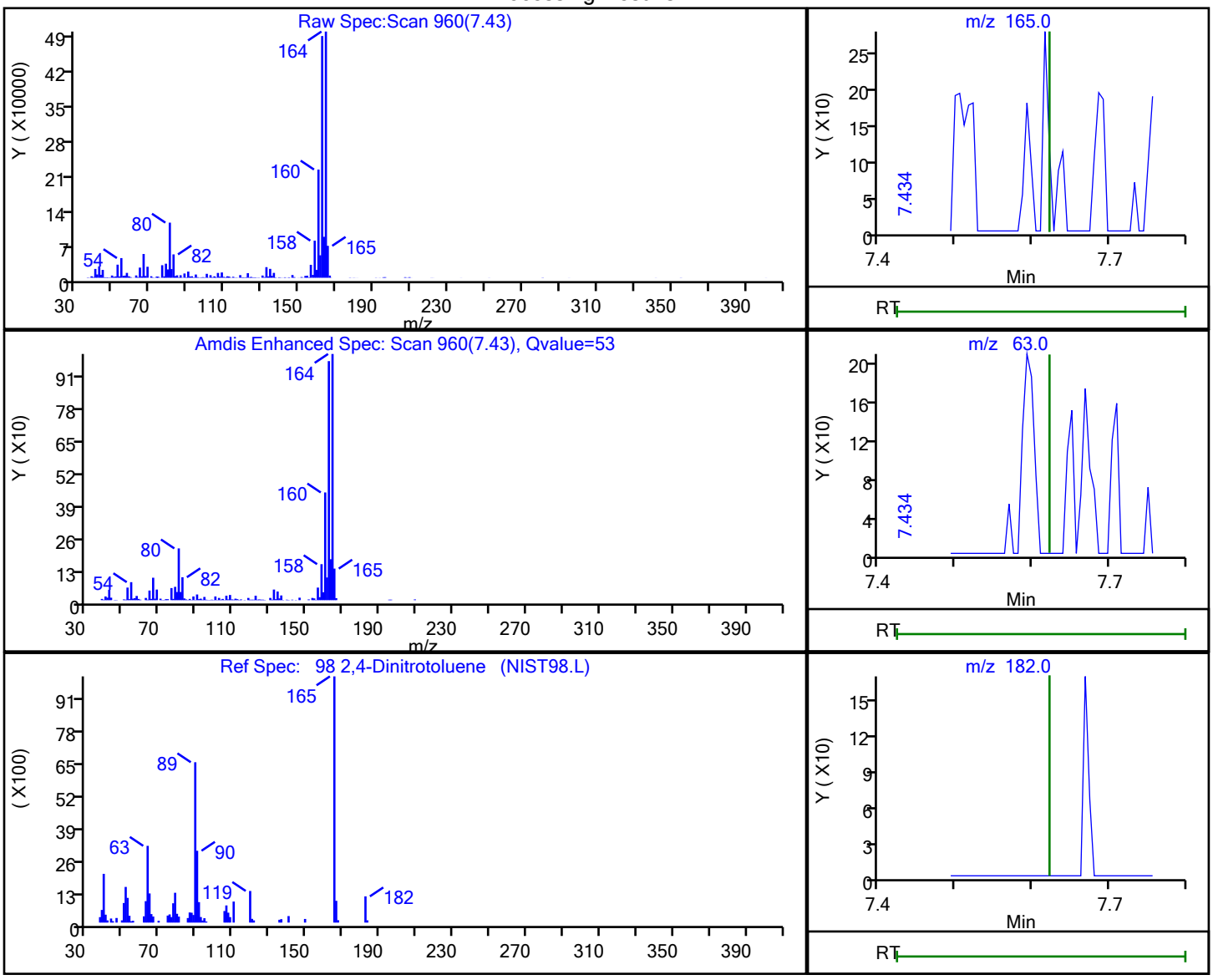
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D				
Injection Date:	09-Jul-2025 03:51:30	Instrument ID:	HP18831		
Lims ID:	410-229895-E-10-A	Lab Sample ID:	410-229895-10		
Client ID:	16WC2B				
Operator ID:	kel10217	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	51880	1.816226
7.43	63.00	1219	
7.43	89.00	1099	
7.62	182.00	0	

Reviewer: SJ89, 09-Jul-2025 12:00:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11

Matrix: Water
Lab File ID: HG0872.D

Analysis Method: 8270E
Date Collected: 06/25/2025 09:25

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 248.9(mL)
Date Analyzed: 07/09/2025 04:12

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668512
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	58		13-134
321-60-8	2-Fluorobiphenyl (Surr)	71		45-120
367-12-4	2-Fluorophenol (Surr)	44		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	71		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	99		26-123
4165-62-2	Phenol-d5 (Surr)	30		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0872.D
Lims ID: 410-229895-E-11-A
Client ID: 16SPRING
Sample Type: Client
Inject. Date: 09-Jul-2025 04:12:30 ALS Bottle#: 21 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-11-A
Misc. Info.: 410-0152813-022
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Jul-2025 12:05:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.262	0.000	94	397146	10.9	
$ 16 Phenol-d5	99	4.075	4.081	0.000	96	378090	7.45	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	96	152880	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	802589	17.8	
* 54 Naphthalene-d8	136	5.693	5.692	0.001	100	633040	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	2076017	17.8	
88 2,6-Dinitrotoluene	165		7.228				ND	
* 91 Acenaphthene-d10	164	7.434	7.434	0.000	95	431885	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	96	262499	14.5	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	914374	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1034750	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	4175898	24.8	
* 159 Perylene-d12	264	13.745	13.745	0.000	99	1059767	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

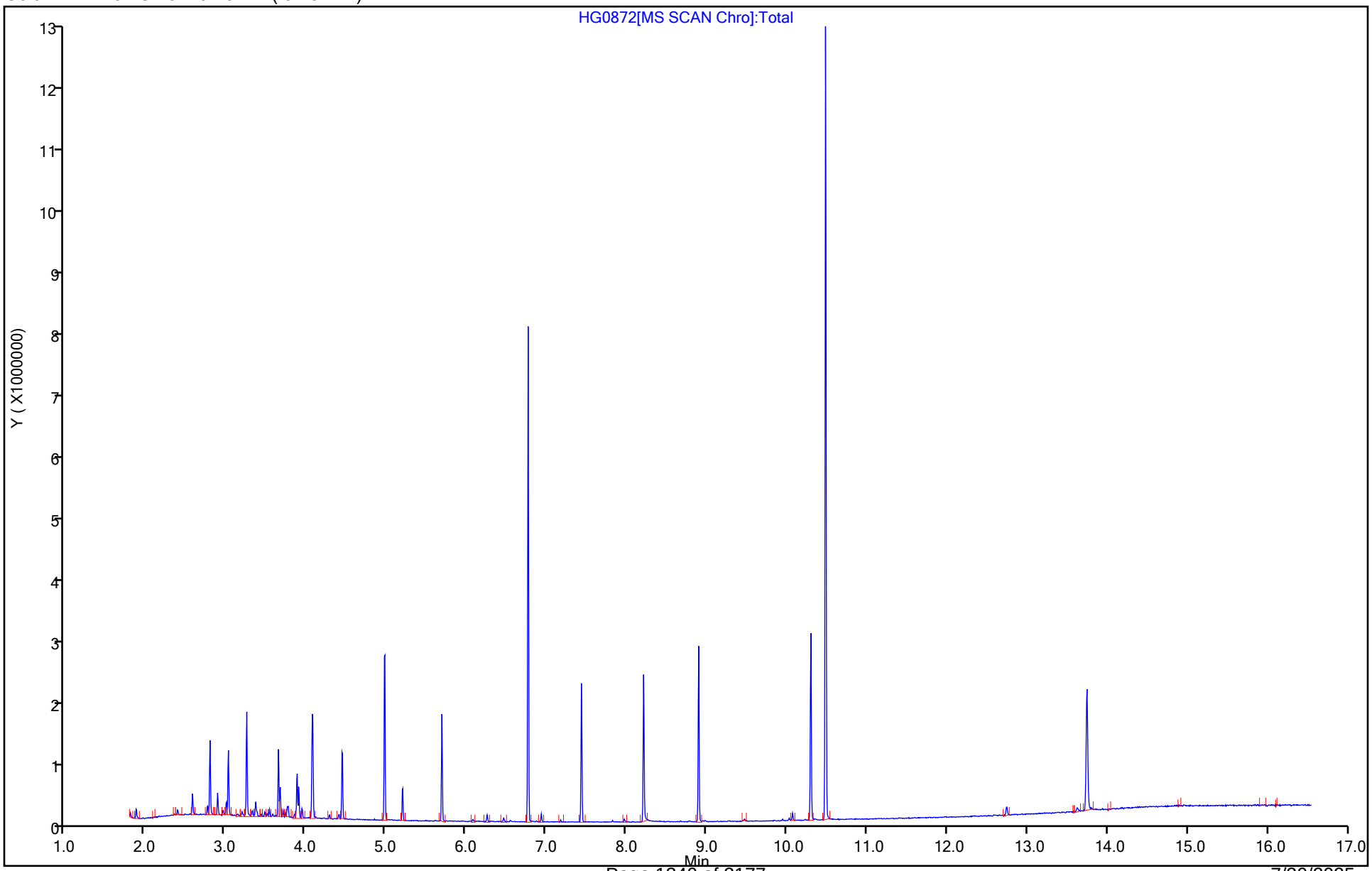
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 09-Jul-2025 12:06:31 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0872.D				
Injection Date:	09-Jul-2025 04:12:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	410-229895-E-11-A	Lab Sample ID:	410-229895-11	Worklist Smp#:	22
Client ID:	16SPRING				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0872.D				
Lims ID:	410-229895-E-11-A				
Client ID:	16SPRING				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 04:12:30	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-11-A				
Misc. Info.:	410-0152813-022				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	10.9	43.55
$ 16 Phenol-d5	25.0	7.45	29.80
$ 41 Nitrobenzene-d5	25.0	17.8	71.11
$ 76 2-Fluorobiphenyl (Surr)	25.0	17.8	71.24
$ 113 2,4,6-Tribromophenol	25.0	14.5	58.00
$ 142 p-Terphenyl-d14	25.0	24.8	99.38

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-661633/9	HF2358.D
Level 2	IC 410-661633/8	HF2357.D
Level 3	IC 410-661633/7	HF2356.D
Level 4	IC 410-661633/6	HF2355.D
Level 5	IC 410-661633/5	HF2354.D
Level 6	ICIS 410-661633/2	HF2351.D
Level 7	IC 410-661633/4	HF2353.D
Level 8	IC 410-661633/3	HF2352.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.4952	+++++ 0.4930	0.5611 0.5417	0.5480	0.5040	Ave		0.5238				5.7		20.0			
N-Nitrosodimethylamine	1.0055 0.9026	0.8641 0.8736	0.9117 0.9896	0.8810	0.8610	Ave		0.9111				6.2		20.0			
Pyridine	1.5887 1.4326	1.4094 1.3967	1.3851 1.5705	1.4274	1.3790	Ave		1.4487				5.7		20.0			
N,N-dimethylformamide	+++++ 1.0549	+++++ 1.0080	0.8252 1.1702	0.9478	0.9558	Ave		0.9936				11.7		20.0			
2-Picoline	1.4456 1.5271	1.3239 1.5010	1.5626 1.6602	1.4936	1.4467	Ave		1.4951				6.5		20.0			
N-Nitrosomethylethylamine	+++++ 0.6441	+++++ 0.6406	0.7562 0.7145	0.6682	0.6326	Ave		0.6760				7.3		20.0			
Methyl methanesulfonate	0.8029 0.8639	0.8218 0.8249	0.8343 0.9162	0.8569	0.8083	Ave		0.8412				4.4		20.0			
N-Nitrosodiethylamine	0.6994 0.6656	0.5717 0.6662	0.7046 0.7426	0.6496	0.6460	Ave		0.6682				7.6		20.0			
Ethyl methanesulfonate	0.7283 0.7416	0.8201 0.7401	0.7670 0.8042	0.7545	0.7117	Ave		0.7584				4.9		20.0			
Benzaldehyde	1.3659 1.2380	1.3873 1.2238	1.3166 1.2432	1.2280	1.1725	Ave		1.2719			0.0100	6.0		20.0			
Phenol	1.7652 1.8355	1.5509 1.8068	1.7018 1.9873	1.7579	1.7408	Ave		1.7683			0.8000	7.0		20.0			
Aniline	2.1265 2.2625	2.2352 2.1998	1.9889 2.4489	2.2237	2.1529	Ave		2.2048				5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Bis(2-chloroethyl)ether	1.5843 1.4443	1.4759 1.3868	1.3244 1.5067	1.4081	1.3492	Ave		1.4350			0.7000	6.0		20.0			
2-Chlorophenol	1.2895 1.3022	1.2364 1.3105	1.1718 1.4450	1.3012	1.2866	Ave		1.2929			0.8000	6.0		20.0			
1,3-Dichlorobenzene	1.4189 1.4484	1.5234 1.4338	1.4701 1.5688	1.4941	1.4500	Ave		1.4760				3.4		20.0			
1,4-Dichlorobenzene	1.6506 1.4727	1.5160 1.4673	1.5601 1.6223	1.5098	1.4638	Ave		1.5328				4.7		20.0			
Benzyl alcohol	0.9696 0.9603	0.9438 0.9550	0.8634 1.0469	0.9564	0.9057	Ave		0.9501				5.5		20.0			
1,2-Dichlorobenzene	1.5330 1.4171	1.3536 1.4280	1.4198 1.5581	1.4720	1.4291	Ave		1.4513				4.6		20.0			
2-Methylphenol	1.2815 1.3322	1.1910 1.3224	1.2210 1.4348	1.2454	1.2412	Ave		1.2837			0.7000	6.1		20.0			
2,2'-oxybis[1-chloropropane]	2.6139 2.2808	2.5290 2.2625	2.3187 2.4503	2.2972	2.1653	Ave		2.3647			0.0100	6.4		20.0			
N-Nitrosopyrrolidine	0.7037 0.8309	0.7037 0.8311	0.8654 0.8859	0.8386	0.7771	Ave		0.8046				8.7		20.0			
3,4-Methylphenol	1.1086 1.4254	1.2555 1.4010	1.2490 1.5187	1.3475	1.3272	Ave		1.3291			0.6000	9.5		20.0			
N-Nitrosodi-n-propylamine	1.2493 1.2270	1.3023 1.1788	1.1891 1.2544	1.1994	1.1614	Ave		1.2202			0.5000	3.8		20.0			
Acetophenone	2.1980 2.1748	2.1949 2.1014	2.0525 2.2411	2.2277	2.0875	Ave		2.1597			0.0100	3.2		20.0			
N-Nitrosomorpholine	1.3437 1.1074	1.2281 1.0572	1.1511 1.1220	1.1243	1.0355	Ave		1.1462				8.6		20.0			
2-Toluidine	2.4267 2.3166	2.1283 2.2724	2.3336 2.4196	2.3939	2.2390	Ave		2.3163				4.4		20.0			
Hexachloroethane	0.7732 0.5634	0.7115 0.5683	0.5875 0.6153	0.5790	0.5515	Ave		0.6187			0.3000	13.0		20.0			
Nitrobenzene	0.4005 0.3719	0.4505 0.3581	0.3568 0.3967	0.3736	0.3713	Ave		0.3849			0.2000	8.0		20.0			
N-Nitrosopiperidine	0.2096 0.1816	0.1929 0.1824	0.1886 0.1942	0.1857	0.1766	Ave		0.1890				5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isophorone	0.7746 0.7543	0.7343 0.7353	0.7222 0.7885	0.7447	0.7234	Ave		0.7472			0.4000	3.2		20.0			
2-Nitrophenol	+++++ 0.1173	0.1053 0.1336	0.0967 0.1426	0.1134	0.1237	Ave		0.1189			0.1000	13.3		20.0			
2,4-Dimethylphenol	0.3470 0.3625	0.3264 0.3485	0.3146 0.3919	0.3529	0.3522	Ave		0.3495			0.2000	6.6		20.0			
o,o',o''-Triethylphosphorothioate	0.1931 0.1883	0.1981 0.1930	0.2050 0.2056	0.2021	0.1929	Ave		0.1973				3.3		20.0			
Bis(2-chloroethoxy)methane	0.4912 0.4495	0.4746 0.4401	0.4748 0.4760	0.4664	0.4298	Ave		0.4628			0.3000	4.5		20.0			
2,4-Dichlorophenol	0.1985 0.2850	0.2247 0.2861	0.2470 0.3178	0.2720	0.2762	Ave		0.2634			0.2000	14.5		20.0			
1,2,4-Trichlorobenzene	0.3580 0.3287	0.3396 0.3177	0.3362 0.3494	0.3346	0.3287	Ave		0.3366				3.8		20.0			
Naphthalene	1.0091 1.0111	1.1044 0.9811	1.0383 1.0492	1.0189	1.0013	Ave		1.0267			0.7000	3.7		20.0			
a-Terpineol	0.3399 0.3275	0.3109 0.3215	0.3197 0.3459	0.3271	0.3181	Ave		0.3263				3.6		20.0			
4-Chloroaniline	0.4247 0.4654	0.4257 0.4431	0.4470 0.4850	0.4573	0.4447	Ave		0.4491			0.0100	4.5		20.0			
2,6-Dichlorophenol	0.2323 0.2750	0.2160 0.2785	0.2462 0.3012	0.2738	0.2755	Ave		0.2623				10.7		20.0			
Hexachloropropene	0.1937 0.2117	0.1739 0.2148	0.2193 0.2295	0.2156	0.2101	Ave		0.2086				8.3		20.0			
Hexachlorobutadiene	0.2030 0.1950	0.1940 0.1945	0.1977 0.2075	0.2004	0.1963	Ave		0.1985			0.0100	2.4		20.0			
Quinoline	0.7929 0.7382	0.8639 0.7125	0.7506 0.7800	0.7495	0.7197	Ave		0.7634				6.4		20.0			
Caprolactam	0.1005 0.1186	0.0959 0.1188	0.1151 0.1228	0.1131	0.1121	Ave		0.1121			0.0100	8.3		20.0			
N-Nitrosodi-n-butylamine	0.2783 0.2918	0.3094 0.3512	0.3057 0.3660	0.2953	0.2725	Ave		0.3088				10.8		20.0			
1,4-phenylenediamine	0.3584 0.4540	0.3788 0.4241	0.4325 0.4553	0.4470	0.4300	Ave		0.4225				8.4		20.0			

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FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Chloro-3-methylphenol	0.2419 0.3229	0.2973 0.3197	0.2898 0.3518	0.3165	0.3129	Ave		0.3066			0.2000	10.4		20.0			
Safrole, Total	0.3099 0.3004	0.2622 0.2899	0.3032 0.3076	0.2980	0.2845	Ave		0.2945				5.3		20.0			
2-Methylnaphthalene	0.6720 0.6611	0.7065 0.6319	0.6658 0.6858	0.6772	0.6448	Ave		0.6681			0.4000	3.5		20.0			
1-Methylnaphthalene	0.6950 0.6848	0.7028 0.6732	0.7000 0.7205	0.6982	0.6763	Ave		0.6939				2.2		20.0			
Hexachlorocyclopentadiene	+++++ 0.3751	+++++ 0.3822	0.3362 0.4185	0.3466	0.3859	Ave		0.3741			0.0500	7.9		20.0			
1,2,4,5-Tetrachlorobenzene	0.6258 0.5734	0.6187 0.5799	0.5858 0.6140	0.5753	0.5823	Ave		0.5944			0.0100	3.6		20.0			
Isosafrole Peak 1	0.7050 0.5244	0.5843 0.5122	0.5935 0.5509	0.5029	0.5312	Ave		0.5631				11.7		20.0			
2,4,6-Trichlorophenol	+++++ 0.3079	0.2463 0.3403	0.2423 0.3627	0.2851	0.3121	Ave		0.2995			0.2000	15.0		20.0			
2,4,5-Trichlorophenol	+++++ 0.4145	0.3009 0.4142	0.3337 0.4566	0.3833	0.4202	Ave		0.3890			0.2000	14.0		20.0			
Isosafrole Peak 2	0.5289 0.5700	0.5576 0.5745	0.5796 0.6081	0.5750	0.5641	Ave		0.5697				3.9		20.0			
1,1'-Biphenyl	1.5349 1.4321	1.4784 1.4136	1.4914 1.4954	1.4688	1.4667	Ave		1.4727			0.0100	2.6		20.0			
2-Chloronaphthalene	1.3295 1.1579	1.3333 1.1136	1.2359 1.1155	1.2062	1.2048	Ave		1.2121			0.8000	7.0		20.0			
1-Chloronaphthalene	1.0833 1.0474	1.0437 1.0545	1.0827 1.1662	1.0407	1.0441	Ave		1.0703				4.0		20.0			
Diphenyl ether	0.9186 0.8052	0.8889 0.8022	0.8370 0.8586	0.8006	0.8441	Ave		0.8444				5.1		20.0			
2-Nitroaniline	0.2442 0.3406	0.3023 0.3517	0.3007 0.3831	0.3246	0.3507	Ave		0.3247			0.0100	13.1		20.0			
1,4-Naphthoquinone	0.4263 0.4744	0.3995 0.4859	0.4877 0.5000	0.4788	0.4857	Ave		0.4673				7.5		20.0			
1,4-Dinitrobenzene	+++++ 0.1334	0.1186 0.1529	0.1127 0.1685	0.1257	0.1416	Ave		0.1362				14.5		20.0			

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FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dimethyl phthalate	1.4089 1.3574	1.3979 1.3645	1.3886 1.4353	1.3936	1.4023	Ave		1.3936			0.0100	1.8		20.0			
1,3-Dinitrobenzene	+++++ 0.1750	+++++ 0.1888	0.1443 0.2083	0.1599	0.1781	Ave		0.1757				12.7		20.0			
2,6-Dinitrotoluene	0.2288 0.2722	0.2603 0.2876	0.2339 0.3109	0.2661	0.2785	Ave		0.2673			0.2000	10.1		20.0			
Acenaphthylene	1.7615 1.8589	1.8240 1.8039	1.7994 1.9645	1.8099	1.8720	Ave		1.8368			0.9000	3.4		20.0			
3-Nitroaniline	0.2382 0.3186	0.2669 0.3329	0.2795 0.3675	0.2999	0.3261	Ave		0.3037			0.0100	13.6		20.0			
Acenaphthene	1.3639 1.1775	1.3282 1.1829	1.2334 1.2600	1.1931	1.2052	Ave		1.2430			0.9000	5.6		20.0			
2,4-Dinitrophenol	+++++ 0.0577	+++++ 0.0673	0.0510 0.0739	0.0542	0.0620	Ave		0.0610			0.0100	14.0		20.0			
4-Nitrophenol	+++++ 0.1601	+++++ 0.1719	+++++ 0.1897	0.1432	0.1614	Ave		0.1653			0.0100	10.3		20.0			
Pentachlorobenzene	0.5997 0.5490	0.5850 0.5473	0.5916 0.5859	0.5590	0.5738	Ave		0.5739				3.5		20.0			
2,4-Dinitrotoluene	0.3015 0.3652	0.3022 0.3962	0.3081 0.4343	0.3465	0.3713	Ave		0.3532			0.2000	13.6		20.0			
Dibenzofuran	1.8693 1.6746	1.8079 1.6494	1.7618 1.7550	1.7266	1.7214	Ave		1.7458			0.8000	4.0		20.0			
1-Naphthylamine	1.0759 1.2588	1.1507 1.2410	1.2554 1.3149	1.2533	1.2674	Ave		1.2272				6.2		20.0			
2,3,4,6-Tetrachlorophenol	+++++ 0.3218	+++++ 0.3610	0.2665 0.3871	0.3060	0.3553	Ave		0.3329			0.0100	13.1		20.0			
2-Naphthylamine	1.2845 1.3343	1.3218 1.3066	1.3443 1.4207	1.3327	1.3542	Ave		1.3374				3.0		20.0			
Diethyl phthalate	1.3735 1.3953	1.3698 1.4102	1.3575 1.4785	1.4129	1.4178	Ave		1.4019			0.0100	2.7		20.0			
Thionazin	0.2232 0.2108	0.2103 0.2189	0.2096 0.2344	0.2104	0.2218	Ave		0.2174				4.1		20.0			
Fluorene	1.3939 1.4025	1.4841 1.3748	1.4841 1.4607	1.4424	1.4664	Ave		1.4386			0.9000	3.0		20.0			

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FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Chlorophenyl phenyl ether	0.7395 0.6704	0.7576 0.6543	0.7386 0.7039	0.7054	0.7002	Ave		0.7087			0.4000	5.0		20.0			
5-Nitro-o-toluidine	0.3636 0.3713	0.2770 0.3756	0.3273 0.4006	0.3507	0.3816	Ave		0.3560				10.8		20.0			
4-Nitroaniline	0.2963 0.3591	0.2691 0.3571	0.3201 0.3895	0.3464	0.3749	Ave		0.3391			0.0100	12.0		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.0466	+++++ 0.0571	0.0362 0.0631	0.0415	0.0490	Qua2	-0.0300	0.0430	0.0003421		0.0100				0.9970		0.9900
N-Nitrosodiphenylamine	0.5515 0.6067	0.5860 0.5934	0.5916 0.6215	0.6038	0.5996	Ave		0.5943			0.0100	3.4		20.0			
1,2-Diphenylhydrazine	0.7417 0.7391	0.7861 0.7071	0.7296 0.7431	0.7261	0.7358	Ave		0.7386				3.0		20.0			
Sulfotepp	0.1304 0.1175	0.1305 0.1178	0.1186 0.1231	0.1143	0.1153	Ave		0.1209				5.3		20.0			
1,3,5-Trinitrobenzene	+++++ 0.0465	+++++ 0.0601	0.0326 0.0675	0.0396	0.0450	Qua2	-0.0077	0.0372	0.0010417						0.9980		0.9900
cis-Diallate	0.2741 0.2786	0.2704 0.2844	0.3025 0.2970	0.2895	0.2829	Ave		0.2849				3.9		20.0			
Phorate	0.4316 0.4567	0.3800 0.4550	0.4380 0.4858	0.4521	0.4545	Ave		0.4442				6.9		20.0			
Phenacetin	+++++ 0.3611	0.2549 0.3559	0.3032 0.3807	0.3380	0.3575	Ave		0.3359				12.8		20.0			
4-Bromophenyl phenyl ether	0.2365 0.2213	0.2079 0.2168	0.2176 0.2248	0.2272	0.2222	Ave		0.2218			0.1000	3.8		20.0			
trans-Diallate	0.4376 0.2889	0.3468 0.2773	0.3222 0.2955	0.3063	0.2827	Ave		0.3197				16.5		20.0			
Hexachlorobenzene	0.3065 0.2562	0.2690 0.2474	0.2658 0.2624	0.2619	0.2559	Ave		0.2657			0.1000	6.7		20.0			
Dimethoate	0.1631 0.2763	0.1686 0.2766	0.2163 0.2965	0.2537	0.2705	Lin1	-0.0266	0.2839							0.9980		0.9900
Atrazine	0.1886 0.2234	0.1705 0.2216	0.2258 0.2168	0.2207	0.2193	Ave		0.2108			0.0100	9.5		20.0			
Pentachlorophenol	+++++ 0.1106	0.0635 0.1278	0.0737 0.1339	0.0971	0.1123	Lin1	-0.1222	0.1285			0.0500				0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Aminobiphenyl	0.8104 0.8715	0.7831 0.8453	0.8634 0.8885	0.8689	0.8731	Ave		0.8505				4.2		20.0			
Pentachloronitrobenzene	0.0792 0.0942	0.0885 0.0985	0.0845 0.1058	0.0918	0.0938	Ave		0.0920				8.9		20.0			
Pronamide	0.3282 0.3480	0.3023 0.3462	0.3401 0.3652	0.3344	0.3399	Ave		0.3380				5.4		20.0			
Dinoseb	+++++ 0.0715	+++++ 0.0858	0.0598 0.0975	0.0638	0.0707	Ave		0.0748				19.0		20.0			
Disulfoton	0.8135 0.4506	0.5990 0.4435	0.4559 0.4645	0.4574	0.4475	Lin2	0.0449	0.4415							0.9990		0.9900
Phenanthrene	1.2537 1.0761	1.1635 1.0331	1.1264 1.0745	1.0972	1.0895	Ave		1.1143			0.7000	6.1		20.0			
Anthracene	1.0601 1.1285	1.0402 1.0664	1.0976 1.1244	1.1106	1.1157	Ave		1.0929			0.7000	3.0		20.0			
Carbazole	1.0092 1.0414	0.9624 0.9992	1.0190 1.0648	1.0491	1.0421	Ave		1.0234			0.0100	3.2		20.0			
Methyl parathion	+++++ 0.2086	0.1420 0.2205	0.1498 0.2397	0.1846	0.2025	Ave		0.1925				18.7		20.0			
Di-n-butyl phthalate	0.9902 1.1500	0.9846 1.1565	1.0049 1.2207	1.1109	1.1506	Ave		1.0961			0.0100	8.3		20.0			
Parathion	+++++ 0.1263	+++++ 0.1328	0.0867 0.1436	0.1161	0.1194	Ave		0.1208				16.1		20.0			
4-Nitroquinoline-1-oxide	+++++ 0.0879	+++++ 0.1048	0.0515 0.1169	0.0702	0.0830	Qua2	-0.031	0.0740	0.0014976						1.0000		0.9900
Octachlorostyrene	0.1058 0.1071	0.1148 0.1075	0.1032 0.1133	0.1148	0.1113	Ave		0.1097				4.0		20.0			
Isodrin	+++++ 0.1337	0.1581 0.1314	0.1397 0.1404	0.1380	0.1360	Ave		0.1396				6.3		20.0			
Fluoranthene	1.2390 1.2787	1.1781 1.2424	1.2325 1.2335	1.2666	1.2814	Ave		1.2440			0.6000	2.7		20.0			
Benzidine	0.6419 0.8536	0.6502 0.6713	0.7870 0.5790	0.8387	0.8469	Ave		0.7336				15.0		20.0			
Pyrene	1.3974 1.1780	1.2849 1.1654	1.1929 1.2272	1.1854	1.1743	Ave		1.2257			0.6000	6.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
p-Dimethylamino azobenzene	0.1756 0.2361	0.2026 0.2408	0.2031 0.2596	0.2220	0.2349	Ave		0.2218				12.1		20.0			
Chlorobenzilate	+++++ 0.3239	0.2400 0.3371	0.2804 0.3723	0.3024	0.3163	Ave		0.3103				13.6		20.0			
3,3'-Dimethylbenzidine	0.6209 0.8084	0.6401 0.7463	0.7219 0.8199	0.7507	0.7883	Ave		0.7371				10.0		20.0			
Butyl benzyl phthalate	+++++ 0.4686	+++++ 0.4755	0.3446 0.5372	0.4228	0.4497	Ave		0.4497			0.0100	14.2		20.0			
2-Acetylaminofluorene	+++++ 0.4322	+++++ 0.4328	+++++ 0.5152	0.3287	0.3828	Ave		0.4183				16.5		20.0			
3,3'-Dichlorobenzidine	0.3791 0.5015	0.4062 0.4765	0.4289 0.5363	0.4668	0.4860	Ave		0.4602			0.0100	11.3		20.0			
4,4'-Methylene bis(2-chloroaniline)	0.1705 0.2684	0.1830 0.2520	0.2348 0.2832	0.2516	0.2534	Ave		0.2371				16.9		20.0			
Benzo[a]anthracene	1.0433 1.2623	1.1222 1.1987	1.1342 1.3323	1.2192	1.2290	Ave		1.1926			0.8000	7.6		20.0			
Chrysene	1.1125 1.1776	1.1635 1.1284	1.1221 1.2308	1.1653	1.1570	Ave		1.1571			0.7000	3.3		20.0			
Bis(2-ethylhexyl) phthalate	+++++ 0.7271	+++++ 0.7224	0.5242 0.8089	0.6327	0.7000	Ave		0.6859			0.0100	14.2		20.0			
6-Methylchrysene	0.7337 0.8591	0.8001 0.8275	0.8231 0.9463	0.8139	0.8235	Ave		0.8284				7.2		20.0			
Di-n-octyl phthalate	+++++ 1.0555	+++++ 1.2411	0.6770 1.2843	0.8915	1.0059	Lin2	-0.689	1.1825			0.0100				0.9900		0.9900
7,12-Dimethylbenz(a)anthracene	0.4744 0.5310	0.4694 0.5931	0.5039 0.6018	0.5331	0.5275	Ave		0.5293				9.2		20.0			
Benzo[b]fluoranthene	1.2269 1.2551	1.1454 1.3239	1.1440 1.3561	1.2465	1.2389	Ave		1.2421			0.7000	6.0		20.0			
Benzo[k]fluoranthene	1.2003 1.2265	1.1436 1.2959	1.2322 1.2997	1.2399	1.2321	Ave		1.2338			0.7000	4.1		20.0			
Benzo[a]pyrene	1.0578 1.1352	1.0514 1.1702	1.0187 1.2195	1.0702	1.1036	Ave		1.1033			0.7000	6.1		20.0			
3-Methylcholanthrene	0.4710 0.6009	0.5091 0.5926	0.5326 0.6546	0.5564	0.5626	Ave		0.5600				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenz[a,h]acridine	0.7302 0.9444	0.7448 0.8635	0.8136 0.9676	0.8472	0.8717	Ave		0.8479				10.0		20.0			
Dibenz[a,j]acridine	0.6794 1.0082	0.7550 0.8845	0.8062 1.0063	0.8758	0.9203	Ave		0.8670				13.4		20.0			
Indeno[1,2,3-cd]pyrene	0.9107 1.1403	0.8685 1.0207	0.9517 1.1397	0.9977	1.0569	Ave		1.0108			0.5000	9.9		20.0			
Dibenz(a,h)anthracene	0.8499 1.1456	0.9373 1.0008	1.0073 1.1444	1.0244	1.0431	Ave		1.0191			0.4000	9.7		20.0			
Benzo[g,h,i]perylene	0.9639 1.1176	0.9874 0.9588	1.0097 1.0671	0.9845	1.0235	Ave		1.0141			0.5000	5.4		20.0			
2-Fluorophenol (Surr)	1.1838 1.2166	1.1434 1.2210	1.0670 1.3609	1.1764	1.1751	Ave		1.1930				7.0		20.0			
Phenol-d5 (Surr)	1.4724 1.7278	1.5338 1.7321	1.5574 1.9124	1.6756	1.6681	Ave		1.6600				8.4		20.0			
Nitrobenzene-d5 (Surr)	0.3396 0.3650	0.3494 0.3514	0.3462 0.3905	0.3552	0.3555	Ave		0.3566				4.4		20.0			
2-Fluorobiphenyl (Surr)	1.4237 1.3068	1.4315 1.2829	1.3275 1.3315	1.3492	1.3430	Ave		1.3495				3.9		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.2039	+++++ 0.2297	0.1664 0.2456	0.1950	0.2169	Ave		0.2096				13.3		20.0			
p-Terphenyl-d14 (Surr)	0.8485 0.8192	0.8193 0.8021	0.8251 0.7201	0.8409	0.8217	Ave		0.8121				4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-661633/9	HF2358.D
Level 2	IC 410-661633/8	HF2357.D
Level 3	IC 410-661633/7	HF2356.D
Level 4	IC 410-661633/6	HF2355.D
Level 5	IC 410-661633/5	HF2354.D
Level 6	ICIS 410-661633/2	HF2351.D
Level 7	IC 410-661633/4	HF2353.D
Level 8	IC 410-661633/3	HF2352.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd4	Ave	+++++ 224670	+++++ 392482	23990 585916	77256	147229	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodimethylamine	DCBd4	Ave	4908 409466	7710 695394	38981 1070312	124190	251527	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pyridine	DCBd4	Ave	15509 1299843	25151 2223563	118449 3397127	402439	805737	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
N,N-dimethylformamide	DCBd4	Ave	+++++ 478559	+++++ 802414	35285 1265602	133612	279222	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Picoline	DCBd4	Ave	7056 692788	11813 1194858	66815 1795575	210556	422646	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomethylethylamine	DCBd4	Ave	+++++ 292209	+++++ 509970	32332 772786	94202	184807	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Methyl methanesulfonate	DCBd4	Ave	3919 391933	7333 656620	35673 990977	120800	236155	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodiethylamine	DCBd4	Ave	3414 301938	5101 530330	30128 803136	91571	188735	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Ethyl methanesulfonate	DCBd4	Ave	3555 336415	7318 589104	32794 869789	106357	207923	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzaldehyde	DCBd4	Ave	6667 561614	12379 974168	56294 1344617	173112	342544	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenol	DCBd4	Ave	8616 832667	13838 1438294	72766 2149365	247807	508564	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Aniline	DCBd4	Ave	10380 1026383	19944 1751137	85040 2648623	313471	628960	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethyl)ether	DCBd4	Ave	7733 655219	13169 1103940	56628 1629578	198494	394176	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chlorophenol	DCBd4	Ave	6294 590738	11032 1043221	50103 1562923	183434	375886	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dichlorobenzene	DCBd4	Ave	6926	13593	62859	210622	423624	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			657084	1141375	1696809			12.5	20.0	30.0		
1,4-Dichlorobenzene	DCBd4	Ave	8057 668080	13527 1168044	66708 1754587	212833	427656	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzyl alcohol	DCBd4	Ave	4733 435631	8421 760231	36915 1132297	134819	264613	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2-Dichlorobenzene	DCBd4	Ave	7483 642868	12078 1136695	60707 1685219	207505	417506	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylphenol	DCBd4	Ave	6255 604340	10627 1052687	52206 1551860	175562	362605	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,2'-oxybis[1-chloropropane]	DCBd4	Ave	12759 1034695	22566 1801049	99143 2650199	323837	632593	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopyrrolidine	DCBd4	Ave	3435 376952	6279 661589	37002 958215	118219	227032	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3,4-Methylphenol	DCBd4	Ave	5411 646660	11203 1115254	53403 1642534	189955	387743	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-propylamine	DCBd4	Ave	6098 556652	11620 938346	50842 1356722	169083	339313	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acetophenone	DCBd4	Ave	10729 986623	19585 1672757	87760 2423879	314042	609866	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomorpholine	DCBd4	Ave	6559 502386	10958 841595	49220 1213497	158493	302530	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Toluidine	DCBd4	Ave	11845 1050929	18990 1808923	99781 2616983	337460	654113	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloroethane	DCBd4	Ave	3774 255580	6349 452351	25121 665470	81621	161132	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Nitrobenzene	NPT	Ave	7903 716549	16300 1239161	64046 1838333	225354	451687	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopiperidine	NPT	Ave	4135 349894	6979 631315	33864 899742	112036	214813	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isophorone	NPT	Ave	15283 1453498	26565 2544924	129640 3653529	449152	880064	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitrophenol	NPT	Ave	+++++ 225994	3808 462229	17361 660786	68424	150498	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dimethylphenol	NPT	Ave	6847 698407	11809 1206246	56474 1815764	212861	428421	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o,o',o''-Triethylphosphorothioate	NPT	Ave	3809 362735	7166 668111	36809 952453	121909	234625	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethoxy)methane	NPT	Ave	9692 866211	17171 1522951	85229 2205378	281336	522874	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dichlorophenol	NPT	Ave	3917	8131	44339	164054	335968	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			549087	990150	1472716			12.5	20.0	30.0		
1,2,4-Trichlorobenzene	NPT	Ave	7064 633449	12288 1099603	60352 1618990	201833	399893	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Naphthalene	NPT	Ave	19909 1948145	39958 3395370	186396 4861596	614573	1218099	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
a-Terpineol	NPT	Ave	6707 631138	11249 1112649	57392 1602566	197265	386943	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloroaniline	NPT	Ave	8379 896795	15400 1533475	80246 2247231	275803	540926	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dichlorophenol	NPT	Ave	4584 529870	7813 963749	44194 1395533	165151	335144	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloropropene	NPT	Ave	3822 407833	6292 743527	39366 1063428	130021	255609	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorobutadiene	NPT	Ave	4006 375663	7019 673159	35494 961330	120883	238745	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Quinoline	NPT	Ave	15644 1422426	31256 2465943	134753 3614028	452068	875482	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Caprolactam	NPT	Ave	1982 228485	3471 411112	20661 568789	68236	136408	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-butylamine	NPT	Ave	5491 562351	11193 1215352	54877 1696110	178123	331513	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-phenylenediamine	NPT	Ave	7072 874715	13705 1467877	77645 2109823	269610	523144	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloro-3-methylphenol	NPT	Ave	4772 622132	10756 1106513	52021 1630039	190905	380666	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Safrole, Total	NPT	Ave	6114 578850	9486 1003445	54434 1425241	179715	346128	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylnaphthalene	NPT	Ave	13258 1273933	25561 2186741	119528 3177909	408430	784363	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Methylnaphthalene	NPT	Ave	13713 1319471	25427 2329833	125665 3338709	421133	822671	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorocyclopentadiene	ANT	Ave	+++++ 469187	+++++ 844318	39964 1237226	139086	292351	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,2,4,5-Tetrachlorobenzene	ANT	Ave	7866 717240	14632 1280981	69636 1815482	230832	441121	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 1	ANT	Ave	1418 104950	2211 181022	11288 260605	32287	64395	0.0200 2.00	0.0400 3.20	0.200 4.80	0.600	1.20
2,4,6-Trichlorophenol	ANT	Ave	+++++ 385087	5825 751662	28806 1072342	114383	236466	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4,5-Trichlorophenol	ANT	Ave	+++++	7115	39668	153784	318375	+++++	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			518444	914896	1349995			12.5	20.0	30.0		
Isosafrole Peak 2	ANT	Ave	5585 598894	11076 1066006	57875 1510318	193791	359004	0.105 10.5	0.210 16.8	1.05 25.2	3.15	6.30
1,1'-Biphenyl	ANT	Ave	19294 1791345	34963 3122707	177295 4421399	589326	1111156	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chloronaphthalene	ANT	Ave	16712 1448323	31531 2459968	146920 3298025	483958	912754	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Chloronaphthalene	ANT	Ave	13617 1310190	24682 2329416	128709 3447951	417582	790991	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diphenyl ether	ANT	Ave	11547 1007212	21021 1772151	99506 2538626	321227	639468	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitroaniline	ANT	Ave	3070 426006	7148 776980	35744 1132648	130228	265671	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Naphthoquinone	ANT	Ave	5359 593362	9449 1073389	57979 1478233	192113	367944	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dinitrobenzene	ANT	Ave	+++++ 166884	2804 337681	13395 498163	50422	107290	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethyl phthalate	ANT	Ave	17710 1697895	33060 3014388	165079 4243705	559154	1062402	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dinitrobenzene	ANT	Ave	+++++ 218879	+++++ 416969	17155 615805	64139	134939	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,6-Dinitrotoluene	ANT	Ave	2876 340453	6155 635232	27811 919160	106778	210968	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthylene	ANT	Ave	22142 2325270	43137 3985042	213913 5808201	726192	1418234	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Nitroaniline	ANT	Ave	2994 398573	6312 735296	33227 1086550	120336	247032	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthene	ANT	Ave	17145 1472870	31410 2613160	146625 3725382	478726	913101	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrophenol	ANT	Ave	+++++ 144340	+++++ 297535	24236 436921	65276	109528	+++++ 25.0	+++++ 40.0	5.00 60.0	11.3	17.5
4-Nitrophenol	ANT	Ave	+++++ 400413	+++++ 759402	+++++ 1121903	114937	244507	+++++ 25.0	+++++ 40.0	+++++ 60.0	7.50	15.0
Pentachlorobenzene	ANT	Ave	7538 686760	13835 1209064	70327 1732323	224299	434737	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrotoluene	ANT	Ave	3790 456778	7146 875217	36626 1284173	139037	281337	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenzofuran	ANT	Ave	23498 2094718	42755 3643672	209443 5188788	692757	1304151	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Naphthylamine	ANT	Ave	13524	27214	149238	502846	960212	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1574566	2741400	3887578			12.5	20.0	30.0		
2,3,4,6-Tetrachlorophenol	ANT	Ave	+++++ 402486	+++++ 797506	31687 1144363	122766	269144	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Naphthylamine	ANT	Ave	16146 1668969	31259 2886299	159812 4200452	534724	1025961	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diethyl phthalate	ANT	Ave	17265 1745279	32395 3115333	161383 4371310	566882	1074139	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Thionazin	ANT	Ave	2806 263719	4973 483536	24918 693102	84409	168070	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluorene	ANT	Ave	17522 1754331	35097 3037091	176425 4318770	578757	1110936	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chlorophenyl phenyl ether	ANT	Ave	9296 838513	17916 1445403	87800 2081156	283039	530439	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
5-Nitro-o-toluidine	ANT	Ave	4571 464426	6551 829827	38911 1184422	140725	289068	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroaniline	ANT	Ave	3725 449135	6365 788876	38056 1151599	138980	283990	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,6-Dinitro-2-methylphenol	PHN	Qua2	+++++ 232240	+++++ 511431	26709 765601	66823	150496	+++++ 25.0	+++++ 40.0	3.75 60.0	7.50	15.0
N-Nitrosodiphenylamine	PHN	Ave	11839 1285690	24179 2257087	123647 3203113	413391	783377	0.106 10.6	0.213 17.0	1.06 25.5	3.19	6.38
1,2-Diphenylhydrazine	PHN	Ave	18731 1842616	38157 3163930	179406 4505310	584821	1130990	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Sulfotepp	PHN	Ave	3294 292893	6334 527070	29157 746466	92058	177206	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3,5-Trinitrobenzene	PHN	Qua2	+++++ 115861	+++++ 269120	8014 409513	31903	69186	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
cis-Diallate	PHN	Ave	5122 514016	9714 941880	55040 1332648	172570	321735	0.0925 9.25	0.185 14.8	0.925 22.2	2.78	5.55
Phorate	PHN	Ave	10900 1138747	18448 2036176	107716 2945592	364156	698544	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenacetin	PHN	Ave	+++++ 900170	12372 1592442	74547 2307996	272224	549474	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Bromophenyl phenyl ether	PHN	Ave	5972 551732	10090 970159	53513 1363229	183003	341570	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
trans-Diallate	PHN	Ave	2873 187263	4377 322605	20597 465873	64144	112967	0.0325 3.25	0.0650 5.20	0.325 7.80	0.975	1.95
Hexachlorobenzene	PHN	Ave	7741 638765	13060 1107011	65368 1590919	210931	393401	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethoate	PHN	Lin1	4120	8185	53191	204373	415753	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			688898	1237601	1797572			12.5	20.0	30.0		
Atrazine	PHN	Ave	4763 556935	8277 991784	55529 1314378	177754	337134	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachlorophenol	PHN	Lin1	+++++ 551670	15401 1143639	36232 1623468	156405	345332	+++++ 25.0	1.25 40.0	2.50 60.0	7.50	15.0
4-Aminobiphenyl	PHN	Ave	20467 2172821	38013 3782420	212318 5387267	699847	1341972	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachloronitrobenzene	PHN	Ave	2001 234973	4294 440676	20783 641763	73949	144170	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pronamide	PHN	Ave	8289 867550	14673 1548970	83624 2213986	269348	522383	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dinoseb	PHN	Ave	+++++ 178285	+++++ 383911	14697 590885	51419	108701	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Disulfoton	PHN	Lin2	20545 1123463	29074 1984746	112102 2816559	368374	687870	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenanthrene	PHN	Ave	31660 2682844	56477 4623079	276989 6514945	883775	1674561	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Anthracene	PHN	Ave	26773 2813488	50495 4771801	269901 6817317	894538	1714886	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Carbazole	PHN	Ave	25487 2596397	46717 4471386	250578 6455626	845002	1601786	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Methyl parathion	PHN	Ave	+++++ 520091	6894 986630	36838 1453069	148653	311287	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-butyl phthalate	PHN	Ave	25006 2867062	47795 5175034	247096 7401419	894790	1768576	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Parathion	PHN	Ave	+++++ 314898	+++++ 594263	21317 870769	93499	183471	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Nitroquinoline-1-oxide	PHN	Qua2	+++++ 219177	+++++ 469073	12674 708886	56561	127576	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Octachlorostyrene	PHN	Ave	2673 266923	5572 481176	25385 686950	92489	171121	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isodrin	PHN	Ave	+++++ 333377	7672 587828	34341 850969	111159	208964	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluoranthene	PHN	Ave	31289 3188059	57188 5559488	303081 7478603	1020166	1969616	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzidine	PYR10	Ave	52739 7265988	102470 9804349	657011 11381467	2312455	4510814	0.375 37.5	0.750 60.0	3.75 90.0	11.3	22.5
Pyrene	PYR10	Ave	38270 3342474	67503 5674130	331985 8041097	1089534	2084806	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
p-Dimethylamino azobenzene	PYR10	Ave	4810	10641	56511	203995	417126	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1 | Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 | GC Column: DB-5MS 30m ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 | Calibration End Date: 06/23/2025 23:36 | Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			669921	1172337	1701131			12.5	20.0	30.0		
Chlorobenzilate	PYR10	Ave	+++++ 918984	12609 1641242	78034 2439510	277948	561543	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3,3'-Dimethylbenzidine	PYR10	Ave	17005 2293701	33626 3633701	200885 5372061	689938	1399618	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Butyl benzyl phthalate	PYR10	Ave	+++++ 1329617	+++++ 2315251	95886 3520276	388565	798424	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Acetylaminofluorene	PYR10	Ave	+++++ 1226184	+++++ 2106943	+++++ 3375715	302071	679681	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
3,3'-Dichlorobenzidine	PYR10	Ave	10383 1422829	21338 2320135	119362 3514329	429071	862819	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,4'-Methylene bis(2-chloroaniline)	PYR10	Ave	4669 761593	9614 1226696	65333 1855930	231227	449969	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]anthracene	PYR10	Ave	28573 3581461	58953 5836163	315632 8729785	1120512	2182025	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chrysene	PYR10	Ave	30468 3341224	61122 5493958	312275 8064605	1071039	2054199	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-ethylhexyl) phthalate	PYR10	Ave	+++++ 2062947	+++++ 3517082	145878 5300608	581497	1242798	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
6-Methylchrysene	PYR10	Ave	20094 2437491	42033 4028847	229057 6200422	748017	1462108	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-octyl phthalate	PRY	Lin2	+++++ 3195122	+++++ 5383732	185781 8685140	806115	1822785	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
7,12-Dimethylbenz(a)anthracene	PRY	Ave	11397 1607346	24537 2572947	138271 4069692	482049	955774	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[b]fluoranthene	PRY	Ave	29474 3799309	59875 5743222	313930 9171292	1127125	2244855	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[k]fluoranthene	PRY	Ave	28834 3712626	59786 5621656	338140 8789934	1121086	2232686	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]pyrene	PRY	Ave	25410 3436398	54966 5076256	279528 8247439	967715	1999673	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Methylcholanthrene	PRY	Ave	11314 1819024	26613 2570719	146138 4426700	503109	1019493	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,h]acridine	PRY	Ave	17542 2858868	38937 3745824	223267 6543528	766039	1579617	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,j]acridine	PRY	Ave	16321 3051848	39468 3836887	221227 6805651	791875	1667599	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Indeno[1,2,3-cd]pyrene	PRY	Ave	21877 3451766	45404 4427721	261157 7707740	902084	1915191	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz(a,h)anthracene	PRY	Ave	20417	48997	276407	926278	1890072	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			3467732	4341484	7739504			12.5	20.0	30.0		
Benzo[g,h,i]perylene	PRY	Ave	23155 3383137	51619 4159295	277059 7216315	890156	1854676	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Fluorophenol (Surr)	DCBd4	Ave	11557 1103825	20404 1943987	91242 2943930	331662	686589	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Phenol-d5 (Surr)	DCBd4	Ave	14374 1567679	27372 2757645	133182 4136895	472407	974678	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Nitrobenzene-d5 (Surr)	NPT	Ave	13402 1406718	25284 2432038	124299 3618786	428433	864901	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2-Fluorobiphenyl (Surr)	ANT	Ave	35792 3269314	67710 5668160	315621 7873521	1082654	2034970	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	+++++ 510029	+++++ 1015048	39563 1452291	156472	328674	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
p-Terphenyl-d14 (Surr)	PYR10	Ave	46477 4648711	86085 7810155	459253 9437375	1545822	2917832	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-661633/9	HF2358.D
Level 2	IC 410-661633/8	HF2357.D
Level 3	IC 410-661633/7	HF2356.D
Level 4	IC 410-661633/6	HF2355.D
Level 5	IC 410-661633/5	HF2354.D
Level 6	ICIS 410-661633/2	HF2351.D
Level 7	IC 410-661633/4	HF2353.D
Level 8	IC 410-661633/3	HF2352.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
4,6-Dinitro-2-methylphenol	+++++ 1.7	+++++ 0.1	-0.4	-0.3	5.2	-6.4	30	30	50	30	30	30
1,3,5-Trinitrobenzene	+++++ 3.1	+++++ -0.6	-0.3	1.0	1.9	-5.0	30	30	50	30	30	30
Dimethoate	31.2 -2.1	-3.7 4.7	-16.4	-8.2	-3.5	-2.0	50 30	30 30	30	30	30	30
Pentachlorophenol	+++++ 1.8	25.4 5.7	-4.7	-11.8	-6.3	-10.1	30	50 30	30	30	30	30
Disulfoton	2.9 -0.1	-5.0 4.9	-4.9	0.9	0.0	1.2	50 30	30 30	30	30	30	30
4-Nitroquinoline-1-oxide	+++++ 1.8	+++++ -0.6	0.3	-1.4	1.9	-2.1	30	30	50	30	30	30
Di-n-octyl phthalate	+++++ 7.9	+++++ 10.5	3.9	-9.1	-7.2	-6.1	30	30	50	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D
Lims ID: ICIS L6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 23-Jun-2025 20:42:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L6
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:01 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: N5QU Date: 23-Jun-2025 21:18:05

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.157	0.000	98	224670	12.5	11.8	
	2 N-Nitrosodimethylamine	74	2.334	2.334	0.000	91	409466	12.5	12.4	
	3 Pyridine	79	2.375	2.375	0.000	90	1299843	25.0	24.7	
	4 Dimethylformamide	73	2.604	2.604	0.000	97	478559	12.5	13.3	
	5 2-Picoline	93	2.887	2.887	0.000	95	692788	12.5	12.8	
	6 N-Nitrosomethylethylamine	88	2.951	2.951	0.000	96	292209	12.5	11.9	
	9 Methyl methanesulfonate	80	3.187	3.187	0.000	87	391933	12.5	12.8	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	95	1103825	25.0	25.5	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	92	301938	12.5	12.5	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	336415	12.5	12.2	
	15 Benzaldehyde	77	4.110	4.110	0.000	95	561614	12.5	12.2	
$	16 Phenol-d5	99	4.146	4.146	0.000	98	1567679	25.0	26.0	
	17 Phenol	94	4.157	4.157	0.000	99	832667	12.5	13.0	
	18 Aniline	93	4.204	4.204	0.000	97	1026383	12.5	12.8	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	92	655219	12.5	12.6	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	590738	12.5	12.6	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	657084	12.5	12.3	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	181463	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	94	668080	12.5	12.0	
	26 Benzyl alcohol	108	4.645	4.645	0.000	92	435631	12.5	12.6	
	27 1,2-Dichlorobenzene	146	4.687	4.687	0.000	96	642868	12.5	12.2	
	30 2-Methylphenol	108	4.745	4.745	0.000	97	604340	12.5	13.0	
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1034695	12.5	12.1	
	33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	376952	12.5	12.9	
	36 4-Methylphenol	108	4.893	4.893	0.000	95	646660	12.5	13.4	
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	76	556652	12.5	12.6	
	34 Acetophenone	105	4.910	4.910	0.000	92	986623	12.5	12.6	
	37 N-Nitrosomorpholine	56	4.922	4.922	0.000	90	502386	12.5	12.1	
	38 2-Toluidine	106	4.940	4.940	0.000	96	1050929	12.5	12.5	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	255580	12.5	11.4	
$	41 Nitrobenzene-d5	82	5.057	5.057	0.000	90	1406718	25.0	25.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
42 Nitrobenzene	77	5.075	5.075	0.000	90	716549	12.5	12.1	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	349894	12.5	12.0	
45 Isophorone	82	5.310	5.310	0.000	99	1453498	12.5	12.6	
46 2-Nitrophenol	139	5.393	5.393	0.000	96	225994	12.5	12.3	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	698407	12.5	13.0	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	84	362735	12.5	11.9	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	99	866211	12.5	12.1	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	94	549087	12.5	13.5	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	633449	12.5	12.2	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	770741	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	1948145	12.5	12.3	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	631138	12.5	12.5	
57 4-Chloroaniline	127	5.845	5.845	0.000	96	896795	12.5	13.0	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	529870	12.5	13.1	
59 Hexachloropropene	213	5.887	5.887	0.000	89	407833	12.5	12.7	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	375663	12.5	12.3	
62 Quinoline	129	6.122	6.122	0.000	96	1422426	12.5	12.1	
63 Caprolactam	113	6.163	6.163	0.000	77	228485	12.5	13.2	
64 N-Nitrosodi-n-butylamine	84	6.187	6.187	0.000	94	562351	12.5	11.8	
39 p-Phenylene diamine	108	6.192	6.192	0.000	95	874715	12.5	13.4	
66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	622132	12.5	13.2	
67 Safrole, Total	162	6.398	6.398	0.000	92	578850	12.5	12.8	a
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1273933	12.5	12.4	
69 1-Methylnaphthalene	142	6.587	6.587	0.000	93	1319471	12.5	12.3	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	95	469187	12.5	12.5	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	717240	12.5	12.1	
73 Isosafrole Peak 1	162	6.692	6.692	0.000	92	104950	2.00	1.86	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	74	385087	12.5	12.8	
75 2,4,5-Trichlorophenol	196	6.792	6.792	0.000	95	518444	12.5	13.3	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	3269314	25.0	24.2	
77 Isosafrole Peak 2	162	6.916	6.916	0.000	95	598894	10.5	10.5	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	1791345	12.5	12.2	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1448323	12.5	11.9	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	1310190	12.5	12.2	
81 Phenyl ether	170	7.057	7.057	0.000	90	1007212	12.5	11.9	
82 2-Nitroaniline	138	7.063	7.063	0.000	80	426006	12.5	13.1	
84 1,4-Naphthoquinone	158	7.139	7.139	0.000	89	593362	12.5	12.7	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	92	166884	12.5	12.2	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	1697895	12.5	12.2	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	85	218879	12.5	12.4	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	340453	12.5	12.7	
89 Acenaphthylene	152	7.381	7.381	0.000	98	2325270	12.5	12.7	
90 3-Nitroaniline	138	7.469	7.469	0.000	94	398573	12.5	13.1	
* 91 Acenaphthene-d10	164	7.522	7.522	0.000	94	500342	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	96	1472870	12.5	11.8	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	83	144340	25.0	23.6	
95 4-Nitrophenol	109	7.622	7.622	0.000	96	400413	25.0	24.2	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	686760	12.5	12.0	
98 2,4-Dinitrotoluene	165	7.704	7.704	0.000	94	456778	12.5	12.9	
97 Dibenzofuran	168	7.722	7.722	0.000	96	2094718	12.5	12.0	
99 1-Naphthylamine	143	7.798	7.798	0.000	99	1574566	12.5	12.8	
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	402486	12.5	12.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.875	7.875	0.000	97	1668969	12.5	12.5	
104 Diethyl phthalate	149	7.951	7.951	0.000	98	1745279	12.5	12.4	
106 Thionazin	107	8.028	8.028	0.000	80	263719	12.5	12.1	a
105 Fluorene	166	8.063	8.063	0.000	94	1754331	12.5	12.2	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	70	464426	12.5	13.0	
109 4-Nitroaniline	138	8.069	8.069	0.000	82	449135	12.5	13.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	91	838513	12.5	11.8	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	84	232240	25.0	23.4	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	83	1285690	10.6	10.8	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	1842616	12.5	12.5	
$ 113 2,4,6-Tribromophenol	330	8.298	8.298	0.000	95	510029	25.0	24.3	
114 Sulfotepp	97	8.339	8.339	0.000	81	292893	12.5	12.1	a
172 1,3,5-Trinitrobenzene	213	8.422	8.422	0.000	84	115861	12.5	11.9	
115 cis-Diallate	86	8.463	8.463	0.000	80	514016	9.25	9.04	a
117 Phenacetin	108	8.475	8.475	0.000	82	900170	12.5	13.4	
116 Phorate	75	8.475	8.475	0.000	94	1138747	12.5	12.9	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	551732	12.5	12.5	
119 trans-Diallate	86	8.551	8.551	0.000	88	187263	3.25	2.94	a
120 Hexachlorobenzene	284	8.604	8.604	0.000	96	638765	12.5	12.1	
121 Dimethoate	87	8.633	8.633	0.000	96	688898	12.5	12.3	a
122 Atrazine	200	8.704	8.704	0.000	93	556935	12.5	13.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	551670	25.0	22.5	
125 4-Aminobiphenyl	169	8.798	8.798	0.000	91	2172821	12.5	12.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	234973	12.5	12.8	
126 Pronamide	173	8.857	8.857	0.000	91	867550	12.5	12.9	
128 Dinoseb	211	8.975	8.975	0.000	97	178285	12.5	11.9	
* 127 Phenanthrene-d10	188	8.986	8.986	0.000	97	997272	5.00	5.00	
70 Disulfoton	88	8.992	8.992	0.000	97	1123463	12.5	12.7	a
129 Phenanthrene	178	9.010	9.010	0.000	96	2682844	12.5	12.1	
S 56 Dinitrotoluene	165				0		25.0	25.7	
130 Anthracene	178	9.057	9.057	0.000	97	2813488	12.5	12.9	
131 Carbazole	167	9.210	9.210	0.000	96	2596397	12.5	12.7	
132 Methyl parathion	109	9.351	9.351	0.000	95	520091	12.5	13.5	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	2867062	12.5	13.1	
S 65 Diallate	86				0		12.5	12.0	
134 Ethyl Parathion	109	9.739	9.739	0.000	85	314898	12.5	13.1	a
135 4-Nitroquinoline-1-oxide	190	9.763	9.763	0.000	91	219177	12.5	12.2	
136 Octachlorostyrene	308	9.992	9.992	0.000	92	266923	12.5	12.2	
137 Isodrin	193	10.033	10.033	0.000	94	333377	12.5	12.0	
138 Fluoranthene	202	10.180	10.180	0.000	97	3188059	12.5	12.8	
139 Benzidine	184	10.310	10.310	0.000	99	7265988	37.5	43.6	
* 140 Pyrene-d10 (IS)	212	10.392	10.392	0.000	98	1134927	5.00	5.00	
141 Pyrene	202	10.410	10.410	0.000	98	3342474	12.5	12.0	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	99	4648711	25.0	25.2	
143 p-Dimethylamino azobenzene	225	10.727	10.727	0.000	95	669921	12.5	13.3	
144 Chlorobenzilate	139	10.780	10.780	0.000	90	918984	12.5	13.0	
145 3,3'-Dimethylbenzidine	212	11.110	11.110	0.000	99	2293701	12.5	13.7	
146 Butyl benzyl phthalate	149	11.133	11.133	0.000	98	1329617	12.5	13.0	
147 2-Acetylaminofluorene	181	11.410	11.410	0.000	95	1226184	12.5	12.9	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	75	1422829	12.5	13.6	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	761593	12.5	14.2	
148 Benzo[a]anthracene	228	11.816	11.816	0.000	98	3581461	12.5	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.863	11.863	0.000	96	3341224	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.880	11.880	0.000	98	2062947	12.5	13.3	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	2437491	12.5	13.0	a
154 Di-n-octyl phthalate	149	12.810	12.810	0.000	99	3195122	12.5	11.7	
156 7,12-Dimethylbenz(a)anthracene	256	13.321	13.321	0.000	88	1607346	12.5	12.5	
155 Benzo[b]fluoranthene	252	13.321	13.321	0.000	97	3799309	12.5	12.6	
157 Benzo[k]fluoranthene	252	13.368	13.368	0.000	98	3712626	12.5	12.4	
158 Benzo[a]pyrene	252	13.798	13.798	0.000	76	3436398	12.5	12.9	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1210811	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.333	0.000	91	1819024	12.5	13.4	a
161 Dibenz[a,h]acridine	279	15.233	15.233	0.000	90	2858868	12.5	13.9	
162 Dibenz[a,j]acridine	279	15.321	15.321	0.000	96	3051848	12.5	14.5	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.639	0.000	98	3451766	12.5	14.1	M
164 Dibenz(a,h)anthracene	278	15.692	15.692	0.000	91	3467732	12.5	14.1	
165 Benzo[g,h,i]perylene	276	16.145	16.145	0.000	98	3383137	12.5	13.8	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:02 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D

Injection Date: 23-Jun-2025 20:42:30 Instrument ID: HP18831 Operator ID: IR93211

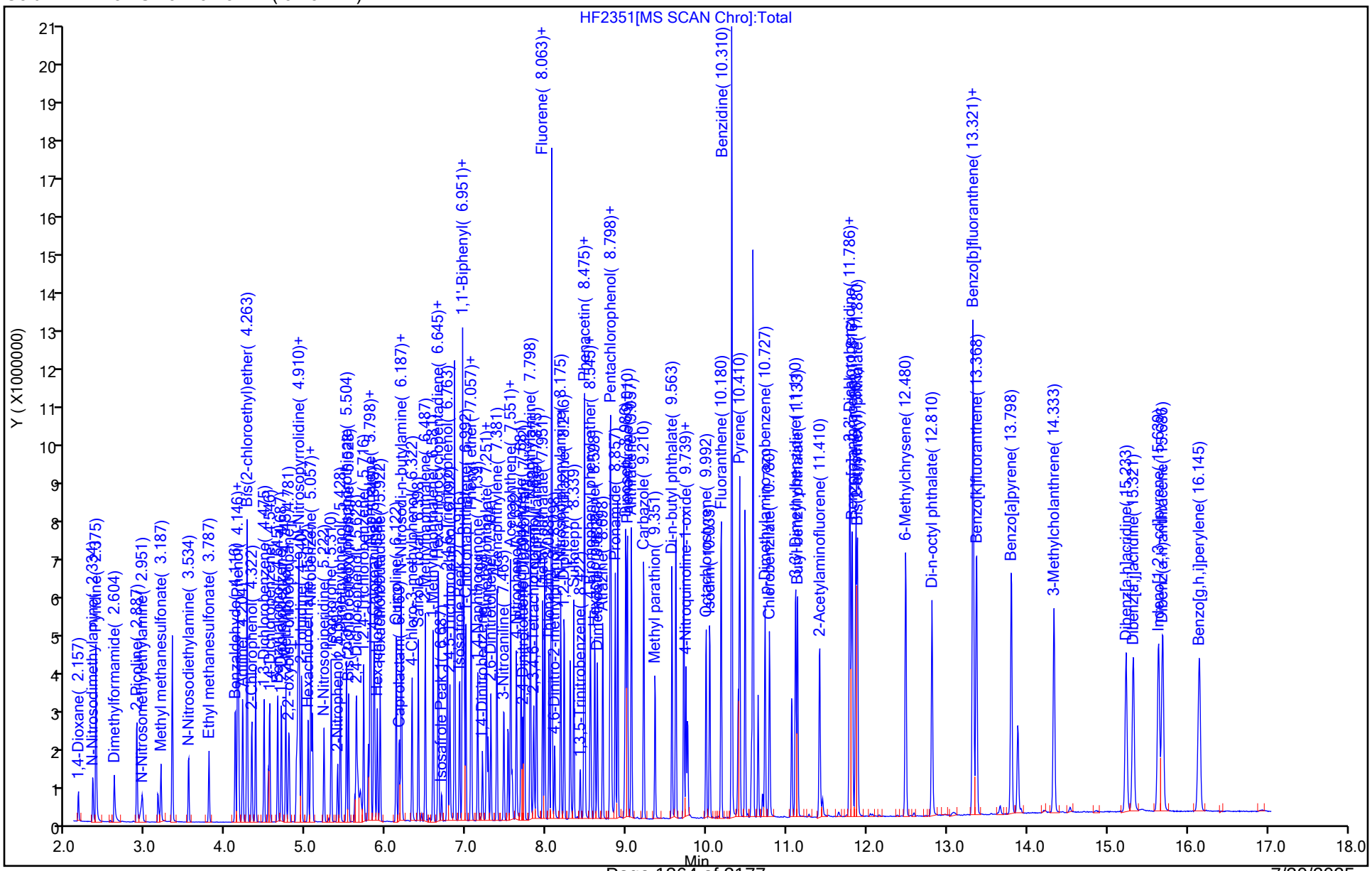
Lims ID: ICIS L6 Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

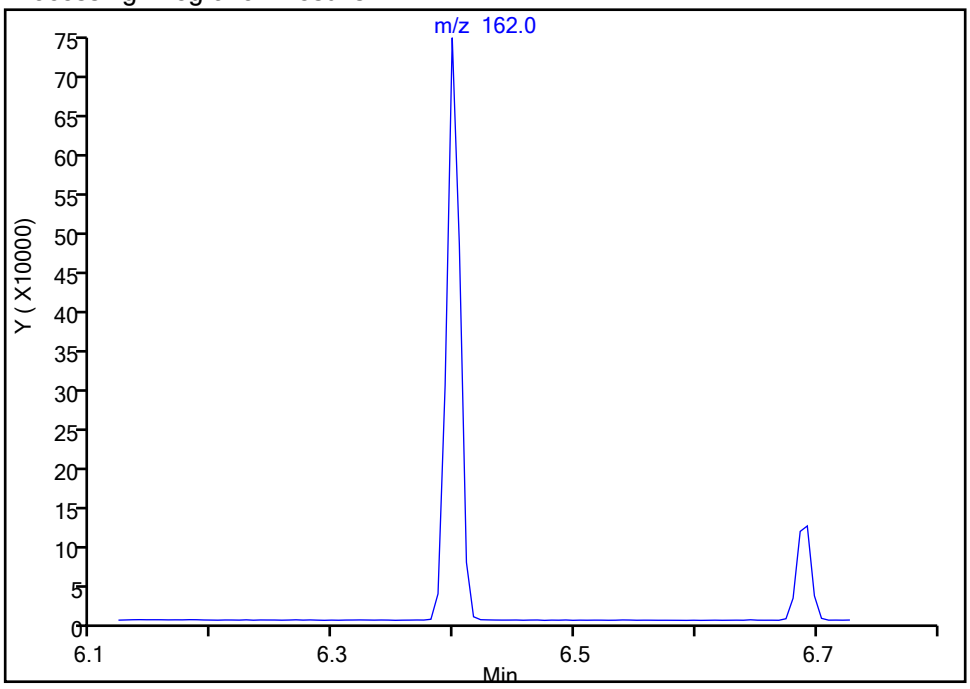
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

67 Safrole, Total, CAS: 94-59-7

Signal: 1

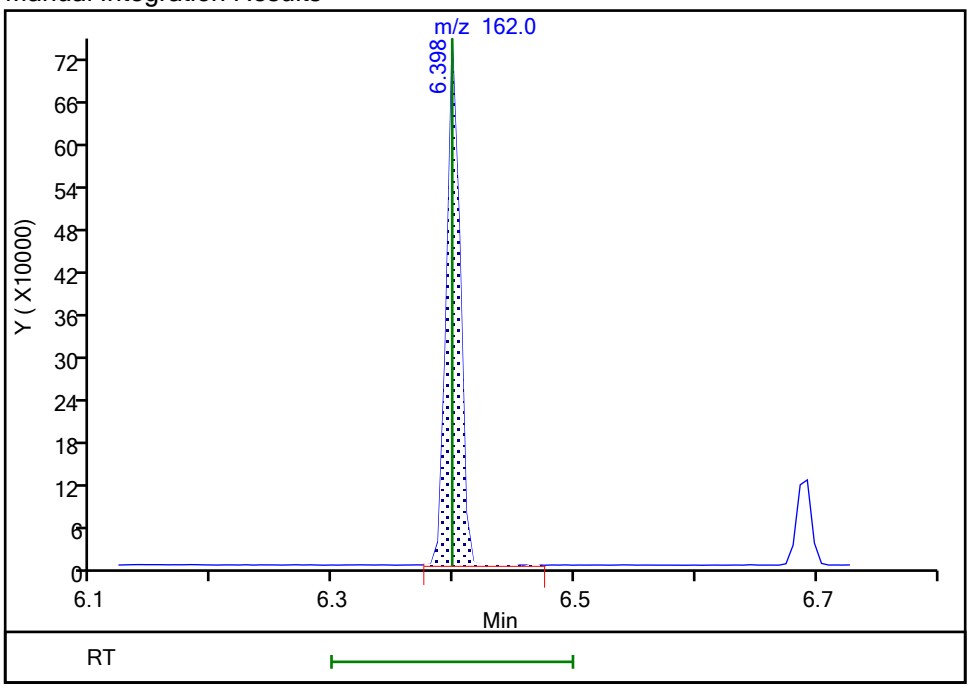
Not Detected
Expected RT: 6.40

Processing Integration Results



Manual Integration Results

RT: 6.40
Area: 578850
Amount: 12.752445
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:27:15 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

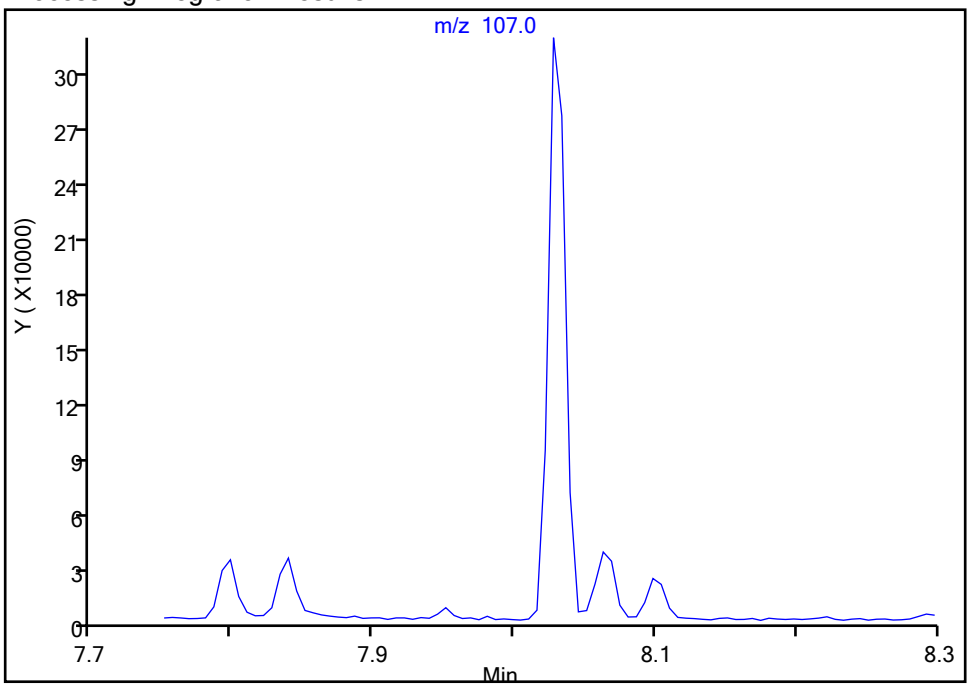
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

106 Thionazin, CAS: 297-97-2

Signal: 1

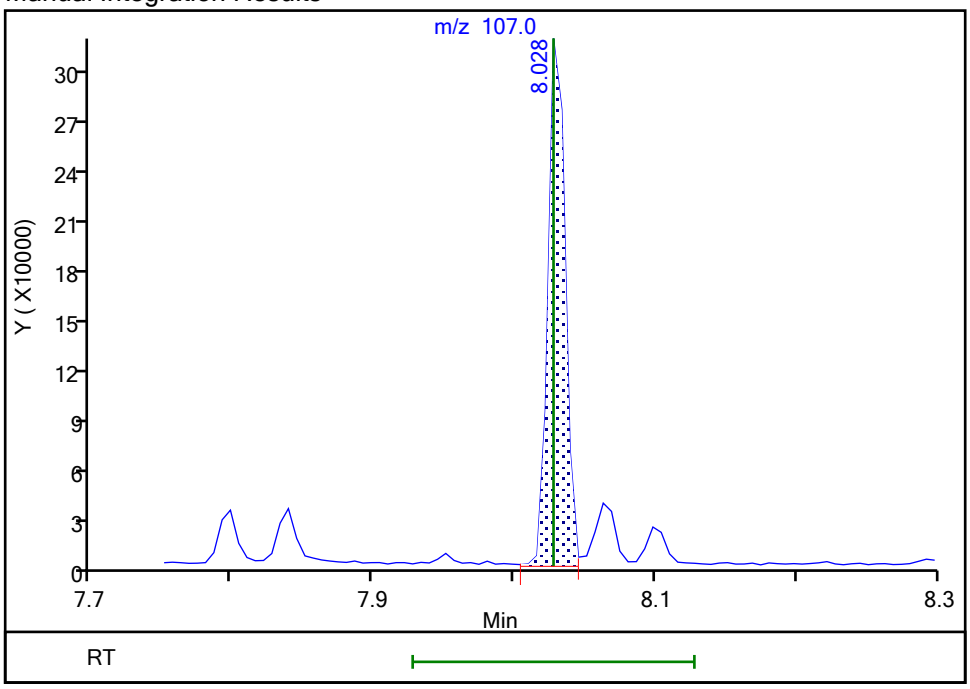
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.03
Area: 263719
Amount: 12.120384
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:31 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

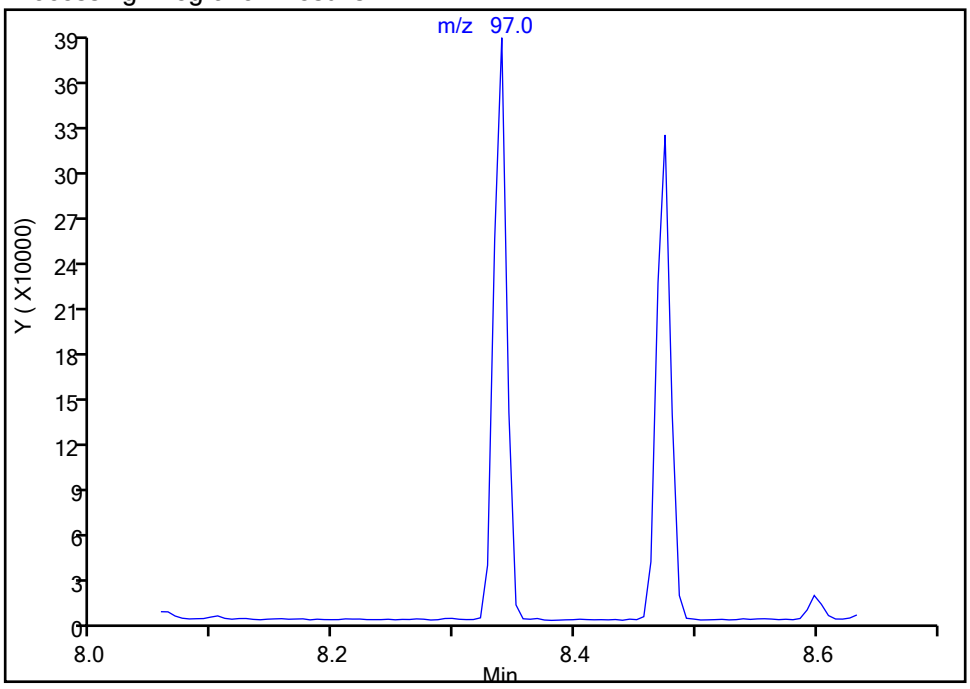
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

114 Sulfotepp, CAS: 3689-24-5

Signal: 1

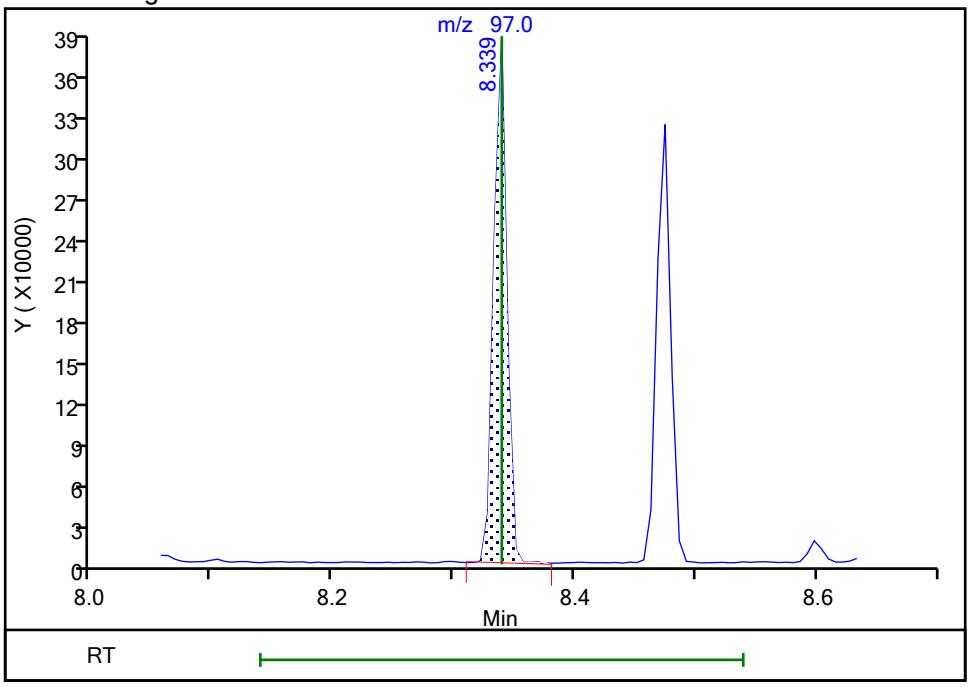
Not Detected
Expected RT: 8.34

Processing Integration Results



Manual Integration Results

RT: 8.34
Area: 292893
Amount: 12.142884
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

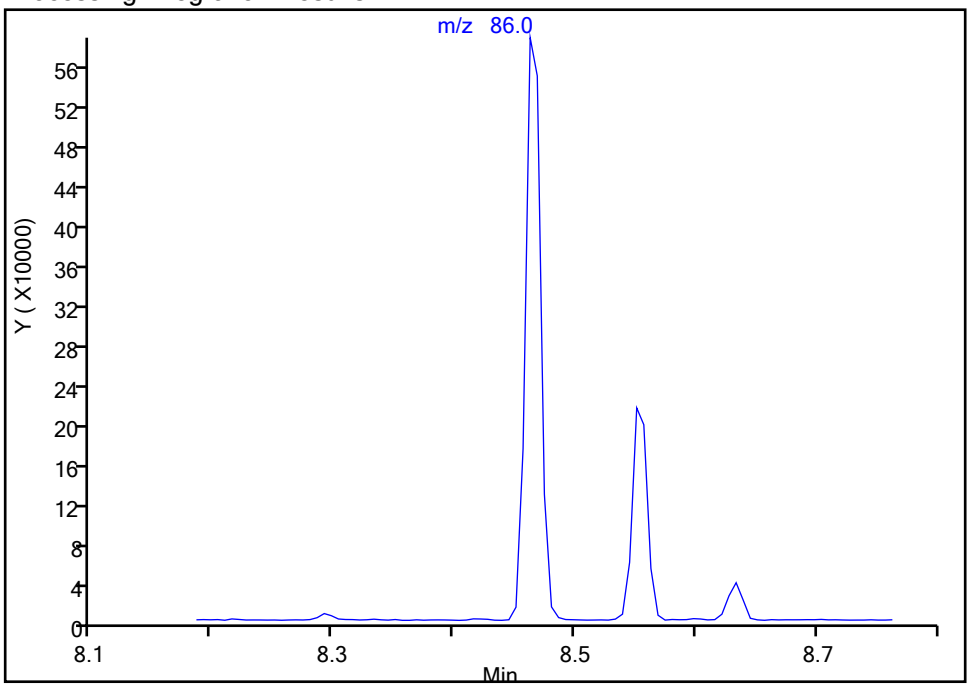
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

115 cis-Diallate, CAS: 17708-57-5

Signal: 1

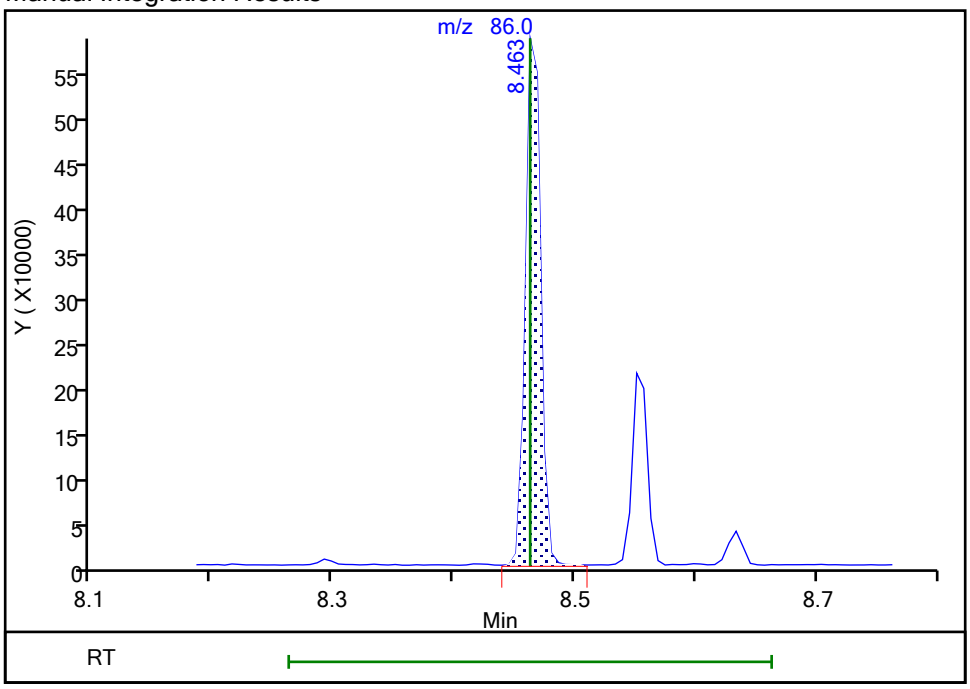
Not Detected
Expected RT: 8.46

Processing Integration Results



Manual Integration Results

RT: 8.46
Area: 514016
Amount: 9.044649
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:39 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

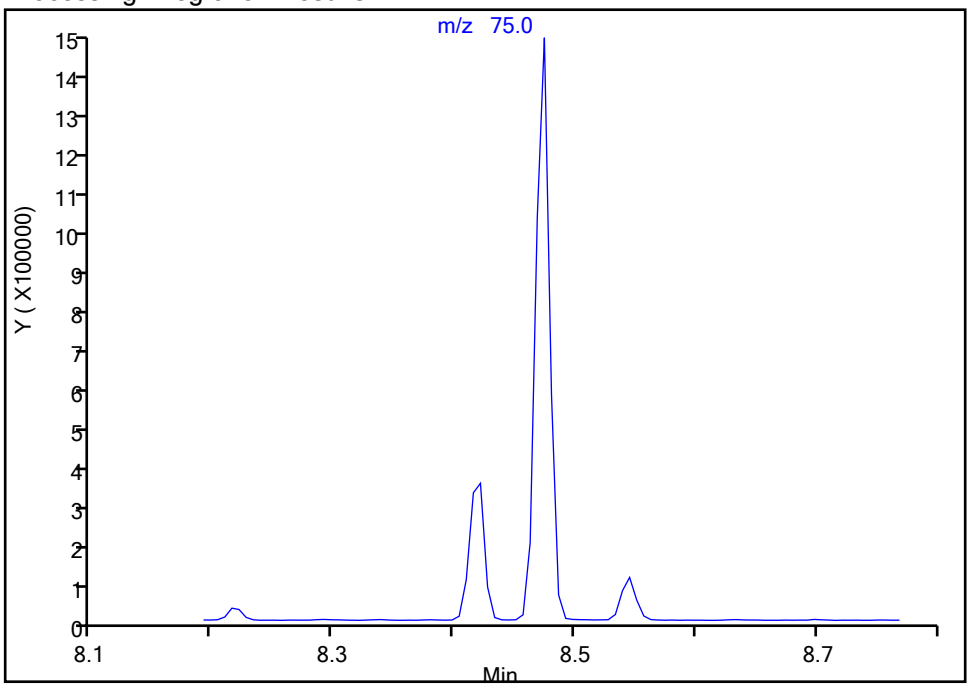
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

116 Phorate, CAS: 298-02-2

Signal: 1

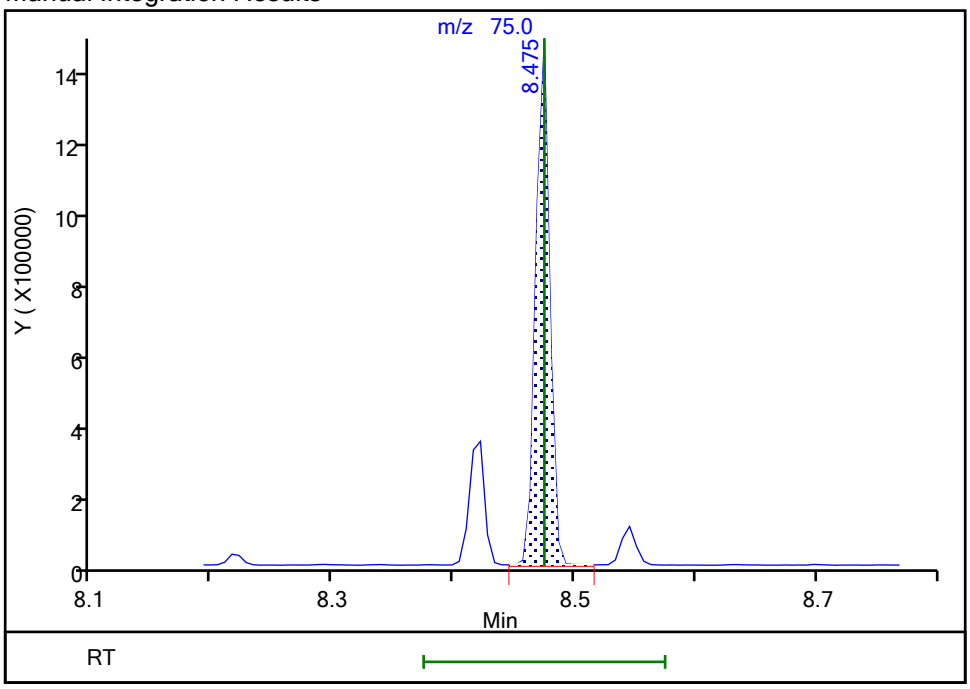
Not Detected
Expected RT: 8.47

Processing Integration Results



Manual Integration Results

RT: 8.47
Area: 1138747
Amount: 12.851903
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:42 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

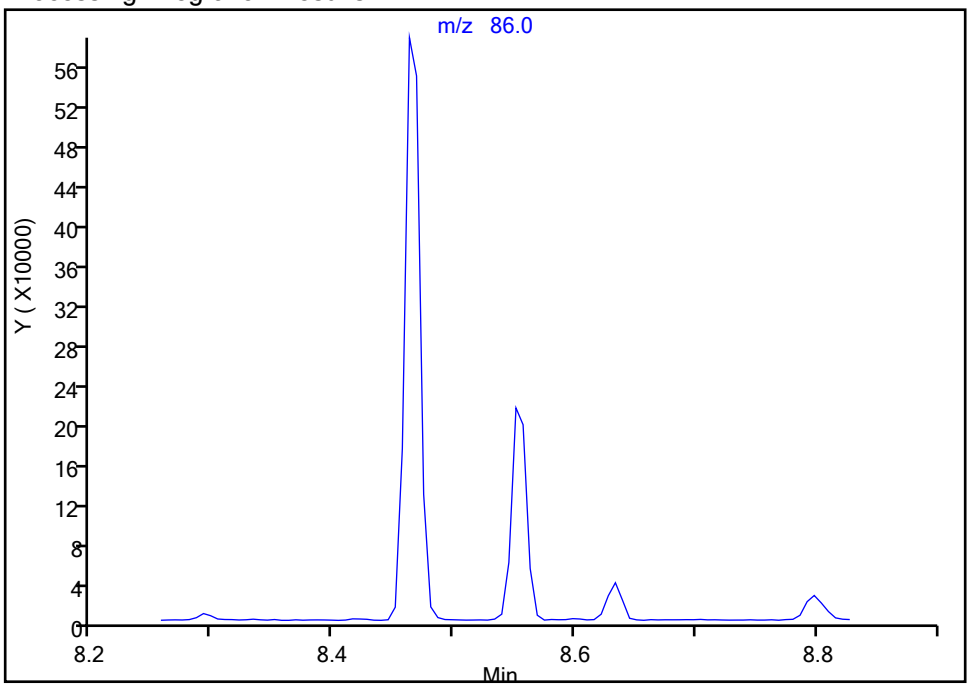
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

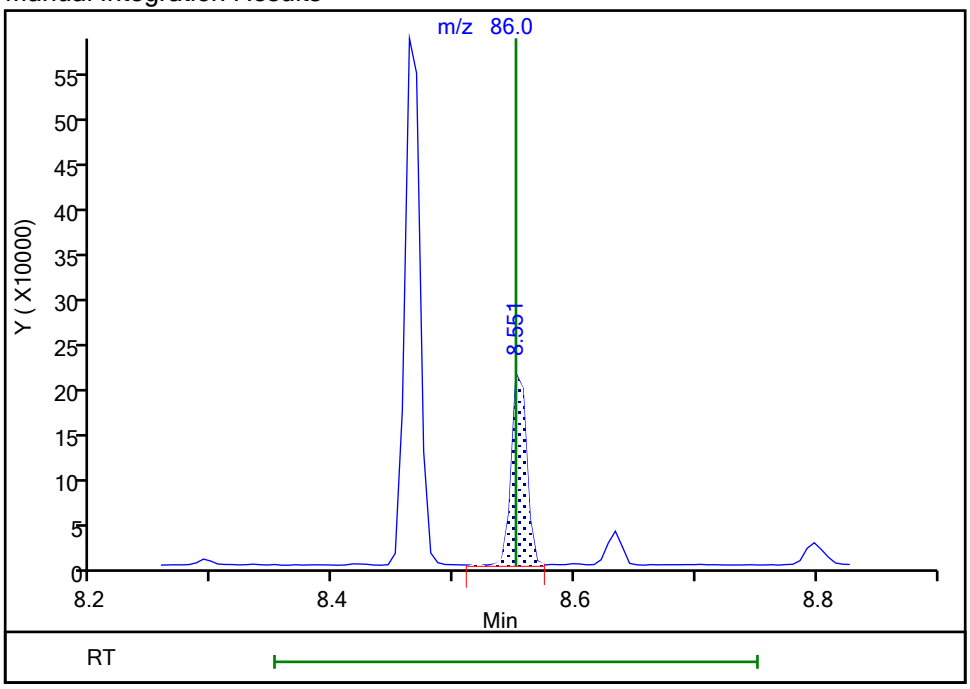
Not Detected
Expected RT: 8.55

Processing Integration Results



Manual Integration Results

RT: 8.55
Area: 187263
Amount: 2.937196
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

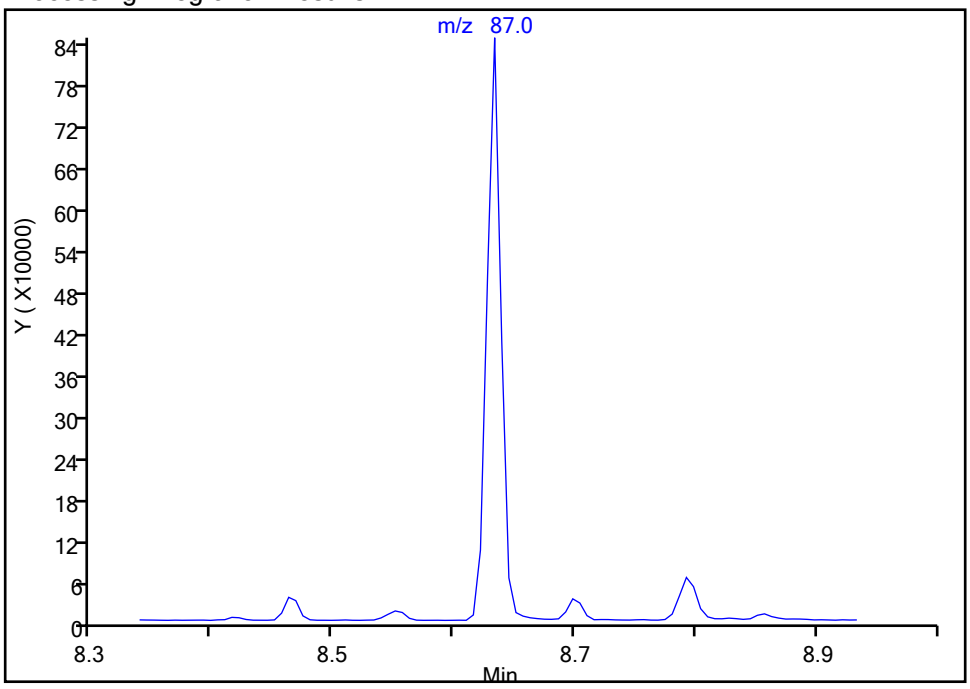
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

121 Dimethoate, CAS: 60-51-5

Signal: 1

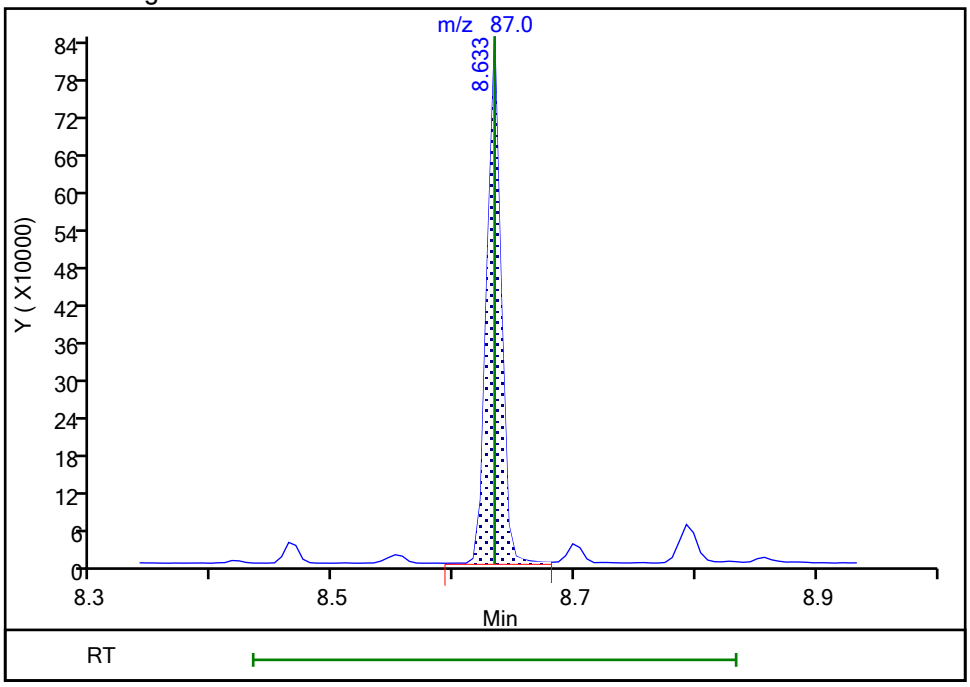
Not Detected
Expected RT: 8.63

Processing Integration Results



Manual Integration Results

RT: 8.63
Area: 688898
Amount: 12.256211
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:49 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

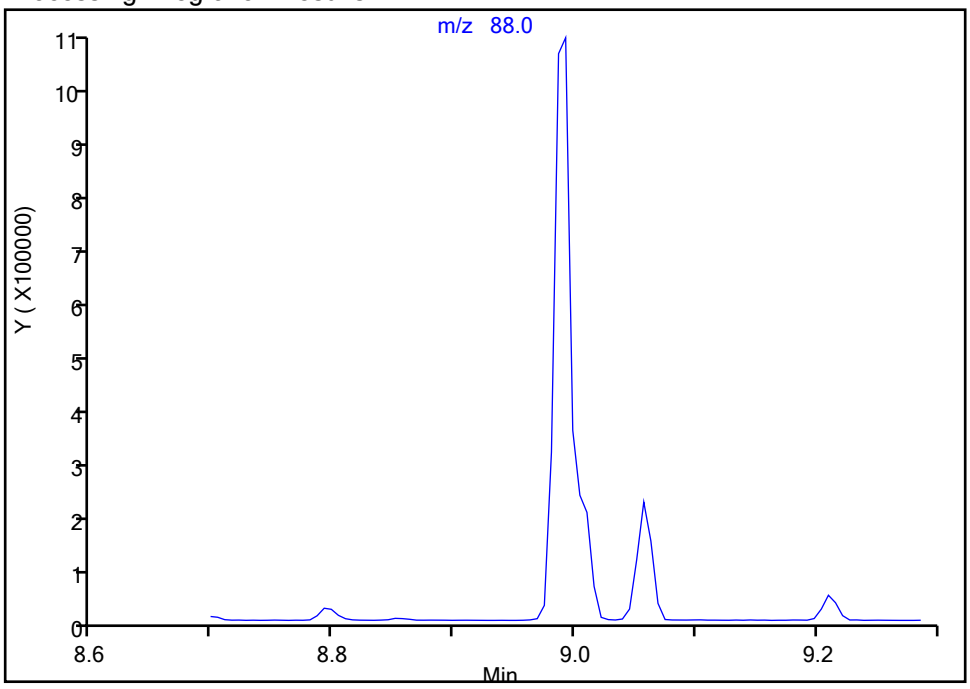
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

70 Disulfoton, CAS: 298-04-4

Signal: 1

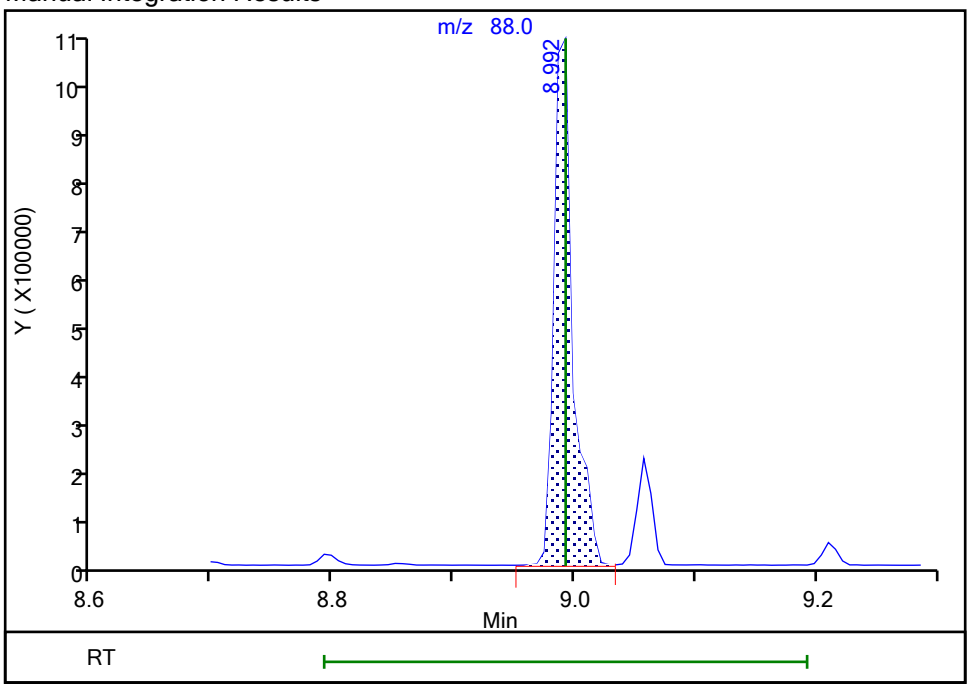
Not Detected
Expected RT: 8.99

Processing Integration Results



Manual Integration Results

RT: 8.99
Area: 1123463
Amount: 12.655878
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:52 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

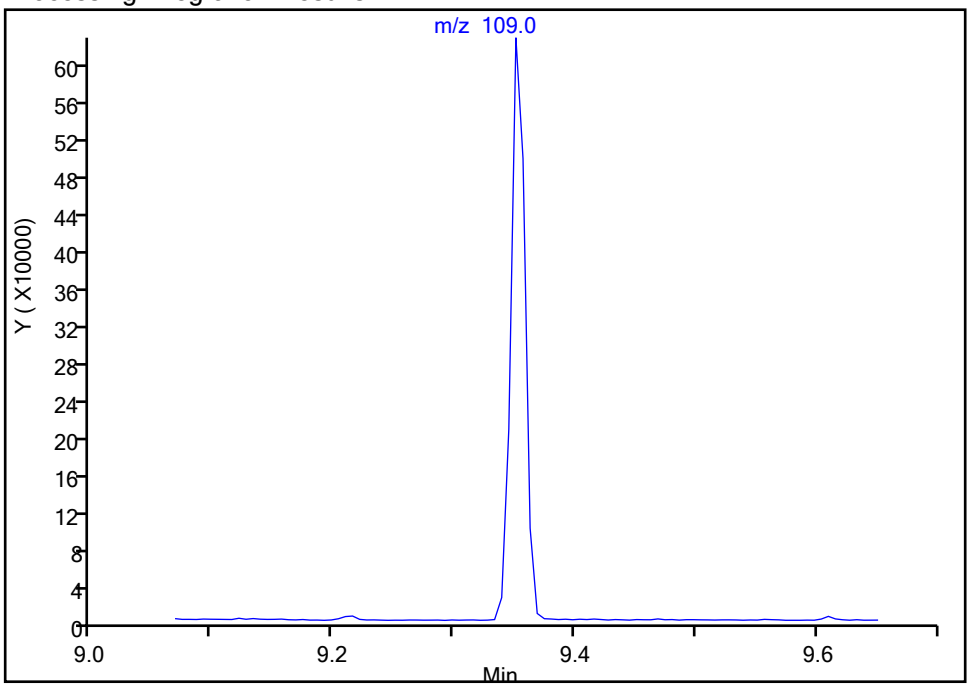
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

132 Methyl parathion, CAS: 298-00-0

Signal: 1

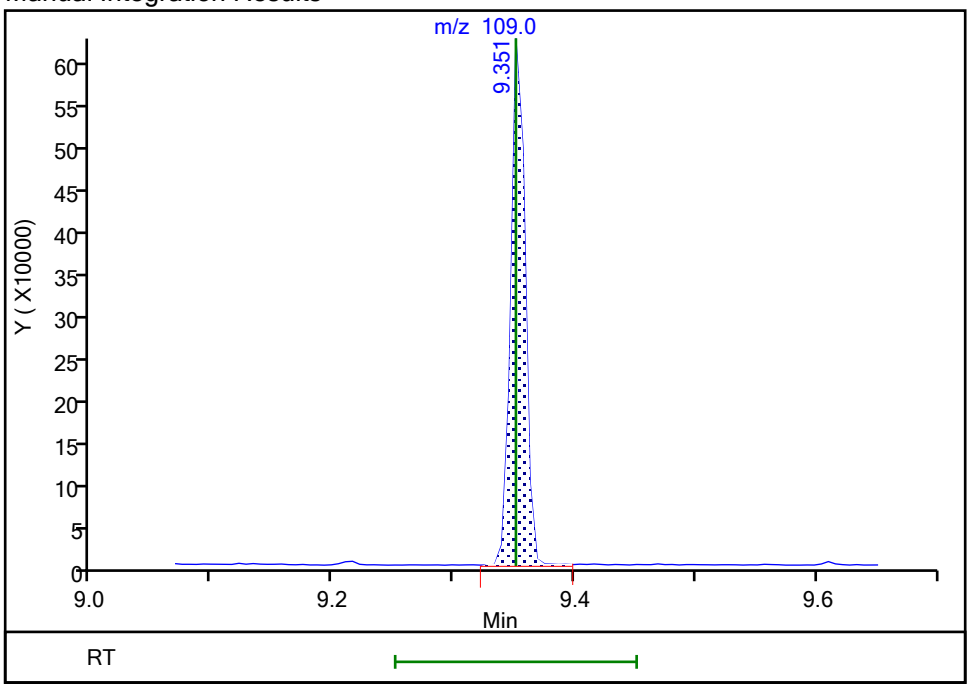
Not Detected
Expected RT: 9.35

Processing Integration Results



Manual Integration Results

RT: 9.35
Area: 520091
Amount: 13.544108
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:58 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

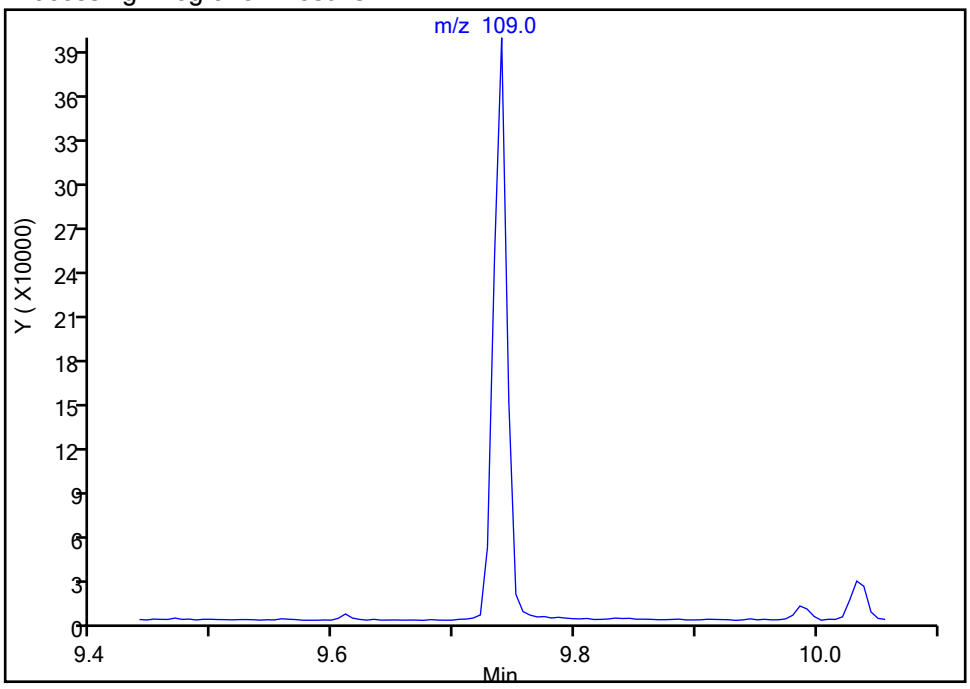
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

134 Ethyl Parathion, CAS: 56-38-2

Signal: 1

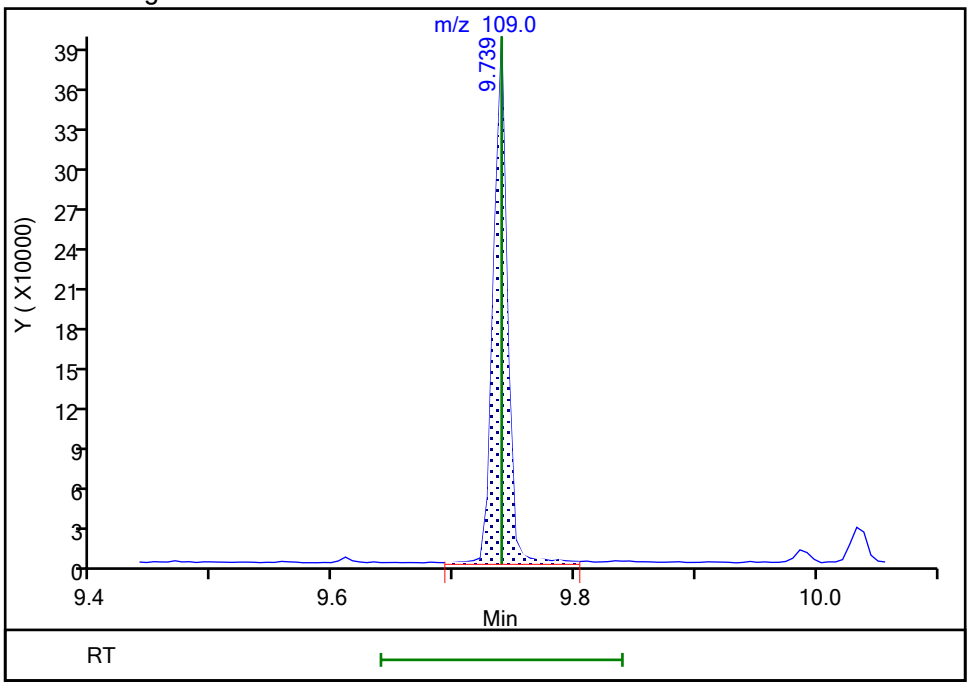
Not Detected
Expected RT: 9.74

Processing Integration Results



Manual Integration Results

RT: 9.74
Area: 314898
Amount: 13.068323
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:25:01 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

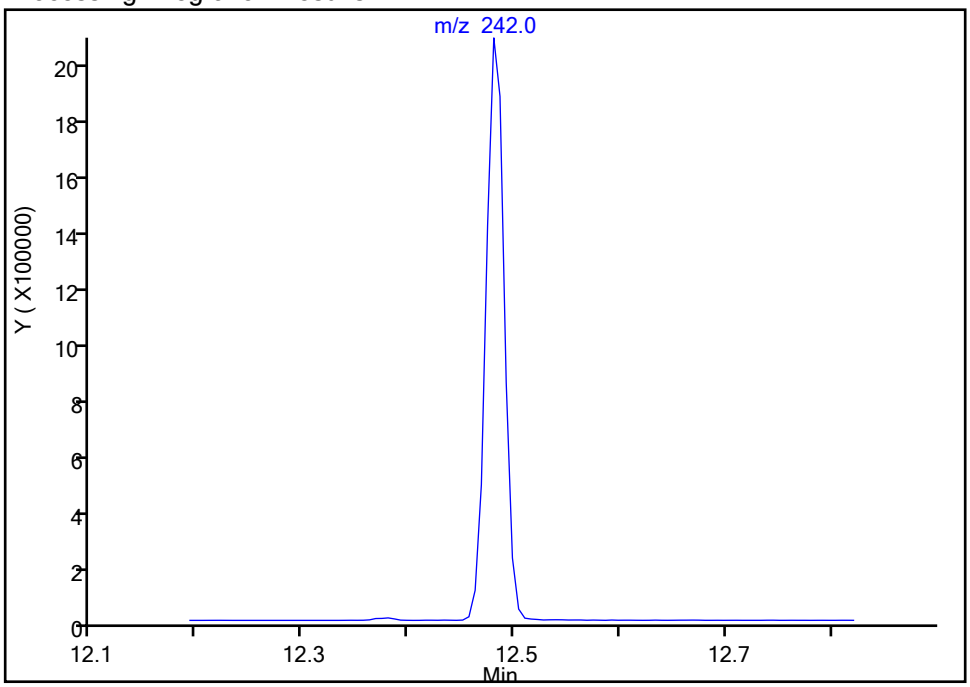
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

153 6-Methylchrysene, CAS: 1705-85-7

Signal: 1

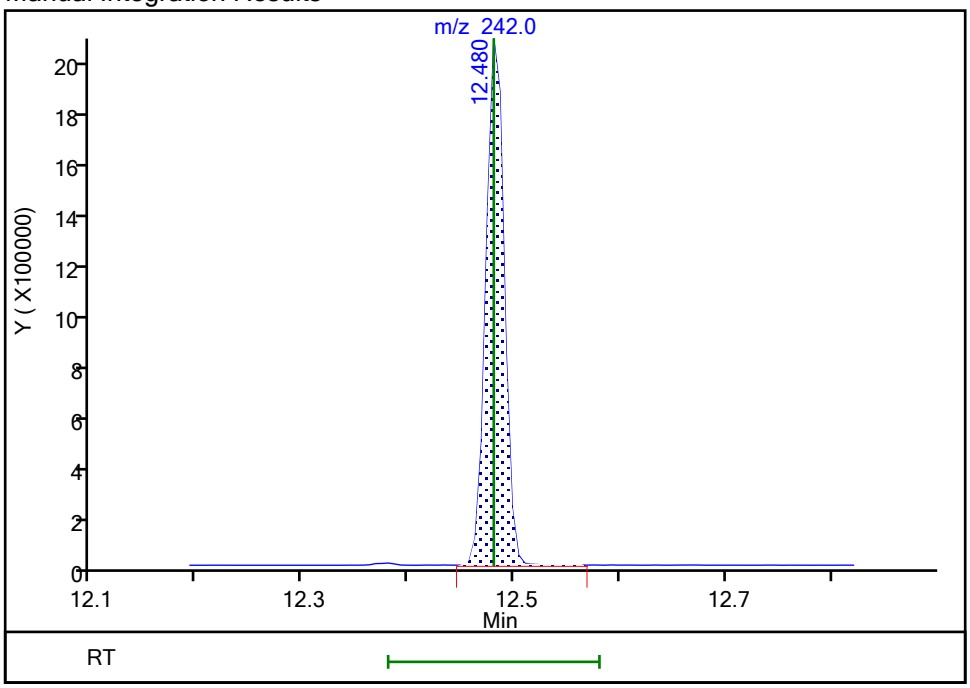
Not Detected
Expected RT: 12.48

Processing Integration Results



Manual Integration Results

RT: 12.48
Area: 2437491
Amount: 12.963130
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:25:06 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

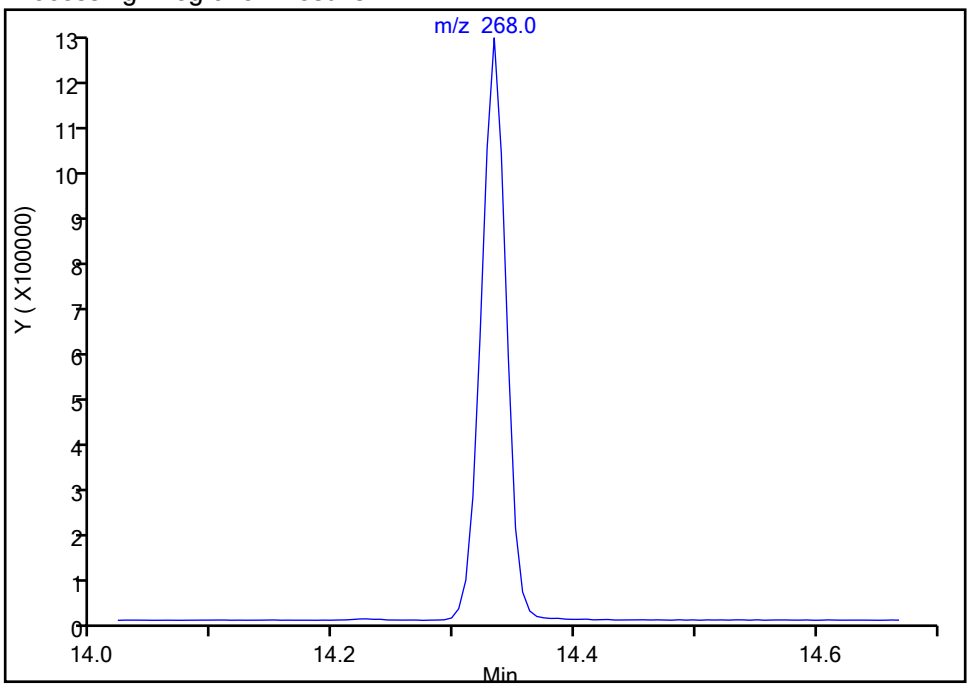
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

160 3-Methylcholanthrene, CAS: 56-49-5

Signal: 1

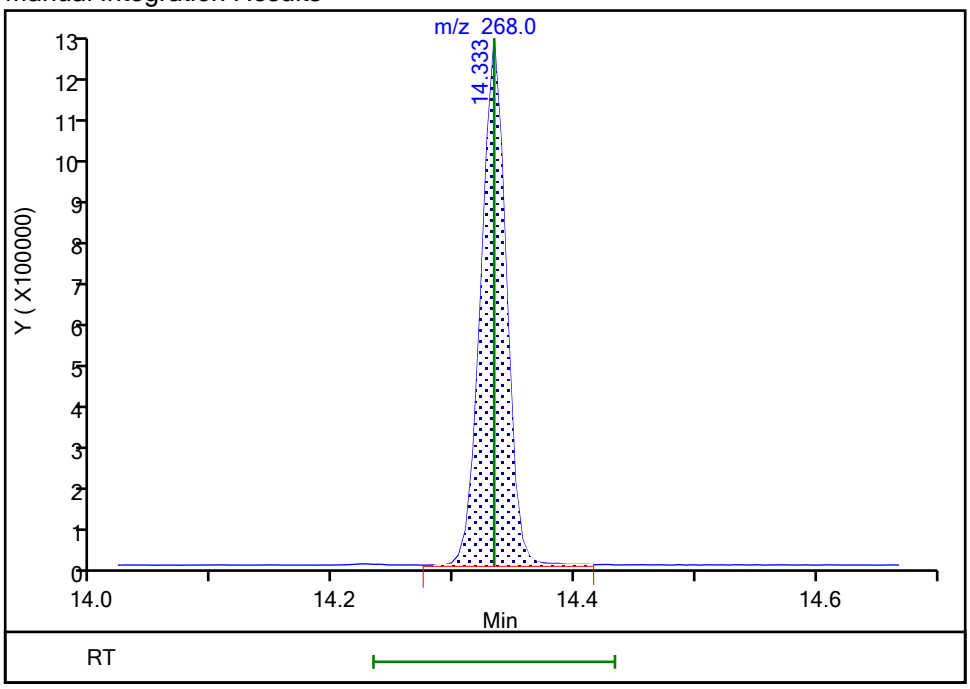
Not Detected
Expected RT: 14.33

Processing Integration Results



Manual Integration Results

RT: 14.33
Area: 1819024
Amount: 13.414336
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:25:10 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

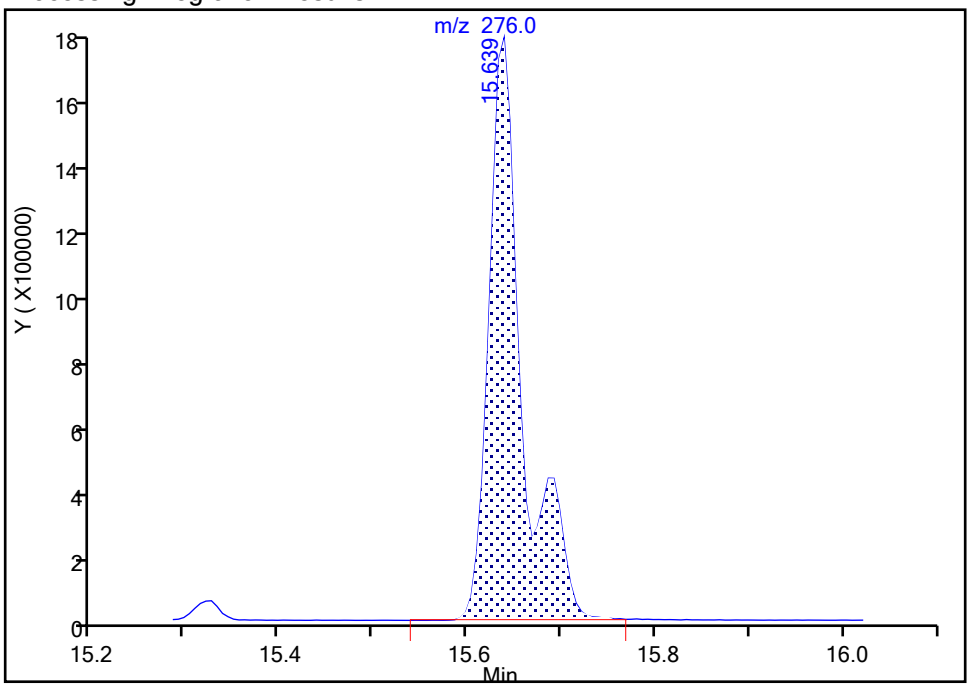
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

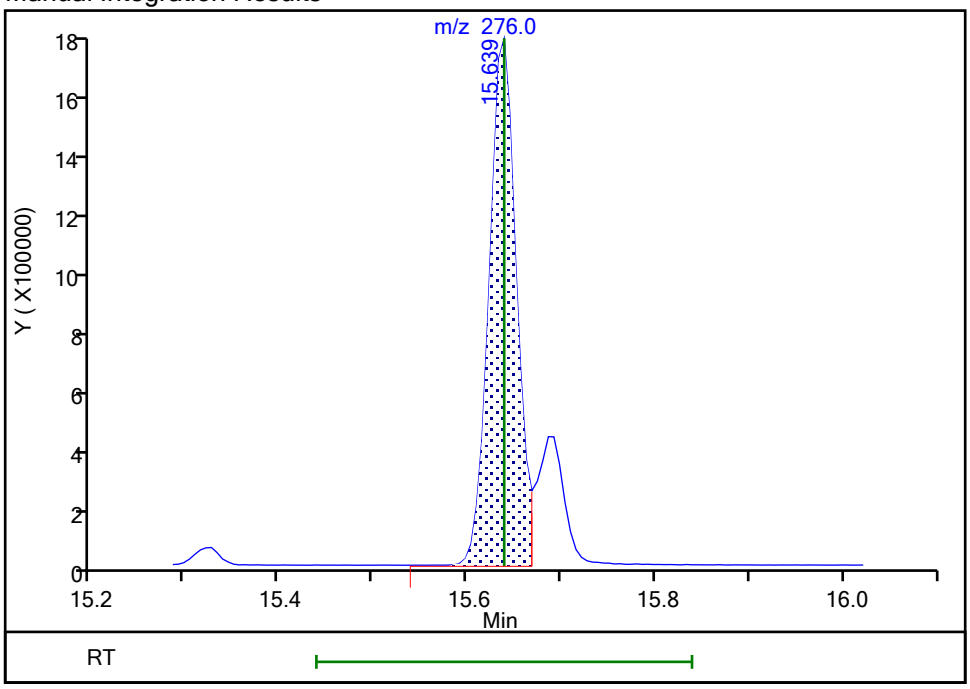
Processing Integration Results

RT: 15.64
Area: 4286575
Amount: 12.500000
Amount Units: ug/ml



Manual Integration Results

RT: 15.64
Area: 3451766
Amount: 14.101937
Amount Units: ug/ml



Reviewer: N5QU, 23-Jun-2025 21:44:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2352.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 23-Jun-2025 21:24:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 410-0151283-003
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:21 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:26:53

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.157	0.000	99	585916	30.0	31.0	
	2 N-Nitrosodimethylamine	74	2.340	2.334	0.006	91	1070312	30.0	32.6	
	3 Pyridine	79	2.375	2.375	0.000	91	3397127	60.0	65.0	
	4 Dimethylformamide	73	2.598	2.604	-0.006	97	1265602	30.0	35.3	
	5 2-Picoline	93	2.887	2.887	0.000	96	1795575	30.0	33.3	
	6 N-Nitrosomethylethylamine	88	2.951	2.951	0.000	96	772786	30.0	31.7	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	990977	30.0	32.7	
$	10 2-Fluorophenol	112	3.334	3.328	0.006	95	2943930	60.0	68.4	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	93	803136	30.0	33.3	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	869789	30.0	31.8	
	15 Benzaldehyde	77	4.116	4.110	0.006	95	1344617	30.0	29.3	
$	16 Phenol-d5	99	4.145	4.146	-0.001	97	4136895	60.0	69.1	
	17 Phenol	94	4.157	4.157	0.000	99	2149365	30.0	33.7	
	18 Aniline	93	4.210	4.204	0.006	97	2648623	30.0	33.3	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	93	1629578	30.0	31.5	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	1562923	30.0	33.5	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	1696809	30.0	31.9	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	180262	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.545	4.546	-0.001	94	1754587	30.0	31.8	
	26 Benzyl alcohol	108	4.645	4.645	0.000	91	1132297	30.0	33.1	
	27 1,2-Dichlorobenzene	146	4.692	4.687	0.005	96	1685219	30.0	32.2	
	30 2-Methylphenol	108	4.751	4.745	0.006	98	1551860	30.0	33.5	
	32 2,2'-oxybis[1-chloropropane]	45	4.787	4.781	0.006	93	2650199	30.0	31.1	
	33 N-Nitrosopyrrolidine	100	4.887	4.881	0.006	88	958215	30.0	33.0	
	36 4-Methylphenol	108	4.898	4.893	0.005	97	1642534	30.0	34.3	
	35 N-Nitrosodi-n-propylamine	70	4.916	4.904	0.012	90	1356722	30.0	30.8	
	34 Acetophenone	105	4.910	4.910	0.000	94	2423879	30.0	31.1	
	37 N-Nitrosomorpholine	56	4.928	4.922	0.006	91	1213497	30.0	29.4	
	38 2-Toluidine	106	4.945	4.940	0.005	96	2616983	30.0	31.3	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	665470	30.0	29.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.063	5.057	0.006	90	3618786	60.0	65.7	
42 Nitrobenzene	77	5.081	5.075	0.006	90	1838333	30.0	30.9	
43 N-Nitrosopiperidine	114	5.228	5.222	0.006	83	899742	30.0	30.8	
45 Isophorone	82	5.316	5.310	0.006	99	3653529	30.0	31.7	
46 2-Nitrophenol	139	5.392	5.393	0.000	97	660786	30.0	36.0	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	97	1815764	30.0	33.6	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	86	952453	30.0	31.3	
51 Bis(2-chloroethoxy)methane	93	5.534	5.528	0.006	99	2205378	30.0	30.9	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	1472716	30.0	36.2	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	1618990	30.0	31.1	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	772262	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	4861596	30.0	30.7	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	1602566	30.0	31.8	
57 4-Chloroaniline	127	5.845	5.845	0.000	95	2247231	30.0	32.4	
58 2,6-Dichlorophenol	162	5.857	5.851	0.006	97	1395533	30.0	34.4	
59 Hexachloropropene	213	5.886	5.887	-0.001	89	1063428	30.0	33.0	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	961330	30.0	31.3	
62 Quinoline	129	6.128	6.122	0.006	96	3614028	30.0	30.7	
63 Caprolactam	113	6.181	6.163	0.018	74	568789	30.0	32.8	
64 N-Nitrosodi-n-butylamine	84	6.186	6.187	-0.001	93	1696110	30.0	35.6	
39 p-Phenylene diamine	108	6.198	6.192	0.006	95	2109823	30.0	32.3	
66 4-Chloro-3-methylphenol	107	6.328	6.322	0.006	98	1630039	30.0	34.4	
67 Safrole, Total	162	6.398	6.398	0.000	92	1425241	30.0	31.3	a
68 2-Methylnaphthalene	142	6.486	6.487	-0.001	92	3177909	30.0	30.8	
69 1-Methylnaphthalene	142	6.586	6.587	-0.001	93	3338709	30.0	31.2	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	94	1237226	30.0	33.6	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	99	1815482	30.0	31.0	
73 Isosafrole Peak 1	162	6.692	6.692	0.000	91	260605	4.80	4.70	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	78	1072342	30.0	36.3	
75 2,4,5-Trichlorophenol	196	6.798	6.792	0.006	95	1349995	30.0	35.2	
$ 76 2-Fluorobiphenyl (Surr)	172	6.857	6.851	0.006	100	7873521	60.0	59.2	e
77 Isosafrole Peak 2	162	6.916	6.916	0.000	93	1510318	25.2	26.9	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	4421399	30.0	30.5	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	98	3298025	30.0	27.6	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	3447951	30.0	32.7	
81 Phenyl ether	170	7.057	7.057	0.000	90	2538626	30.0	30.5	
82 2-Nitroaniline	138	7.069	7.063	0.006	84	1132648	30.0	35.4	
84 1,4-Naphthoquinone	158	7.145	7.139	0.006	92	1478233	30.0	32.1	
85 1,4-Dinitrobenzene	168	7.204	7.198	0.006	93	498163	30.0	37.1	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	4243705	30.0	30.9	
87 1,3-Dinitrobenzene	168	7.275	7.269	0.006	85	615805	30.0	35.6	
88 2,6-Dinitrotoluene	165	7.310	7.304	0.006	95	919160	30.0	34.9	
89 Acenaphthylene	152	7.381	7.381	0.000	98	5808201	30.0	32.1	
90 3-Nitroaniline	138	7.469	7.469	0.000	94	1086550	30.0	36.3	
* 91 Acenaphthene-d10	164	7.522	7.522	0.000	95	492767	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	3725382	30.0	30.4	
94 2,4-Dinitrophenol	184	7.575	7.569	0.006	84	436921	60.0	72.7	
95 4-Nitrophenol	109	7.633	7.622	0.011	94	1121903	60.0	68.9	
96 Pentachlorobenzene	250	7.680	7.681	-0.001	98	1732323	30.0	30.6	
98 2,4-Dinitrotoluene	165	7.704	7.704	0.000	94	1284173	30.0	36.9	
97 Dibenzofuran	168	7.728	7.722	0.006	96	5188788	30.0	30.2	
99 1-Naphthylamine	143	7.798	7.798	0.000	99	3887578	30.0	32.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	1144363	30.0	34.9	
103 2-Naphthylamine	143	7.880	7.875	0.005	97	4200452	30.0	31.9	
104 Diethyl phthalate	149	7.957	7.951	0.006	98	4371310	30.0	31.6	
106 Thionazin	107	8.033	8.028	0.005	80	693102	30.0	32.3	
105 Fluorene	166	8.063	8.063	0.000	93	4318770	30.0	30.5	
108 4-Chlorophenyl phenyl ether	204	8.069	8.063	0.006	90	2081156	30.0	29.8	
107 N-Nitro-o-toluidine	152	8.069	8.063	0.006	84	1184422	30.0	33.8	
109 4-Nitroaniline	138	8.075	8.069	0.006	82	1151599	30.0	34.5	
110 4,6-Dinitro-2-methylphenol	198	8.110	8.098	0.012	85	765601	60.0	60.1	
111 N-Nitrosodiphenylamine	169	8.180	8.175	0.005	78	3203113	25.5	26.7	
112 1,2-Diphenylhydrazine	77	8.222	8.216	0.006	98	4505310	30.0	30.2	
$ 113 2,4,6-Tribromophenol	330	8.298	8.298	0.000	94	1452291	60.0	70.3	
114 Sulfotepp	97	8.339	8.339	0.000	83	746466	30.0	30.5	
172 1,3,5-Trinitrobenzene	213	8.428	8.422	0.006	84	409513	30.0	29.8	
115 cis-Diallate	86	8.469	8.463	0.006	88	1332648	22.2	23.1	
117 Phenacetin	108	8.486	8.475	0.011	95	2307996	30.0	34.0	
116 Phorate	75	8.475	8.475	0.000	96	2945592	30.0	32.8	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	1363229	30.0	30.4	
119 trans-Diallate	86	8.557	8.551	0.006	89	465873	7.80	7.21	
120 Hexachlorobenzene	284	8.604	8.604	0.000	96	1590919	30.0	29.6	
121 Dimethoate	87	8.639	8.633	0.006	96	1797572	30.0	31.4	
122 Atrazine	200	8.704	8.704	0.000	93	1314378	30.0	30.8	
123 Pentachlorophenol	266	8.798	8.792	0.006	93	1623468	60.0	63.4	
125 4-Aminobiphenyl	169	8.798	8.798	0.000	91	5387267	30.0	31.3	
124 Pentachloronitrobenzene	237	8.810	8.804	0.006	89	641763	30.0	34.5	
126 Pronamide	173	8.863	8.857	0.006	91	2213986	30.0	32.4	
128 Dinoseb	211	8.980	8.975	0.005	97	590885	30.0	39.1	
* 127 Phenanthrene-d10	188	8.986	8.986	0.000	97	1010504	5.00	5.00	
70 Disulfoton	88	8.992	8.992	0.000	98	2816559	30.0	31.5	
129 Phenanthrene	178	9.010	9.010	0.000	96	6514945	30.0	28.9	
S 56 Dinitrotoluene	165				0		60.0	71.8	
130 Anthracene	178	9.063	9.057	0.006	97	6817317	30.0	30.9	
131 Carbazole	167	9.216	9.210	0.006	96	6455626	30.0	31.2	
132 Methyl parathion	109	9.357	9.351	0.006	96	1453069	30.0	37.3	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	7401419	30.0	33.4	e
S 65 Diallate	86				0		30.0	30.4	
134 Ethyl Parathion	109	9.739	9.739	0.000	85	870769	30.0	35.7	
135 4-Nitroquinoline-1-oxide	190	9.763	9.763	0.000	91	708886	30.0	29.8	
136 Octachlorostyrene	308	9.992	9.992	0.000	91	686950	30.0	31.0	
137 Isodrin	193	10.033	10.033	0.000	96	850969	30.0	30.2	
138 Fluoranthene	202	10.180	10.180	0.000	98	7478603	30.0	29.7	e
139 Benzidine	184	10.322	10.310	0.012	98	11381467	90.0	71.0	e
* 140 Pyrene-d10 (IS)	212	10.392	10.392	0.000	99	1092082	5.00	5.00	
141 Pyrene	202	10.410	10.410	0.000	97	8041097	30.0	30.0	
$ 142 p-Terphenyl-d14	244	10.580	10.575	0.005	98	9437375	60.0	53.2	e
143 p-Dimethylamino azobenzene	225	10.727	10.727	0.000	94	1701131	30.0	35.1	
144 Chlorobenzilate	139	10.780	10.780	0.000	92	2439510	30.0	36.0	
145 3,3'-Dimethylbenzidine	212	11.110	11.110	0.000	99	5372061	30.0	33.4	
146 Butyl benzyl phthalate	149	11.133	11.133	0.000	98	3520276	30.0	35.8	
147 2-Acetylaminofluorene	181	11.410	11.410	0.000	95	3375715	30.0	36.9	
149 3,3'-Dichlorobenzidine	252	11.786	11.780	0.006	75	3514329	30.0	35.0	
150 4,4'-Methylene bis(2-chloroani	231	11.792	11.786	0.006	96	1855930	30.0	35.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.816	11.816	0.000	98	8729785	30.0	33.5	
151 Chrysene	228	11.868	11.863	0.005	96	8064605	30.0	31.9	
152 Bis(2-ethylhexyl) phthalate	149	11.880	11.880	0.000	97	5300608	30.0	35.4	
153 6-Methylchrysene	242	12.486	12.480	0.006	99	6200422	30.0	34.3	
154 Di-n-octyl phthalate	149	12.810	12.810	0.000	99	8685140	30.0	33.2	
156 7,12-Dimethylbenz(a)anthracene	256	13.327	13.321	0.006	89	4069692	30.0	34.1	
155 Benzo[b]fluoranthene	252	13.333	13.321	0.012	96	9171292	30.0	32.8	
157 Benzo[k]fluoranthene	252	13.374	13.368	0.006	98	8789934	30.0	31.6	
158 Benzo[a]pyrene	252	13.804	13.798	0.006	76	8247439	30.0	33.2	
* 159 Perylene-d12	264	13.886	13.880	0.006	99	1127133	5.00	5.00	
160 3-Methylcholanthrene	268	14.339	14.333	0.006	91	4426700	30.0	35.1	
161 Dibenz[a,h]acridine	279	15.239	15.233	0.006	90	6543528	30.0	34.2	
162 Dibenz[a,j]acridine	279	15.327	15.321	0.006	96	6805651	30.0	34.8	
163 Indeno[1,2,3-cd]pyrene	276	15.651	15.639	0.012	99	7707740	30.0	33.8	
164 Dibenz(a,h)anthracene	278	15.698	15.692	0.006	93	7739504	30.0	33.7	
165 Benzo[g,h,i]perylene	276	16.156	16.145	0.011	98	7216315	30.0	31.6	
S 166 Isosafrole	162				0		30.0	31.6	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270_8_00044 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:22 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2352.D

Injection Date: 23-Jun-2025 21:24:30 Instrument ID: HP18831 Operator ID: IR93211

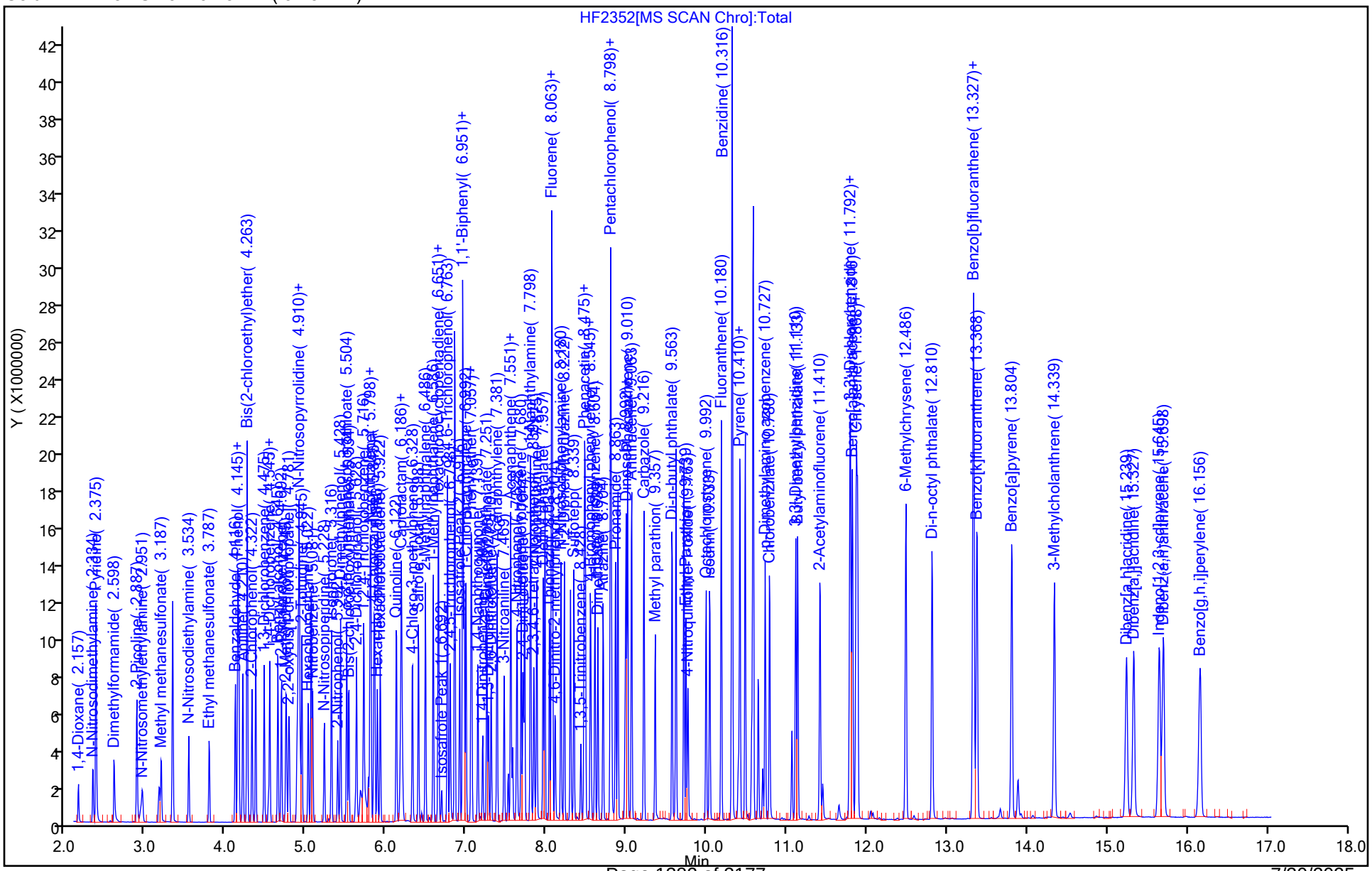
Lims ID: IC L8 Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

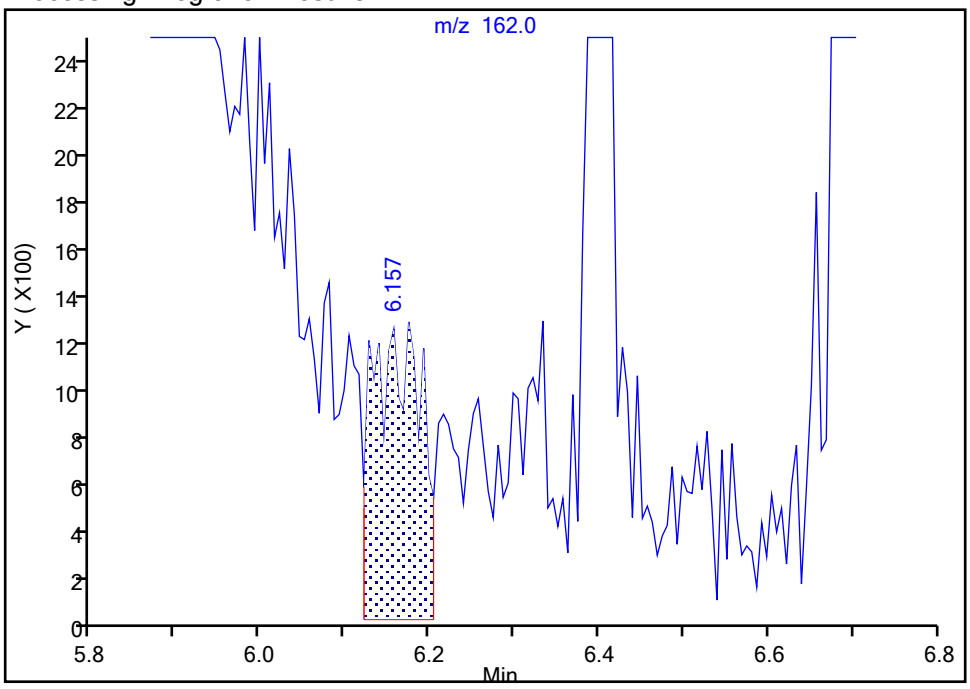
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2352.D				
Injection Date:	23-Jun-2025 21:24:30	Instrument ID:	HP18831		
Lims ID:	IC L8				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

67 Safrole, Total, CAS: 94-59-7

Signal: 1

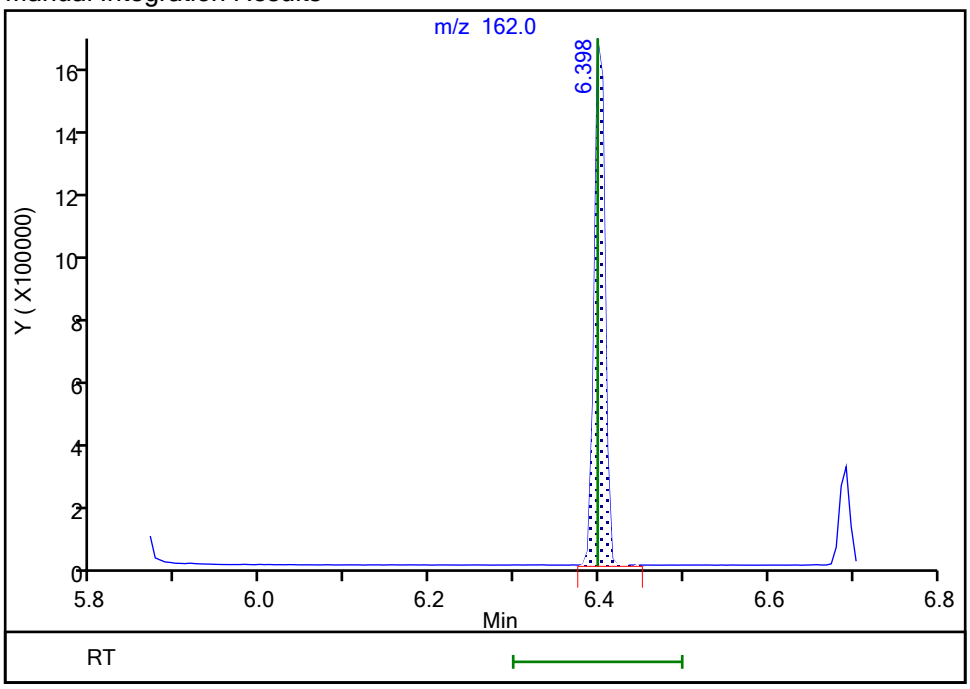
Processing Integration Results

RT: 6.16
Area: 4793
Amount: 30.000000
Amount Units: ug/ml



Manual Integration Results

RT: 6.40
Area: 1425241
Amount: 31.337151
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:26:37 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2353.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jun-2025 21:46:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 410-0151283-004
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:40 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:53:40

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.157	0.000	99	392482	20.0	18.8	
	2 N-Nitrosodimethylamine	74	2.340	2.334	0.006	91	695394	20.0	19.2	
	3 Pyridine	79	2.375	2.375	0.000	91	2223563	40.0	38.6	
	4 Dimethylformamide	73	2.604	2.604	0.000	97	802414	20.0	20.3	
	5 2-Picoline	93	2.887	2.887	0.000	95	1194858	20.0	20.1	
	6 N-Nitrosomethylethylamine	88	2.957	2.951	0.006	97	509970	20.0	19.0	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	656620	20.0	19.6	
$	10 2-Fluorophenol	112	3.334	3.328	0.006	95	1943987	40.0	40.9	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	530330	20.0	19.9	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	589104	20.0	19.5	
	15 Benzaldehyde	77	4.116	4.110	0.006	95	974168	20.0	19.2	
$	16 Phenol-d5	99	4.145	4.146	-0.001	97	2757645	40.0	41.7	
	17 Phenol	94	4.157	4.157	0.000	99	1438294	20.0	20.4	
	18 Aniline	93	4.210	4.204	0.006	96	1751137	20.0	20.0	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	92	1103940	20.0	19.3	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	1043221	20.0	20.3	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	1141375	20.0	19.4	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	97	199008	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.545	4.546	-0.001	93	1168044	20.0	19.1	
	26 Benzyl alcohol	108	4.645	4.645	0.000	91	760231	20.0	20.1	
	27 1,2-Dichlorobenzene	146	4.693	4.687	0.005	96	1136695	20.0	19.7	
	30 2-Methylphenol	108	4.745	4.745	0.000	98	1052687	20.0	20.6	
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1801049	20.0	19.1	
	33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	88	661589	20.0	20.7	
	36 4-Methylphenol	108	4.898	4.893	0.005	96	1115254	20.0	21.1	
	35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	89	938346	20.0	19.3	
	34 Acetophenone	105	4.910	4.910	0.000	92	1672757	20.0	19.5	
	37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	841595	20.0	18.4	
	38 2-Toluidine	106	4.945	4.940	0.005	96	1808923	20.0	19.6	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	452351	20.0	18.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	2432038	40.0	39.4	
42 Nitrobenzene	77	5.081	5.075	0.006	90	1239161	20.0	18.6	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	83	631315	20.0	19.3	
45 Isophorone	82	5.316	5.310	0.006	99	2544924	20.0	19.7	
46 2-Nitrophenol	139	5.392	5.393	0.000	96	462229	20.0	22.5	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	1206246	20.0	19.9	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	668111	20.0	19.6	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1522951	20.0	19.0	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	990150	20.0	21.7	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	1099603	20.0	18.9	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	865212	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	3395370	20.0	19.1	
29 Alpha-Terpineol	59	5.804	5.804	0.000	95	1112649	20.0	19.7	
57 4-Chloroaniline	127	5.845	5.845	0.000	96	1533475	20.0	19.7	
58 2,6-Dichlorophenol	162	5.857	5.851	0.006	97	963749	20.0	21.2	
59 Hexachloropropene	213	5.887	5.887	0.000	88	743527	20.0	20.6	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	94	673159	20.0	19.6	
62 Quinoline	129	6.122	6.122	0.000	96	2465943	20.0	18.7	
63 Caprolactam	113	6.169	6.163	0.006	75	411112	20.0	21.2	
64 N-Nitrosodi-n-butylamine	84	6.187	6.187	0.000	94	1215352	20.0	22.7	
39 p-Phenylene diamine	108	6.192	6.192	0.000	95	1467877	20.0	20.1	
66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	1106513	20.0	20.9	
67 Safrole, Total	162	6.398	6.398	0.000	92	1003445	20.0	19.7	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	2186741	20.0	18.9	
69 1-Methylnaphthalene	142	6.587	6.587	-0.001	93	2329833	20.0	19.4	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	96	844318	20.0	20.4	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	1280981	20.0	19.5	
73 Isosafrole Peak 1	162	6.692	6.692	0.000	91	181022	3.20	2.91	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	78	751662	20.0	22.7	
75 2,4,5-Trichlorophenol	196	6.792	6.792	0.000	95	914896	20.0	21.3	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	5668160	40.0	38.0	
77 Isosafrole Peak 2	162	6.916	6.916	0.000	95	1066006	16.8	16.9	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	3122707	20.0	19.2	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	97	2459968	20.0	18.4	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	99	2329416	20.0	19.7	
81 Phenyl ether	170	7.057	7.057	0.000	89	1772151	20.0	19.0	
82 2-Nitroaniline	138	7.063	7.063	0.000	85	776980	20.0	21.7	
84 1,4-Naphthoquinone	158	7.139	7.139	0.000	90	1073389	20.0	20.8	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	92	337681	20.0	22.4	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	3014388	20.0	19.6	
87 1,3-Dinitrobenzene	168	7.275	7.269	0.006	86	416969	20.0	21.5	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	96	635232	20.0	21.5	
89 Acenaphthylene	152	7.381	7.381	0.000	98	3985042	20.0	19.6	
90 3-Nitroaniline	138	7.469	7.469	0.000	94	735296	20.0	21.9	
* 91 Acenaphthene-d10	164	7.522	7.522	0.000	95	552270	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	2613160	20.0	19.0	
94 2,4-Dinitrophenol	184	7.575	7.569	0.006	86	297535	40.0	44.1	
95 4-Nitrophenol	109	7.628	7.622	0.006	95	759402	40.0	41.6	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	1209064	20.0	19.1	
98 2,4-Dinitrotoluene	165	7.704	7.704	0.000	95	875217	20.0	22.4	
97 Dibenzofuran	168	7.722	7.722	0.000	96	3643672	20.0	18.9	
99 1-Naphthylamine	143	7.798	7.798	0.000	99	2741400	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	797506	20.0	21.7	
103 2-Naphthylamine	143	7.875	7.875	0.000	96	2886299	20.0	19.5	
104 Diethyl phthalate	149	7.951	7.951	0.000	98	3115333	20.0	20.1	
106 Thionazin	107	8.033	8.028	0.005	80	483536	20.0	20.1	
105 Fluorene	166	8.063	8.063	0.000	95	3037091	20.0	19.1	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	90	1445403	20.0	18.5	
107 N-Nitro-o-toluidine	152	8.069	8.063	0.006	75	829827	20.0	21.1	
109 4-Nitroaniline	138	8.069	8.069	0.000	86	788876	20.0	21.1	
110 4,6-Dinitro-2-methylphenol	198	8.104	8.098	0.006	84	511431	40.0	40.7	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	82	2257087	17.0	17.0	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	3163930	20.0	19.1	
$ 113 2,4,6-Tribromophenol	330	8.298	8.298	0.000	94	1015048	40.0	43.8	
114 Sulfotepp	97	8.339	8.339	0.000	81	527070	20.0	19.5	
172 1,3,5-Trinitrobenzene	213	8.422	8.422	0.000	84	269120	20.0	20.6	
115 cis-Diallate	86	8.463	8.463	0.000	88	941880	14.8	14.8	
117 Phenacetin	108	8.481	8.475	0.005	96	1592442	20.0	21.2	
116 Phorate	75	8.475	8.475	0.000	96	2036176	20.0	20.5	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	970159	20.0	19.6	
119 trans-Diallate	86	8.551	8.551	0.000	89	322605	5.20	4.51	
120 Hexachlorobenzene	284	8.604	8.604	0.000	96	1107011	20.0	18.6	
121 Dimethoate	87	8.633	8.633	0.000	95	1237601	20.0	19.6	
122 Atrazine	200	8.704	8.704	0.000	94	991784	20.0	21.0	
123 Pentachlorophenol	266	8.792	8.792	0.000	94	1143639	40.0	40.7	
125 4-Aminobiphenyl	169	8.798	8.798	0.000	91	3782420	20.0	19.9	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	88	440676	20.0	21.4	
126 Pronamide	173	8.857	8.857	0.000	91	1548970	20.0	20.5	
128 Dinoseb	211	8.975	8.975	0.000	97	383911	20.0	22.9	
* 127 Phenanthrene-d10	188	8.986	8.986	0.000	98	1118695	5.00	5.00	
70 Disulfoton	88	8.986	8.992	-0.006	97	1984746	20.0	20.0	
129 Phenanthrene	178	9.010	9.010	0.000	96	4623079	20.0	18.5	
S 56 Dinitrotoluene	165				0		40.0	44.0	
130 Anthracene	178	9.057	9.057	0.000	98	4771801	20.0	19.5	
131 Carbazole	167	9.216	9.210	0.006	96	4471386	20.0	19.5	
132 Methyl parathion	109	9.351	9.351	0.000	95	986630	20.0	22.9	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	5175034	20.0	21.1	
S 65 Diallate	86				0		20.0	19.3	
134 Ethyl Parathion	109	9.739	9.739	0.000	86	594263	20.0	22.0	
135 4-Nitroquinoline-1-oxide	190	9.763	9.763	0.000	92	469073	20.0	20.4	
136 Octachlorostyrene	308	9.992	9.992	0.000	92	481176	20.0	19.6	
137 Isodrin	193	10.033	10.033	0.000	94	587828	20.0	18.8	
138 Fluoranthene	202	10.180	10.180	0.000	97	5559488	20.0	20.0	
139 Benzidine	184	10.316	10.310	0.006	97	9804349	60.0	54.9	e
* 140 Pyrene-d10 (IS)	212	10.392	10.392	0.000	99	1217175	5.00	5.00	
141 Pyrene	202	10.410	10.410	0.000	98	5674130	20.0	19.0	
$ 142 p-Terphenyl-d14	244	10.574	10.575	-0.001	100	7810155	40.0	39.5	
143 p-Dimethylamino azobenzene	225	10.727	10.727	0.000	94	1172337	20.0	21.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1641242	20.0	21.7	
145 3,3'-Dimethylbenzidine	212	11.104	11.110	-0.006	99	3633701	20.0	20.3	
146 Butyl benzyl phthalate	149	11.133	11.133	0.000	98	2315251	20.0	21.1	
147 2-Acetylaminofluorene	181	11.404	11.410	-0.006	94	2106943	20.0	20.7	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	75	2320135	20.0	20.7	
150 4,4'-Methylene bis(2-chloroani	231	11.792	11.786	0.006	96	1226696	20.0	21.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.816	11.816	0.000	98	5836163	20.0	20.1	
151 Chrysene	228	11.863	11.863	0.000	96	5493958	20.0	19.5	
152 Bis(2-ethylhexyl) phthalate	149	11.880	11.880	0.000	97	3517082	20.0	21.1	
153 6-Methylchrysene	242	12.480	12.480	0.000	98	4028847	20.0	20.0	
154 Di-n-octyl phthalate	149	12.810	12.810	0.000	99	5383732	20.0	21.6	
156 7,12-Dimethylbenz(a)anthracene	256	13.321	13.321	0.000	89	2572947	20.0	22.4	
155 Benzo[b]fluoranthene	252	13.321	13.321	0.000	97	5743222	20.0	21.3	
157 Benzo[k]fluoranthene	252	13.363	13.368	-0.005	99	5621656	20.0	21.0	
158 Benzo[a]pyrene	252	13.798	13.798	0.000	76	5076256	20.0	21.2	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1084510	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.333	0.000	91	2570719	20.0	21.2	
161 Dibenz[a,h]acridine	279	15.233	15.233	0.000	90	3745824	20.0	20.4	
162 Dibenz[a,j]acridine	279	15.321	15.321	0.000	96	3836887	20.0	20.4	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.639	0.000	99	4427721	20.0	20.2	
164 Dibenz(a,h)anthracene	278	15.686	15.692	-0.006	92	4341484	20.0	19.6	
165 Benzo[g,h,i]perylene	276	16.145	16.145	0.000	99	4159295	20.0	18.9	
S 166 Isosafrole	162				0		20.0	19.9	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

MSS_RV8270_7_00045 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:41 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2353.D

Injection Date: 23-Jun-2025 21:46:30 Instrument ID: HP18831 Operator ID: IR93211

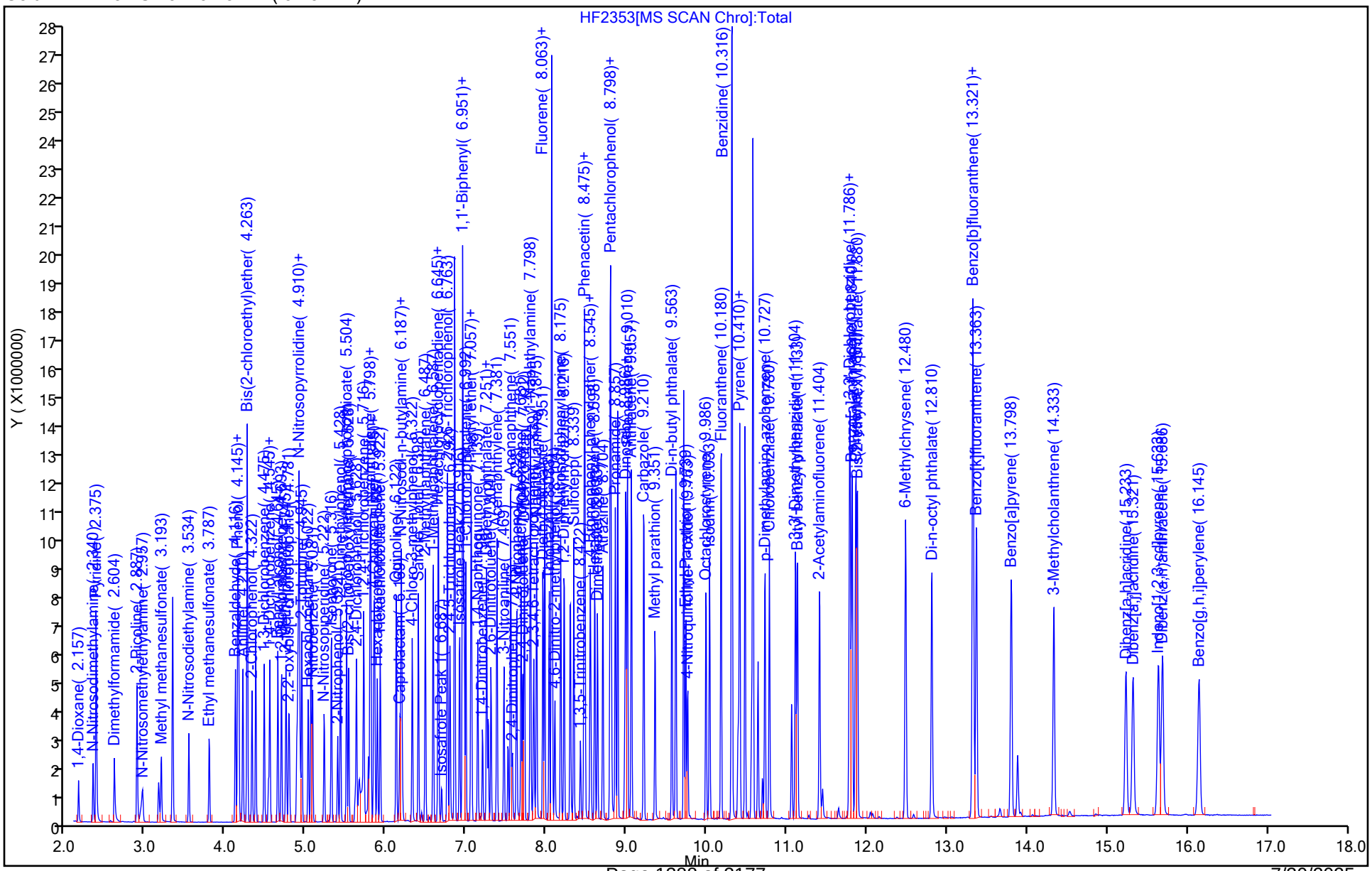
Lims ID: IC L7 Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2354.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jun-2025 22:08:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0151283-005
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:58 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:54:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	147229	7.50	7.22	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	93	251527	7.50	7.09	
3 Pyridine	79	2.381	2.381	0.000	92	805737	15.0	14.3	
4 Dimethylformamide	73	2.610	2.610	0.000	96	279222	7.50	7.21	
5 2-Picoline	93	2.887	2.887	0.000	96	422646	7.50	7.26	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	97	184807	7.50	7.02	
9 Methyl methanesulfonate	80	3.187	3.187	0.000	86	236155	7.50	7.21	
$ 10 2-Fluorophenol	112	3.328	3.328	0.000	95	686589	15.0	14.8	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	188735	7.50	7.25	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	207923	7.50	7.04	
15 Benzaldehyde	77	4.116	4.116	0.000	95	342544	7.50	6.91	
$ 16 Phenol-d5	99	4.146	4.146	0.000	99	974678	15.0	15.1	
17 Phenol	94	4.157	4.157	0.000	99	508564	7.50	7.38	
18 Aniline	93	4.210	4.210	0.000	97	628960	7.50	7.32	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	93	394176	7.50	7.05	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	375886	7.50	7.46	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	423624	7.50	7.37	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	95	194766	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	427656	7.50	7.16	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	264613	7.50	7.15	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	97	417506	7.50	7.39	
30 2-Methylphenol	108	4.746	4.746	0.000	98	362605	7.50	7.25	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	632593	7.50	6.87	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	89	227032	7.50	7.24	
36 4-Methylphenol	108	4.893	4.893	0.000	97	387743	7.50	7.49	
35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	75	339313	7.50	7.14	
34 Acetophenone	105	4.910	4.910	0.000	91	609866	7.50	7.25	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	89	302530	7.50	6.78	
38 2-Toluidine	106	4.940	4.940	0.000	96	654113	7.50	7.25	
40 Hexachloroethane	117	5.022	5.022	0.000	93	161132	7.50	6.69	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	90	864901	15.0	15.0	
42 Nitrobenzene	77	5.075	5.075	0.000	89	451687	7.50	7.23	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	82	214813	7.50	7.01	
45 Isophorone	82	5.310	5.310	0.000	99	880064	7.50	7.26	
46 2-Nitrophenol	139	5.393	5.393	0.000	96	150498	7.50	7.80	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	428421	7.50	7.56	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	234625	7.50	7.33	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	522874	7.50	6.97	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	335968	7.50	7.86	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	95	399893	7.50	7.32	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	99	810998	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	1218099	7.50	7.31	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	386943	7.50	7.31	
57 4-Chloroaniline	127	5.840	5.840	0.000	96	540926	7.50	7.43	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	335144	7.50	7.88	
59 Hexachloropropene	213	5.887	5.887	0.000	89	255609	7.50	7.56	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	238745	7.50	7.41	
62 Quinoline	129	6.122	6.122	0.000	96	875482	7.50	7.07	
63 Caprolactam	113	6.157	6.157	0.000	76	136408	7.50	7.50	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	93	331513	7.50	6.62	
39 p-Phenylene diamine	108	6.187	6.187	0.000	95	523144	7.50	7.63	
66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	380666	7.50	7.65	
67 Safrole, Total	162	6.398	6.398	0.000	91	346128	7.50	7.25	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	784363	7.50	7.24	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	92	822671	7.50	7.31	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	95	292351	7.50	7.74	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	441121	7.50	7.35	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	92	64395	1.20	1.13	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	74	236466	7.50	7.82	
75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	96	318375	7.50	8.10	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	2034970	15.0	14.9	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	93	359004	6.30	6.24	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	1111156	7.50	7.47	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	93	912754	7.50	7.45	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	790991	7.50	7.32	
81 Phenyl ether	170	7.057	7.057	0.000	89	639468	7.50	7.50	
82 2-Nitroaniline	138	7.063	7.063	0.000	81	265671	7.50	8.10	
84 1,4-Naphthoquinone	158	7.140	7.140	0.000	89	367944	7.50	7.79	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	95	107290	7.50	7.80	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	1062402	7.50	7.55	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	84	134939	7.50	7.60	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	210968	7.50	7.81	
89 Acenaphthylene	152	7.381	7.381	0.000	98	1418234	7.50	7.64	
90 3-Nitroaniline	138	7.463	7.463	0.000	93	247032	7.50	8.05	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	505071	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	913101	7.50	7.27	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	109528	17.5	17.8	
95 4-Nitrophenol	109	7.622	7.622	0.000	95	244507	15.0	14.6	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	434737	7.50	7.50	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	94	281337	7.50	7.89	
97 Dibenzofuran	168	7.722	7.722	0.000	97	1304151	7.50	7.40	
99 1-Naphthylamine	143	7.792	7.792	0.000	99	960212	7.50	7.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	269144	7.50	8.00	
103 2-Naphthylamine	143	7.875	7.875	0.000	97	1025961	7.50	7.59	
104 Diethyl phthalate	149	7.951	7.951	0.000	99	1074139	7.50	7.58	
106 Thionazin	107	8.028	8.028	0.000	80	168070	7.50	7.65	
105 Fluorene	166	8.057	8.057	0.000	93	1110936	7.50	7.64	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	86	530439	7.50	7.41	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	74	289068	7.50	8.04	
109 4-Nitroaniline	138	8.063	8.063	0.000	81	283990	7.50	8.29	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	85	150496	15.0	15.8	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	783377	6.38	6.43	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	1130990	7.50	7.47	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	94	328674	15.0	15.5	
114 Sulfotepp	97	8.339	8.339	0.000	81	177206	7.50	7.15	
172 1,3,5-Trinitrobenzene	213	8.416	8.416	0.000	84	69186	7.50	7.64	
115 cis-Diallate	86	8.463	8.463	0.000	84	321735	5.55	5.51	
117 Phenacetin	108	8.469	8.469	0.000	83	549474	7.50	7.98	
116 Phorate	75	8.469	8.469	0.000	94	698544	7.50	7.67	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	65	341570	7.50	7.51	
119 trans-Diallate	86	8.551	8.551	0.000	89	112967	1.95	1.72	
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	393401	7.50	7.23	
121 Dimethoate	87	8.628	8.628	0.000	97	415753	7.50	7.24	
122 Atrazine	200	8.698	8.698	0.000	93	337134	7.50	7.80	
123 Pentachlorophenol	266	8.792	8.792	0.000	94	345332	15.0	14.1	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	1341972	7.50	7.70	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	89	144170	7.50	7.64	
126 Pronamide	173	8.857	8.857	0.000	91	522383	7.50	7.54	
128 Dinoseb	211	8.975	8.975	0.000	97	108701	7.50	7.09	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	98	1024693	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	687870	7.50	7.50	
129 Phenanthrene	178	9.004	9.004	0.000	97	1674561	7.50	7.33	
S 56 Dinitrotoluene	165				0		15.0	15.7	
130 Anthracene	178	9.057	9.057	0.000	97	1714886	7.50	7.66	
131 Carbazole	167	9.210	9.210	0.000	96	1601786	7.50	7.64	
132 Methyl parathion	109	9.351	9.351	0.000	95	311287	7.50	7.89	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	1768576	7.50	7.87	
S 65 Diallate	86				0		7.50	7.23	
134 Ethyl Parathion	109	9.733	9.733	0.000	85	183471	7.50	7.41	
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	127576	7.50	7.65	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	171121	7.50	7.61	
137 Isodrin	193	10.033	10.033	0.000	94	208964	7.50	7.30	
138 Fluoranthene	202	10.175	10.175	0.000	97	1969616	7.50	7.73	
139 Benzidine	184	10.310	10.310	0.000	99	4510814	22.5	26.0	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1183610	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	98	2084806	7.50	7.19	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	100	2917832	15.0	15.2	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	94	417126	7.50	7.94	
144 Chlorobenzilate	139	10.780	10.780	0.000	92	561543	7.50	7.64	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	1399618	7.50	8.02	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	798424	7.50	7.50	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	93	679681	7.50	6.86	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	76	862819	7.50	7.92	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	449969	7.50	8.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	2182025	7.50	7.73	
151 Chrysene	228	11.857	11.857	0.000	96	2054199	7.50	7.50	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	1242798	7.50	7.65	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	1462108	7.50	7.46	
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	1822785	7.50	6.96	
156 7,12-Dimethylbenz(a)anthracene	256	13.316	13.316	0.000	89	955774	7.50	7.47	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	97	2244855	7.50	7.48	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	99	2232686	7.50	7.49	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	76	1999673	7.50	7.50	
* 159 Perylene-d12	264	13.874	13.874	0.000	99	1208021	5.00	5.00	
160 3-Methylcholanthrene	268	14.327	14.327	0.000	90	1019493	7.50	7.54	
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	1579617	7.50	7.71	
162 Dibenz[a,j]acridine	279	15.310	15.310	0.000	96	1667599	7.50	7.96	
163 Indeno[1,2,3-cd]pyrene	276	15.633	15.633	0.000	99	1915191	7.50	7.84	
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	92	1890072	7.50	7.68	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	98	1854676	7.50	7.57	
S 166 Isosafrole	162				0		7.50	7.37	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_5_00054 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:59 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2354.D

Injection Date: 23-Jun-2025 22:08:30 Instrument ID: HP18831 Operator ID: IR93211

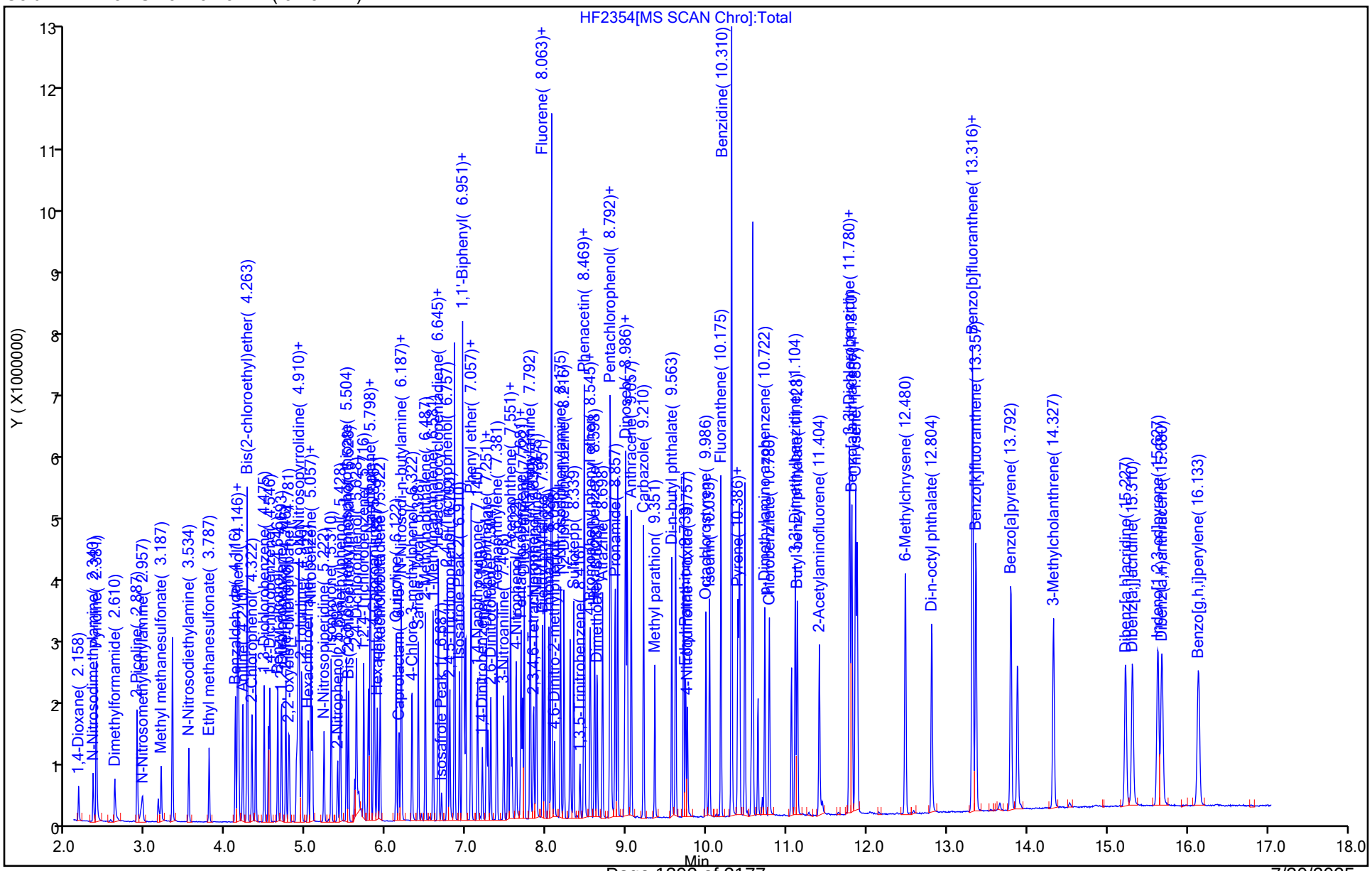
Lims ID: IC L5 Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2355.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jun-2025 22:30:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L4
Misc. Info.: 410-0151283-006
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:07:17 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:55:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.157	2.158	-0.001	98	77256	3.75	3.92	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	92	124190	3.75	3.63	
3 Pyridine	79	2.381	2.381	0.000	90	402439	7.50	7.39	
4 Dimethylformamide	73	2.616	2.610	0.006	97	133612	3.75	3.58	
5 2-Picoline	93	2.887	2.887	0.000	95	210556	3.75	3.75	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	97	94202	3.75	3.71	
9 Methyl methanesulfonate	80	3.187	3.187	0.000	86	120800	3.75	3.82	
$ 10 2-Fluorophenol	112	3.328	3.328	0.000	96	331662	7.50	7.40	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	93	91571	3.75	3.65	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	106357	3.75	3.73	
15 Benzaldehyde	77	4.116	4.116	0.000	96	173112	3.75	3.62	
$ 16 Phenol-d5	99	4.145	4.146	-0.001	98	472407	7.50	7.57	
17 Phenol	94	4.157	4.157	0.000	99	247807	3.75	3.73	
18 Aniline	93	4.210	4.210	0.000	97	313471	3.75	3.78	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	93	198494	3.75	3.68	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	183434	3.75	3.77	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	210622	3.75	3.80	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	187959	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.545	4.546	-0.001	94	212833	3.75	3.69	
26 Benzyl alcohol	108	4.645	4.646	-0.001	92	134819	3.75	3.77	
27 1,2-Dichlorobenzene	146	4.692	4.693	-0.001	96	207505	3.75	3.80	
30 2-Methylphenol	108	4.745	4.746	-0.001	98	175562	3.75	3.64	
32 2,2'-oxybis[1-chloropropane]	45	4.787	4.781	0.006	93	323837	3.75	3.64	
33 N-Nitrosopyrrolidine	100	4.875	4.881	-0.006	89	118219	3.75	3.91	
36 4-Methylphenol	108	4.892	4.893	-0.001	97	189955	3.75	3.80	
35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	90	169083	3.75	3.69	
34 Acetophenone	105	4.910	4.910	0.000	96	314042	3.75	3.87	
37 N-Nitrosomorpholine	56	4.916	4.922	-0.006	93	158493	3.75	3.68	
38 2-Toluidine	106	4.939	4.940	-0.001	95	337460	3.75	3.88	
40 Hexachloroethane	117	5.022	5.022	0.000	93	81621	3.75	3.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	428433	7.50	7.47	
42 Nitrobenzene	77	5.075	5.075	0.000	89	225354	3.75	3.64	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	83	112036	3.75	3.69	
45 Isophorone	82	5.310	5.310	0.000	99	449152	3.75	3.74	
46 2-Nitrophenol	139	5.392	5.393	-0.001	96	68424	3.75	3.58	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	212861	3.75	3.79	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	121909	3.75	3.84	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	99	281336	3.75	3.78	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	164054	3.75	3.87	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	93	201833	3.75	3.73	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	99	804213	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	614573	3.75	3.72	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	197265	3.75	3.76	
57 4-Chloroaniline	127	5.845	5.840	0.005	96	275803	3.75	3.82	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	96	165151	3.75	3.91	
59 Hexachloropropene	213	5.886	5.887	-0.001	89	130021	3.75	3.88	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	120883	3.75	3.79	
62 Quinoline	129	6.122	6.122	0.000	95	452068	3.75	3.68	
63 Caprolactam	113	6.151	6.157	-0.006	78	68236	3.75	3.78	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	94	178123	3.75	3.59	
39 p-Phenylene diamine	108	6.186	6.187	-0.001	95	269610	3.75	3.97	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	97	190905	3.75	3.87	
67 Safrole, Total	162	6.398	6.398	0.000	92	179715	3.75	3.79	
68 2-Methylnaphthalene	142	6.486	6.487	-0.001	93	408430	3.75	3.80	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	92	421133	3.75	3.77	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	96	139086	3.75	3.48	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	230832	3.75	3.63	
73 Isosafrole Peak 1	162	6.686	6.687	-0.001	91	32287	0.6000	0.5359	
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	72	114383	3.75	3.57	
75 2,4,5-Trichlorophenol	196	6.792	6.793	0.000	95	153784	3.75	3.69	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	1082654	7.50	7.50	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	94	193791	3.15	3.18	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	94	589326	3.75	3.74	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	483958	3.75	3.73	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	99	417582	3.75	3.65	
81 Phenyl ether	170	7.057	7.057	0.000	89	321227	3.75	3.56	
82 2-Nitroaniline	138	7.057	7.063	-0.006	87	130228	3.75	3.75	
84 1,4-Naphthoquinone	158	7.139	7.140	-0.001	90	192113	3.75	3.84	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	91	50422	3.75	3.46	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	559154	3.75	3.75	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	64139	3.75	3.41	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	106778	3.75	3.73	
89 Acenaphthylene	152	7.381	7.381	-0.001	98	726192	3.75	3.70	
90 3-Nitroaniline	138	7.463	7.463	0.000	93	120336	3.75	3.70	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	534976	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	478726	3.75	3.60	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	65276	11.3	10.0	
95 4-Nitrophenol	109	7.616	7.622	-0.006	95	114937	7.50	6.50	
96 Pentachlorobenzene	250	7.680	7.681	-0.001	98	224299	3.75	3.65	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	94	139037	3.75	3.68	
97 Dibenzofuran	168	7.722	7.722	0.000	96	692757	3.75	3.71	
99 1-Naphthylamine	143	7.792	7.792	0.000	99	502846	3.75	3.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	122766	3.75	3.45	
103 2-Naphthylamine	143	7.875	7.875	0.000	96	534724	3.75	3.74	
104 Diethyl phthalate	149	7.945	7.951	-0.006	98	566882	3.75	3.78	
106 Thionazin	107	8.028	8.028	0.000	80	84409	3.75	3.63	
105 Fluorene	166	8.057	8.057	0.000	94	578757	3.75	3.76	
109 4-Nitroaniline	138	8.063	8.063	0.000	76	138980	3.75	3.83	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	86	283039	3.75	3.73	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	70	140725	3.75	3.69	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	86	66823	7.50	7.48	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	413391	3.19	3.24	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	584821	3.75	3.69	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	94	156472	7.50	6.98	
114 Sulfotepp	97	8.339	8.339	0.000	84	92058	3.75	3.54	
172 1,3,5-Trinitrobenzene	213	8.416	8.416	0.000	84	31903	3.75	3.79	
115 cis-Diallate	86	8.463	8.463	0.000	80	172570	2.78	2.82	
117 Phenacetin	108	8.469	8.469	0.000	89	272224	3.75	3.77	
116 Phorate	75	8.475	8.469	0.006	95	364156	3.75	3.82	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	65	183003	3.75	3.84	
119 trans-Diallate	86	8.551	8.551	0.000	89	64144	0.9750	0.9343	
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	210931	3.75	3.70	
121 Dimethoate	87	8.627	8.628	-0.001	95	204373	3.75	3.44	
122 Atrazine	200	8.698	8.698	0.000	92	177754	3.75	3.93	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	156405	7.50	6.61	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	699847	3.75	3.83	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	73949	3.75	3.74	
126 Pronamide	173	8.857	8.857	0.000	91	269348	3.75	3.71	
128 Dinoseb	211	8.975	8.975	0.000	96	51419	3.75	3.20	
* 127 Phenanthrene-d10	188	8.980	8.981	-0.001	98	1073930	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	368374	3.75	3.78	
129 Phenanthrene	178	9.004	9.004	0.000	98	883775	3.75	3.69	
S 56 Dinitrotoluene	165				0		7.50	7.41	
130 Anthracene	178	9.057	9.057	0.000	97	894538	3.75	3.81	
131 Carbazole	167	9.210	9.210	0.000	96	845002	3.75	3.84	
132 Methyl parathion	109	9.351	9.351	0.000	93	148653	3.75	3.59	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	894790	3.75	3.80	
S 65 Diallate	86				0		3.75	3.75	
134 Ethyl Parathion	109	9.733	9.733	0.000	84	93499	3.75	3.60	
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	86	56561	3.75	3.70	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	92489	3.75	3.92	
137 Isodrin	193	10.033	10.033	0.000	94	111159	3.75	3.71	
138 Fluoranthene	202	10.174	10.175	-0.001	97	1020166	3.75	3.82	
139 Benzidine	184	10.304	10.310	-0.006	99	2312455	11.3	12.9	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1225457	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	1089534	3.75	3.63	
$ 142 p-Terphenyl-d14	244	10.574	10.575	-0.001	100	1545822	7.50	7.77	
143 p-Dimethylamino azobenzene	225	10.727	10.722	0.005	94	203995	3.75	3.75	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	277948	3.75	3.65	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	689938	3.75	3.82	
146 Butyl benzyl phthalate	149	11.127	11.128	-0.001	98	388565	3.75	3.53	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	302071	3.75	2.95	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	75	429071	3.75	3.80	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	231227	3.75	3.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	1120512	3.75	3.83	
151 Chrysene	228	11.857	11.857	0.000	96	1071039	3.75	3.78	
152 Bis(2-ethylhexyl) phthalate	149	11.874	11.875	-0.001	98	581497	3.75	3.46	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	748017	3.75	3.68	
154 Di-n-octyl phthalate	149	12.810	12.804	0.006	99	806115	3.75	3.41	
156 7,12-Dimethylbenz(a)anthracene	256	13.315	13.316	-0.001	89	482049	3.75	3.78	
155 Benzo[b]fluoranthene	252	13.315	13.316	-0.001	97	1127125	3.75	3.76	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	98	1121086	3.75	3.77	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	76	967715	3.75	3.64	
* 159 Perylene-d12	264	13.880	13.874	0.006	99	1205602	5.00	5.00	
160 3-Methylcholanthrene	268	14.327	14.327	0.000	91	503109	3.75	3.73	
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	90	766039	3.75	3.75	
162 Dibenz[a,j]acridine	279	15.309	15.310	-0.001	96	791875	3.75	3.79	
163 Indeno[1,2,3-cd]pyrene	276	15.627	15.633	-0.006	98	902084	3.75	3.70	M
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	91	926278	3.75	3.77	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	98	890156	3.75	3.64	
S 166 Isosafrole	162				0		3.75	3.72	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_4_00041 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:07:17 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2355.D

Injection Date: 23-Jun-2025 22:30:30 Instrument ID: HP18831 Operator ID: IR93211

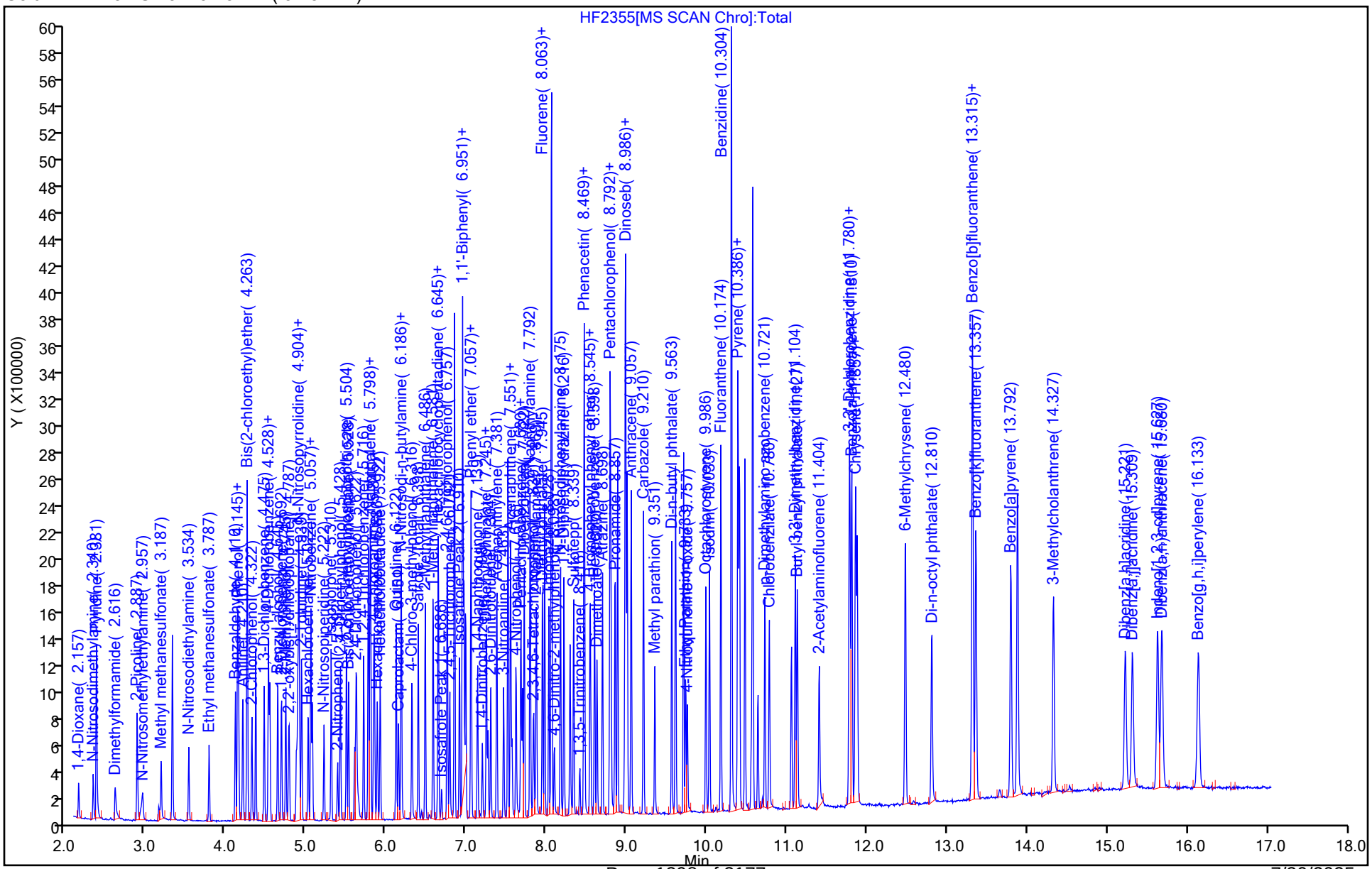
Lims ID: IC L4 Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

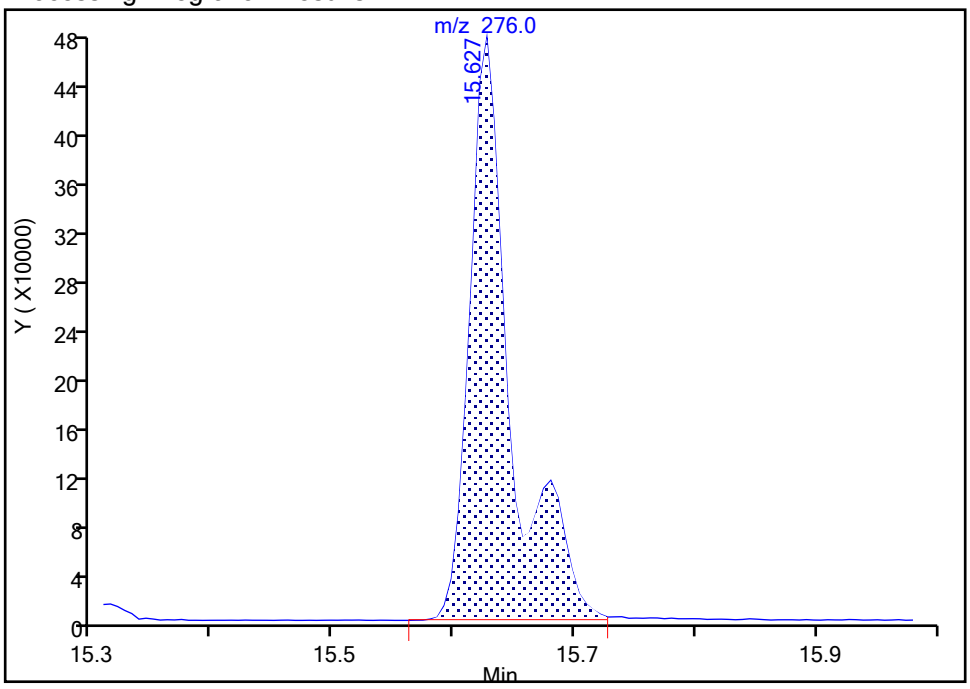
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2355.D				
Injection Date:	23-Jun-2025 22:30:30	Instrument ID:	HP18831		
Lims ID:	IC L4				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

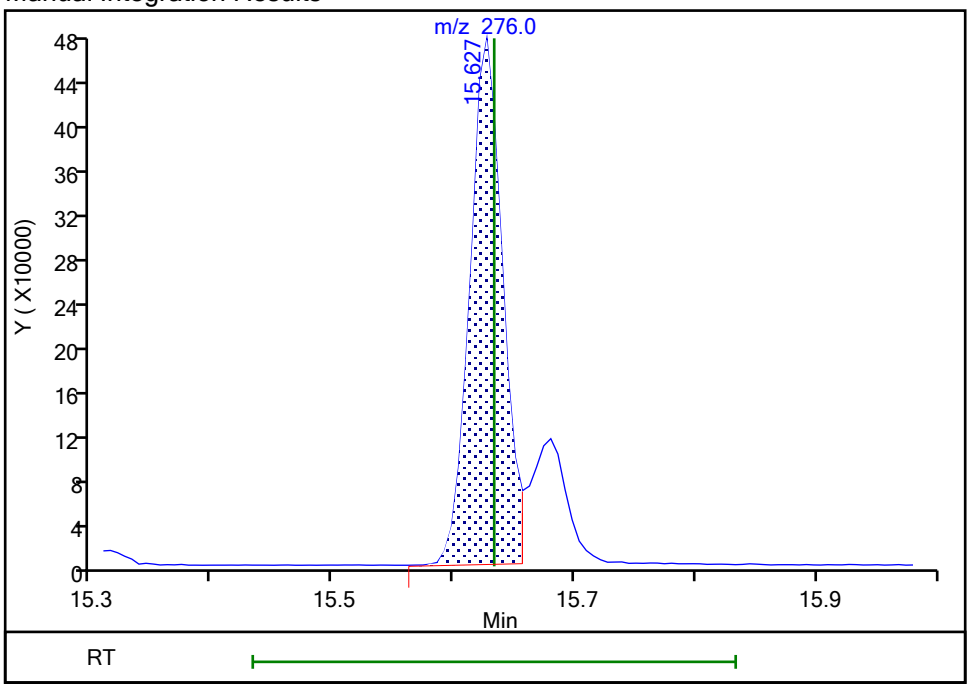
Processing Integration Results

RT: 15.63
Area: 1141428
Amount: 4.289430
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 902084
Amount: 3.701321
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:55:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2356.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jun-2025 22:52:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0151283-007
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:07:35 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:56:20

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.158	-0.001	96	23990	1.25	1.34	
	2 N-Nitrosodimethylamine	74	2.346	2.340	0.006	91	38981	1.25	1.25	
	3 Pyridine	79	2.381	2.381	0.000	92	118449	2.50	2.39	
	4 Dimethylformamide	73	2.628	2.610	0.018	89	35285	1.25	1.04	
	5 2-Picoline	93	2.893	2.887	0.006	95	66815	1.25	1.31	
	6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	96	32332	1.25	1.40	
	9 Methyl methanesulfonate	80	3.187	3.187	0.000	86	35673	1.25	1.24	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	95	91242	2.50	2.24	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	93	30128	1.25	1.32	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	98	32794	1.25	1.26	
	15 Benzaldehyde	77	4.116	4.116	0.000	95	56294	1.25	1.29	
$	16 Phenol-d5	99	4.140	4.146	-0.006	97	133182	2.50	2.35	
	17 Phenol	94	4.157	4.157	0.000	98	72766	1.25	1.20	
	18 Aniline	93	4.210	4.210	0.000	95	85040	1.25	1.13	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	86	56628	1.25	1.15	
	20 2-Chlorophenol	128	4.322	4.322	0.000	97	50103	1.25	1.13	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	96	62859	1.25	1.25	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	171031	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	96	66708	1.25	1.27	
	26 Benzyl alcohol	108	4.646	4.646	0.000	92	36915	1.25	1.14	
	27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	97	60707	1.25	1.22	
	30 2-Methylphenol	108	4.746	4.746	0.000	97	52206	1.25	1.19	
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	94	99143	1.25	1.23	
	33 N-Nitrosopyrrolidine	100	4.875	4.881	-0.006	86	37002	1.25	1.34	
	36 4-Methylphenol	108	4.893	4.893	0.000	92	53403	1.25	1.17	
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	83	50842	1.25	1.22	
	34 Acetophenone	105	4.910	4.910	0.000	96	87760	1.25	1.19	
	37 N-Nitrosomorpholine	56	4.916	4.922	-0.006	93	49220	1.25	1.26	
	38 2-Toluidine	106	4.940	4.940	0.000	96	99781	1.25	1.26	
	40 Hexachloroethane	117	5.022	5.022	0.000	91	25121	1.25	1.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	124299	2.50	2.43	
42 Nitrobenzene	77	5.075	5.075	0.000	89	64046	1.25	1.16	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	85	33864	1.25	1.25	
45 Isophorone	82	5.310	5.310	0.000	99	129640	1.25	1.21	
46 2-Nitrophenol	139	5.393	5.393	0.000	95	17361	1.25	1.02	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	56474	1.25	1.13	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	36809	1.25	1.30	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	85229	1.25	1.28	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	96	44339	1.25	1.17	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	60352	1.25	1.25	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	718069	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	97	186396	1.25	1.26	
29 Alpha-Terpineol	59	5.804	5.804	0.000	92	57392	1.25	1.22	
57 4-Chloroaniline	127	5.840	5.840	0.000	95	80246	1.25	1.24	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	92	44194	1.25	1.17	
59 Hexachloropropene	213	5.887	5.887	0.000	89	39366	1.25	1.31	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	35494	1.25	1.24	
62 Quinoline	129	6.122	6.122	0.000	95	134753	1.25	1.23	
63 Caprolactam	113	6.151	6.157	-0.006	77	20661	1.25	1.28	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	93	54877	1.25	1.24	
39 p-Phenylene diamine	108	6.187	6.187	0.000	94	77645	1.25	1.28	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	97	52021	1.25	1.18	
67 Safrole, Total	162	6.398	6.398	0.000	92	54434	1.25	1.29	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	119528	1.25	1.25	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	93	125665	1.25	1.26	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	95	39964	1.25	1.12	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	96	69636	1.25	1.23	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	93	11288	0.2000	0.2108	
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	82	28806	1.25	1.01	
75 2,4,5-Trichlorophenol	196	6.792	6.793	0.000	94	39668	1.25	1.07	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	99	315621	2.50	2.46	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	94	57875	1.05	1.07	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	177295	1.25	1.27	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	94	146920	1.25	1.27	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	128709	1.25	1.26	
81 Phenyl ether	170	7.057	7.057	0.000	89	99506	1.25	1.24	
82 2-Nitroaniline	138	7.063	7.063	0.000	82	35744	1.25	1.16	
84 1,4-Naphthoquinone	158	7.139	7.140	-0.001	90	57979	1.25	1.30	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	90	13395	1.25	1.03	
86 Dimethyl phthalate	163	7.245	7.251	-0.006	99	165079	1.25	1.25	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	84	17155	1.25	1.03	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	93	27811	1.25	1.09	
89 Acenaphthylene	152	7.375	7.381	-0.006	98	213913	1.25	1.22	
90 3-Nitroaniline	138	7.463	7.463	0.000	91	33227	1.25	1.15	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	475519	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	94	146625	1.25	1.24	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	79	24236	5.00	4.18	
95 4-Nitrophenol	109	7.616	7.622	-0.006	96	47745	3.75	3.04	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	70327	1.25	1.29	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	94	36626	1.25	1.09	
97 Dibenzofuran	168	7.722	7.722	0.000	97	209443	1.25	1.26	
99 1-Naphthylamine	143	7.792	7.792	0.000	99	149238	1.25	1.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	31687	1.25	1.00	
103 2-Naphthylamine	143	7.869	7.875	-0.006	97	159812	1.25	1.26	
104 Diethyl phthalate	149	7.945	7.951	-0.006	98	161383	1.25	1.21	
106 Thionazin	107	8.028	8.028	0.000	79	24918	1.25	1.21	
105 Fluorene	166	8.057	8.057	0.000	93	176425	1.25	1.29	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	87	87800	1.25	1.30	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	65	38911	1.25	1.15	
109 4-Nitroaniline	138	8.063	8.063	0.000	69	38056	1.25	1.18	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	26709	3.75	3.73	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	123647	1.06	1.06	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	179406	1.25	1.23	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	93	39563	2.50	1.98	
114 Sulfotepp	97	8.339	8.339	0.000	81	29157	1.25	1.23	
172 1,3,5-Trinitrobenzene	213	8.416	8.416	0.000	81	8014	1.25	1.25	
115 cis-Diallate	86	8.463	8.463	0.000	82	55040	0.9250	0.9820	
117 Phenacetin	108	8.469	8.469	0.000	89	74547	1.25	1.13	
116 Phorate	75	8.469	8.469	0.000	95	107716	1.25	1.23	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	53513	1.25	1.23	
119 trans-Diallate	86	8.551	8.551	0.000	90	20597	0.3250	0.3276	
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	65368	1.25	1.25	
121 Dimethoate	87	8.628	8.628	0.000	93	53191	1.25	1.04	
122 Atrazine	200	8.698	8.698	0.000	93	55529	1.25	1.34	
123 Pentachlorophenol	266	8.786	8.792	-0.006	93	36232	2.50	2.38	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	212318	1.25	1.27	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	20783	1.25	1.15	
126 Pronamide	173	8.851	8.857	-0.006	90	83624	1.25	1.26	
128 Dinoseb	211	8.975	8.975	0.000	95	14697	1.25	1.00	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	983596	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	112102	1.25	1.19	
129 Phenanthrene	178	9.004	9.004	0.000	97	276989	1.25	1.26	
S 56 Dinitrotoluene	165				0		2.50	2.18	
130 Anthracene	178	9.057	9.057	0.000	97	269901	1.25	1.26	
131 Carbazole	167	9.210	9.210	0.000	96	250578	1.25	1.24	
132 Methyl parathion	109	9.351	9.351	0.000	93	36838	1.25	0.9727	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	247096	1.25	1.15	
S 65 Diallate	86				0		1.25	1.31	
134 Ethyl Parathion	109	9.733	9.733	0.000	84	21317	1.25	0.8970	
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	80	12674	1.25	1.25	
136 Octachlorostyrene	308	9.986	9.986	0.000	92	25385	1.25	1.18	
137 Isodrin	193	10.033	10.033	0.000	94	34341	1.25	1.25	
138 Fluoranthene	202	10.175	10.175	0.000	97	303081	1.25	1.24	
139 Benzidine	184	10.304	10.310	-0.006	99	657011	3.75	4.02	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	98	1113161	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	98	331985	1.25	1.22	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	99	459253	2.50	2.54	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	95	56511	1.25	1.14	
144 Chlorobenzilate	139	10.780	10.780	0.000	89	78034	1.25	1.13	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	200885	1.25	1.22	
146 Butyl benzyl phthalate	149	11.127	11.128	-0.001	97	95886	1.25	0.9577	
147 2-Acetylaminofluorene	181	11.398	11.404	-0.006	94	69033	1.25	0.7412	
149 3,3'-Dichlorobenzidine	252	11.774	11.780	-0.006	75	119362	1.25	1.17	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	65333	1.25	1.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	97	315632	1.25	1.19	
151 Chrysene	228	11.857	11.857	0.000	96	312275	1.25	1.21	
152 Bis(2-ethylhexyl) phthalate	149	11.874	11.875	-0.001	97	145878	1.25	0.9553	
153 6-Methylchrysene	242	12.480	12.480	0.000	98	229057	1.25	1.24	
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	185781	1.25	1.30	
156 7,12-Dimethylbenz(a)anthracene	256	13.310	13.316	-0.006	90	138271	1.25	1.19	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	97	313930	1.25	1.15	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	98	338140	1.25	1.25	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	77	279528	1.25	1.15	
* 159 Perylene-d12	264	13.874	13.874	0.000	99	1097637	5.00	5.00	
160 3-Methylcholanthrene	268	14.327	14.327	0.000	91	146138	1.25	1.19	
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	90	223267	1.25	1.20	
162 Dibenz[a,j]acridine	279	15.310	15.310	0.000	96	221227	1.25	1.16	
163 Indeno[1,2,3-cd]pyrene	276	15.627	15.633	-0.006	98	261157	1.25	1.18	M
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	91	276407	1.25	1.24	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	99	277059	1.25	1.24	
S 166 Isosafrole	162				0		1.25	1.28	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_3_00042 Amount Added: 1.00 Units: mL

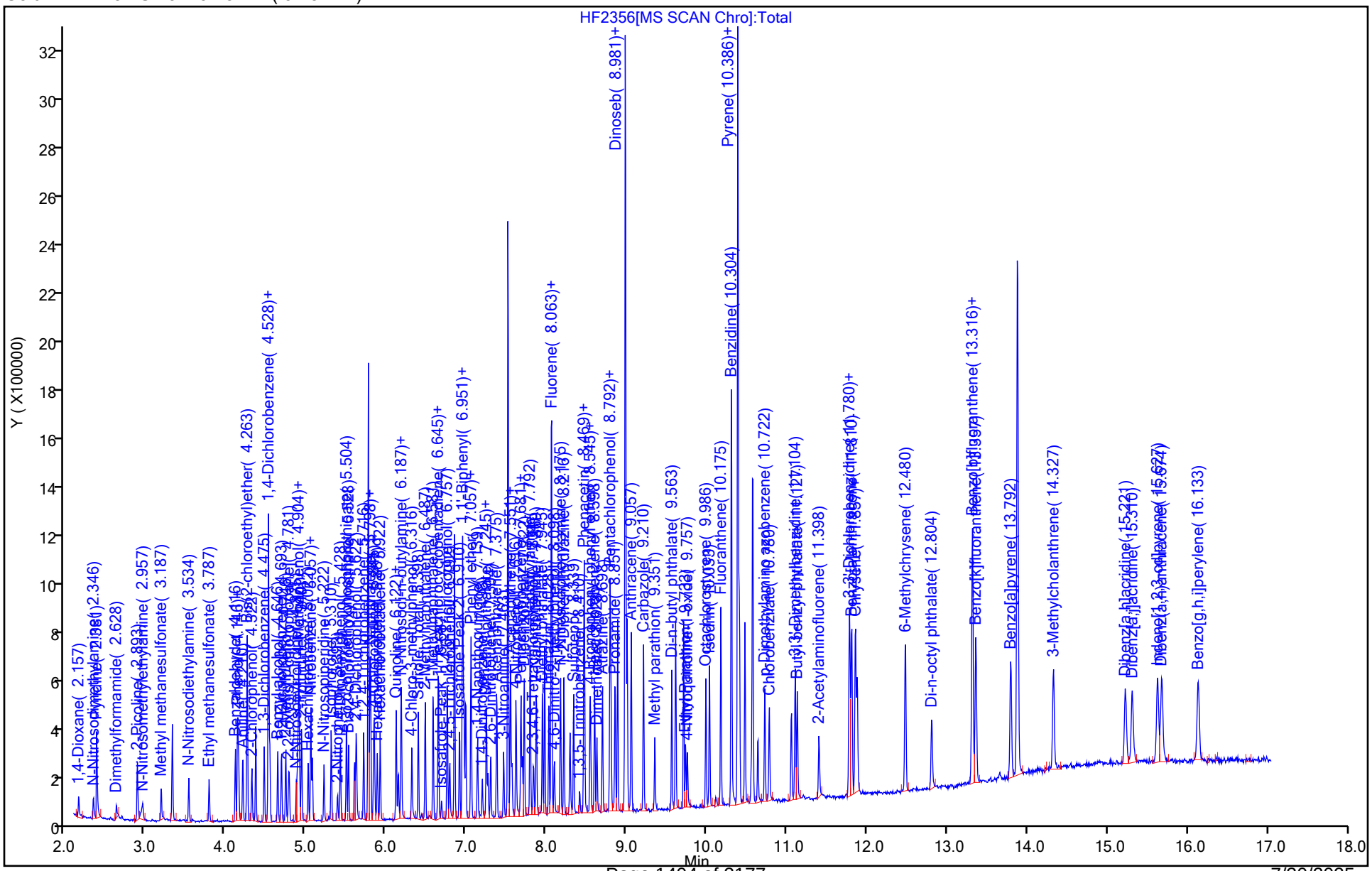
Report Date: 24-Jun-2025 10:07:36 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2356.D

Injection Date:	23-Jun-2025 22:52:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	IC L3			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

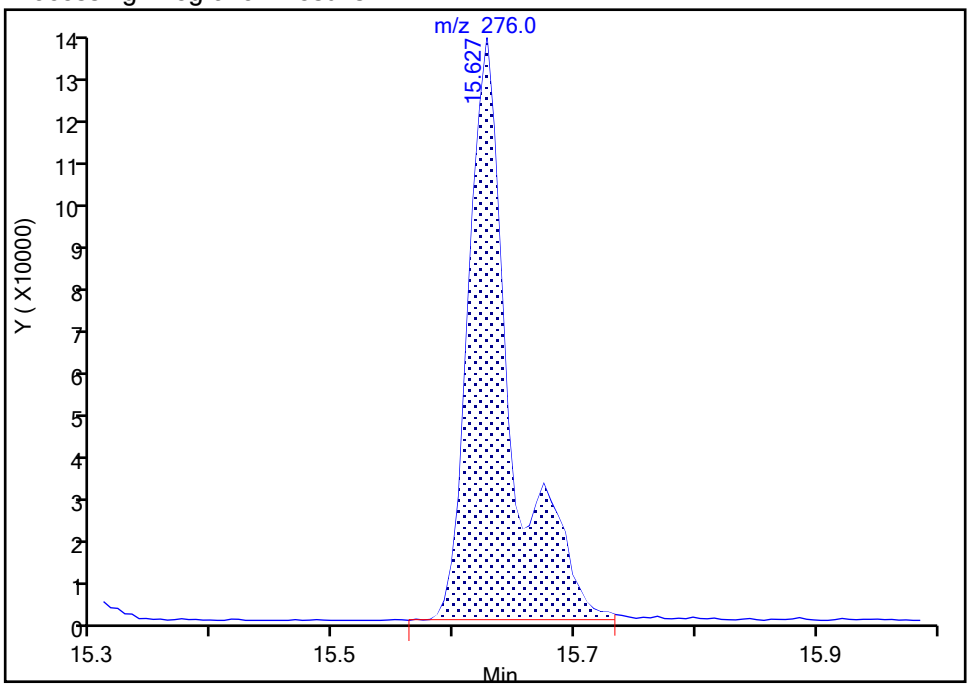
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2356.D				
Injection Date:	23-Jun-2025 22:52:30	Instrument ID:	HP18831		
Lims ID:	IC L3				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

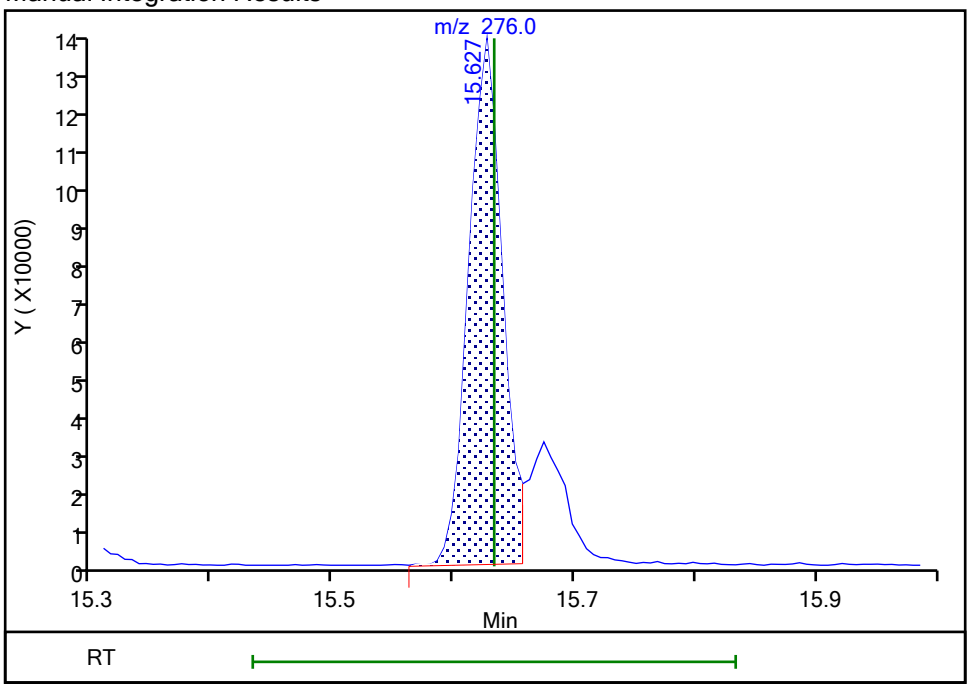
Processing Integration Results

RT: 15.63
Area: 328737
Amount: 1.398830
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 261157
Amount: 1.176946
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:56:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jun-2025 23:14:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0151283-008
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:07:53 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:57:30

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.158	2.158	0.000	95	9019	0.2500	0.4824	
	2 N-Nitrosodimethylamine	74	2.346	2.340	0.006	90	7710	0.2500	0.2371	
	3 Pyridine	79	2.393	2.381	0.012	95	25151	0.5000	0.4864	
	4 Dimethylformamide	73		2.610				ND	ND	U
	5 2-Picoline	93	2.893	2.887	0.006	94	11813	0.2500	0.2214	
	6 N-Nitrosomethylethylamine	88	2.963	2.957	0.006	89	9024	0.2500	0.3740	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	7333	0.2500	0.2443	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	91	20404	0.5000	0.4792	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	85	5101	0.2500	0.2139	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	95	7318	0.2500	0.2703	
	15 Benzaldehyde	77	4.116	4.116	0.000	92	12379	0.2500	0.2727	
$	16 Phenol-d5	99	4.140	4.146	-0.006	97	27372	0.5000	0.4620	
	17 Phenol	94	4.157	4.157	0.000	97	13838	0.2500	0.2193	
	18 Aniline	93	4.210	4.210	0.000	96	19944	0.2500	0.2534	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	90	13169	0.2500	0.2571	
	20 2-Chlorophenol	128	4.322	4.322	0.000	96	11032	0.2500	0.2391	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	13593	0.2500	0.2580	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	178456	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	91	13527	0.2500	0.2473	
	26 Benzyl alcohol	108	4.646	4.646	0.000	94	8421	0.2500	0.2483	a
	27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	94	12078	0.2500	0.2332	
	30 2-Methylphenol	108	4.746	4.746	0.000	95	10627	0.2500	0.2320	a
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	22566	0.2500	0.2674	
	33 N-Nitrosopyrrolidine	100	4.875	4.881	-0.006	84	6279	0.2500	0.2187	
	36 4-Methylphenol	108	4.893	4.893	0.000	97	11203	0.2500	0.2362	
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	81	11620	0.2500	0.2668	
	34 Acetophenone	105	4.910	4.910	0.000	91	19585	0.2500	0.2541	
	37 N-Nitrosomorpholine	56	4.916	4.922	-0.006	88	10958	0.2500	0.2679	
	38 2-Toluidine	106	4.940	4.940	0.000	97	18990	0.2500	0.2297	
	40 Hexachloroethane	117	5.022	5.022	0.000	87	6349	0.2500	0.2875	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	25284	0.5000	0.4899	
42 Nitrobenzene	77	5.075	5.075	0.000	88	16300	0.2500	0.2926	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	82	6979	0.2500	0.2552	
45 Isophorone	82	5.310	5.310	0.000	98	26565	0.2500	0.2457	
46 2-Nitrophenol	139	5.393	5.393	0.000	92	3808	0.2500	0.2212	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	94	11809	0.2500	0.2335	
49 o,o',o''-Triethylphosphorothioat	198	5.499	5.504	-0.005	84	7166	0.2500	0.2510	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	94	17171	0.2500	0.2564	
52 2,4-Dichlorophenol	162	5.622	5.628	-0.006	93	8131	0.2500	0.2133	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	93	12288	0.2500	0.2522	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	723592	5.00	5.00	
55 Naphthalene	128	5.793	5.798	-0.005	96	39958	0.2500	0.2689	
29 Alpha-Terpineol	59	5.804	5.804	0.000	87	11249	0.2500	0.2382	
57 4-Chloroaniline	127	5.840	5.840	0.000	93	15400	0.2500	0.2370	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	96	7813	0.2500	0.2058	
59 Hexachloropropene	213	5.887	5.887	0.000	91	6292	0.2500	0.2085	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	94	7019	0.2500	0.2443	
62 Quinoline	129	6.122	6.122	0.000	96	31256	0.2500	0.2829	
63 Caprolactam	113	6.151	6.157	-0.006	77	3471	0.2500	0.2139	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	87	11193	0.2500	0.2505	
39 p-Phenylene diamine	108	6.193	6.187	0.006	89	13705	0.2500	0.2241	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	96	10756	0.2500	0.2424	
67 Safrole, Total	162	6.399	6.398	0.000	86	9486	0.2500	0.2226	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	95	25561	0.2500	0.2644	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	91	25427	0.2500	0.2532	
71 Hexachlorocyclopentadiene	237	6.646	6.645	0.001	91	7527	0.2500	0.2127	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	95	14632	0.2500	0.2602	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	62	2211	0.0400	0.0415	
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	76	5825	0.2500	0.2056	
75 2,4,5-Trichlorophenol	196	6.793	6.793	0.001	92	7115	0.2500	0.1933	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	99	67710	0.5000	0.5304	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	89	11076	0.2100	0.2055	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	94	34963	0.2500	0.2510	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	92	31531	0.2500	0.2750	M
80 1-Chloronaphthalene	162	6.987	6.992	-0.005	98	24682	0.2500	0.2438	Ma
81 Phenyl ether	170	7.057	7.057	0.000	89	21021	0.2500	0.2632	
82 2-Nitroaniline	138	7.063	7.063	0.000	75	7148	0.2500	0.2327	
84 1,4-Naphthoquinone	158	7.140	7.140	0.000	86	9449	0.2500	0.2138	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	92	2804	0.2500	0.2177	
86 Dimethyl phthalate	163	7.246	7.251	-0.005	98	33060	0.2500	0.2508	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	87	2940	0.2500	0.1769	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	90	6155	0.2500	0.2434	
89 Acenaphthylene	152	7.375	7.381	-0.006	98	43137	0.2500	0.2483	
90 3-Nitroaniline	138	7.463	7.463	0.000	93	6312	0.2500	0.2197	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	472984	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	31410	0.2500	0.2671	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	77	11111	2.50	1.93	
95 4-Nitrophenol	109	7.616	7.622	-0.006	88	14954	1.50	0.9566	
96 Pentachlorobenzene	250	7.681	7.681	0.000	96	13835	0.2500	0.2548	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	89	7146	0.2500	0.2139	
97 Dibenzofuran	168	7.722	7.722	0.000	98	42755	0.2500	0.2589	
99 1-Naphthylamine	143	7.793	7.792	0.001	98	27214	0.2500	0.2344	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	5557	0.2500	0.1764	
103 2-Naphthylamine	143	7.869	7.875	-0.006	96	31259	0.2500	0.2471	
104 Diethyl phthalate	149	7.945	7.951	-0.006	97	32395	0.2500	0.2443	
106 Thionazin	107	8.028	8.028	0.000	75	4973	0.2500	0.2418	
105 Fluorene	166	8.057	8.057	0.000	90	35097	0.2500	0.2579	
107 N-Nitro-o-toluidine	152	8.057	8.063	-0.006	57	6551	0.2500	0.1945	
109 4-Nitroaniline	138	8.063	8.063	0.000	57	6365	0.2500	0.1984	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	75	17916	0.2500	0.2672	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	84	9343	1.50	1.78	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	61	24179	0.2125	0.2095	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	38157	0.2500	0.2661	
$ 113 2,4,6-Tribromophenol	330	8.293	8.292	0.000	92	6143	0.5000	0.3098	
114 Sulfotepp	97	8.334	8.339	-0.005	80	6334	0.2500	0.2698	
172 1,3,5-Trinitrobenzene	213	8.410	8.416	-0.006	82	1153	0.2500	0.3500	
115 cis-Diallate	86	8.463	8.463	0.000	76	9714	0.1850	0.1756	
117 Phenacetin	108	8.469	8.469	0.000	74	12372	0.2500	0.1897	
116 Phorate	75	8.469	8.469	0.000	91	18448	0.2500	0.2139	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	67	10090	0.2500	0.2343	
119 trans-Diallate	86	8.551	8.551	0.000	78	4377	0.0650	0.0705	
120 Hexachlorobenzene	284	8.598	8.598	0.000	94	13060	0.2500	0.2532	
121 Dimethoate	87	8.628	8.628	0.000	92	8185	0.2500	0.2407	
122 Atrazine	200	8.698	8.698	0.000	91	8277	0.2500	0.2022	
123 Pentachlorophenol	266	8.787	8.792	-0.005	90	15401	1.25	1.57	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	38013	0.2500	0.2302	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	82	4294	0.2500	0.2403	
126 Pronamide	173	8.851	8.857	-0.006	90	14673	0.2500	0.2236	
128 Dinoseb	211	8.969	8.975	-0.006	61	2783	0.2500	0.1915	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	98	970825	5.00	5.00	
70 Disulfoton	88	8.987	8.986	0.001	72	29074	0.2500	0.2375	
129 Phenanthrene	178	9.004	9.004	0.000	97	56477	0.2500	0.2610	
S 56 Dinitrotoluene	165				0		0.5000	0.4573	
130 Anthracene	178	9.057	9.057	0.000	97	50495	0.2500	0.2379	
131 Carbazole	167	9.210	9.210	0.000	96	46717	0.2500	0.2351	
132 Methyl parathion	109	9.351	9.351	0.000	86	6894	0.2500	0.1844	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	99	47795	0.2500	0.2246	
S 65 Diallate	86				0		0.2500	0.2461	
134 Ethyl Parathion	109	9.734	9.733	0.001	81	3806	0.2500	0.1623	
135 4-Nitroquinoline-1-oxide	190	9.751	9.757	-0.006	75	2275	0.2500	0.5662	
136 Octachlorostyrene	308	9.987	9.986	0.000	89	5572	0.2500	0.2615	
137 Isodrin	193	10.034	10.033	0.001	89	7672	0.2500	0.2831	
138 Fluoranthene	202	10.175	10.175	0.000	96	57188	0.2500	0.2368	
139 Benzidine	184	10.304	10.310	-0.006	99	102470	0.7500	0.6647	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1050696	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	97	67503	0.2500	0.2621	
$ 142 p-Terphenyl-d14	244	10.569	10.575	-0.006	100	86085	0.5000	0.5044	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	92	10641	0.2500	0.2283	
144 Chlorobenzilate	139	10.775	10.780	-0.005	87	12609	0.2500	0.1933	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	98	33626	0.2500	0.2171	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	96	16370	0.2500	0.1732	
147 2-Acetylaminofluorene	181	11.398	11.404	-0.006	85	10364	0.2500	0.1179	
149 3,3'-Dichlorobenzidine	252	11.775	11.780	-0.005	76	21338	0.2500	0.2207	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	89	9614	0.2500	0.1930	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	97	58953	0.2500	0.2352	
151 Chrysene	228	11.857	11.857	0.000	96	61122	0.2500	0.2514	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	94	24353	0.2500	0.1690	
153 6-Methylchrysene	242	12.475	12.480	-0.005	97	42033	0.2500	0.2415	
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	98	31070	0.2500	0.7086	
156 7,12-Dimethylbenz(a)anthracene	256	13.310	13.316	-0.006	70	24537	0.2500	0.2217	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	97	59875	0.2500	0.2305	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	99	59786	0.2500	0.2317	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	75	54966	0.2500	0.2382	
* 159 Perylene-d12	264	13.880	13.874	0.006	99	1045531	5.00	5.00	
160 3-Methylcholanthrene	268	14.322	14.327	-0.005	88	26613	0.2500	0.2273	
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	89	38937	0.2500	0.2196	
162 Dibenz[a,j]acridine	279	15.304	15.310	-0.006	95	39468	0.2500	0.2177	
163 Indeno[1,2,3-cd]pyrene	276	15.621	15.633	-0.012	98	45404	0.2500	0.2148	
164 Dibenz(a,h)anthracene	278	15.674	15.680	-0.006	92	48997	0.2500	0.2299	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	98	51619	0.2500	0.2434	
S 166 Isosafrole	162				0		0.2500	0.2470	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSS_RV8270_2_00044 Amount Added: 1.00 Units: mL

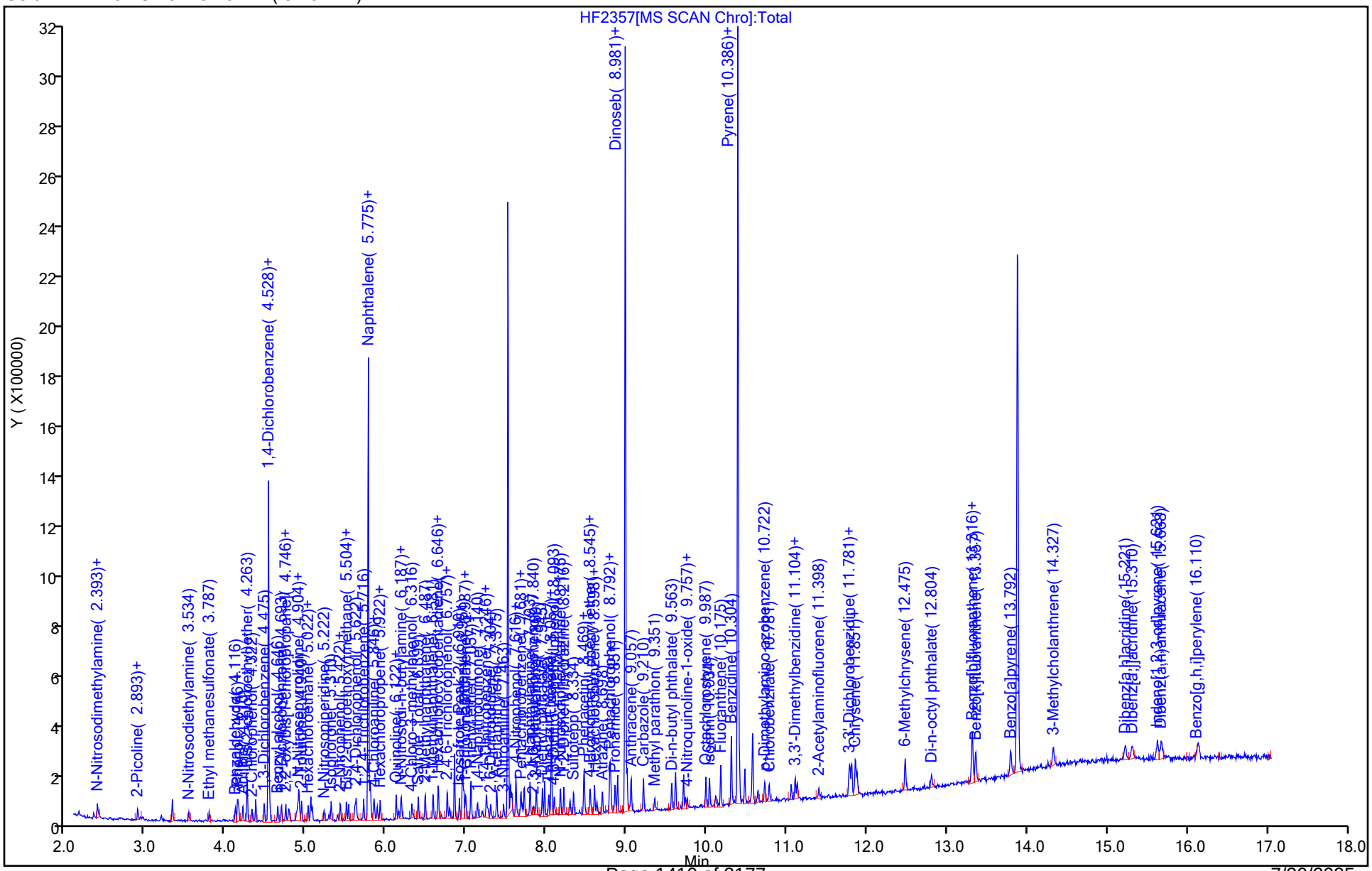
Report Date: 24-Jun-2025 10:07:54 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D

Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	IC L2			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

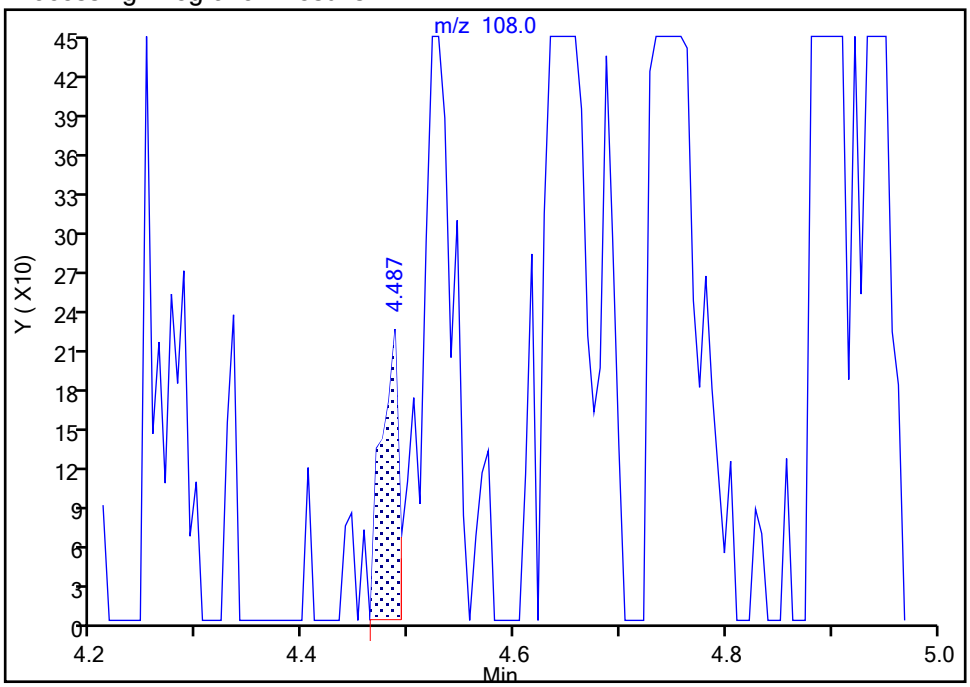
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Benzyl alcohol, CAS: 100-51-6

Signal: 1

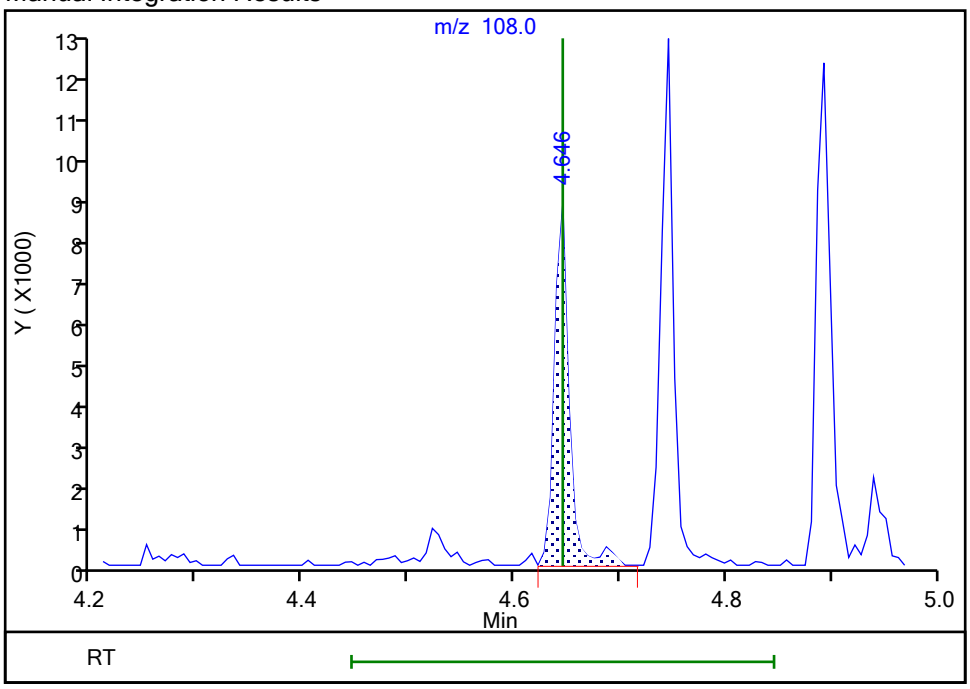
Processing Integration Results

RT: 4.49
Area: 247
Amount: 0.008282
Amount Units: ug/ml



Manual Integration Results

RT: 4.65
Area: 8421
Amount: 0.248323
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:56:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

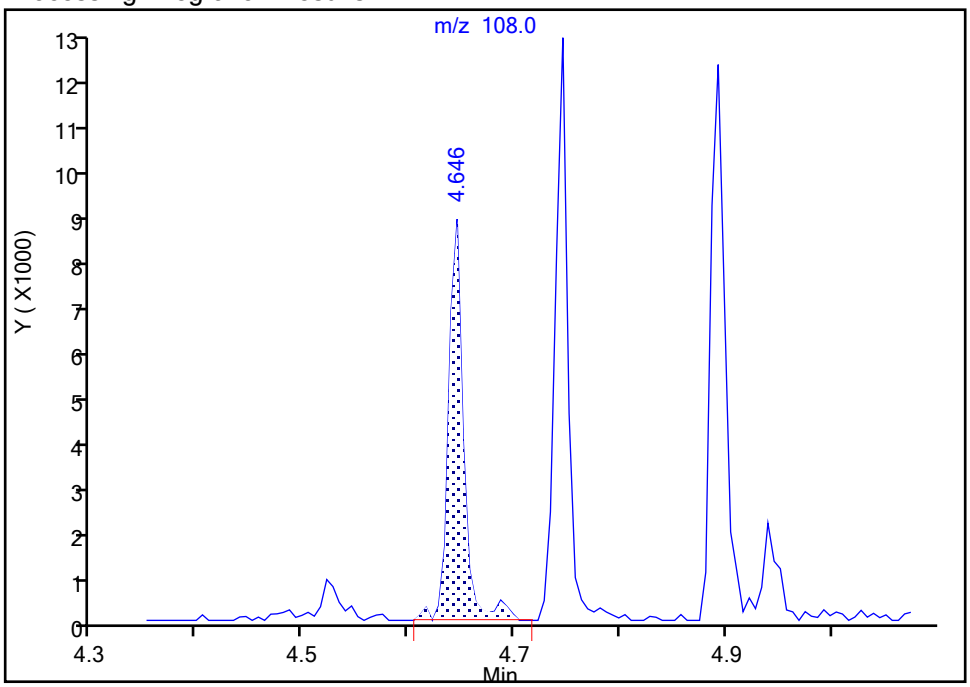
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 2-Methylphenol, CAS: 95-48-7

Signal: 1

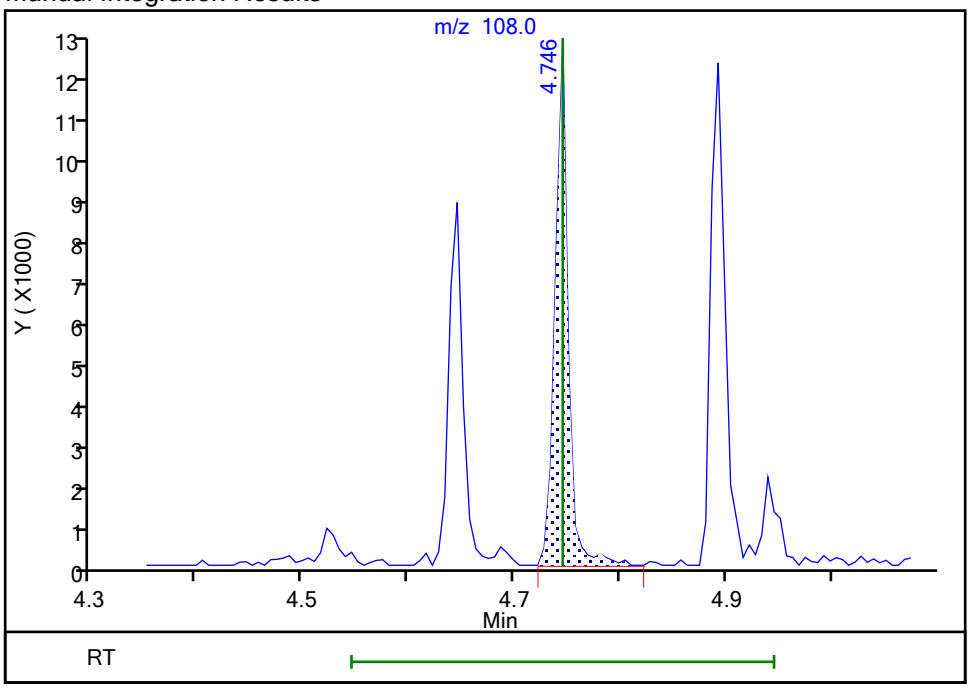
Processing Integration Results

RT: 4.65
Area: 8561
Amount: 0.187953
Amount Units: ug/ml



Manual Integration Results

RT: 4.75
Area: 10627
Amount: 0.231951
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:56:47 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

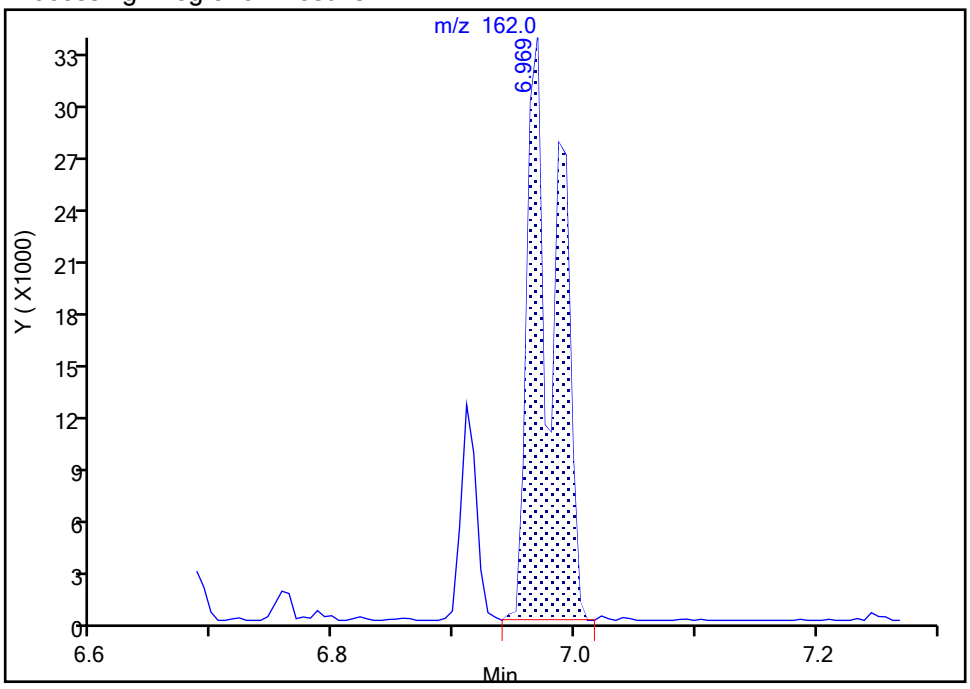
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

79 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

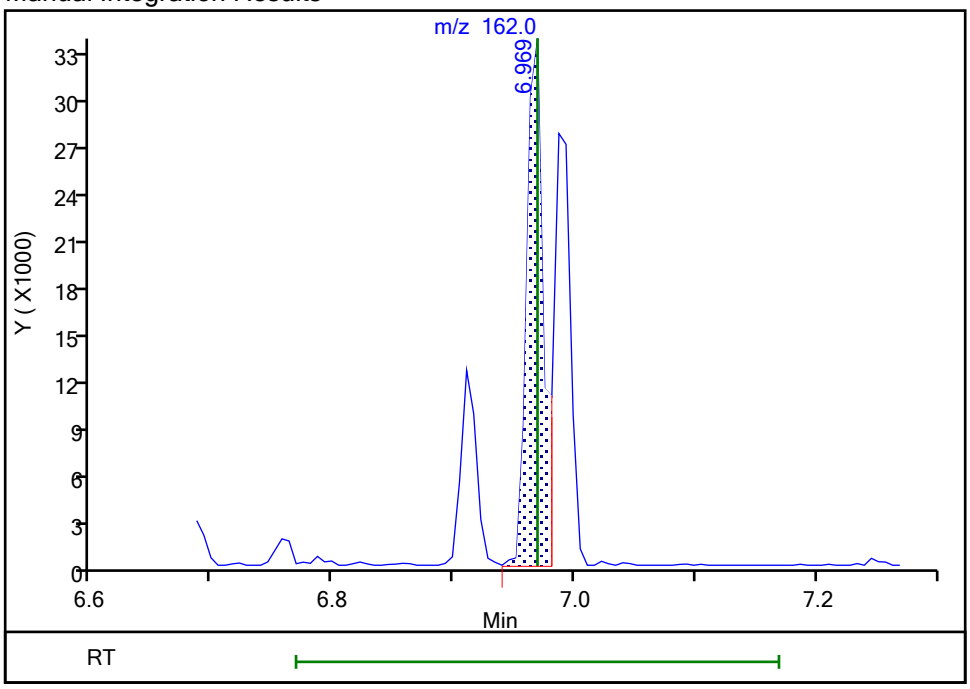
Processing Integration Results

RT: 6.97
Area: 56213
Amount: 0.402073
Amount Units: ug/ml



Manual Integration Results

RT: 6.97
Area: 31531
Amount: 0.275002
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:57:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

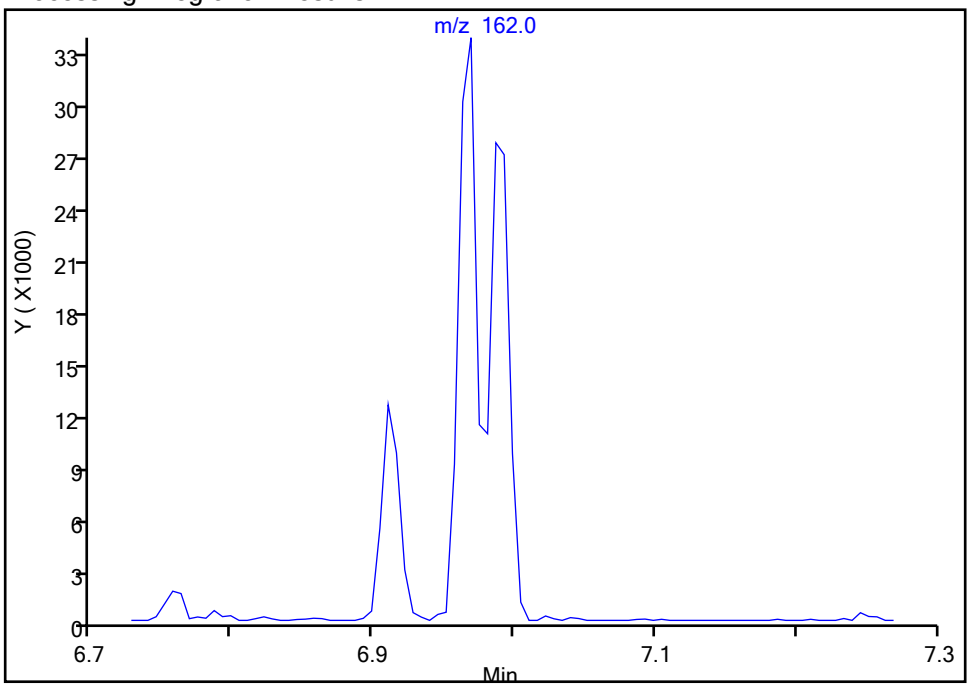
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

80 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

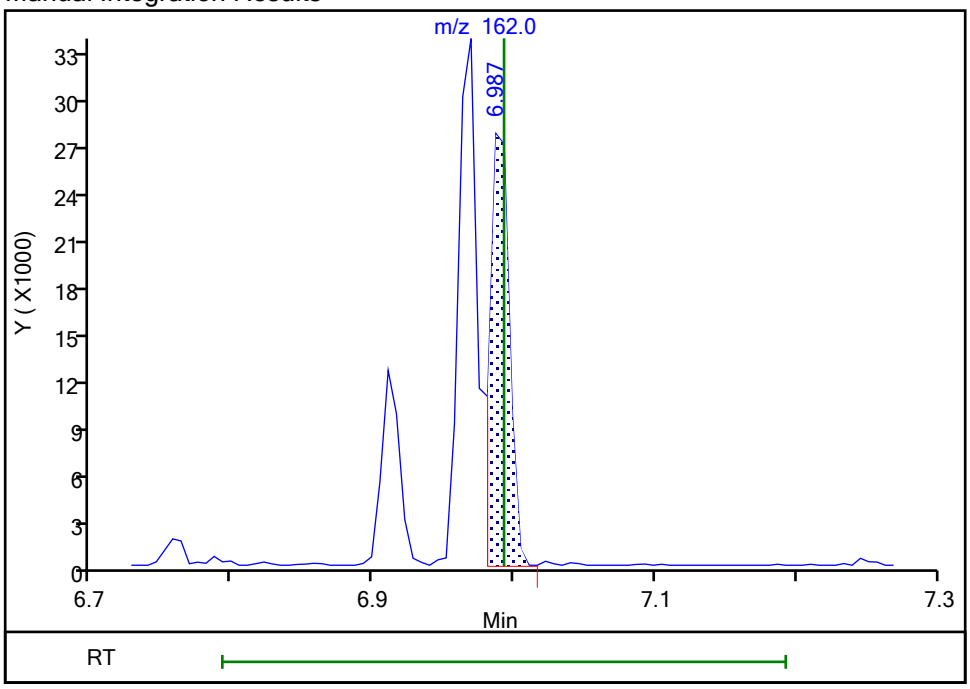
Not Detected
Expected RT: 6.99

Processing Integration Results



Manual Integration Results

RT: 6.99
Area: 24682
Amount: 0.243776
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:57:09 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

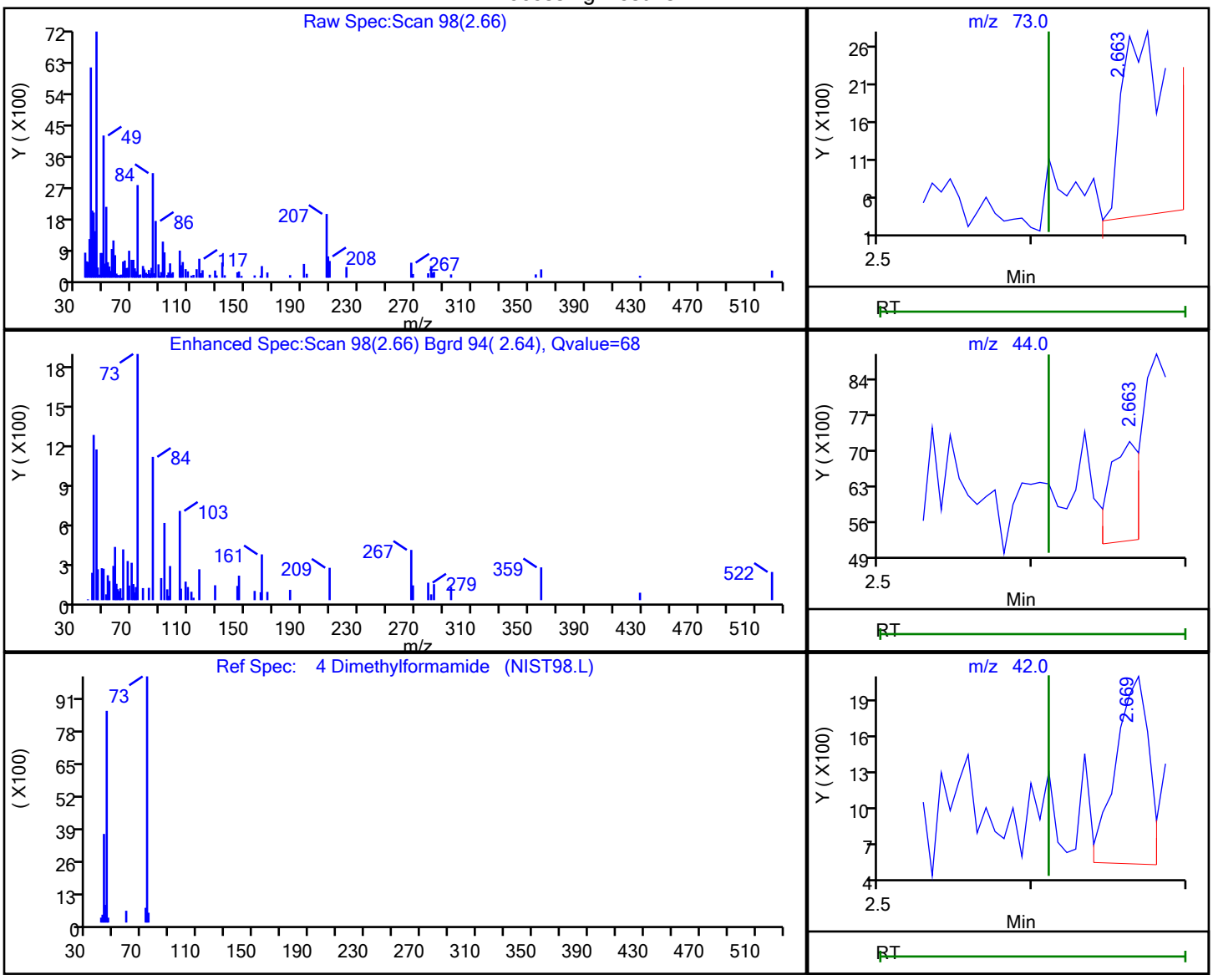
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

4 Dimethylformamide, CAS: 68-12-2

Processing Results



RT	Mass	Response	Amount
2.66	73.00	4478	0.235149
2.66	44.00	2249	
2.67	42.00	2224	

Reviewer: SJ89, 24-Jun-2025 07:56:38 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jun-2025 23:36:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0151283-009
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:08:11 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 08:23:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.163	2.158	0.005	63	3989	0.1250	0.1950	
	2 N-Nitrosodimethylamine	74	2.352	2.340	0.012	82	4908	0.1250	0.1379	
	3 Pyridine	79	2.399	2.381	0.018	93	15509	0.2500	0.2742	
	4 Dimethylformamide	73		2.610				ND	ND	U
	5 2-Picoline	93	2.899	2.887	0.012	88	7056	0.1250	0.1209	
	6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	42	5408	0.1250	0.2049	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	3919	0.1250	0.1193	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	89	11557	0.2500	0.2481	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	91	3414	0.1250	0.1308	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	93	3555	0.1250	0.1200	
	15 Benzaldehyde	77	4.116	4.116	0.000	91	6667	0.1250	0.1342	
$	16 Phenol-d5	99	4.140	4.146	-0.006	93	14374	0.2500	0.2218	
	17 Phenol	94	4.157	4.157	0.000	52	8616	0.1250	0.1248	
	18 Aniline	93	4.210	4.210	0.000	94	10380	0.1250	0.1206	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	85	7733	0.1250	0.1380	
	20 2-Chlorophenol	128	4.322	4.322	0.000	95	6294	0.1250	0.1247	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	92	6926	0.1250	0.1202	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	195246	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	89	8057	0.1250	0.1346	
	26 Benzyl alcohol	108	4.646	4.646	0.000	88	4733	0.1250	0.1276	
	27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	94	7483	0.1250	0.1320	
	30 2-Methylphenol	108	4.746	4.746	0.000	92	6255	0.1250	0.1248	Ma
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	95	12759	0.1250	0.1382	
	33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	77	3435	0.1250	0.1093	
	36 4-Methylphenol	108	4.893	4.893	0.000	22	5411	0.1250	0.1043	a
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	80	6098	0.1250	0.1280	
	34 Acetophenone	105	4.910	4.910	0.000	83	10729	0.1250	0.1272	
	37 N-Nitrosomorpholine	56	4.922	4.922	0.000	53	6559	0.1250	0.1465	
	38 2-Toluidine	106	4.940	4.940	0.000	96	11845	0.1250	0.1310	
	40 Hexachloroethane	117	5.022	5.022	0.000	87	3774	0.1250	0.1562	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	13402	0.2500	0.2381	
42 Nitrobenzene	77	5.075	5.075	0.000	84	7903	0.1250	0.1301	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	82	4135	0.1250	0.1386	
45 Isophorone	82	5.310	5.310	0.000	99	15283	0.1250	0.1296	
46 2-Nitrophenol	139	5.387	5.393	-0.006	58	1563	0.1250	0.0833	
48 2,4-Dimethylphenol	107	5.422	5.428	-0.006	94	6847	0.1250	0.1241	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	3809	0.1250	0.1223	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	95	9692	0.1250	0.1327	
52 2,4-Dichlorophenol	162	5.622	5.628	-0.006	89	3917	0.1250	0.0942	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	91	7064	0.1250	0.1329	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	789215	5.00	5.00	
55 Naphthalene	128	5.793	5.798	-0.005	95	19909	0.1250	0.1229	
29 Alpha-Terpineol	59	5.804	5.804	0.000	85	6707	0.1250	0.1302	
57 4-Chloroaniline	127	5.840	5.840	0.000	89	8379	0.1250	0.1182	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	72	4584	0.1250	0.1107	
59 Hexachloropropene	213	5.887	5.887	0.000	86	3822	0.1250	0.1161	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	91	4006	0.1250	0.1278	
62 Quinoline	129	6.122	6.122	0.000	97	15644	0.1250	0.1298	
63 Caprolactam	113	6.151	6.157	-0.006	55	1982	0.1250	0.1120	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	88	5491	0.1250	0.1127	
39 p-Phenylene diamine	108	6.193	6.187	0.006	95	7072	0.1250	0.1060	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	88	4772	0.1250	0.0986	
67 Safrole, Total	162	6.398	6.398	0.000	89	6114	0.1250	0.1315	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	90	13258	0.1250	0.1257	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	89	13713	0.1250	0.1252	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	73	4087	0.1250	0.1086	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	94	7866	0.1250	0.1316	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	46	1418	0.0200	0.0250	a
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	65	2608	0.1250	0.0866	
75 2,4,5-Trichlorophenol	196	6.793	6.793	0.001	90	3069	0.1250	0.0784	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	99	35792	0.2500	0.2637	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	88	5585	0.1050	0.0975	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	19294	0.1250	0.1303	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	90	16712	0.1250	0.1371	M
80 1-Chloronaphthalene	162	6.987	6.992	-0.005	97	13617	0.1250	0.1265	Ma
81 Phenyl ether	170	7.057	7.057	0.000	89	11547	0.1250	0.1360	
82 2-Nitroaniline	138	7.057	7.063	-0.006	56	3070	0.1250	0.0940	
84 1,4-Naphthoquinone	158	7.140	7.140	0.000	93	5359	0.1250	0.1140	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	44	1399	0.1250	0.1022	
86 Dimethyl phthalate	163	7.245	7.251	-0.006	98	17710	0.1250	0.1264	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	36	1572	0.1250	0.0890	a
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	83	2876	0.1250	0.1070	
89 Acenaphthylene	152	7.375	7.381	-0.006	98	22142	0.1250	0.1199	
90 3-Nitroaniline	138	7.463	7.463	0.000	82	2994	0.1250	0.0980	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	502809	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	17145	0.1250	0.1372	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	56	4953	1.25	0.8072	
95 4-Nitrophenol	109	7.616	7.622	-0.006	95	8817	0.7500	0.5306	
96 Pentachlorobenzene	250	7.681	7.681	0.000	96	7538	0.1250	0.1306	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	50	3790	0.1250	0.1067	
97 Dibenzofuran	168	7.722	7.722	0.000	98	23498	0.1250	0.1338	
99 1-Naphthylamine	143	7.792	7.792	0.000	98	13524	0.1250	0.1096	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	66	2852	0.1250	0.0852	
103 2-Naphthylamine	143	7.869	7.875	-0.006	98	16146	0.1250	0.1201	
104 Diethyl phthalate	149	7.945	7.951	-0.006	97	17265	0.1250	0.1225	
106 Thionazin	107	8.028	8.028	0.000	78	2806	0.1250	0.1283	
105 Fluorene	166	8.057	8.057	0.000	91	17522	0.1250	0.1211	
109 4-Nitroaniline	138	8.063	8.063	0.000	66	3725	0.1250	0.1092	
108 4-Chlorophenyl phenyl ether	204	8.057	8.063	-0.006	79	9296	0.1250	0.1304	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	60	4571	0.1250	0.1277	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	74	4382	0.7500	1.18	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	11839	0.1063	0.0986	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	18731	0.1250	0.1255	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	87	4032	0.2500	0.1913	
114 Sulfotepp	97	8.339	8.339	0.000	81	3294	0.1250	0.1348	
172 1,3,5-Trinitrobenzene	213	8.410	8.416	-0.006	28	901	0.1250	0.3110	
115 cis-Diallate	86	8.463	8.463	0.000	70	5122	0.0925	0.0890	
117 Phenacetin	108	8.469	8.469	0.000	64	5695	0.1250	0.0839	
116 Phorate	75	8.469	8.469	0.000	91	10900	0.1250	0.1214	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	67	5972	0.1250	0.1333	
119 trans-Diallate	86	8.557	8.551	0.006	61	2873	0.0325	0.0445	
120 Hexachlorobenzene	284	8.598	8.598	0.000	92	7741	0.1250	0.1442	
121 Dimethoate	87	8.628	8.628	0.000	90	4120	0.1250	0.1640	
122 Atrazine	200	8.698	8.698	0.000	88	4763	0.1250	0.1118	
123 Pentachlorophenol	266	8.787	8.792	-0.005	90	7658	0.6250	1.24	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	20467	0.1250	0.1191	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	50	2001	0.1250	0.1076	
126 Pronamide	173	8.851	8.857	-0.006	88	8289	0.1250	0.1214	
128 Dinoseb	211	8.969	8.975	-0.006	61	1424	0.1250	0.0942	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	98	1010165	5.00	5.00	
70 Disulfoton	88	8.981	8.986	-0.005	56	20545	0.1250	0.1287	
129 Phenanthrene	178	9.004	9.004	0.000	95	31660	0.1250	0.1406	
S 56 Dinitrotoluene	165				0		0.2500	0.2137	
130 Anthracene	178	9.057	9.057	0.000	98	26773	0.1250	0.1212	
131 Carbazole	167	9.210	9.210	0.000	95	25487	0.1250	0.1233	
132 Methyl parathion	109	9.351	9.351	0.000	85	2735	0.1250	0.0703	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	98	25006	0.1250	0.1129	
S 65 Diallate	86				0		0.1250	0.1335	
134 Ethyl Parathion	109	9.734	9.733	0.001	29	2372	0.1250	0.0972	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	28	937	0.1250	0.4725	
136 Octachlorostyrene	308	9.986	9.986	0.000	87	2673	0.1250	0.1206	
137 Isodrin	193	10.034	10.033	0.001	89	6281	0.1250	0.2227	
138 Fluoranthene	202	10.175	10.175	0.000	97	31289	0.1250	0.1245	
139 Benzidine	184	10.304	10.310	-0.006	99	52739	0.3750	0.3281	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1095497	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	99	38270	0.1250	0.1425	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	99	46477	0.2500	0.2612	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	92	4810	0.1250	0.0990	
144 Chlorobenzilate	139	10.781	10.780	0.000	91	5826	0.1250	0.0857	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	98	17005	0.1250	0.1053	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	93	6966	0.1250	0.0707	
147 2-Acetylaminofluorene	181	11.398	11.404	-0.006	72	4430	0.1250	0.0483	
149 3,3'-Dichlorobenzidine	252	11.775	11.780	-0.005	77	10383	0.1250	0.1030	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	87	4669	0.1250	0.0899	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.804	11.810	-0.006	98	28573	0.1250	0.1093	
151 Chrysene	228	11.857	11.857	0.000	96	30468	0.1250	0.1202	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	94	10995	0.1250	0.0732	
153 6-Methylchrysene	242	12.475	12.480	-0.005	98	20094	0.1250	0.1107	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	96	13116	0.1250	0.6407	
156 7,12-Dimethylbenz(a)anthracene	256	13.310	13.316	-0.006	80	11397	0.1250	0.1120	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	96	29474	0.1250	0.1235	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	98	28834	0.1250	0.1216	
158 Benzo[a]pyrene	252	13.786	13.792	-0.006	77	25410	0.1250	0.1198	
* 159 Perylene-d12	264	13.874	13.874	0.000	99	960900	5.00	5.00	
160 3-Methylcholanthrene	268	14.321	14.327	-0.006	67	11314	0.1250	0.1051	a
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	35	17542	0.1250	0.1077	a
162 Dibenz[a,j]acridine	279	15.304	15.310	-0.006	93	16321	0.1250	0.0980	
163 Indeno[1,2,3-cd]pyrene	276	15.627	15.633	-0.006	92	21877	0.1250	0.1126	M
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	89	20417	0.1250	0.1042	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	89	23155	0.1250	0.1188	M
S 166 Isosafrole	162				0		0.1250	0.1225	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSS_RV8270_1_00043 Amount Added: 1.00 Units: mL

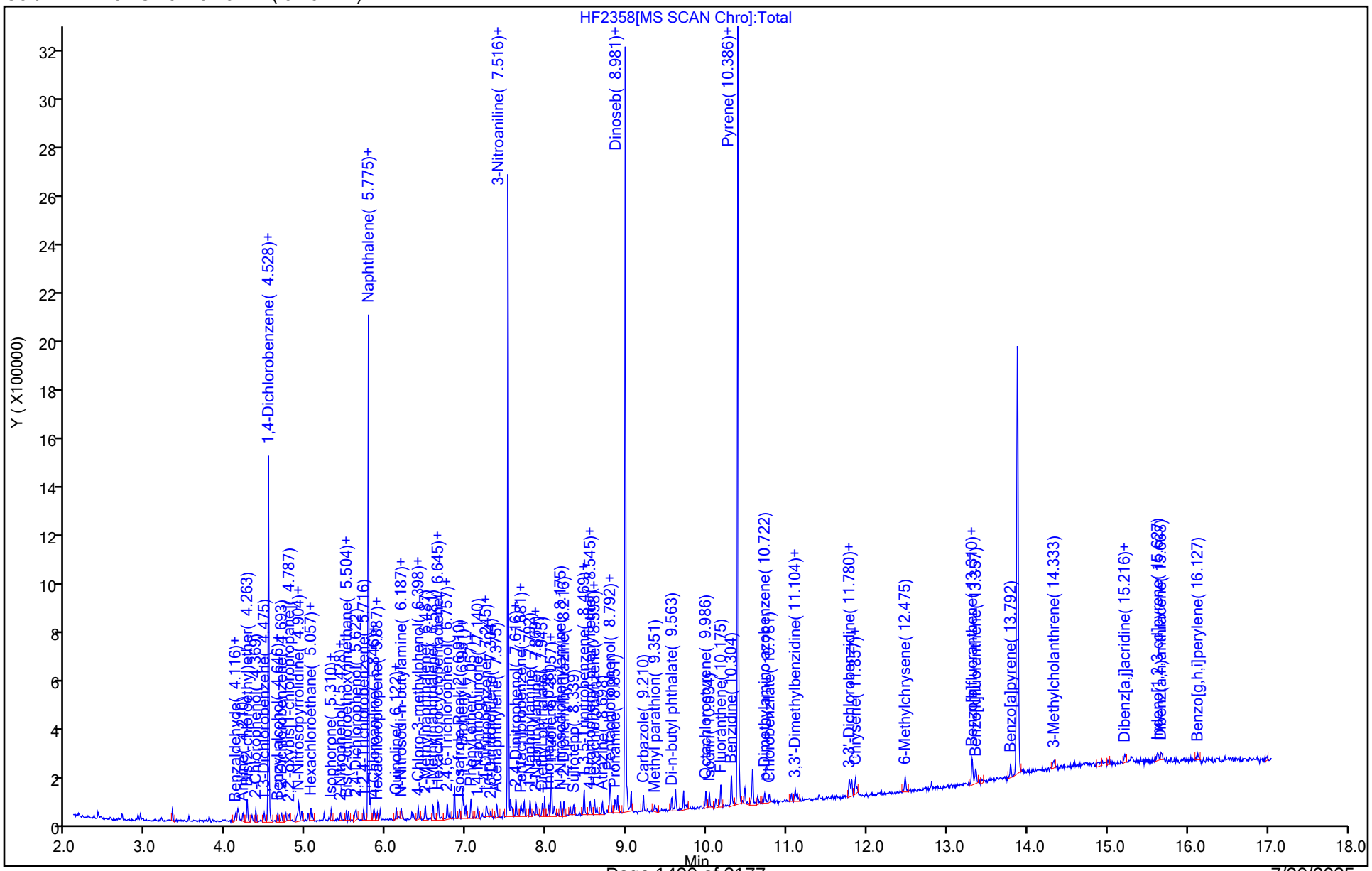
Report Date: 24-Jun-2025 10:08:12 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D

Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	IC L1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

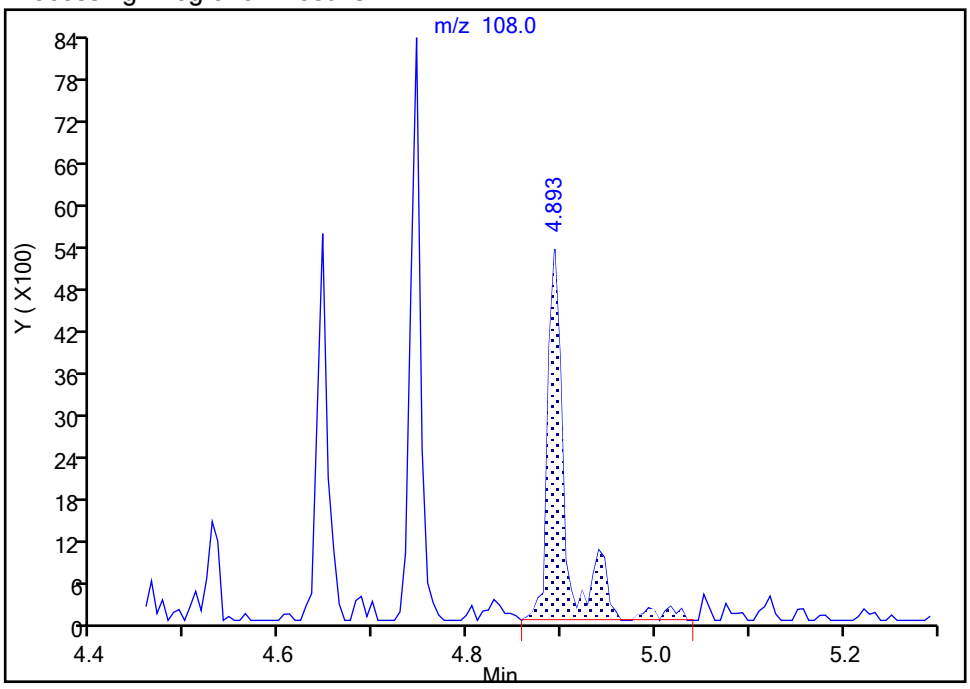
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 2-Methylphenol, CAS: 95-48-7

Signal: 1

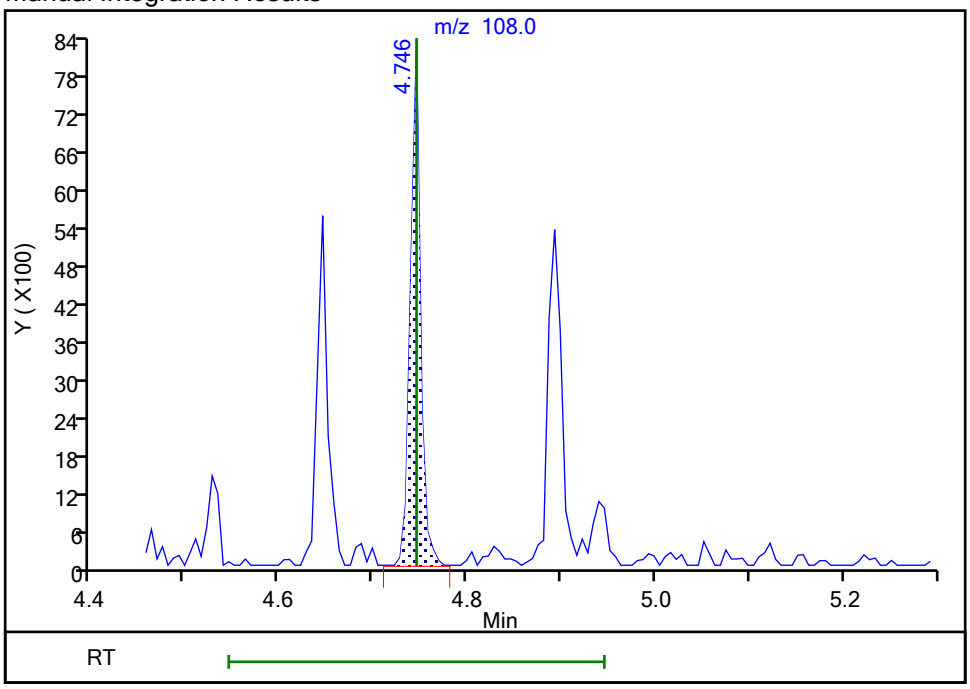
Processing Integration Results

RT: 4.89
Area: 7093
Amount: 0.139176
Amount Units: ug/ml



Manual Integration Results

RT: 4.75
Area: 6255
Amount: 0.124785
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

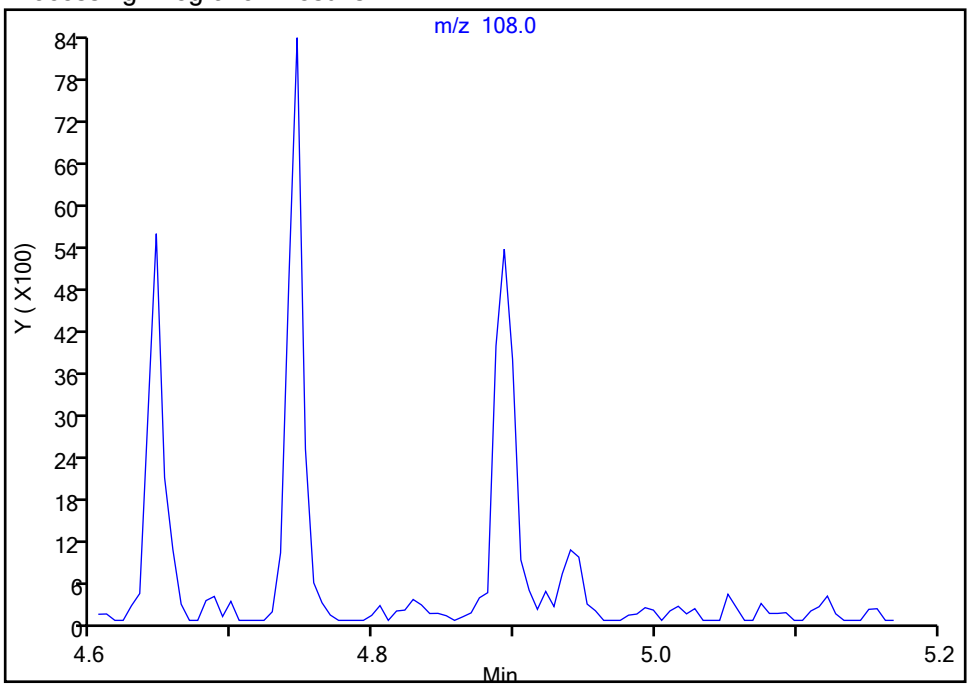
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

36 4-Methylphenol, CAS: 106-44-5

Signal: 1

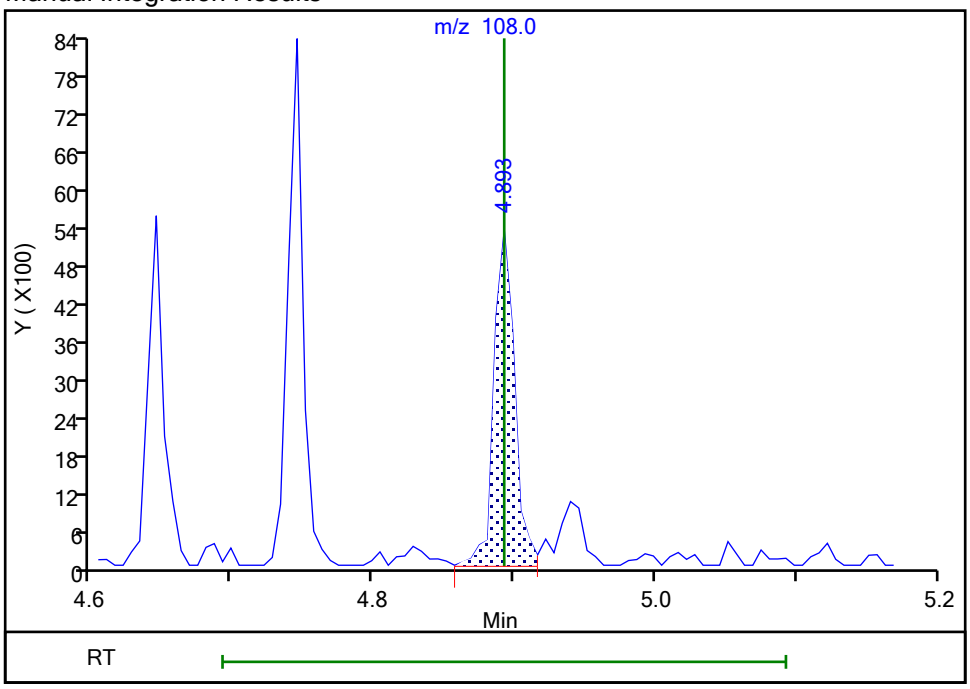
Not Detected
Expected RT: 4.89

Processing Integration Results



Manual Integration Results

RT: 4.89
Area: 5411
Amount: 0.104257
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:07 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

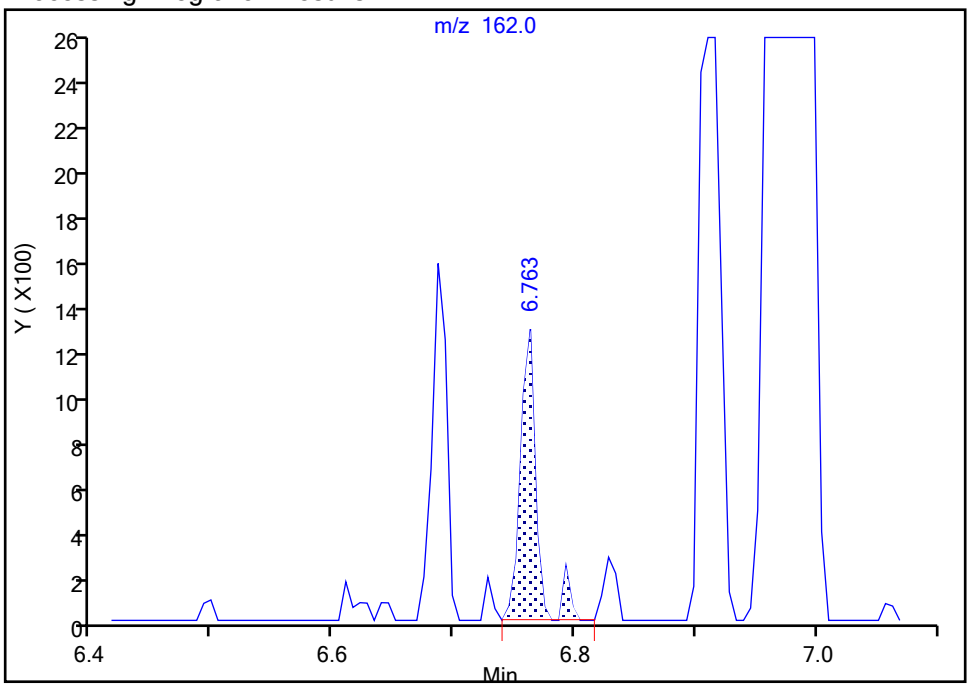
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

73 Isosafrole Peak 1, CAS: STL03315

Signal: 1

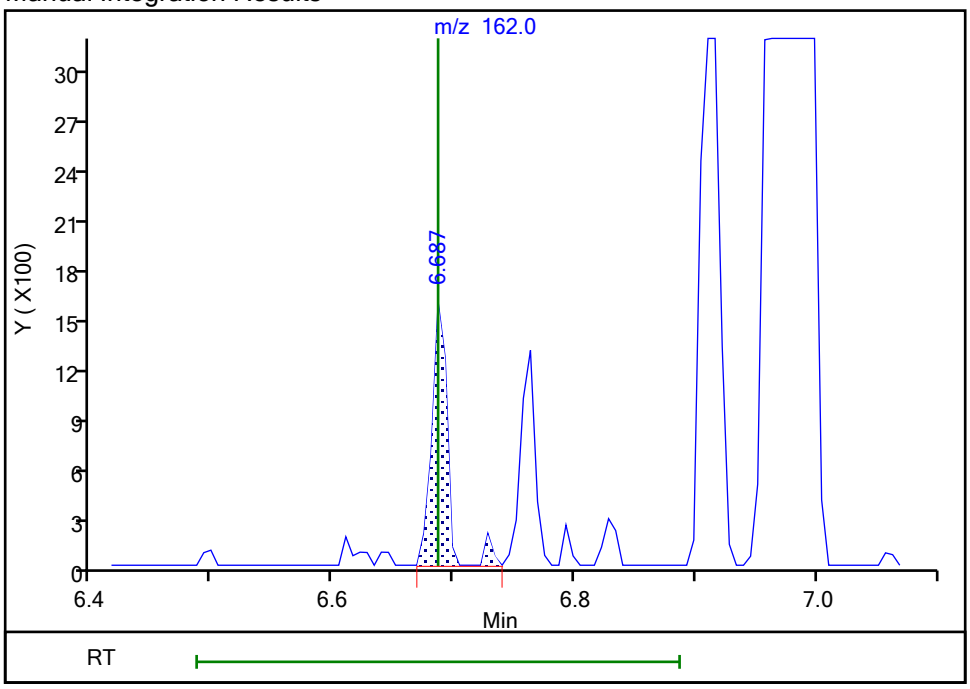
Processing Integration Results

RT: 6.76
Area: 1180
Amount: 0.021402
Amount Units: ug/ml



Manual Integration Results

RT: 6.69
Area: 1418
Amount: 0.025043
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

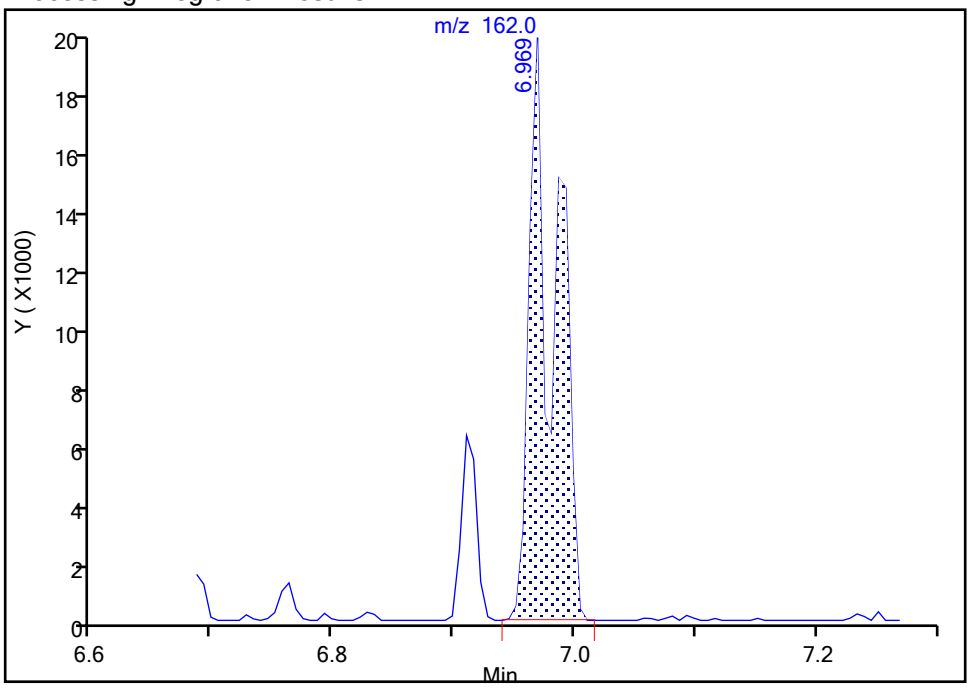
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

79 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

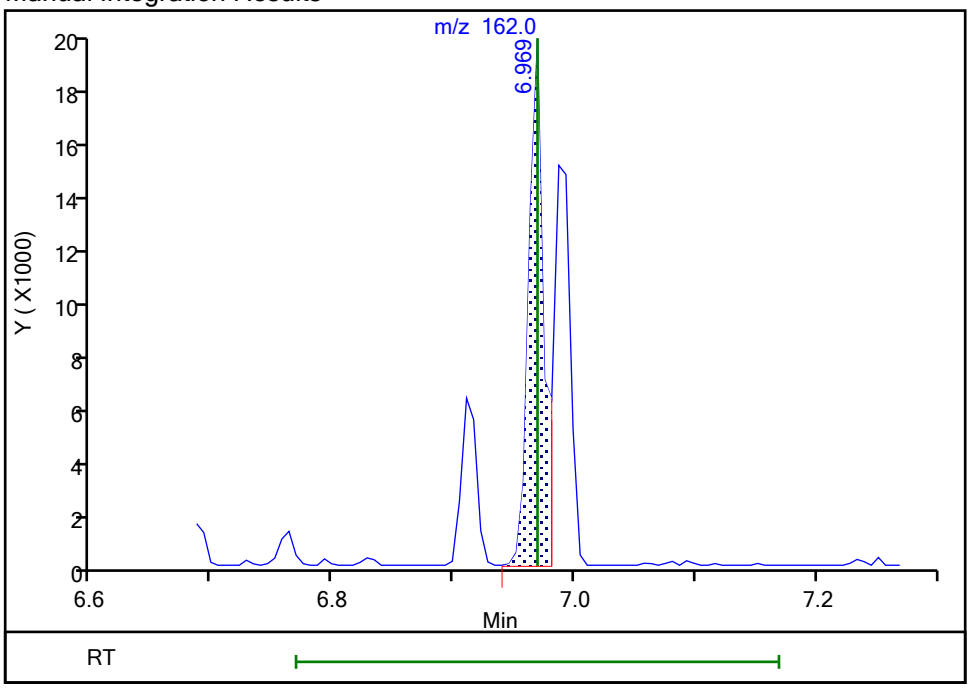
Processing Integration Results

RT: 6.97
Area: 30329
Amount: 0.150181
Amount Units: ug/ml



Manual Integration Results

RT: 6.97
Area: 16712
Amount: 0.137110
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

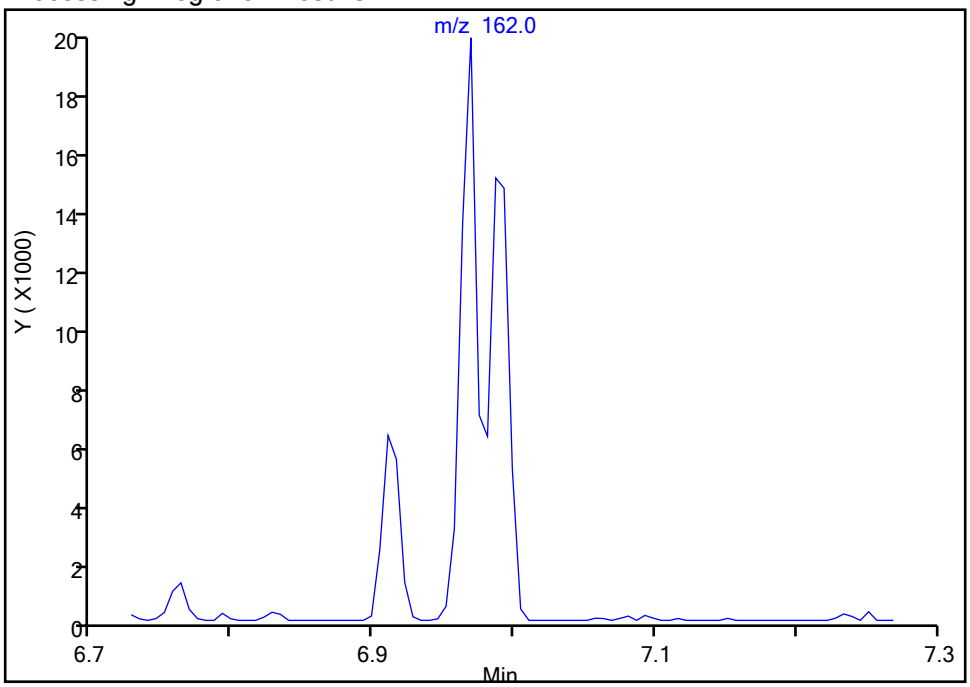
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

80 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

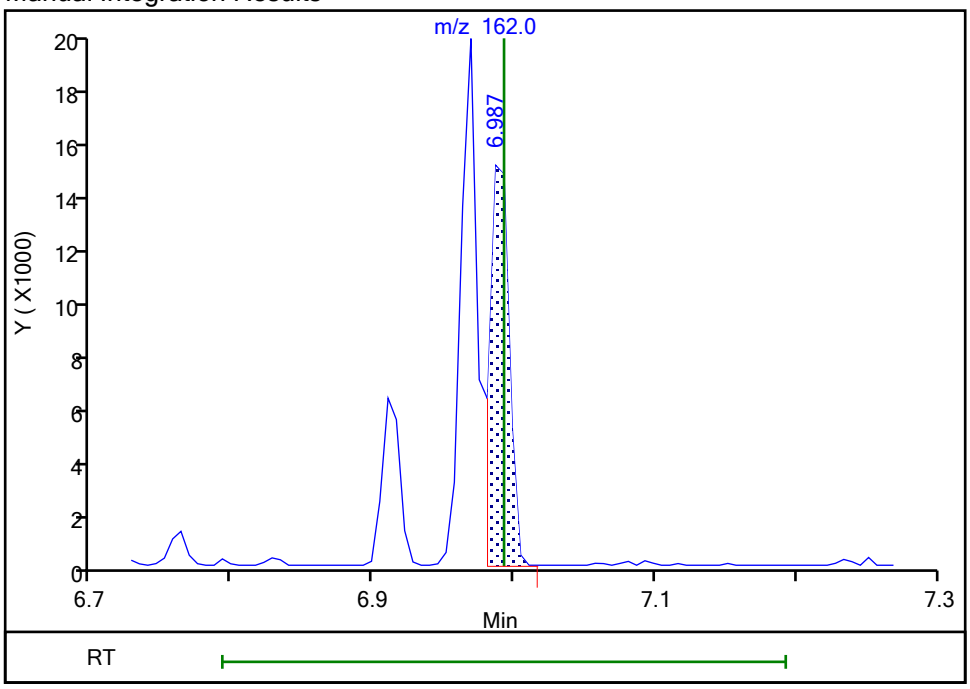
Not Detected
Expected RT: 6.99

Processing Integration Results



Manual Integration Results

RT: 6.99
Area: 13617
Amount: 0.126513
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:33 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

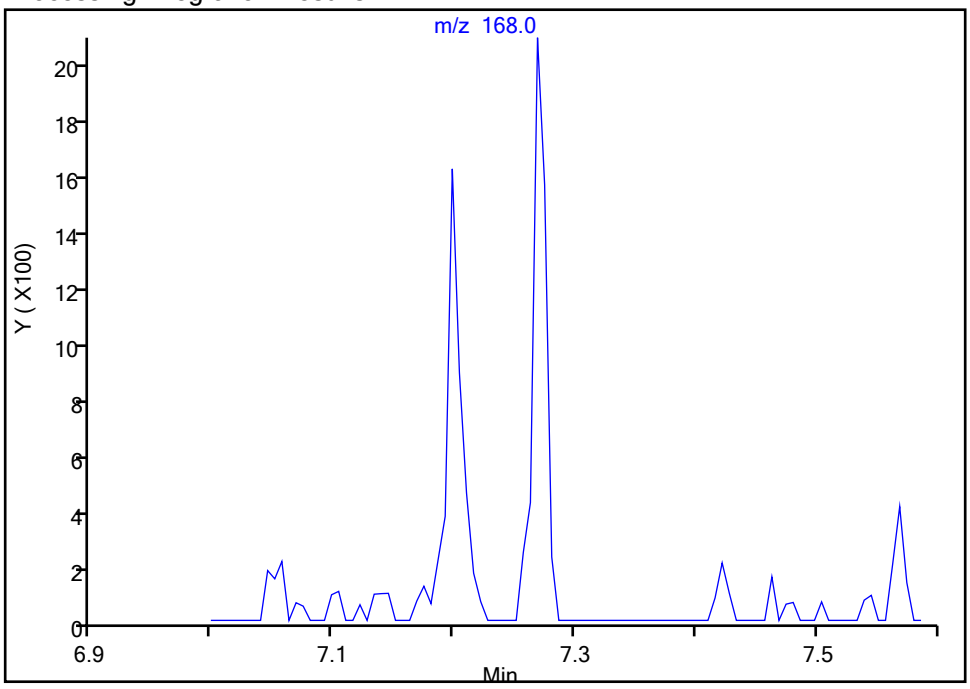
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

87 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

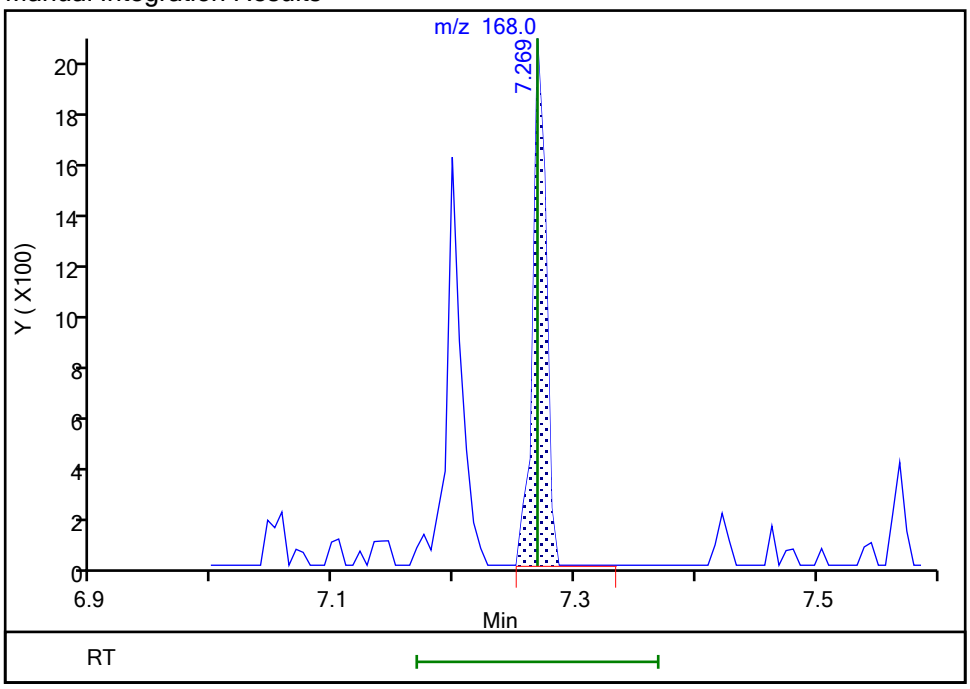
Not Detected
Expected RT: 7.27

Processing Integration Results



Manual Integration Results

RT: 7.27
Area: 1572
Amount: 0.088963
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:38 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

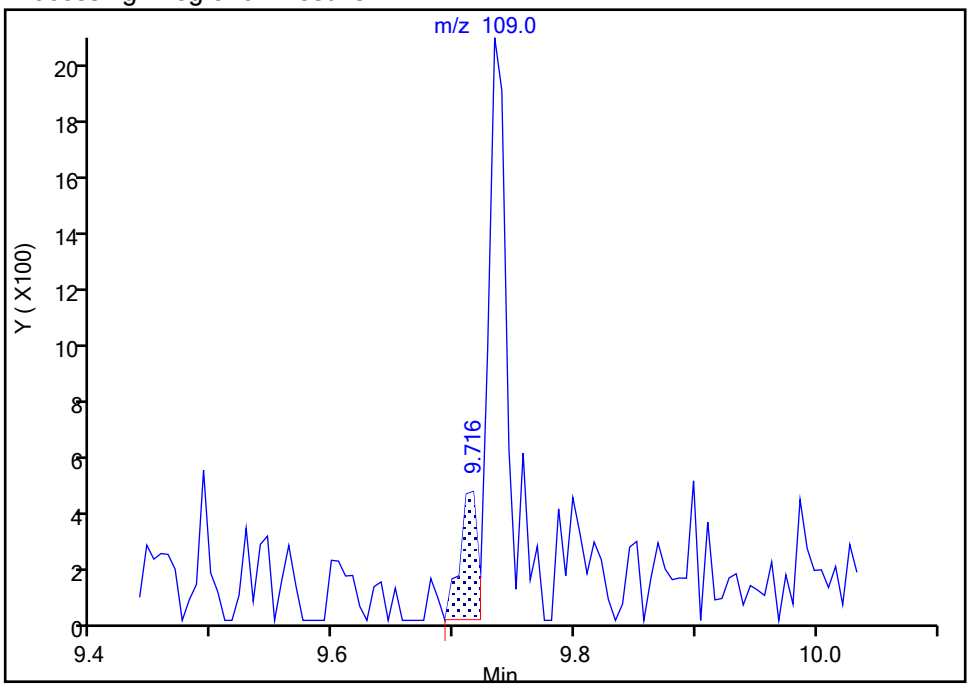
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

134 Ethyl Parathion, CAS: 56-38-2

Signal: 1

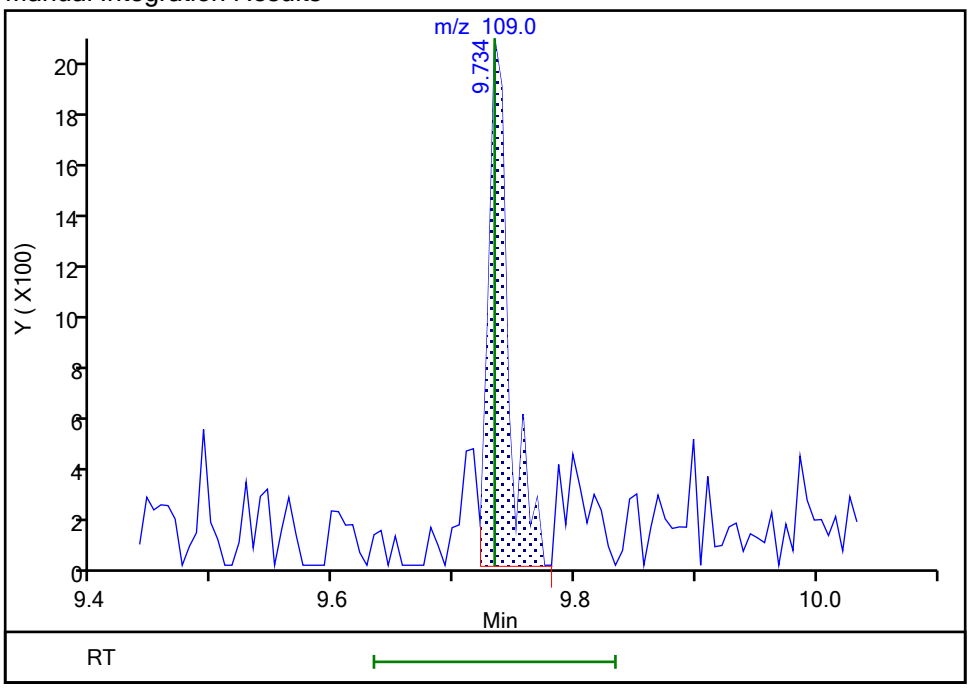
Processing Integration Results

RT: 9.72
Area: 455
Amount: 0.159325
Amount Units: ug/ml



Manual Integration Results

RT: 9.73
Area: 2372
Amount: 0.097182
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:13:45 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

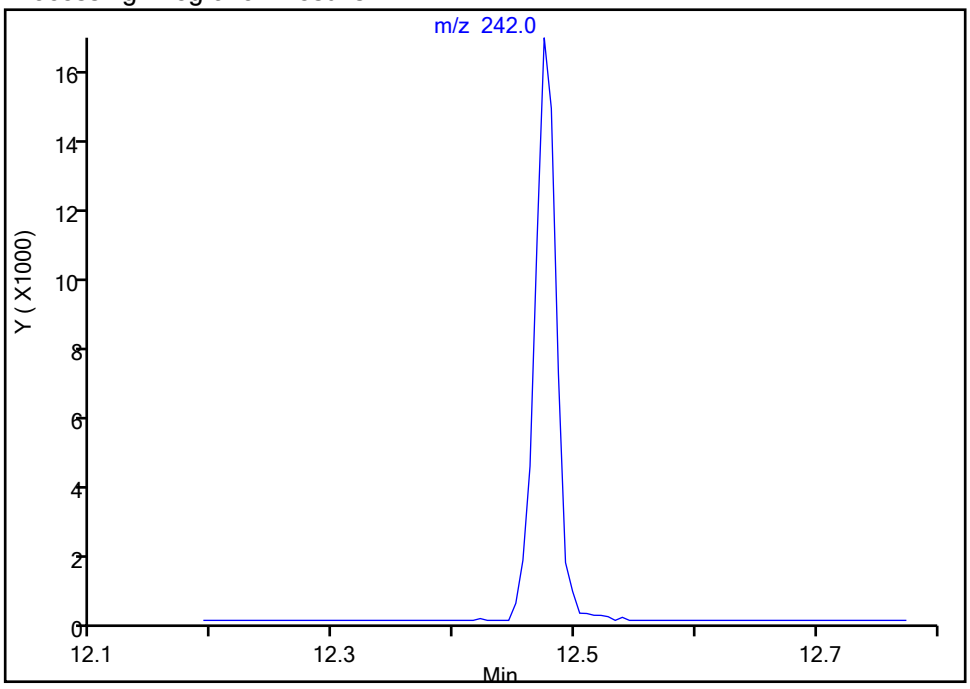
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

153 6-Methylchrysene, CAS: 1705-85-7

Signal: 1

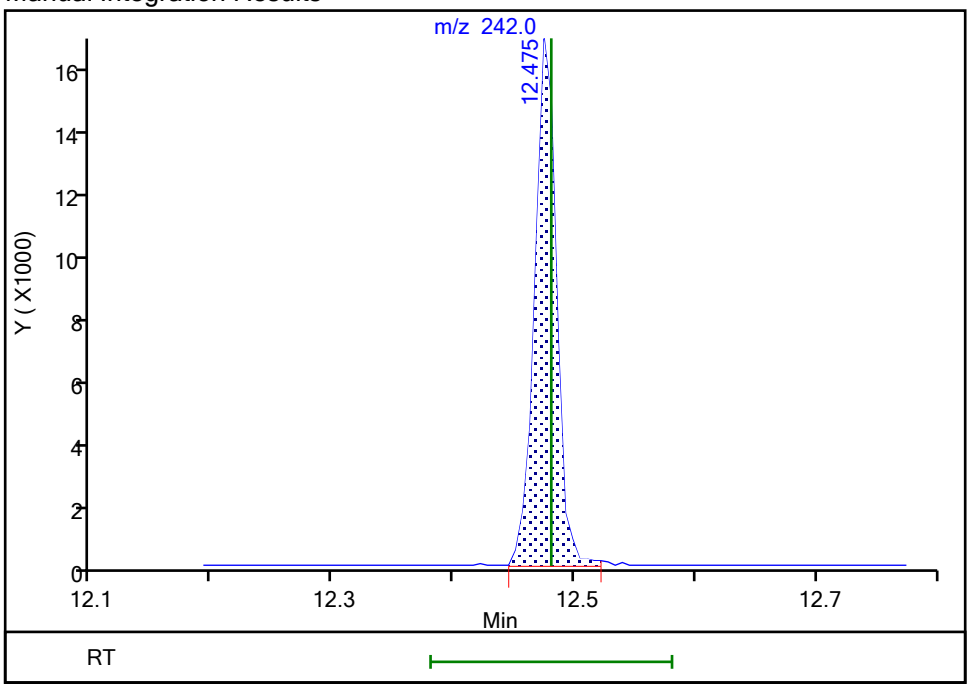
Not Detected
Expected RT: 12.48

Processing Integration Results



Manual Integration Results

RT: 12.47
Area: 20094
Amount: 0.110711
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:13:12 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

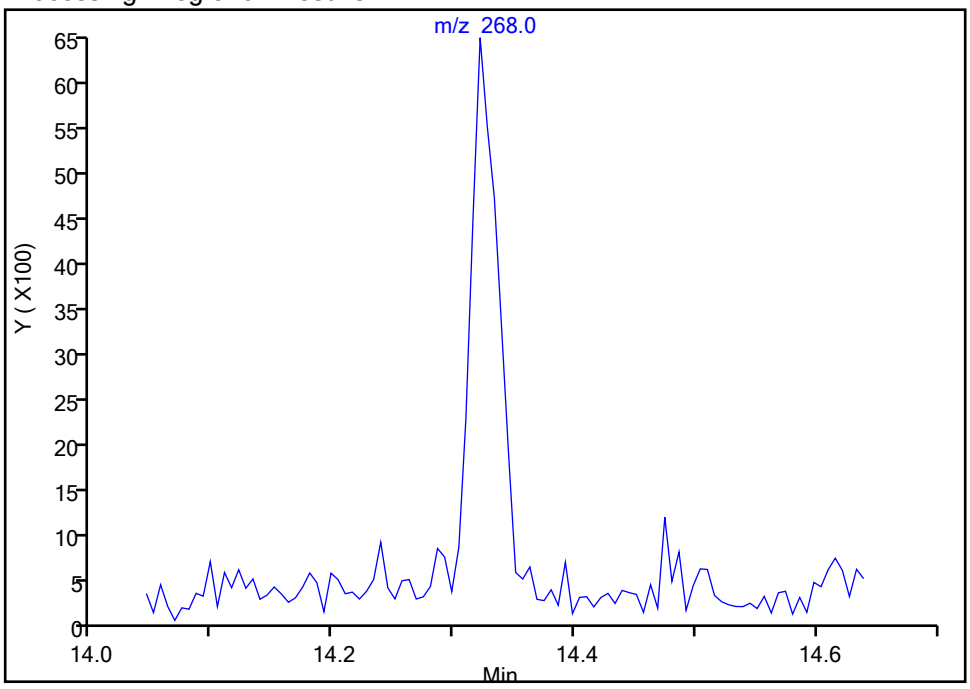
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

160 3-Methylcholanthrene, CAS: 56-49-5

Signal: 1

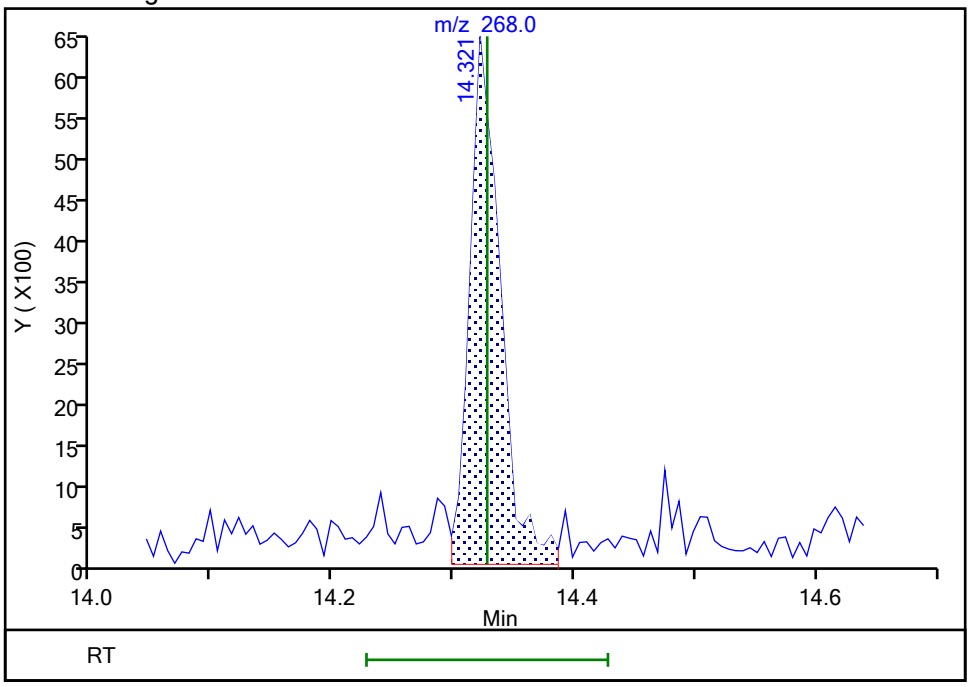
Not Detected
Expected RT: 14.33

Processing Integration Results



Manual Integration Results

RT: 14.32
Area: 11314
Amount: 0.105134
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:13:16 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

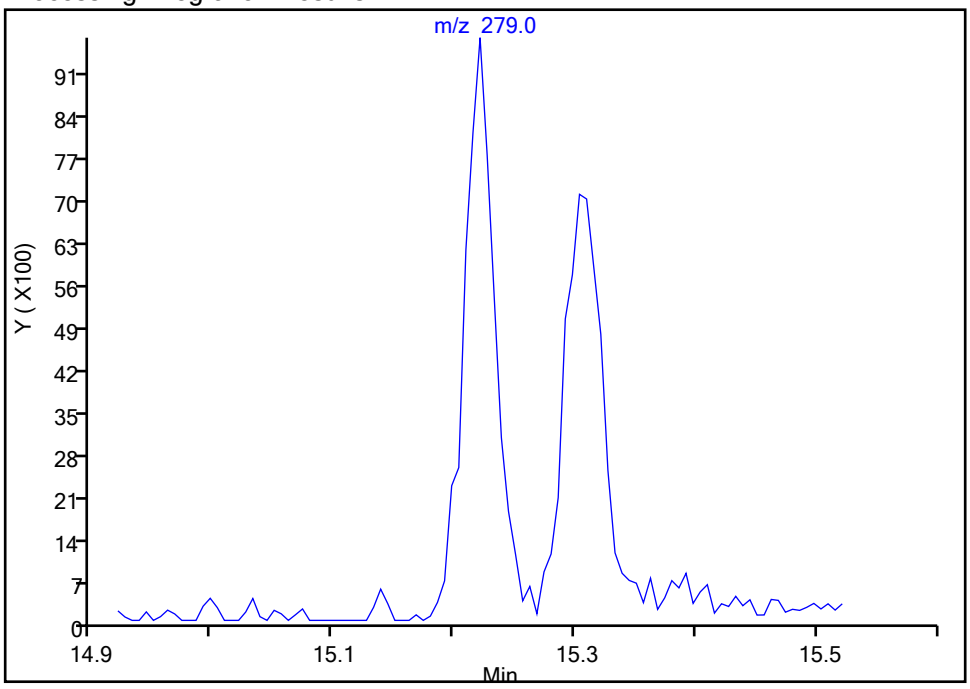
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

161 Dibenz[a,h]acridine, CAS: 226-36-8

Signal: 1

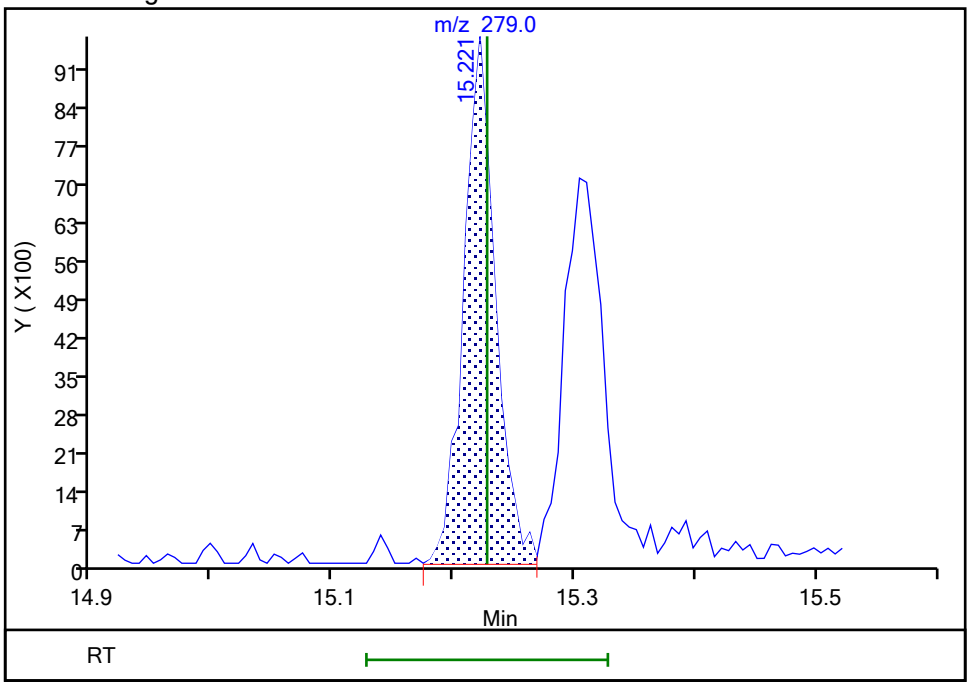
Not Detected
Expected RT: 15.23

Processing Integration Results



Manual Integration Results

RT: 15.22
Area: 17542
Amount: 0.107654
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:59:00 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

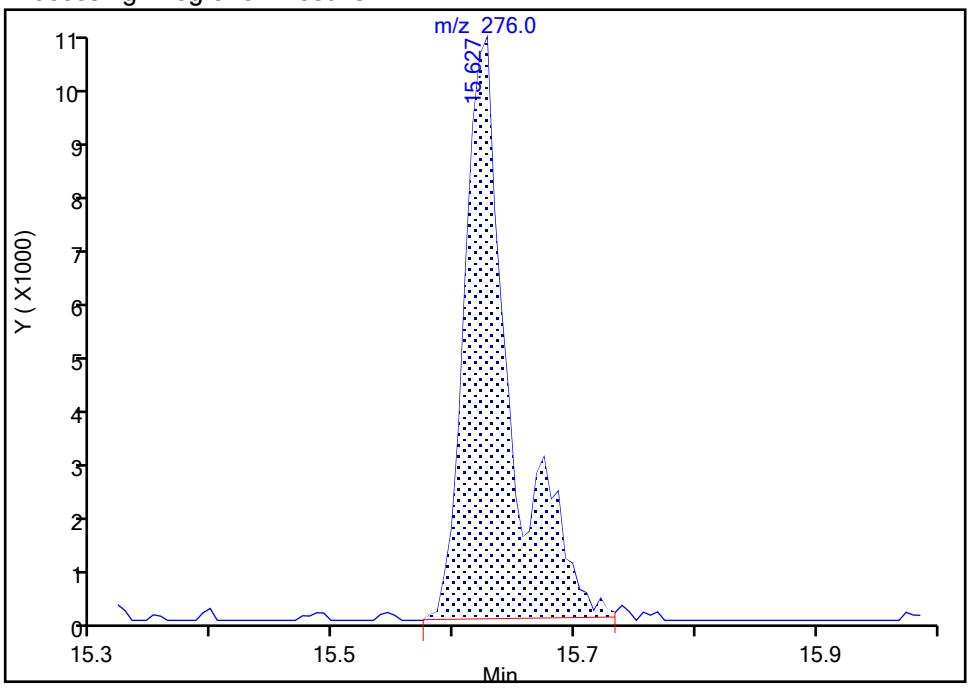
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

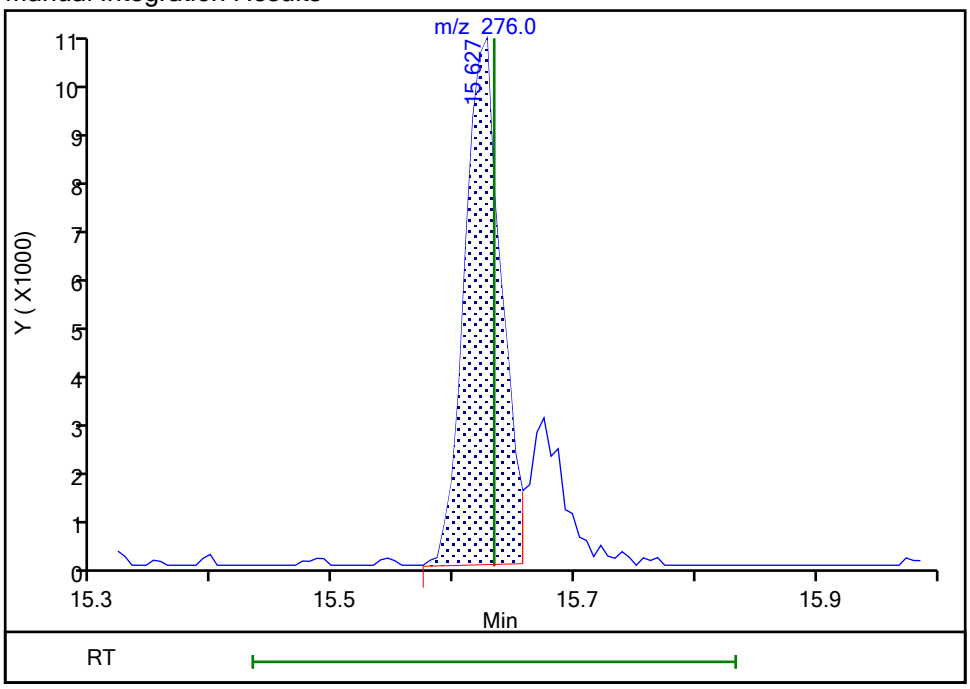
Processing Integration Results

RT: 15.63
Area: 27442
Amount: 0.137336
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 21877
Amount: 0.112622
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:59:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

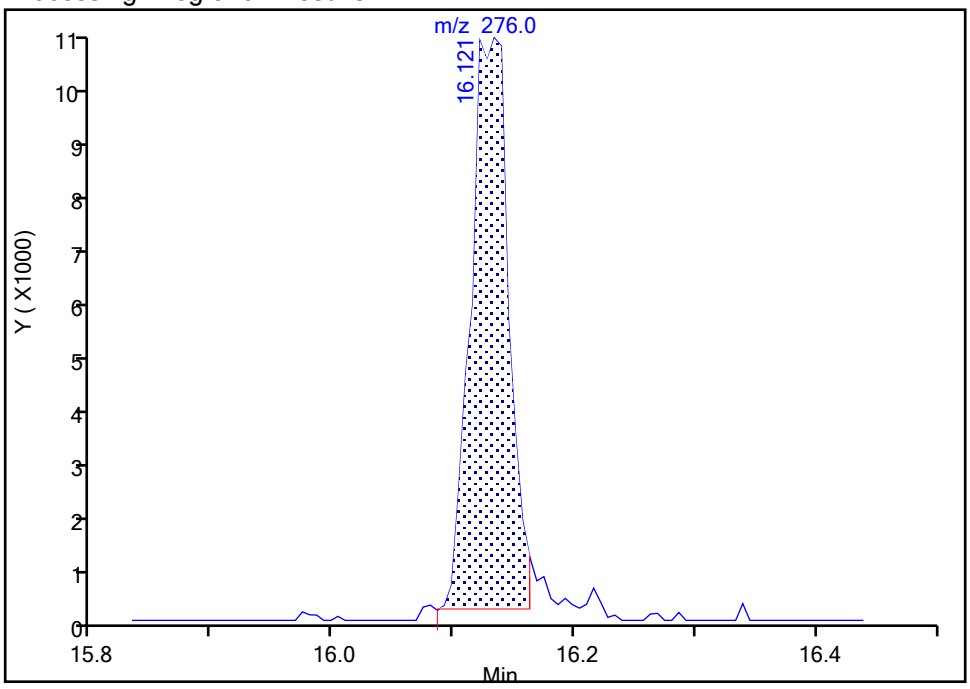
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

165 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

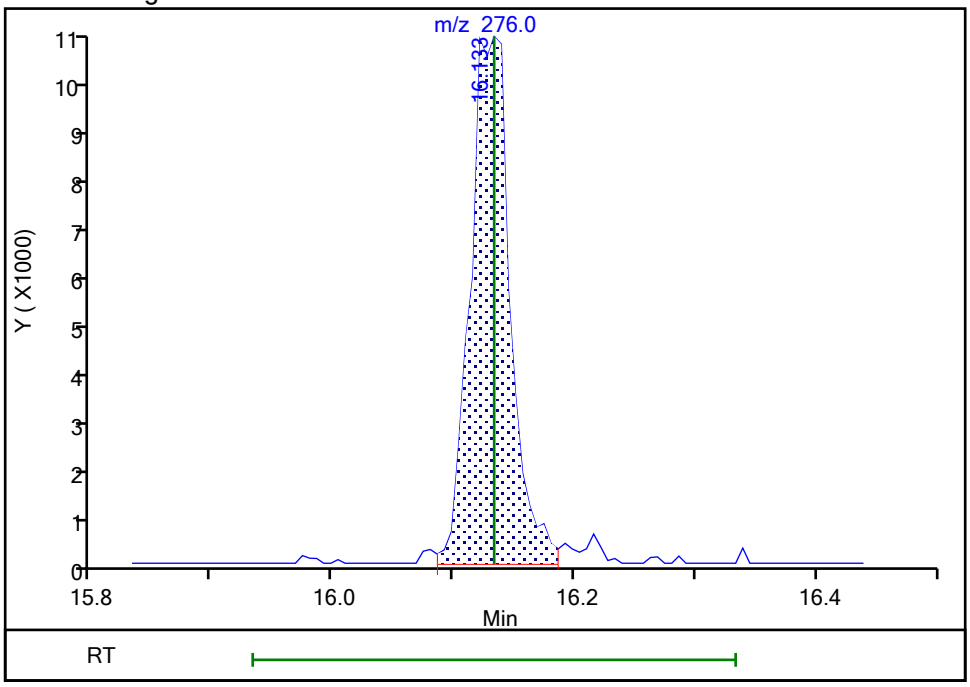
Processing Integration Results

RT: 16.12
Area: 21384
Amount: 0.110734
Amount Units: ug/ml



Manual Integration Results

RT: 16.13
Area: 23155
Amount: 0.118816
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:59:19 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

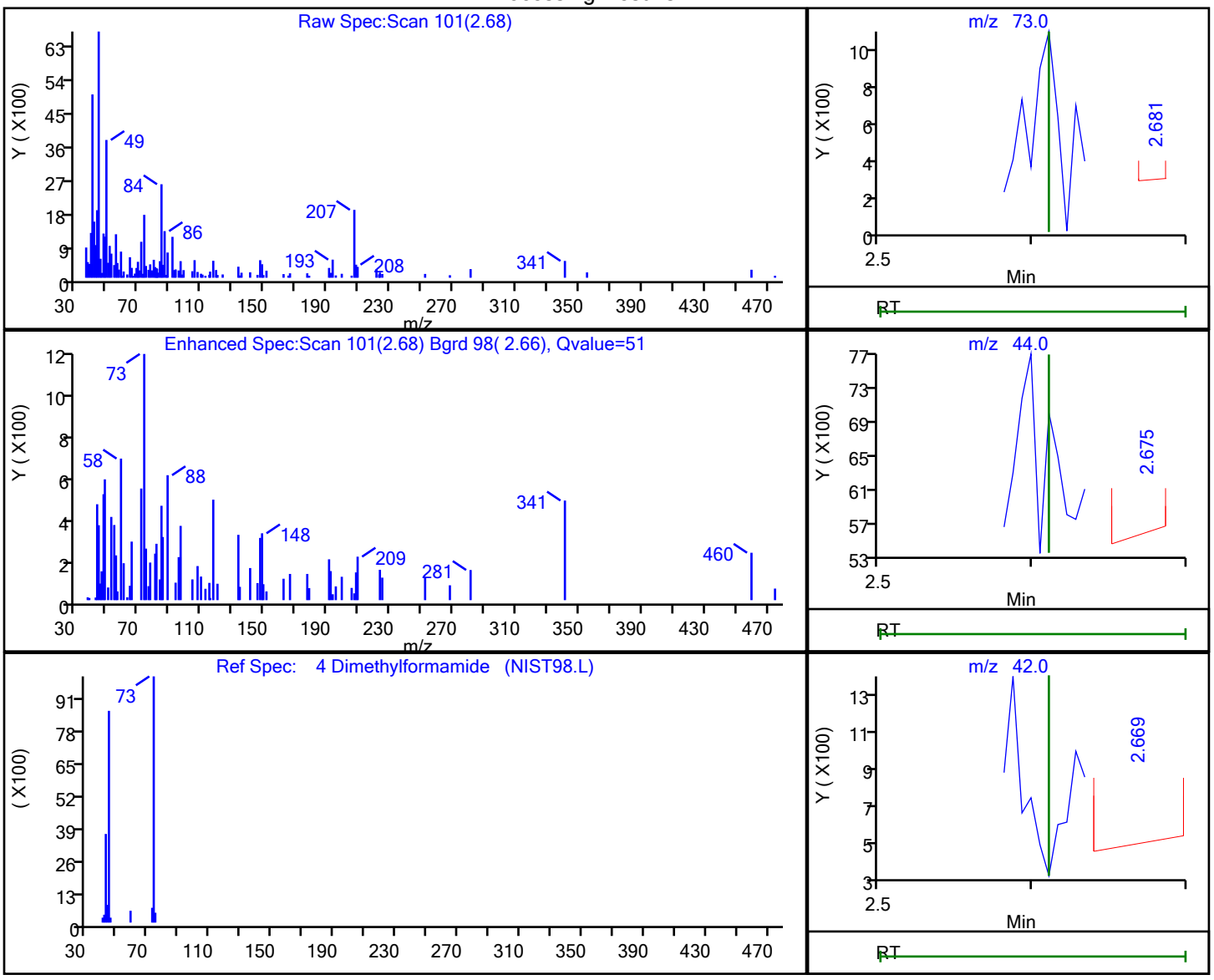
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

4 Dimethylformamide, CAS: 68-12-2

Processing Results



RT	Mass	Response	Amount
2.68	73.00	729	0.126467
2.68	44.00	2353	
2.67	42.00	1934	

Reviewer: SJ89, 24-Jun-2025 07:57:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

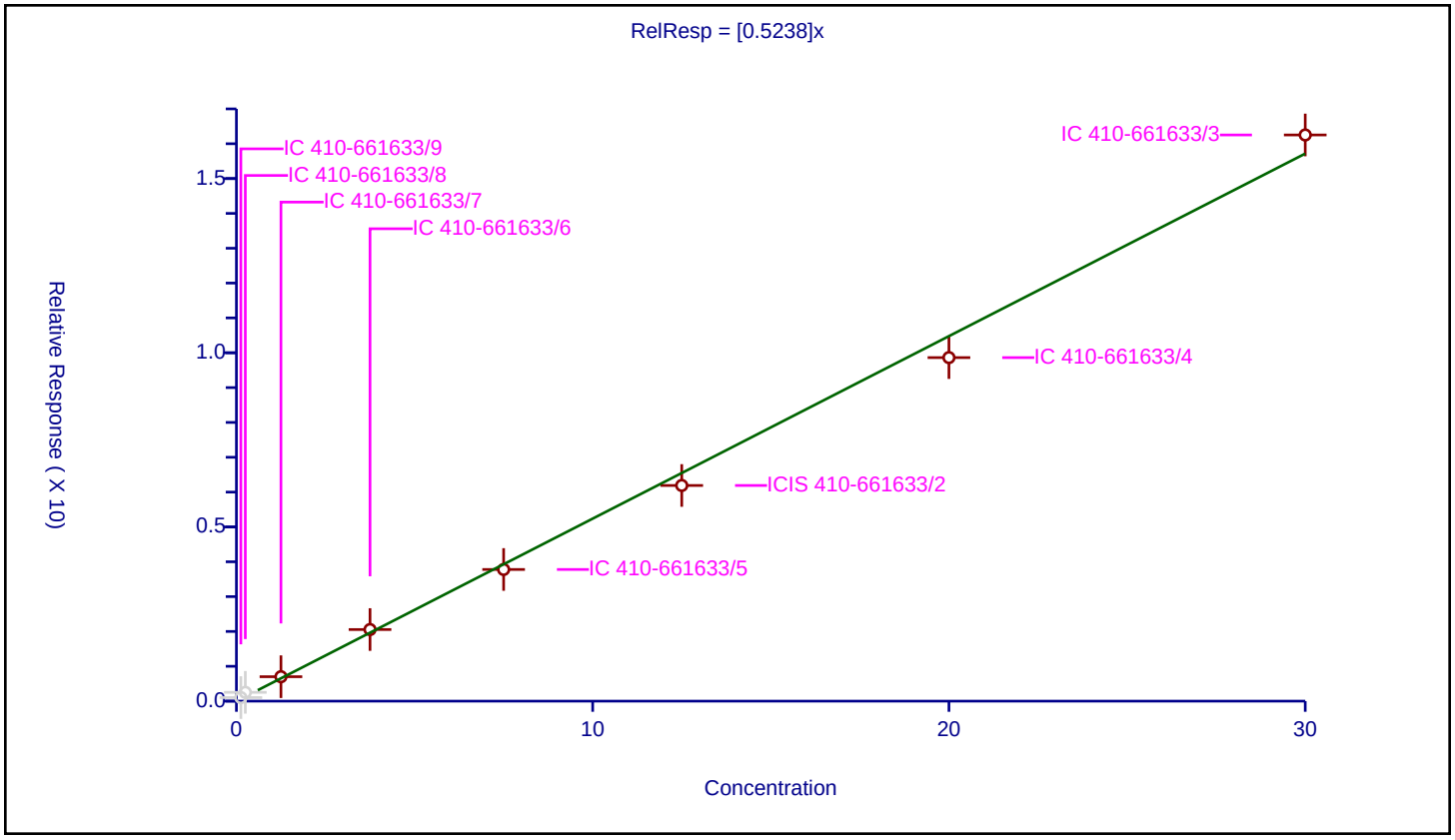
Curve Coefficients

Intercept:	0
Slope:	0.5238

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.102153	5.0	195246.0	0.817225	N
2	IC 410-661633/8	0.25	0.252695	5.0	178456.0	1.010781	N
3	IC 410-661633/7	1.25	0.701335	5.0	171031.0	0.561068	Y
4	IC 410-661633/6	3.75	2.055129	5.0	187959.0	0.548034	Y
5	IC 410-661633/5	7.5	3.779638	5.0	194766.0	0.503952	Y
6	ICIS 410-661633/2	12.5	6.190518	5.0	181463.0	0.495241	Y
7	IC 410-661633/4	20.0	9.86096	5.0	199008.0	0.493048	Y
8	IC 410-661633/3	30.0	16.251789	5.0	180262.0	0.541726	Y



Calibration / N-Nitrosodimethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

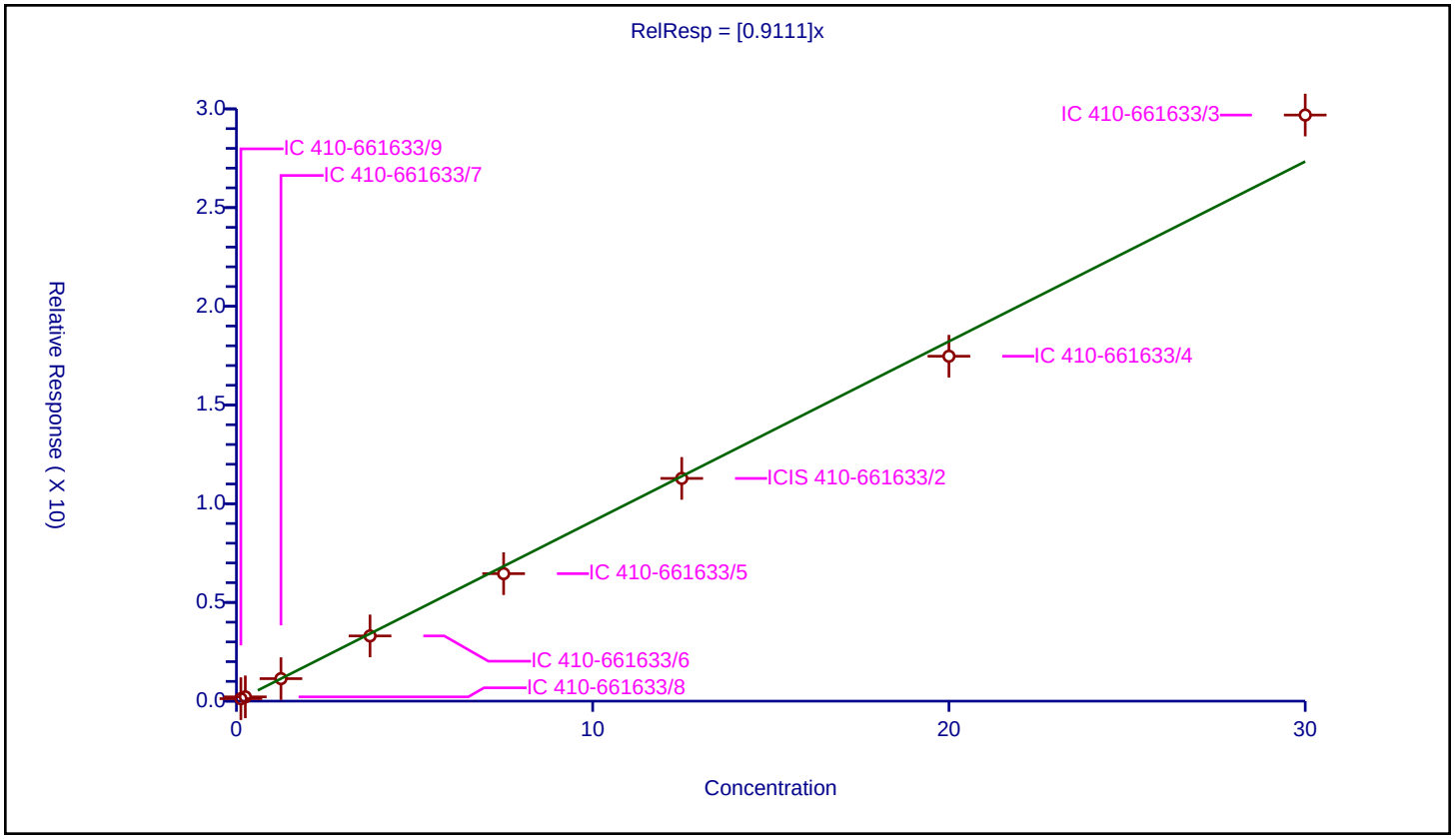
Curve Coefficients

Intercept:	0
Slope:	0.9111

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.125688	5.0	195246.0	1.005501	Y
2	IC 410-661633/8	0.25	0.21602	5.0	178456.0	0.864079	Y
3	IC 410-661633/7	1.25	1.139589	5.0	171031.0	0.911671	Y
4	IC 410-661633/6	3.75	3.303646	5.0	187959.0	0.880972	Y
5	IC 410-661633/5	7.5	6.457159	5.0	194766.0	0.860955	Y
6	ICIS 410-661633/2	12.5	11.282355	5.0	181463.0	0.902588	Y
7	IC 410-661633/4	20.0	17.471509	5.0	199008.0	0.873575	Y
8	IC 410-661633/3	30.0	29.687677	5.0	180262.0	0.989589	Y



7/30/2025
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Calibration / Pyridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

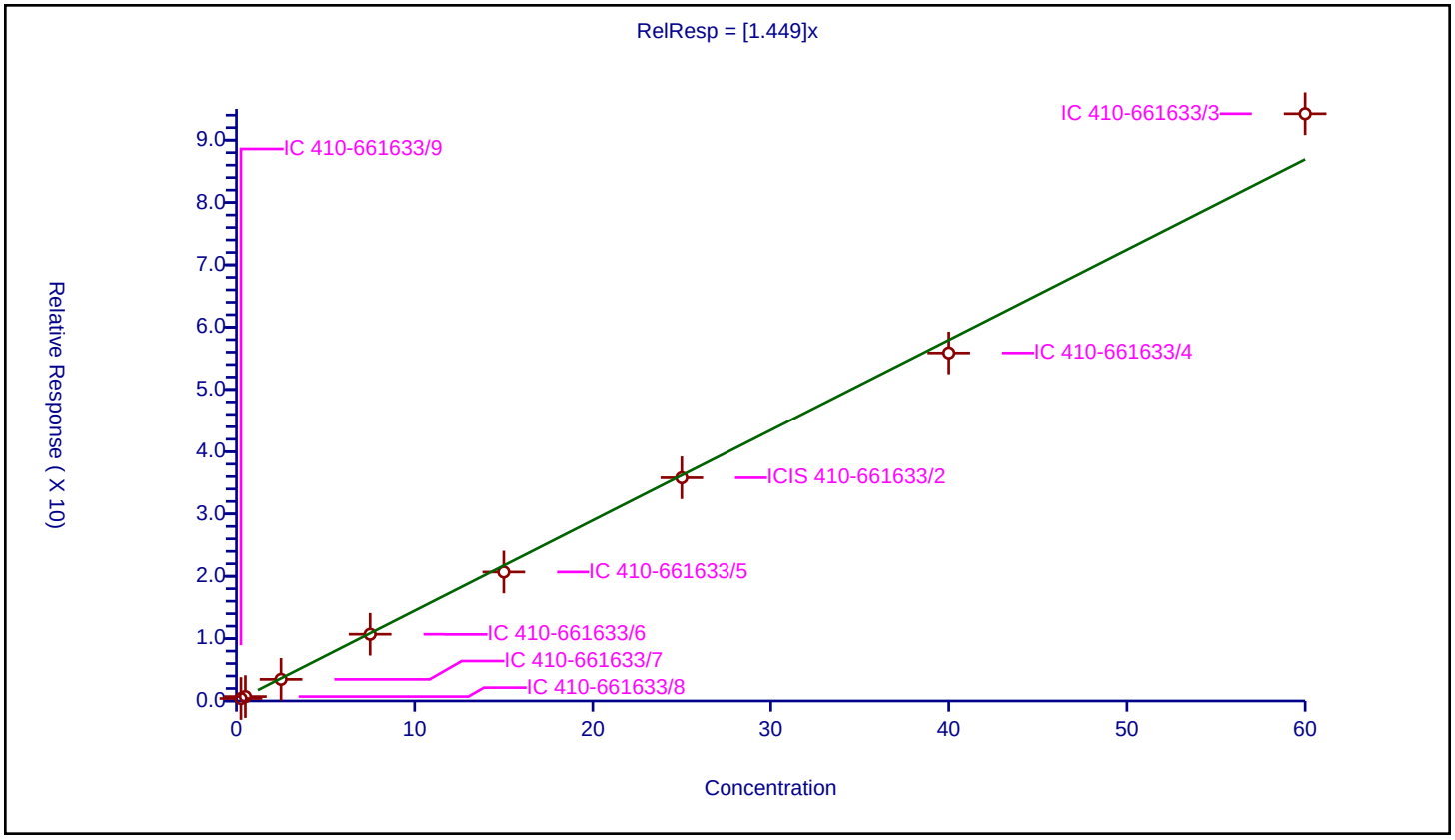
Curve Coefficients

Intercept:	0
Slope:	1.449

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.397166	5.0	195246.0	1.588663	Y
2	IC 410-661633/8	0.5	0.704684	5.0	178456.0	1.409367	Y
3	IC 410-661633/7	2.5	3.462793	5.0	171031.0	1.385117	Y
4	IC 410-661633/6	7.5	10.7055	5.0	187959.0	1.4274	Y
5	IC 410-661633/5	15.0	20.684745	5.0	194766.0	1.378983	Y
6	ICIS 410-661633/2	25.0	35.815648	5.0	181463.0	1.432626	Y
7	IC 410-661633/4	40.0	55.866171	5.0	199008.0	1.396654	Y
8	IC 410-661633/3	60.0	94.227486	5.0	180262.0	1.570458	Y



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Calibration / Dimethylformamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

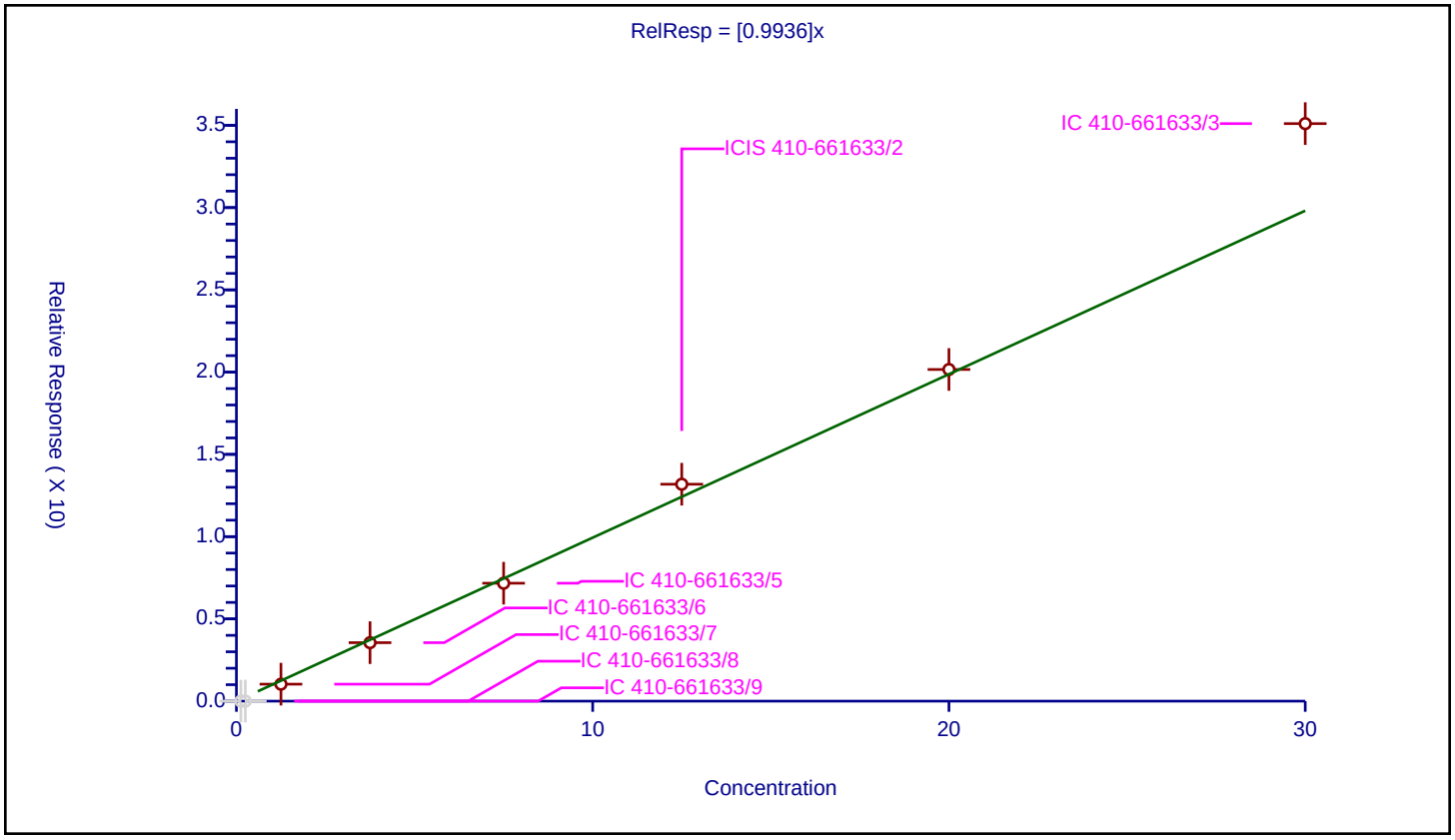
Curve Coefficients

Intercept:	0
Slope:	0.9936

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.0	5.0	195246.0	0.0	N
2	IC 410-661633/8	0.25	0.0	5.0	178456.0	0.0	N
3	IC 410-661633/7	1.25	1.031538	5.0	171031.0	0.825231	Y
4	IC 410-661633/6	3.75	3.554286	5.0	187959.0	0.94781	Y
5	IC 410-661633/5	7.5	7.16814	5.0	194766.0	0.955752	Y
6	ICIS 410-661633/2	12.5	13.186132	5.0	181463.0	1.054891	Y
7	IC 410-661633/4	20.0	20.160345	5.0	199008.0	1.008017	Y
8	IC 410-661633/3	30.0	35.104515	5.0	180262.0	1.17015	Y



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Calibration / 2-Picoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

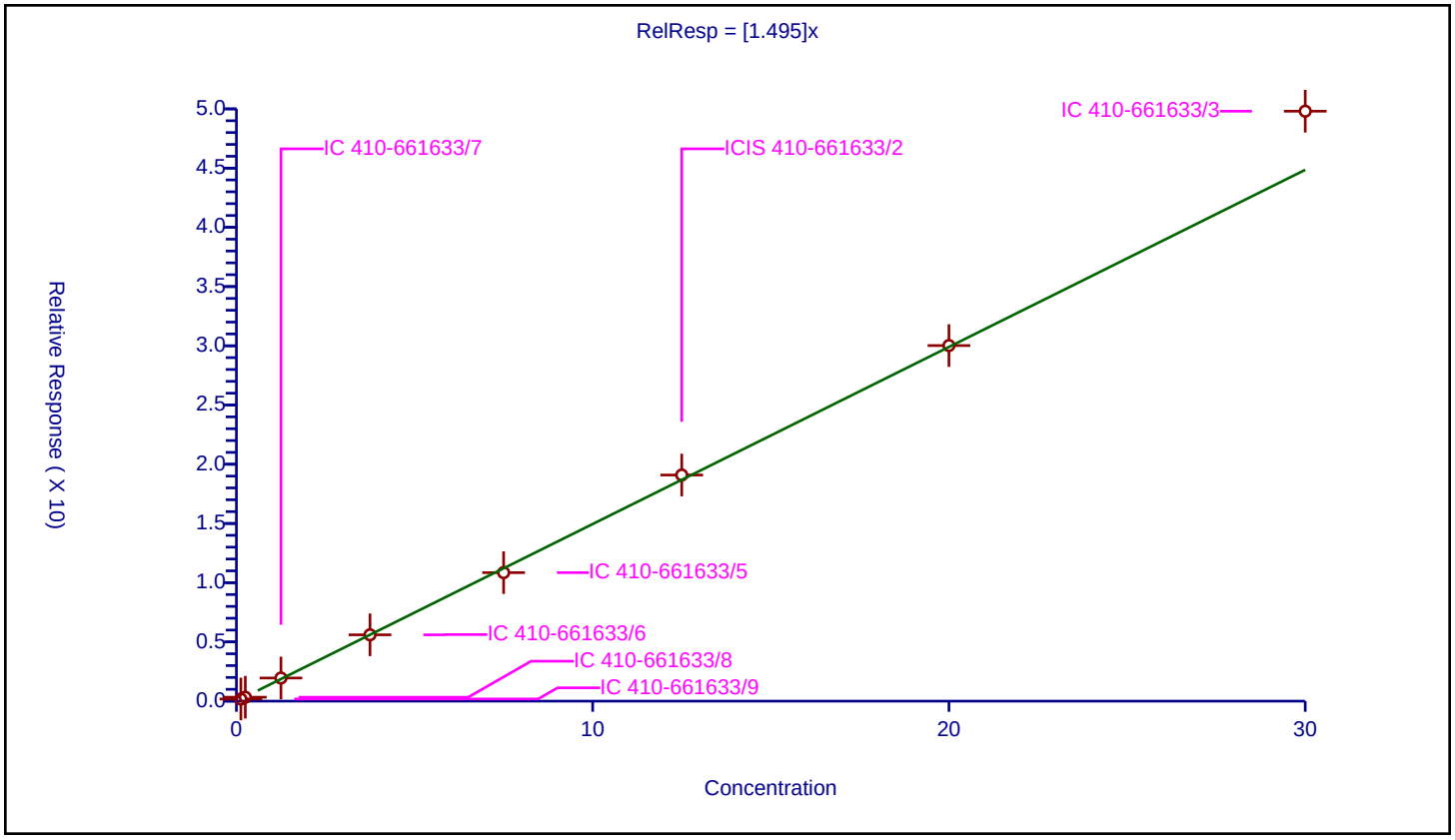
Curve Coefficients

Intercept:	0
Slope:	1.495

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.180695	5.0	195246.0	1.445561	Y
2	IC 410-661633/8	0.25	0.330978	5.0	178456.0	1.323912	Y
3	IC 410-661633/7	1.25	1.953301	5.0	171031.0	1.562641	Y
4	IC 410-661633/6	3.75	5.601115	5.0	187959.0	1.493631	Y
5	IC 410-661633/5	7.5	10.850097	5.0	194766.0	1.44668	Y
6	ICIS 410-661633/2	12.5	19.08896	5.0	181463.0	1.527117	Y
7	IC 410-661633/4	20.0	30.020351	5.0	199008.0	1.501018	Y
8	IC 410-661633/3	30.0	49.80459	5.0	180262.0	1.660153	Y



7/30/2025
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Calibration / N-Nitrosomethylethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

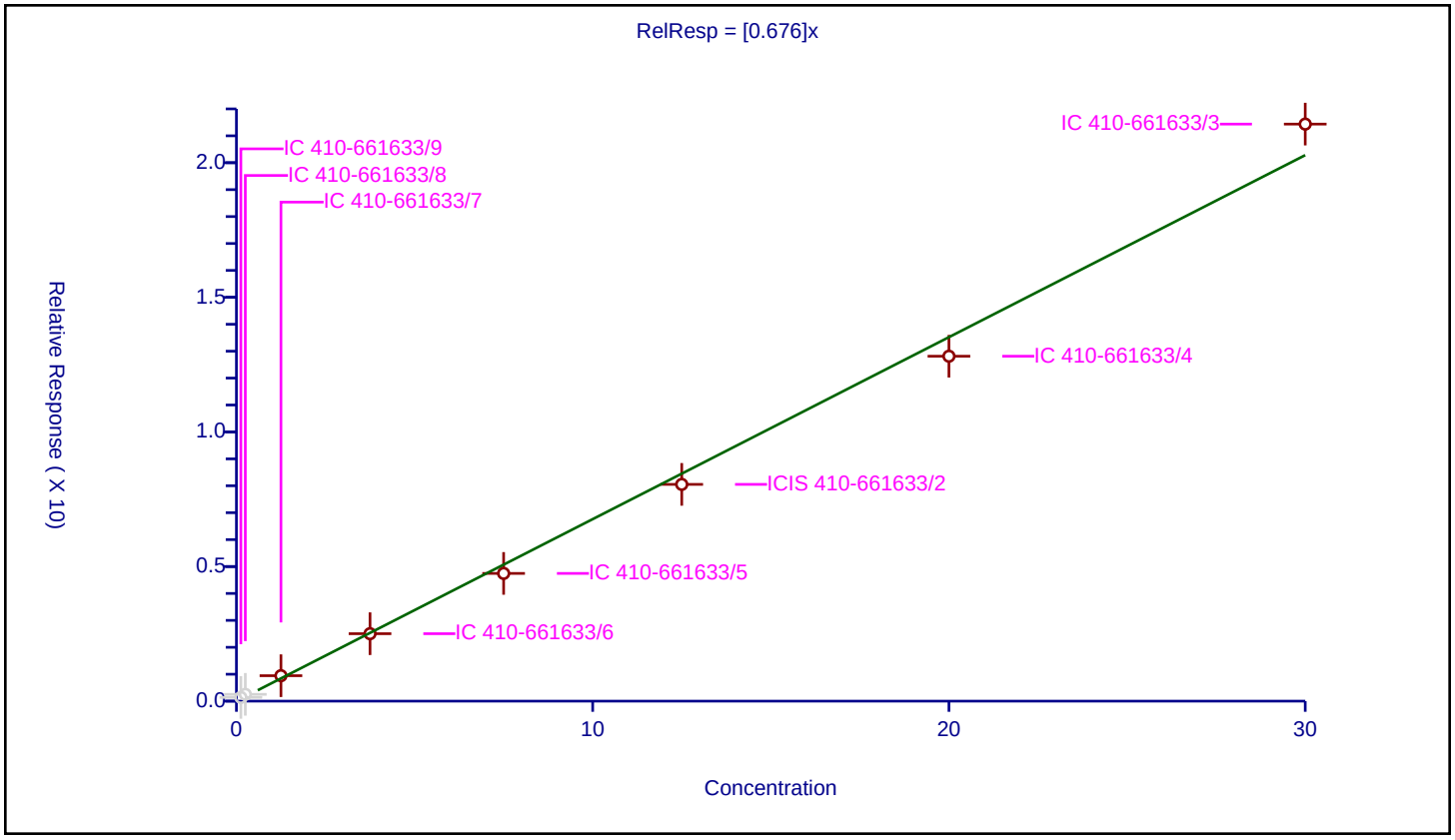
Curve Coefficients

Intercept:	0
Slope:	0.676

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.138492	5.0	195246.0	1.107936	N
2	IC 410-661633/8	0.25	0.252835	5.0	178456.0	1.011342	N
3	IC 410-661633/7	1.25	0.945209	5.0	171031.0	0.756167	Y
4	IC 410-661633/6	3.75	2.505919	5.0	187959.0	0.668245	Y
5	IC 410-661633/5	7.5	4.744334	5.0	194766.0	0.632578	Y
6	ICIS 410-661633/2	12.5	8.051476	5.0	181463.0	0.644118	Y
7	IC 410-661633/4	20.0	12.812801	5.0	199008.0	0.64064	Y
8	IC 410-661633/3	30.0	21.435078	5.0	180262.0	0.714503	Y



7/30/2025
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Calibration / Methyl methanesulfonate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

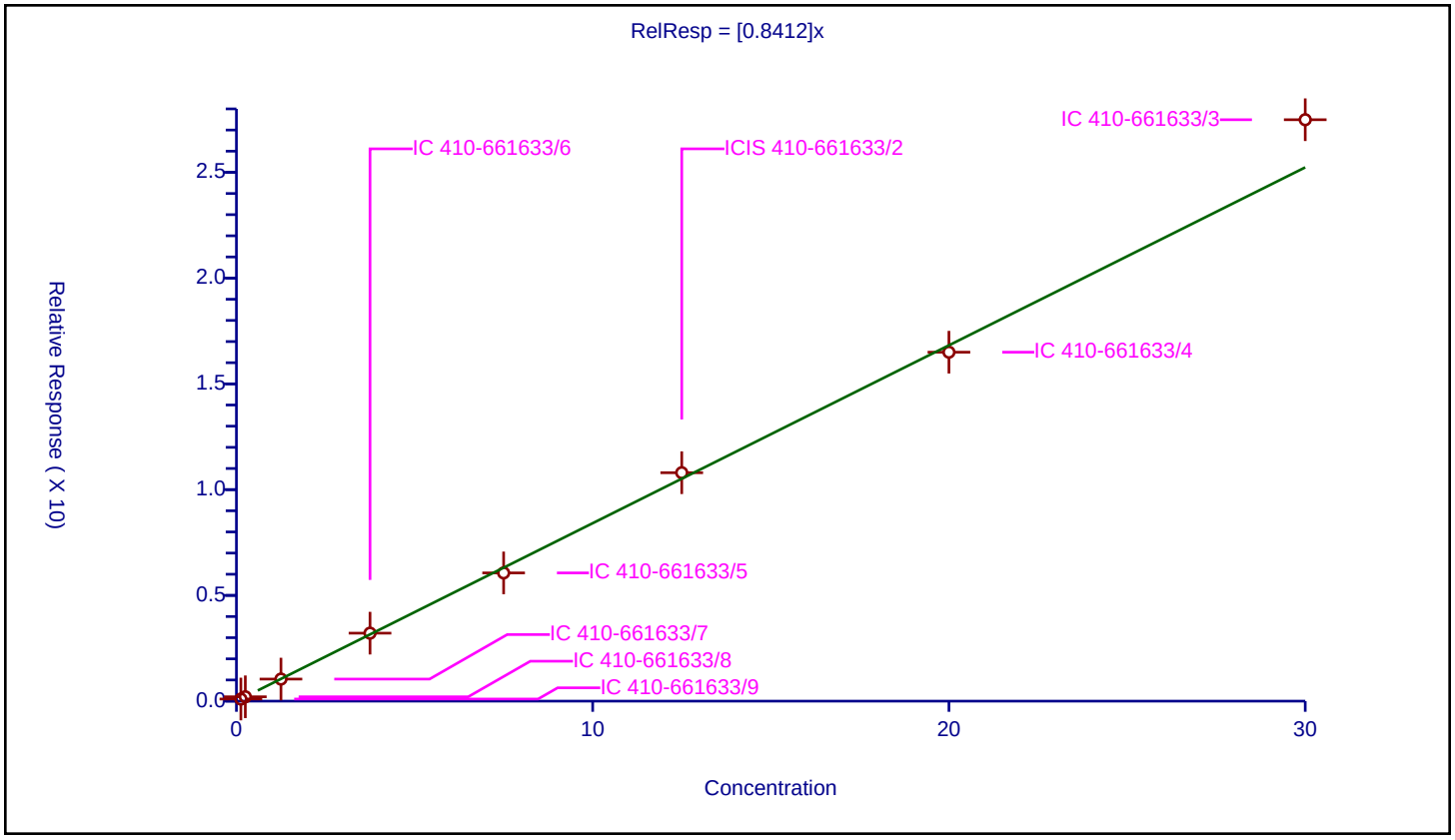
Curve Coefficients

Intercept:	0
Slope:	0.8412

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.100361	5.0	195246.0	0.802885	Y
2	IC 410-661633/8	0.25	0.205457	5.0	178456.0	0.821827	Y
3	IC 410-661633/7	1.25	1.042881	5.0	171031.0	0.834305	Y
4	IC 410-661633/6	3.75	3.213467	5.0	187959.0	0.856924	Y
5	IC 410-661633/5	7.5	6.062531	5.0	194766.0	0.808338	Y
6	ICIS 410-661633/2	12.5	10.799254	5.0	181463.0	0.86394	Y
7	IC 410-661633/4	20.0	16.497327	5.0	199008.0	0.824866	Y
8	IC 410-661633/3	30.0	27.48713	5.0	180262.0	0.916238	Y



7/30/2025
1:47:08 PM

Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

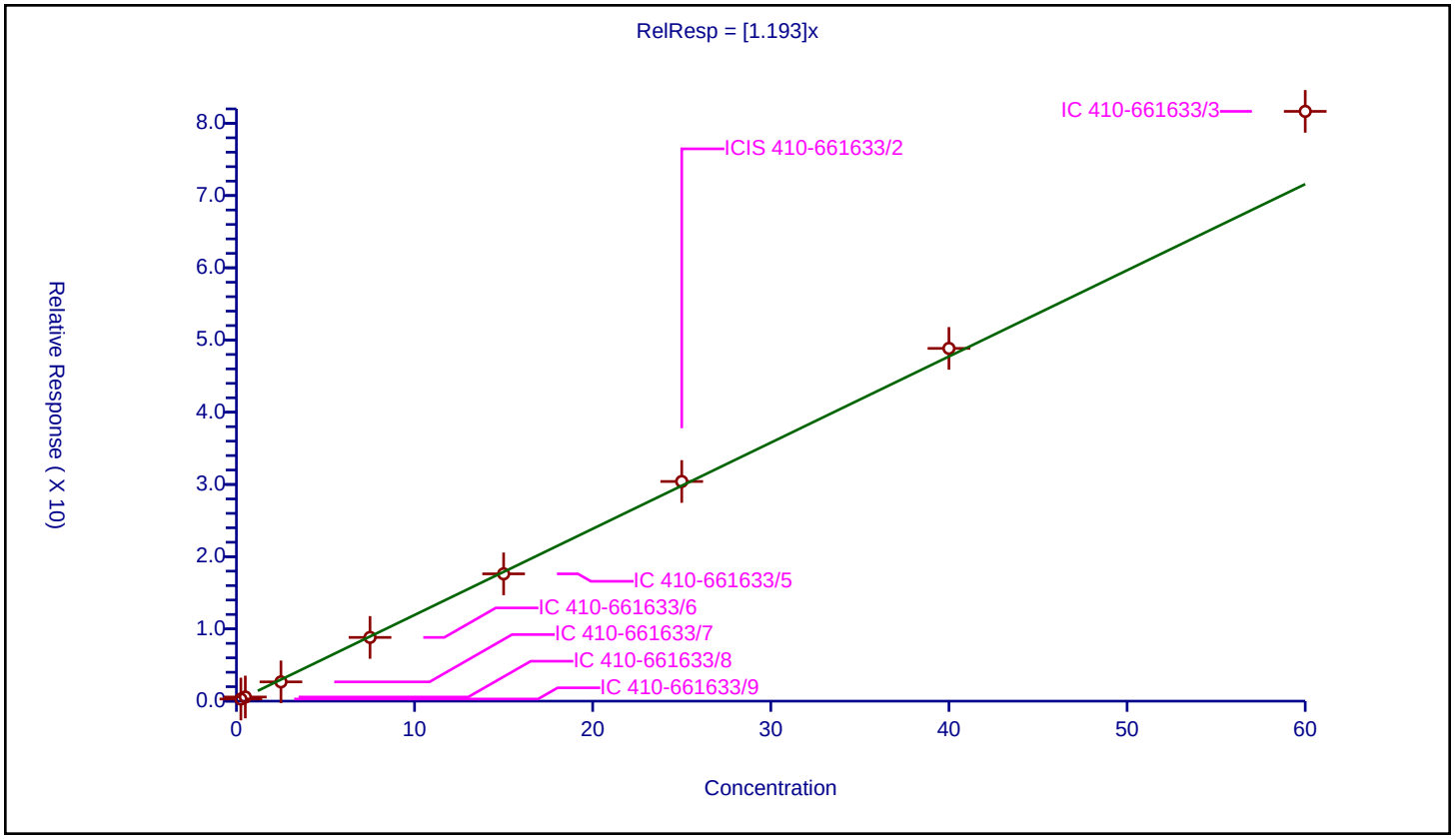
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.29596	5.0	195246.0	1.18384	Y
2	IC 410-661633/8	0.5	0.571682	5.0	178456.0	1.143363	Y
3	IC 410-661633/7	2.5	2.667411	5.0	171031.0	1.066964	Y
4	IC 410-661633/6	7.5	8.822722	5.0	187959.0	1.176363	Y
5	IC 410-661633/5	15.0	17.625997	5.0	194766.0	1.175066	Y
6	ICIS 410-661633/2	25.0	30.414602	5.0	181463.0	1.216584	Y
7	IC 410-661633/4	40.0	48.841931	5.0	199008.0	1.221048	Y
8	IC 410-661633/3	60.0	81.656977	5.0	180262.0	1.36095	Y



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Calibration / N-Nitrosodiethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

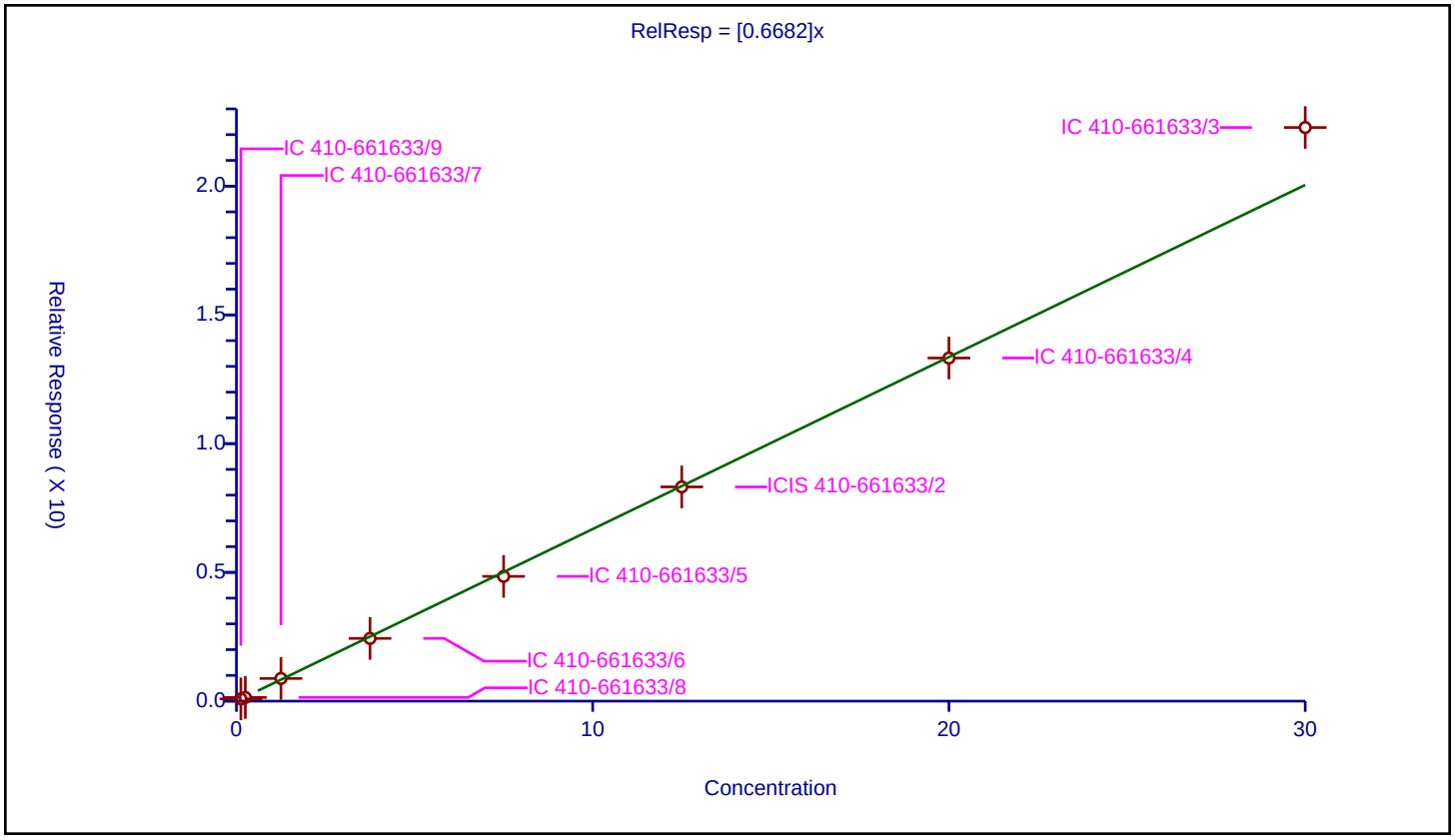
Curve Coefficients

Intercept:	0
Slope:	0.6682

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.087428	5.0	195246.0	0.699425	Y
2	IC 410-661633/8	0.25	0.14292	5.0	178456.0	0.571682	Y
3	IC 410-661633/7	1.25	0.880776	5.0	171031.0	0.704621	Y
4	IC 410-661633/6	3.75	2.43593	5.0	187959.0	0.649581	Y
5	IC 410-661633/5	7.5	4.845173	5.0	194766.0	0.646023	Y
6	ICIS 410-661633/2	12.5	8.319547	5.0	181463.0	0.665564	Y
7	IC 410-661633/4	20.0	13.324339	5.0	199008.0	0.666217	Y
8	IC 410-661633/3	30.0	22.276908	5.0	180262.0	0.742564	Y



Calibration / Ethyl methanesulfonate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

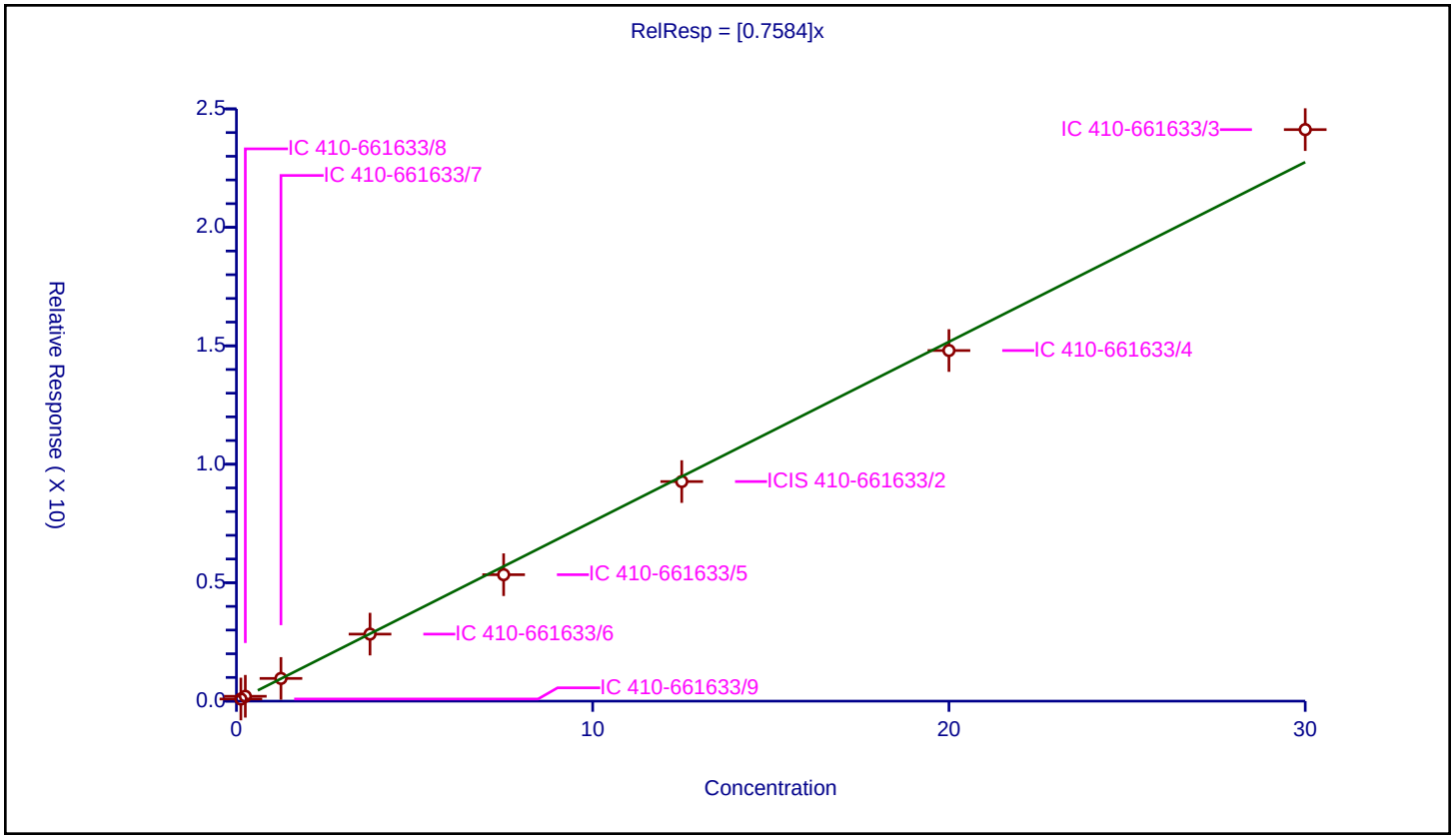
Curve Coefficients

Intercept:	0
Slope:	0.7584

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.091039	5.0	195246.0	0.728312	Y
2	IC 410-661633/8	0.25	0.205037	5.0	178456.0	0.820146	Y
3	IC 410-661633/7	1.25	0.958715	5.0	171031.0	0.766972	Y
4	IC 410-661633/6	3.75	2.829261	5.0	187959.0	0.75447	Y
5	IC 410-661633/5	7.5	5.337764	5.0	194766.0	0.711702	Y
6	ICIS 410-661633/2	12.5	9.269521	5.0	181463.0	0.741562	Y
7	IC 410-661633/4	20.0	14.801013	5.0	199008.0	0.740051	Y
8	IC 410-661633/3	30.0	24.125689	5.0	180262.0	0.80419	Y



Calibration / Benzaldehyde

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

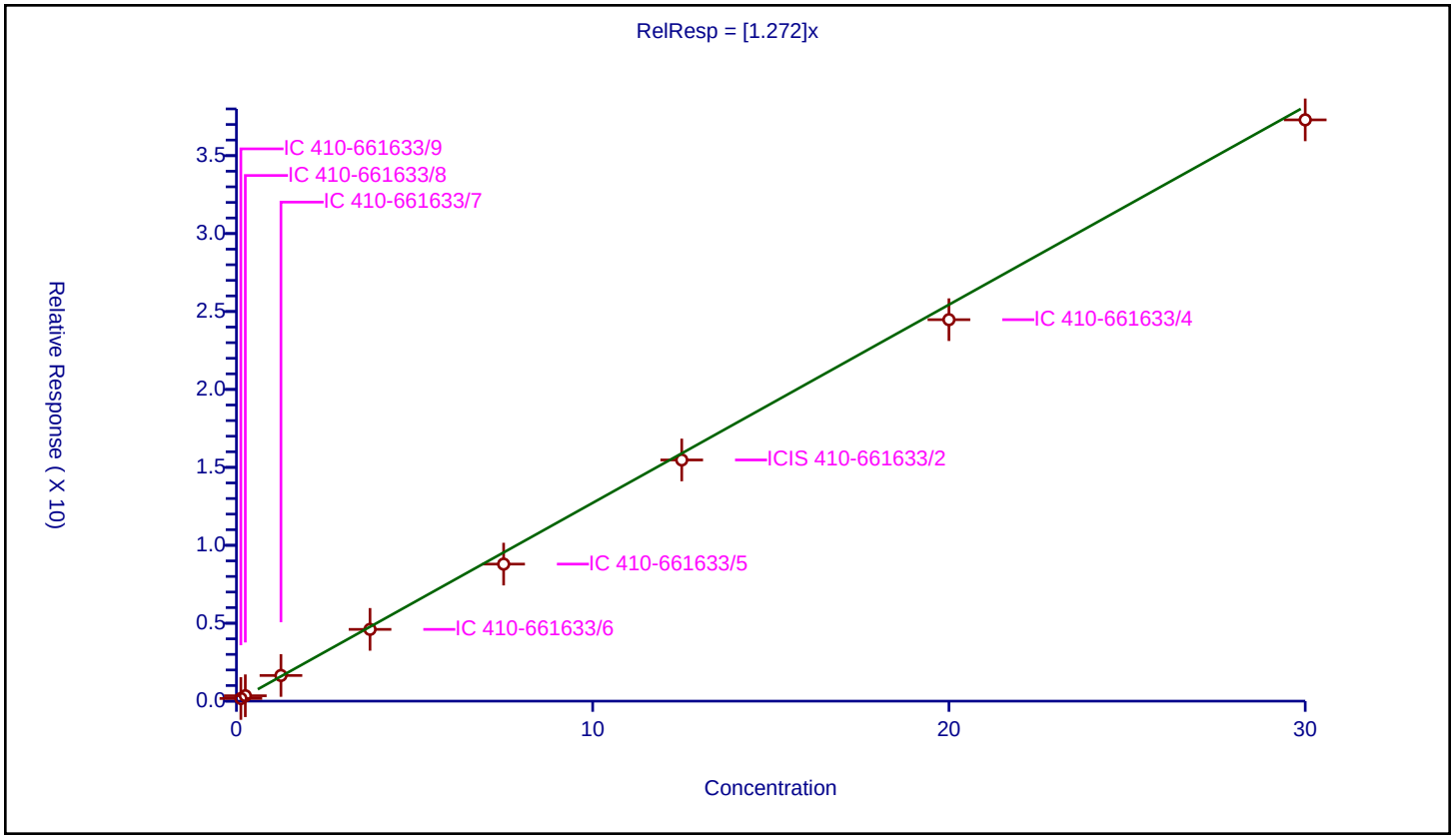
Curve Coefficients

Intercept:	0
Slope:	1.272

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.170733	5.0	195246.0	1.365867	Y
2	IC 410-661633/8	0.25	0.346836	5.0	178456.0	1.387345	Y
3	IC 410-661633/7	1.25	1.645725	5.0	171031.0	1.31658	Y
4	IC 410-661633/6	3.75	4.605047	5.0	187959.0	1.228012	Y
5	IC 410-661633/5	7.5	8.793732	5.0	194766.0	1.172498	Y
6	ICIS 410-661633/2	12.5	15.474615	5.0	181463.0	1.237969	Y
7	IC 410-661633/4	20.0	24.475599	5.0	199008.0	1.22378	Y
8	IC 410-661633/3	30.0	37.296186	5.0	180262.0	1.243206	Y



Calibration / Phenol-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

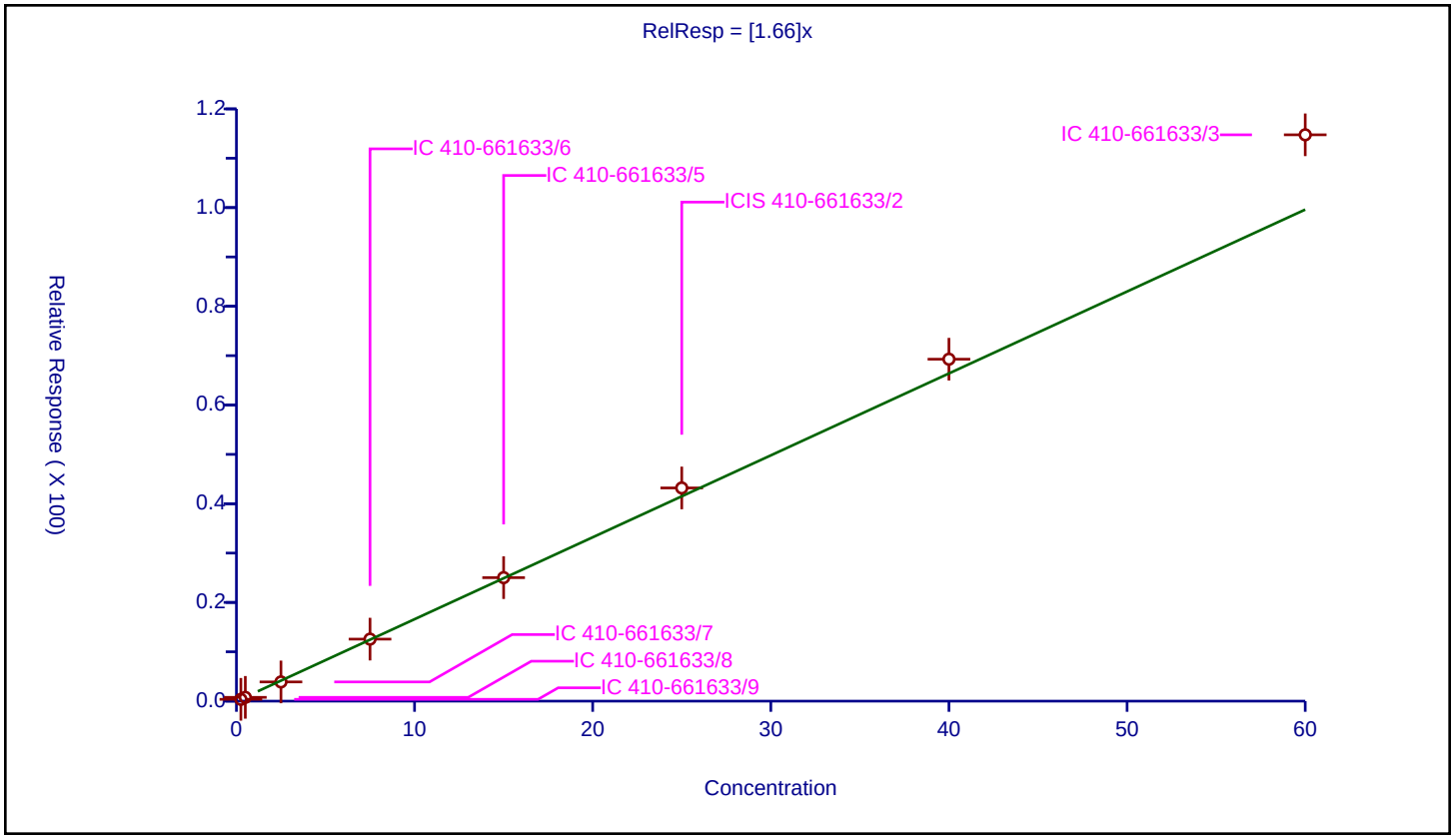
Curve Coefficients

Intercept:	0
Slope:	1.66

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.3681	5.0	195246.0	1.472399	Y
2	IC 410-661633/8	0.5	0.766912	5.0	178456.0	1.533823	Y
3	IC 410-661633/7	2.5	3.893505	5.0	171031.0	1.557402	Y
4	IC 410-661633/6	7.5	12.566757	5.0	187959.0	1.675568	Y
5	IC 410-661633/5	15.0	25.02177	5.0	194766.0	1.668118	Y
6	ICIS 410-661633/2	25.0	43.195555	5.0	181463.0	1.727822	Y
7	IC 410-661633/4	40.0	69.284777	5.0	199008.0	1.732119	Y
8	IC 410-661633/3	60.0	114.74673	5.0	180262.0	1.912445	Y



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Calibration / Phenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

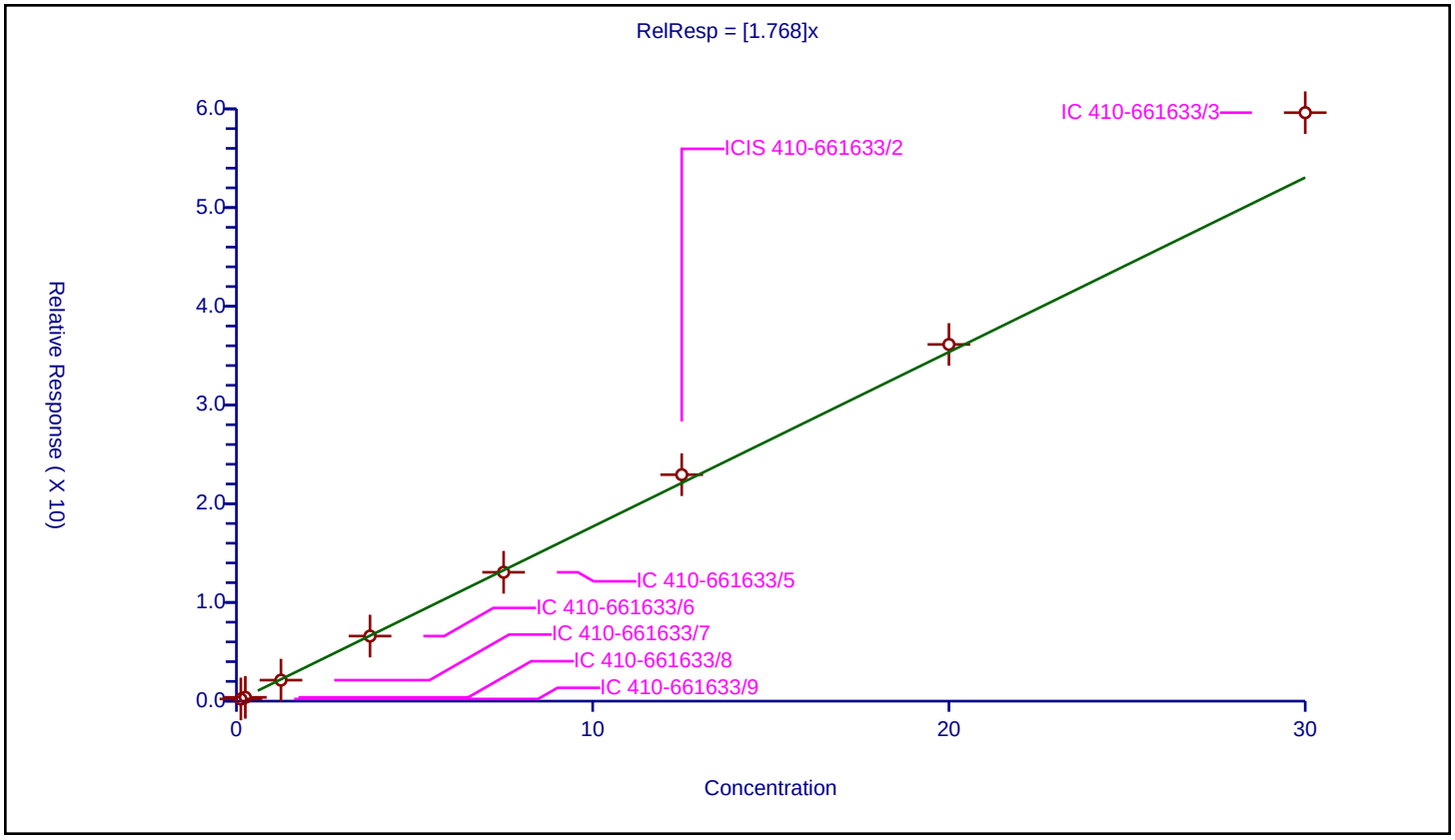
Curve Coefficients

Intercept:	0
Slope:	1.768

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.220645	5.0	195246.0	1.765158	Y
2	IC 410-661633/8	0.25	0.387715	5.0	178456.0	1.550858	Y
3	IC 410-661633/7	1.25	2.127275	5.0	171031.0	1.70182	Y
4	IC 410-661633/6	3.75	6.592049	5.0	187959.0	1.75788	Y
5	IC 410-661633/5	7.5	13.055769	5.0	194766.0	1.740769	Y
6	ICIS 410-661633/2	12.5	22.943162	5.0	181463.0	1.835453	Y
7	IC 410-661633/4	20.0	36.136587	5.0	199008.0	1.806829	Y
8	IC 410-661633/3	30.0	59.617806	5.0	180262.0	1.98726	Y



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Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

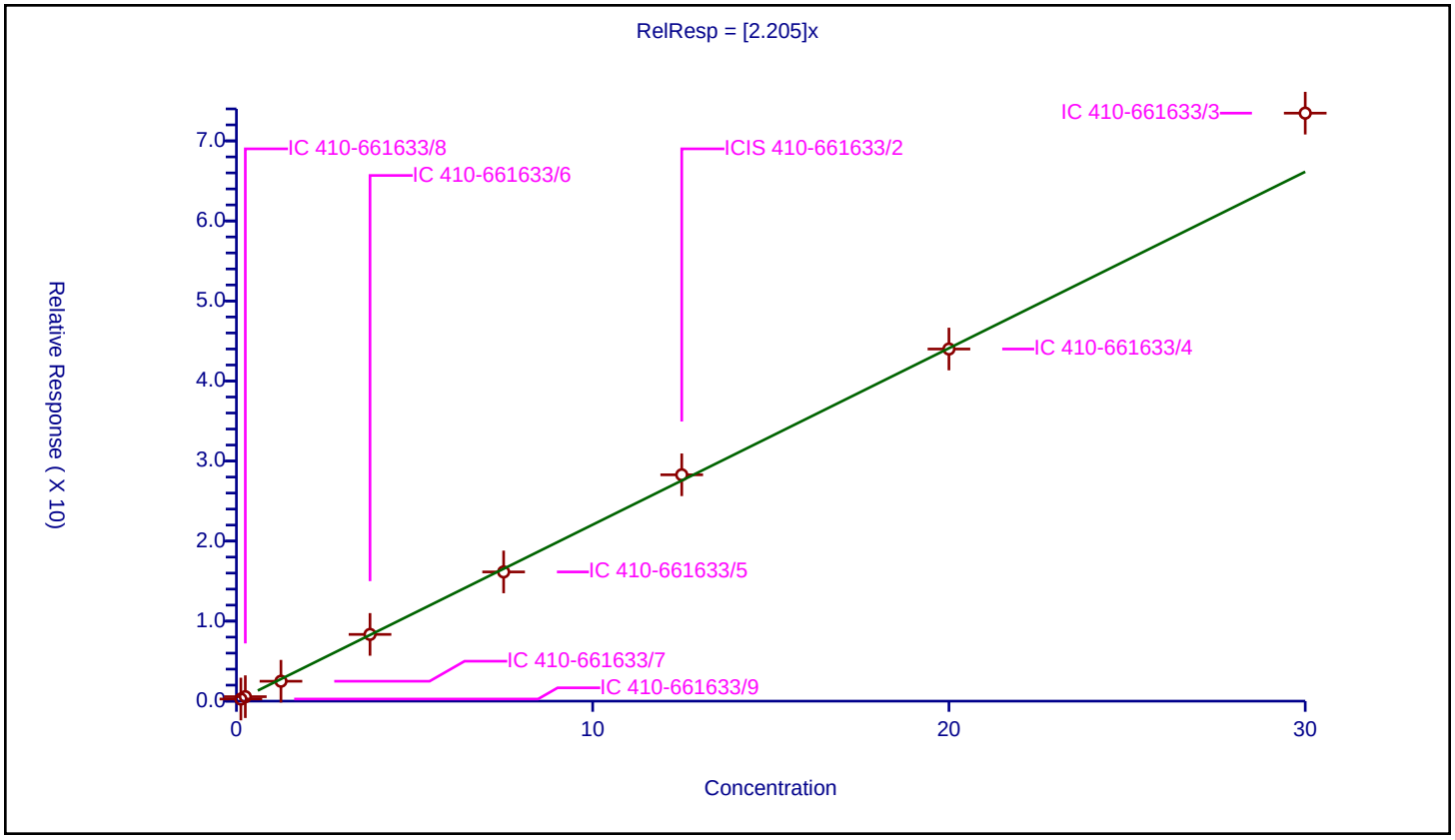
Curve Coefficients

Intercept:	0
Slope:	2.205

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.265819	5.0	195246.0	2.126548	Y
2	IC 410-661633/8	0.25	0.558793	5.0	178456.0	2.235173	Y
3	IC 410-661633/7	1.25	2.486099	5.0	171031.0	1.988879	Y
4	IC 410-661633/6	3.75	8.338813	5.0	187959.0	2.223684	Y
5	IC 410-661633/5	7.5	16.146555	5.0	194766.0	2.152874	Y
6	ICIS 410-661633/2	12.5	28.280779	5.0	181463.0	2.262462	Y
7	IC 410-661633/4	20.0	43.996648	5.0	199008.0	2.199832	Y
8	IC 410-661633/3	30.0	73.465927	5.0	180262.0	2.448864	Y



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Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

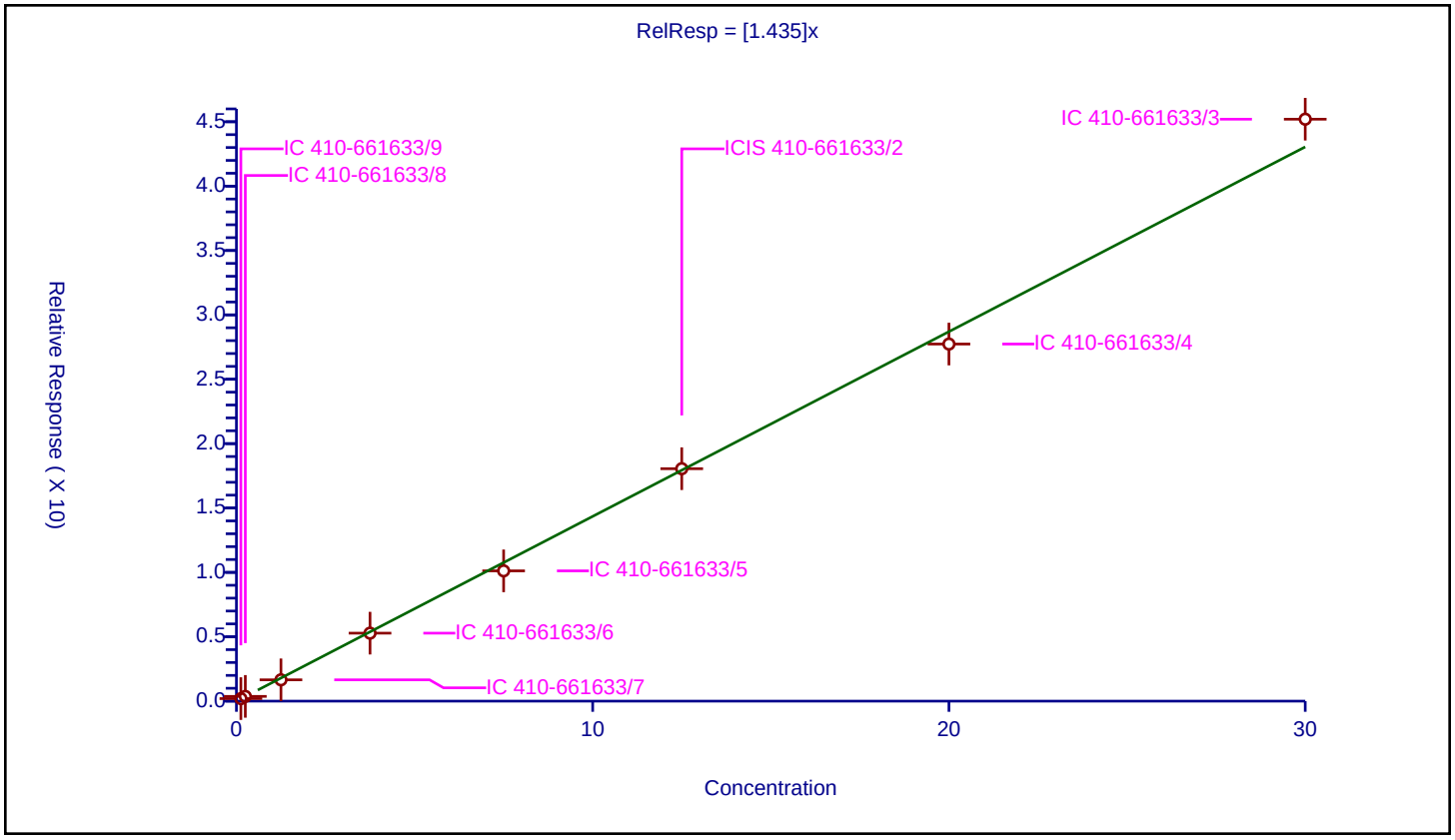
Curve Coefficients

Intercept:	0
Slope:	1.435

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.198032	5.0	195246.0	1.584258	Y
2	IC 410-661633/8	0.25	0.368971	5.0	178456.0	1.475882	Y
3	IC 410-661633/7	1.25	1.655489	5.0	171031.0	1.324391	Y
4	IC 410-661633/6	3.75	5.280247	5.0	187959.0	1.408066	Y
5	IC 410-661633/5	7.5	10.11922	5.0	194766.0	1.349229	Y
6	ICIS 410-661633/2	12.5	18.053791	5.0	181463.0	1.444303	Y
7	IC 410-661633/4	20.0	27.736071	5.0	199008.0	1.386804	Y
8	IC 410-661633/3	30.0	45.200264	5.0	180262.0	1.506675	Y



Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

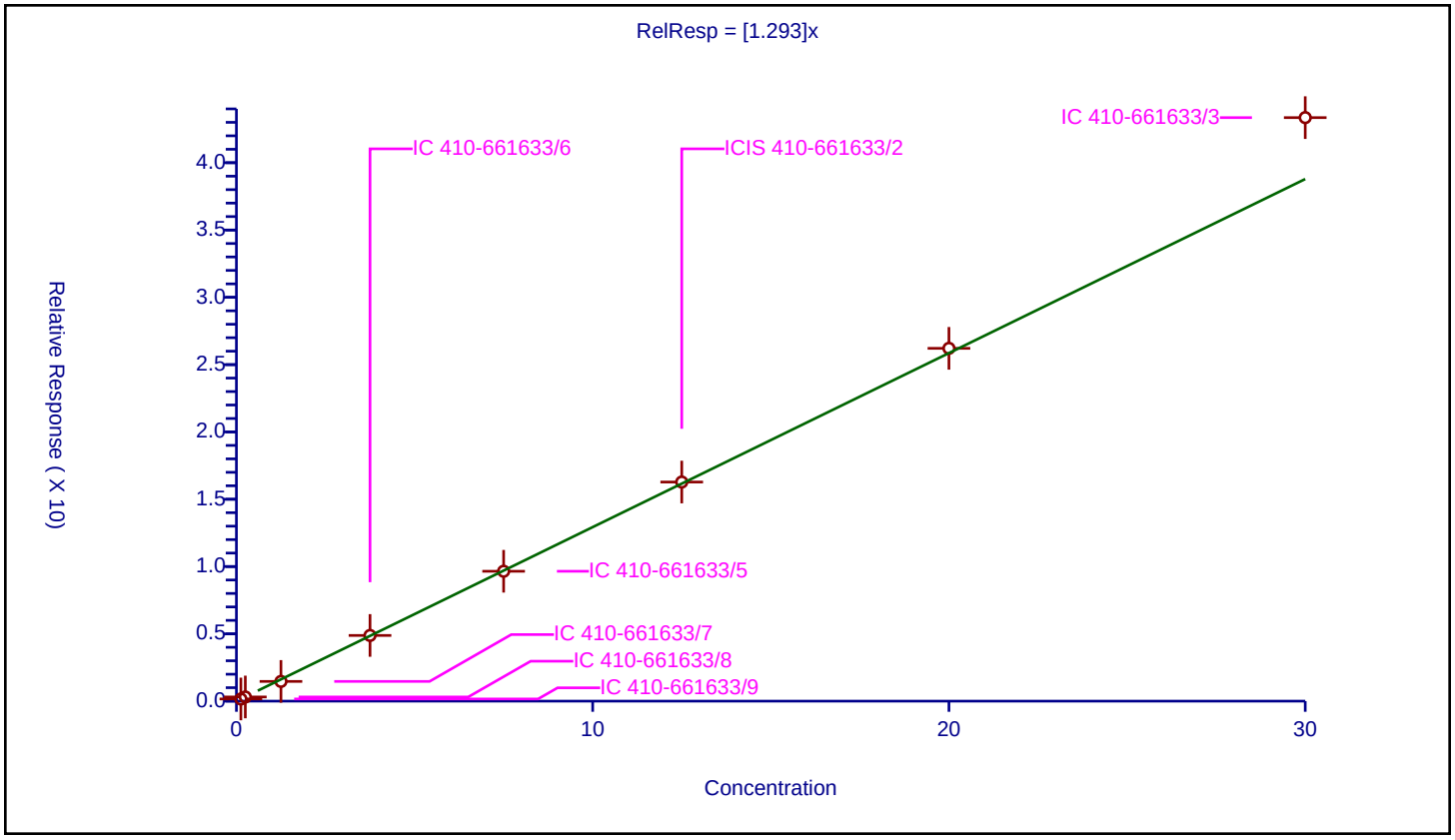
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.161181	5.0	195246.0	1.28945	Y
2	IC 410-661633/8	0.25	0.309096	5.0	178456.0	1.236383	Y
3	IC 410-661633/7	1.25	1.464734	5.0	171031.0	1.171788	Y
4	IC 410-661633/6	3.75	4.879628	5.0	187959.0	1.301234	Y
5	IC 410-661633/5	7.5	9.649682	5.0	194766.0	1.286624	Y
6	ICIS 410-661633/2	12.5	16.277092	5.0	181463.0	1.302167	Y
7	IC 410-661633/4	20.0	26.210529	5.0	199008.0	1.310526	Y
8	IC 410-661633/3	30.0	43.351427	5.0	180262.0	1.445048	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

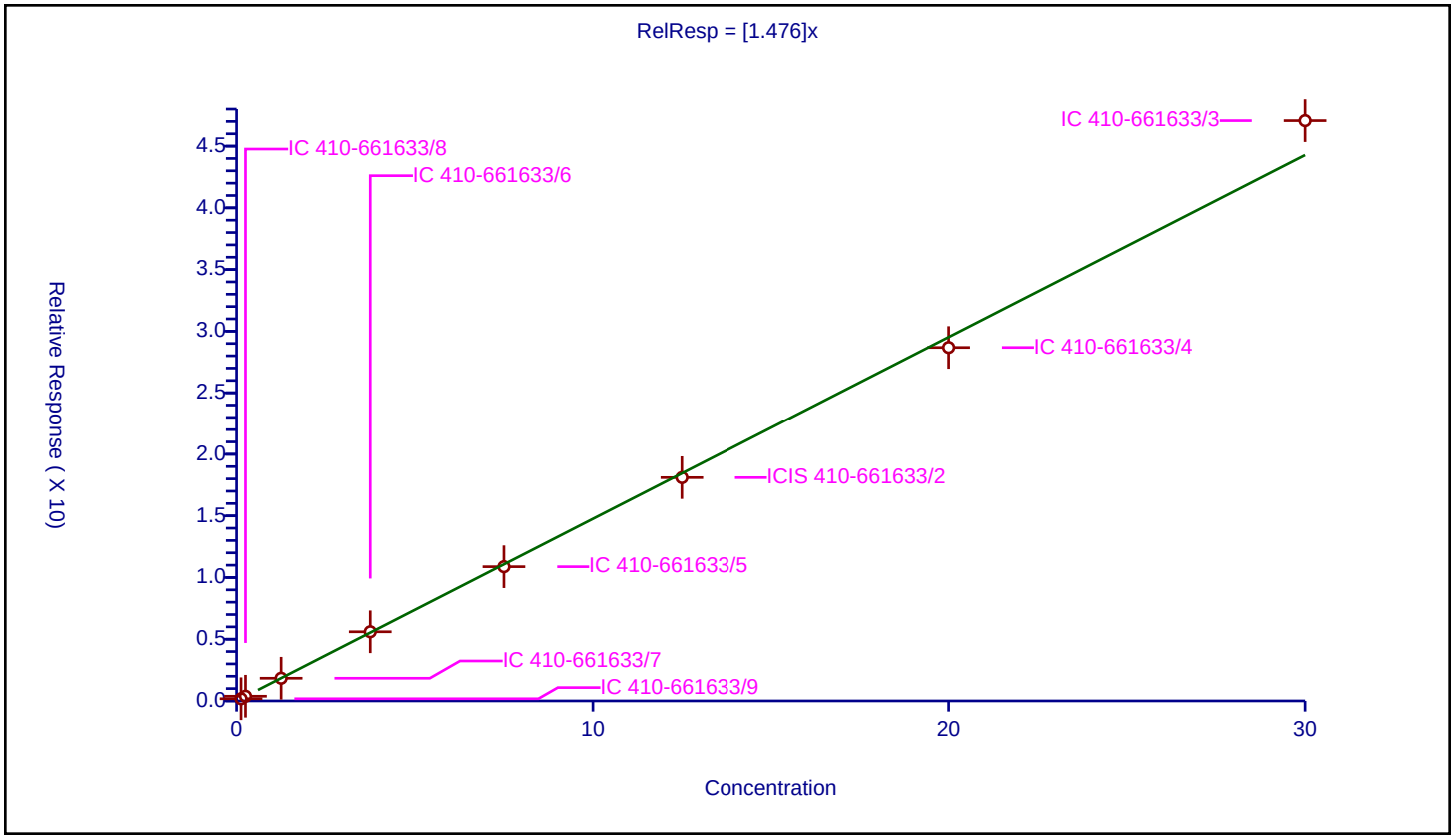
Curve Coefficients

Intercept:	0
Slope:	1.476

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.177366	5.0	195246.0	1.418928	Y
2	IC 410-661633/8	0.25	0.38085	5.0	178456.0	1.523401	Y
3	IC 410-661633/7	1.25	1.837649	5.0	171031.0	1.470119	Y
4	IC 410-661633/6	3.75	5.602871	5.0	187959.0	1.494099	Y
5	IC 410-661633/5	7.5	10.875204	5.0	194766.0	1.450027	Y
6	ICIS 410-661633/2	12.5	18.105178	5.0	181463.0	1.448414	Y
7	IC 410-661633/4	20.0	28.676611	5.0	199008.0	1.433831	Y
8	IC 410-661633/3	30.0	47.065077	5.0	180262.0	1.568836	Y



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Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

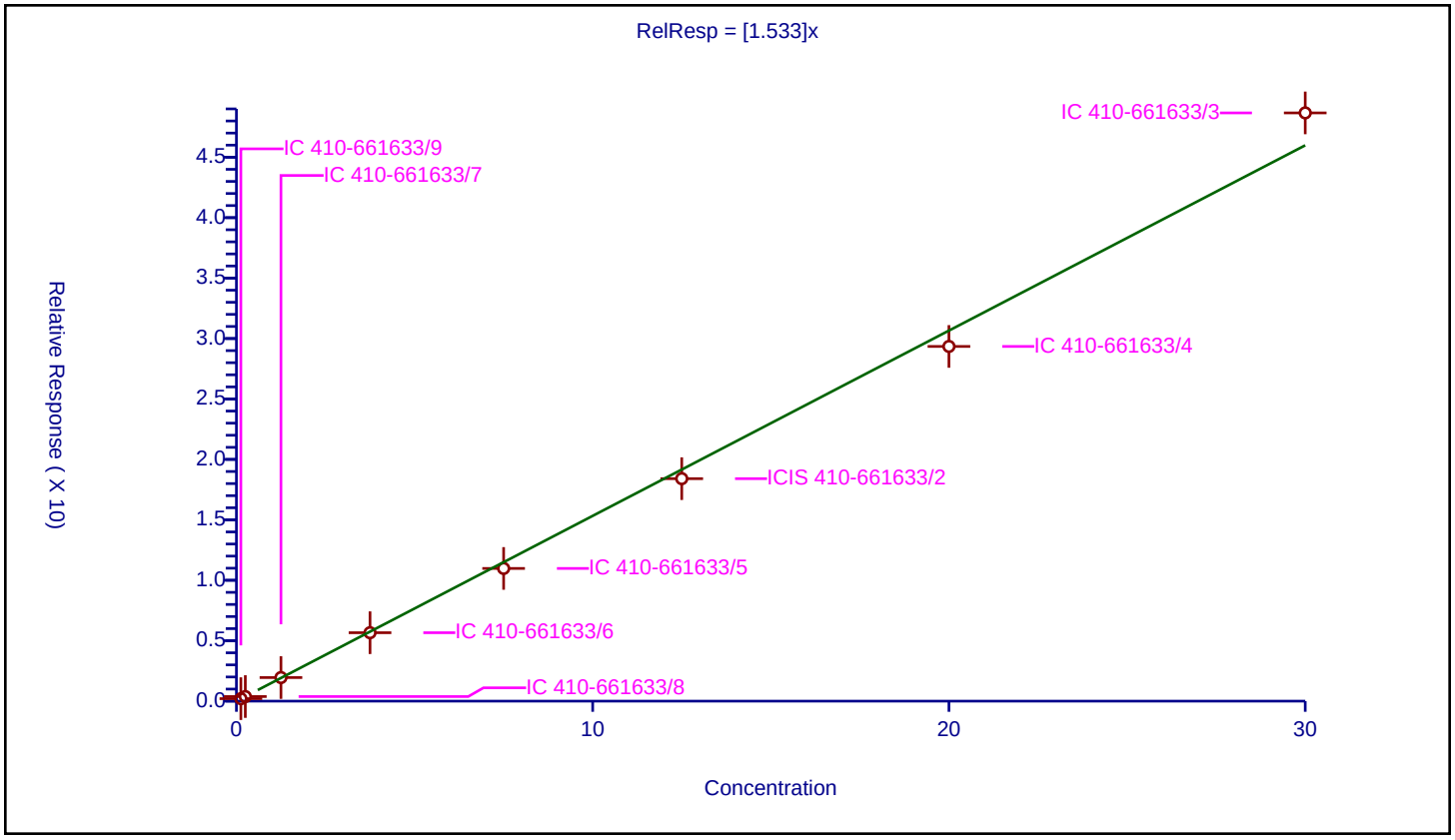
Curve Coefficients

Intercept:	0
Slope:	1.533

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.206329	5.0	195246.0	1.650636	Y
2	IC 410-661633/8	0.25	0.379001	5.0	178456.0	1.516004	Y
3	IC 410-661633/7	1.25	1.950173	5.0	171031.0	1.560138	Y
4	IC 410-661633/6	3.75	5.661687	5.0	187959.0	1.509783	Y
5	IC 410-661633/5	7.5	10.978713	5.0	194766.0	1.463828	Y
6	ICIS 410-661633/2	12.5	18.40816	5.0	181463.0	1.472653	Y
7	IC 410-661633/4	20.0	29.346659	5.0	199008.0	1.467333	Y
8	IC 410-661633/3	30.0	48.667689	5.0	180262.0	1.622256	Y



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Calibration / Benzyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

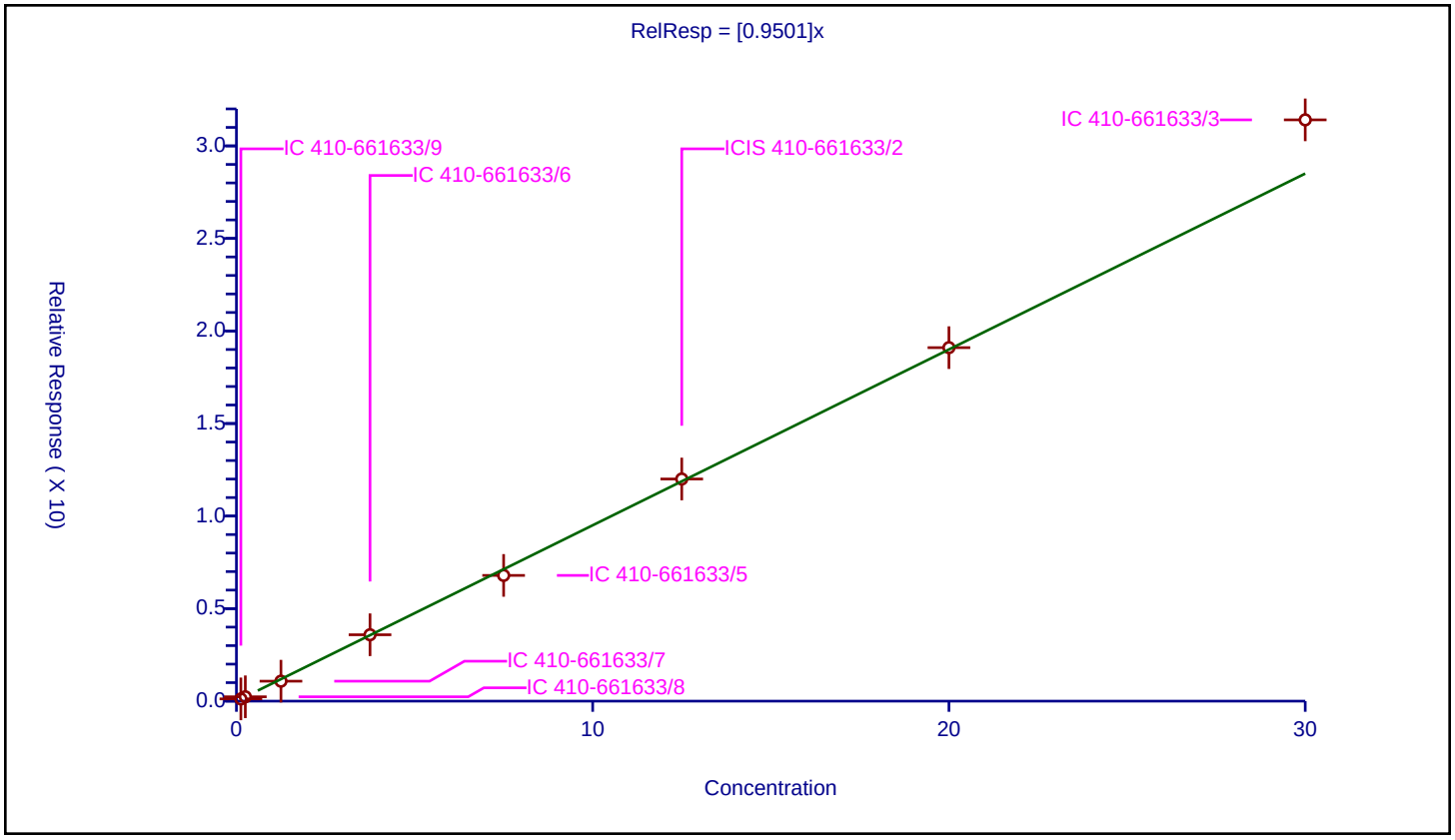
Curve Coefficients

Intercept:	0
Slope:	0.9501

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.121206	5.0	195246.0	0.969649	Y
2	IC 410-661633/8	0.25	0.235941	5.0	178456.0	0.943762	Y
3	IC 410-661633/7	1.25	1.07919	5.0	171031.0	0.863352	Y
4	IC 410-661633/6	3.75	3.586394	5.0	187959.0	0.956372	Y
5	IC 410-661633/5	7.5	6.7931	5.0	194766.0	0.905747	Y
6	ICIS 410-661633/2	12.5	12.003301	5.0	181463.0	0.960264	Y
7	IC 410-661633/4	20.0	19.100514	5.0	199008.0	0.955026	Y
8	IC 410-661633/3	30.0	31.40698	5.0	180262.0	1.046899	Y



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Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

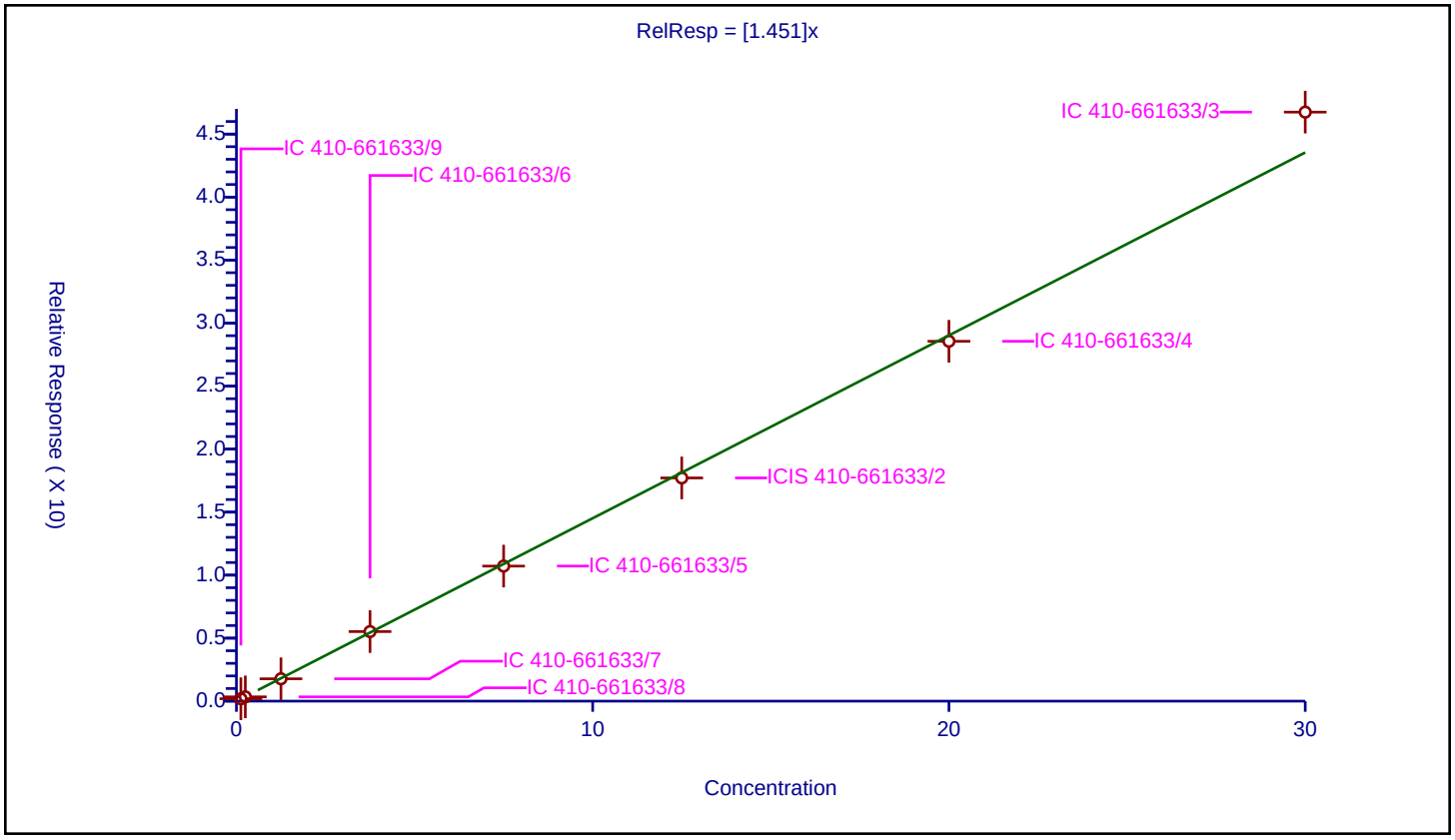
Curve Coefficients

Intercept:	0
Slope:	1.451

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.19163	5.0	195246.0	1.53304	Y
2	IC 410-661633/8	0.25	0.338403	5.0	178456.0	1.353611	Y
3	IC 410-661633/7	1.25	1.774737	5.0	171031.0	1.419789	Y
4	IC 410-661633/6	3.75	5.519954	5.0	187959.0	1.471988	Y
5	IC 410-661633/5	7.5	10.718144	5.0	194766.0	1.429086	Y
6	ICIS 410-661633/2	12.5	17.713473	5.0	181463.0	1.417078	Y
7	IC 410-661633/4	20.0	28.559028	5.0	199008.0	1.427951	Y
8	IC 410-661633/3	30.0	46.743601	5.0	180262.0	1.55812	Y



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Calibration / 2-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

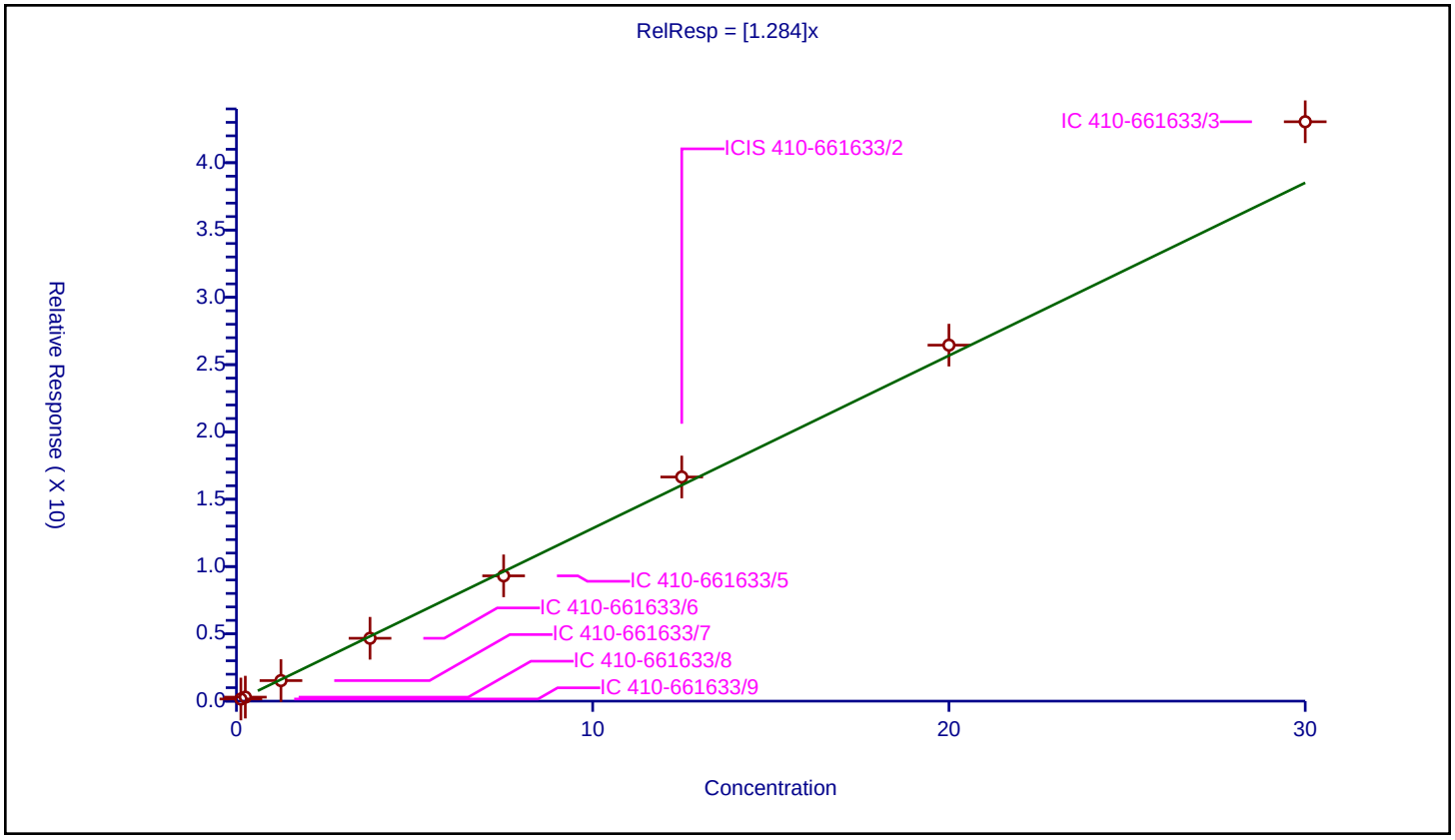
Curve Coefficients

Intercept:	0
Slope:	1.284

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.160183	5.0	195246.0	1.28146	Y
2	IC 410-661633/8	0.25	0.297748	5.0	178456.0	1.190994	Y
3	IC 410-661633/7	1.25	1.526215	5.0	171031.0	1.220972	Y
4	IC 410-661633/6	3.75	4.670221	5.0	187959.0	1.245392	Y
5	IC 410-661633/5	7.5	9.308735	5.0	194766.0	1.241165	Y
6	ICIS 410-661633/2	12.5	16.651879	5.0	181463.0	1.33215	Y
7	IC 410-661633/4	20.0	26.448359	5.0	199008.0	1.322418	Y
8	IC 410-661633/3	30.0	43.044568	5.0	180262.0	1.434819	Y



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Calibration / 2,2'-oxybis[1-chloropropane]

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

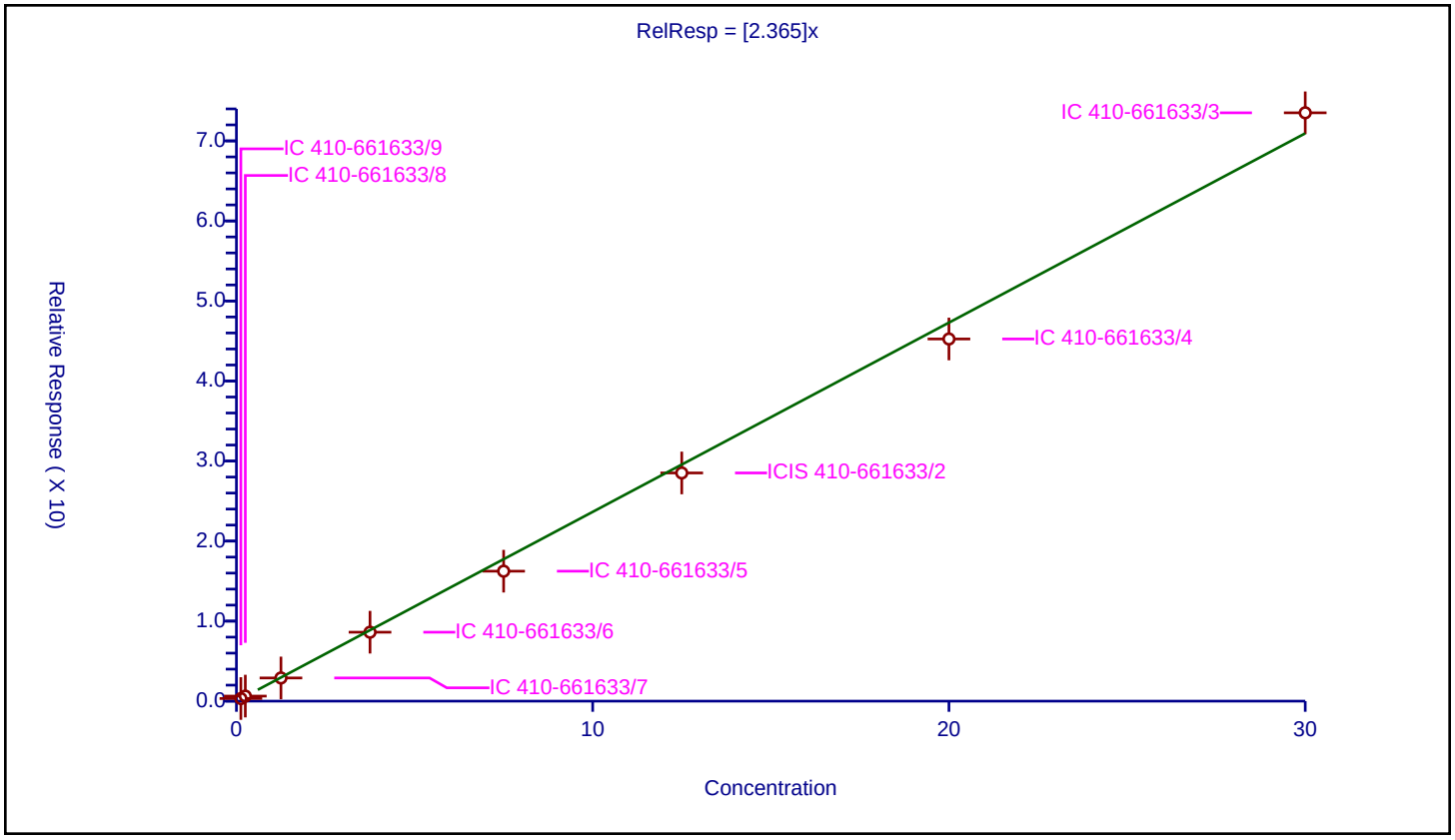
Curve Coefficients

Intercept:	0
Slope:	2.365

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.326742	5.0	195246.0	2.613933	Y
2	IC 410-661633/8	0.25	0.632257	5.0	178456.0	2.529027	Y
3	IC 410-661633/7	1.25	2.898393	5.0	171031.0	2.318714	Y
4	IC 410-661633/6	3.75	8.614565	5.0	187959.0	2.297217	Y
5	IC 410-661633/5	7.5	16.239821	5.0	194766.0	2.165309	Y
6	ICIS 410-661633/2	12.5	28.509806	5.0	181463.0	2.280785	Y
7	IC 410-661633/4	20.0	45.250668	5.0	199008.0	2.262533	Y
8	IC 410-661633/3	30.0	73.509642	5.0	180262.0	2.450321	Y



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Calibration / N-Nitrosopyrrolidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

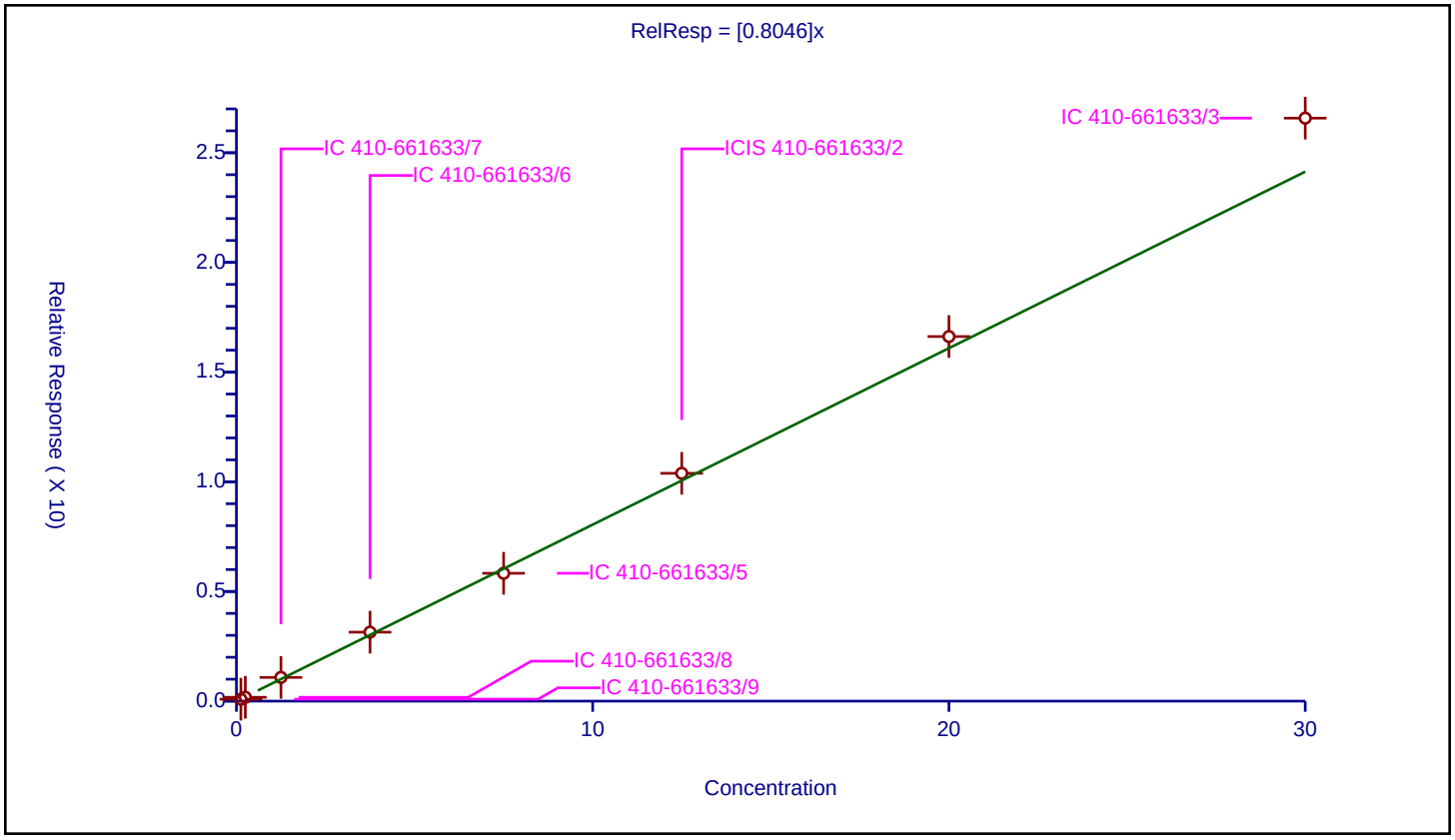
Curve Coefficients

Intercept:	0
Slope:	0.8046

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.087966	5.0	195246.0	0.703728	Y
2	IC 410-661633/8	0.25	0.175926	5.0	178456.0	0.703703	Y
3	IC 410-661633/7	1.25	1.081734	5.0	171031.0	0.865387	Y
4	IC 410-661633/6	3.75	3.144808	5.0	187959.0	0.838616	Y
5	IC 410-661633/5	7.5	5.828327	5.0	194766.0	0.77711	Y
6	ICIS 410-661633/2	12.5	10.38647	5.0	181463.0	0.830918	Y
7	IC 410-661633/4	20.0	16.622171	5.0	199008.0	0.831109	Y
8	IC 410-661633/3	30.0	26.578397	5.0	180262.0	0.885947	Y



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Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

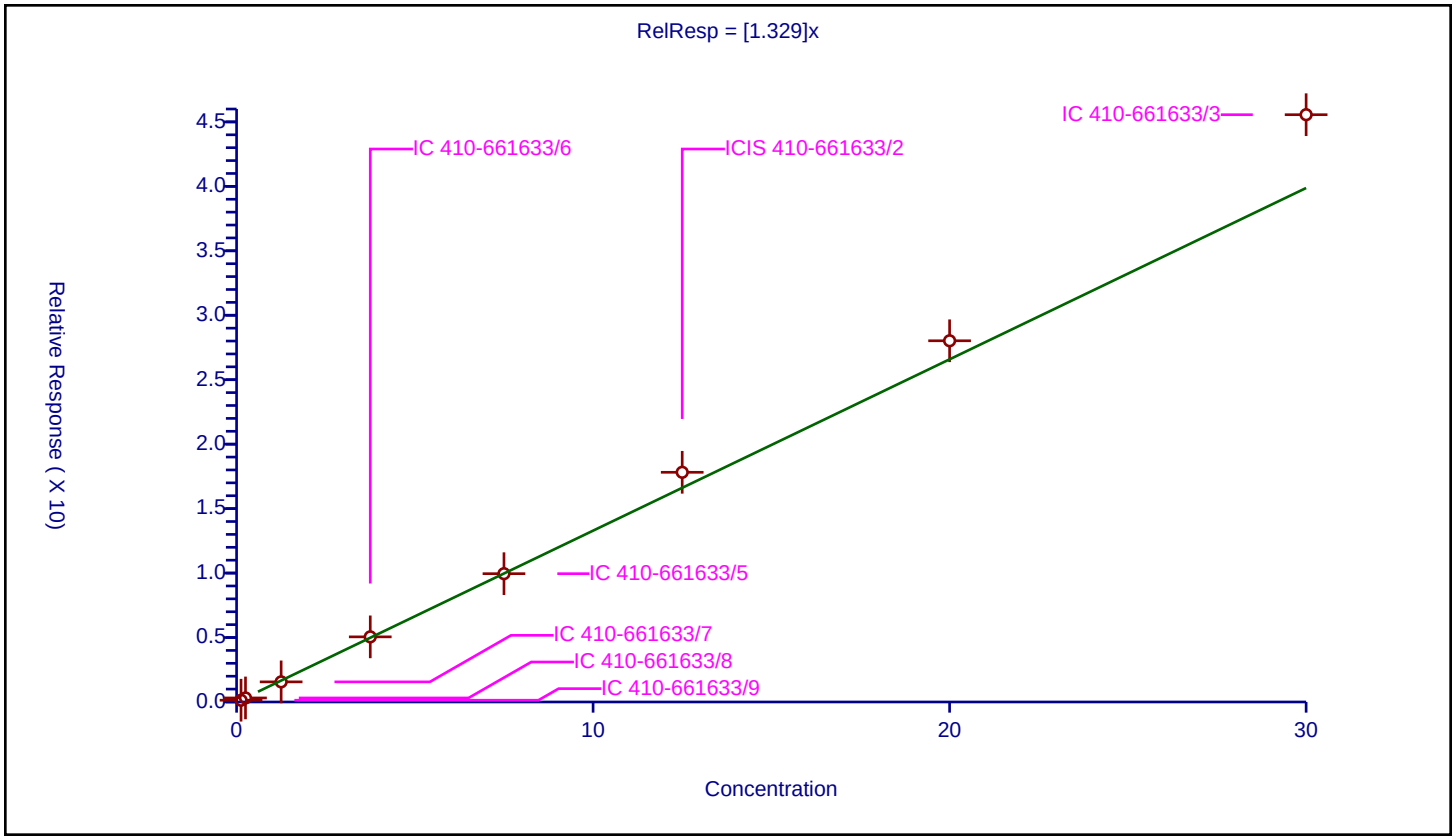
Curve Coefficients

Intercept:	0
Slope:	1.329

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.138569	5.0	195246.0	1.10855	Y
2	IC 410-661633/8	0.25	0.313887	5.0	178456.0	1.255548	Y
3	IC 410-661633/7	1.25	1.561208	5.0	171031.0	1.248967	Y
4	IC 410-661633/6	3.75	5.053097	5.0	187959.0	1.347492	Y
5	IC 410-661633/5	7.5	9.954073	5.0	194766.0	1.32721	Y
6	ICIS 410-661633/2	12.5	17.817957	5.0	181463.0	1.425437	Y
7	IC 410-661633/4	20.0	28.020331	5.0	199008.0	1.401017	Y
8	IC 410-661633/3	30.0	45.55963	5.0	180262.0	1.518654	Y



Calibration / N-Nitrosodi-n-propylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

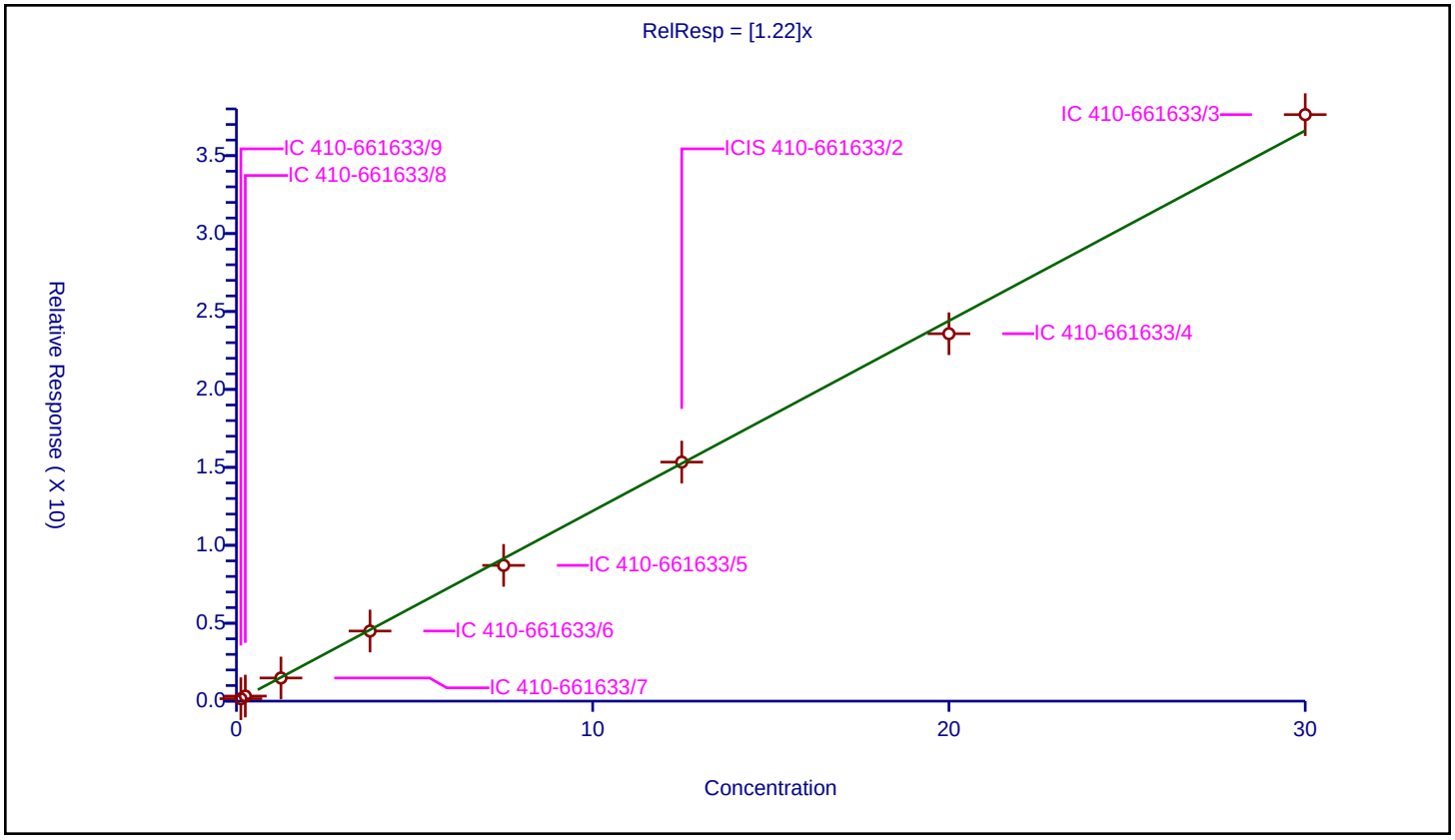
Curve Coefficients

Intercept:	0
Slope:	1.22

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.156162	5.0	195246.0	1.249296	Y
2	IC 410-661633/8	0.25	0.32557	5.0	178456.0	1.302282	Y
3	IC 410-661633/7	1.25	1.486339	5.0	171031.0	1.189071	Y
4	IC 410-661633/6	3.75	4.497869	5.0	187959.0	1.199432	Y
5	IC 410-661633/5	7.5	8.710786	5.0	194766.0	1.161438	Y
6	ICIS 410-661633/2	12.5	15.337893	5.0	181463.0	1.227031	Y
7	IC 410-661633/4	20.0	23.575585	5.0	199008.0	1.178779	Y
8	IC 410-661633/3	30.0	37.631947	5.0	180262.0	1.254398	Y



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Calibration / Acetophenone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

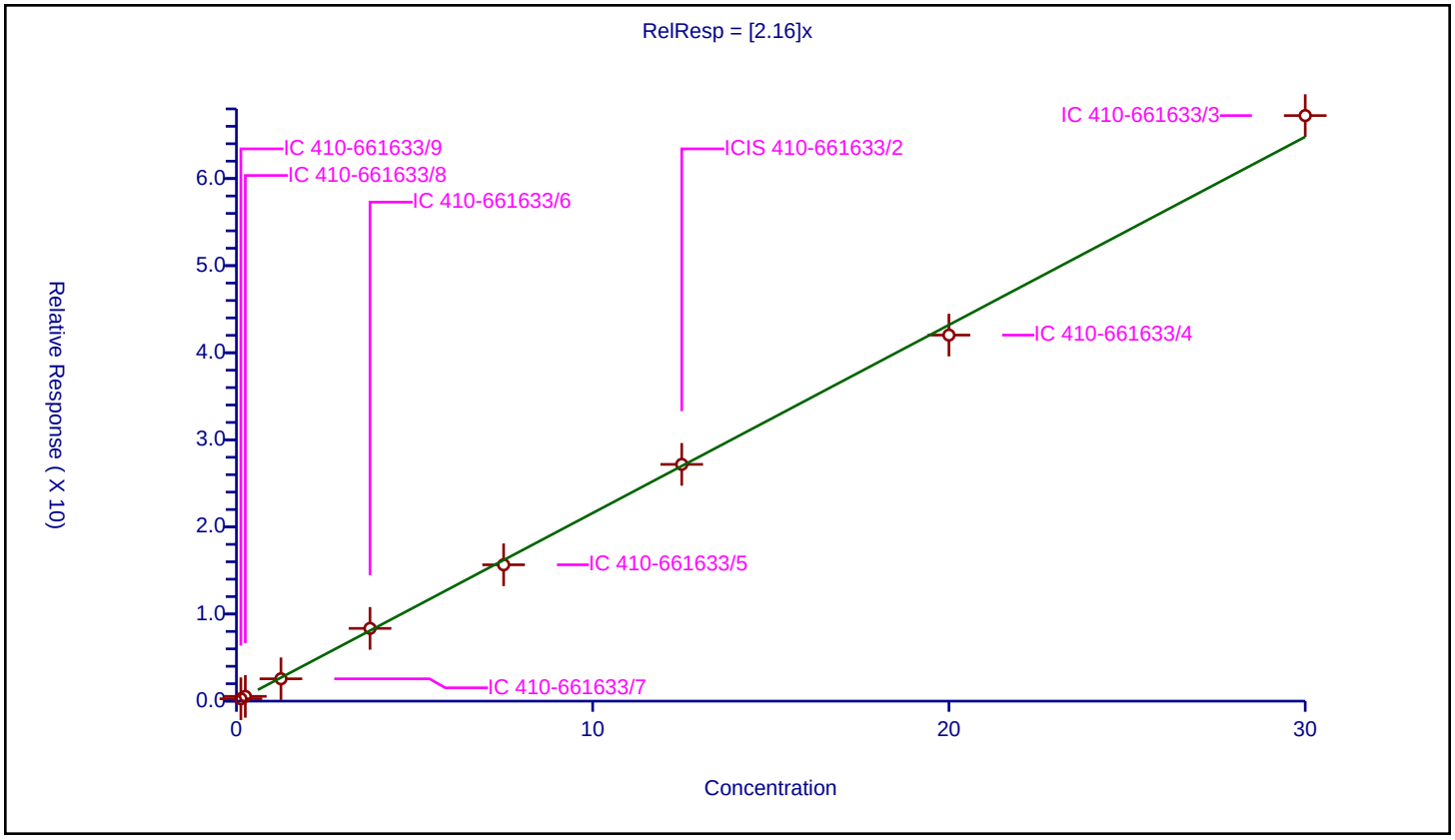
Curve Coefficients

Intercept:	0
Slope:	2.16

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.274756	5.0	195246.0	2.198048	Y
2	IC 410-661633/8	0.25	0.548735	5.0	178456.0	2.194939	Y
3	IC 410-661633/7	1.25	2.565617	5.0	171031.0	2.052493	Y
4	IC 410-661633/6	3.75	8.354003	5.0	187959.0	2.227734	Y
5	IC 410-661633/5	7.5	15.656377	5.0	194766.0	2.087517	Y
6	ICIS 410-661633/2	12.5	27.185239	5.0	181463.0	2.174819	Y
7	IC 410-661633/4	20.0	42.027381	5.0	199008.0	2.101369	Y
8	IC 410-661633/3	30.0	67.232112	5.0	180262.0	2.24107	Y



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Calibration / N-Nitrosomorpholine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

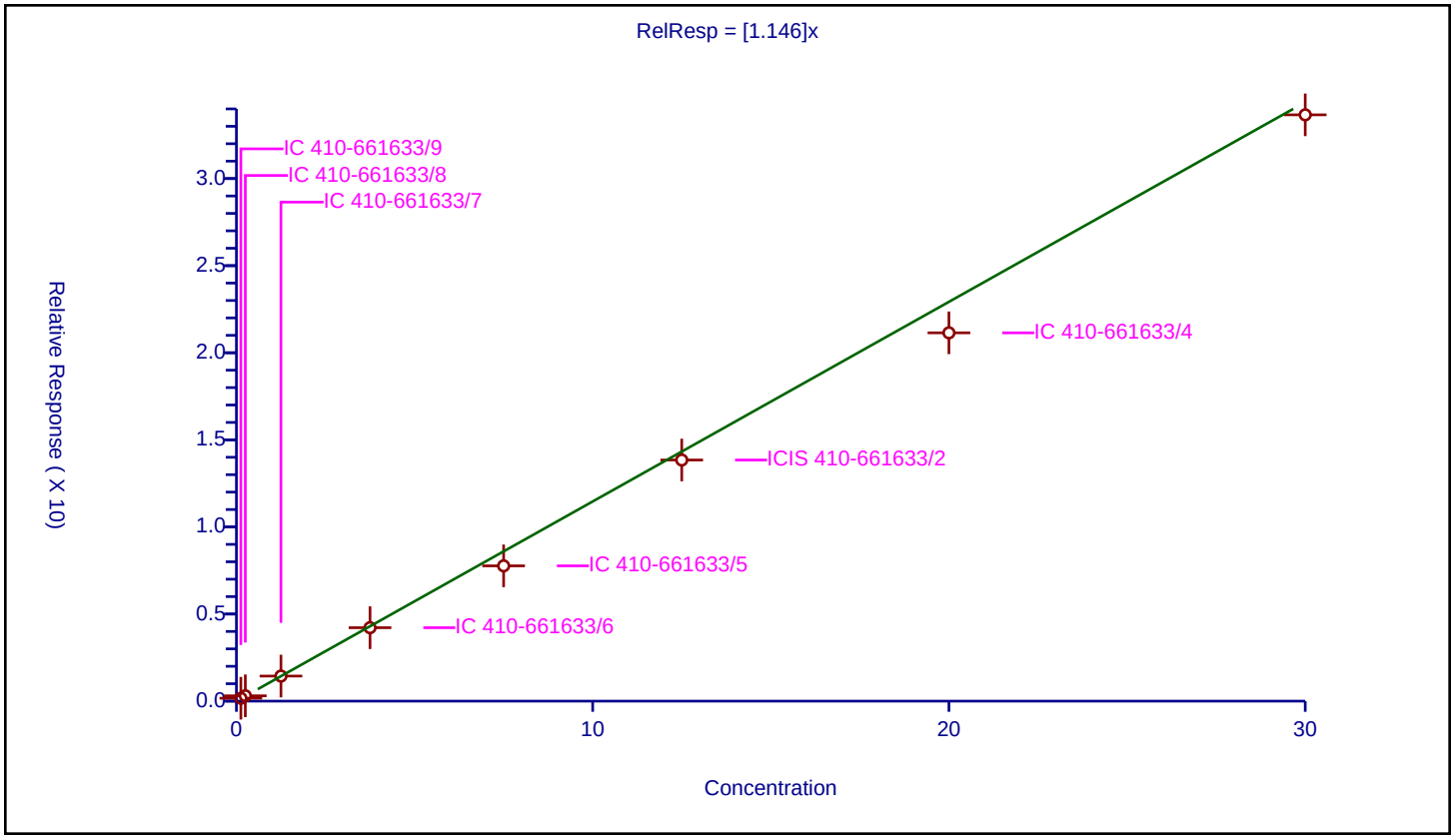
Curve Coefficients

Intercept:	0
Slope:	1.146

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.167968	5.0	195246.0	1.343741	Y
2	IC 410-661633/8	0.25	0.307022	5.0	178456.0	1.22809	Y
3	IC 410-661633/7	1.25	1.43892	5.0	171031.0	1.151136	Y
4	IC 410-661633/6	3.75	4.216159	5.0	187959.0	1.124309	Y
5	IC 410-661633/5	7.5	7.766499	5.0	194766.0	1.035533	Y
6	ICIS 410-661633/2	12.5	13.842657	5.0	181463.0	1.107413	Y
7	IC 410-661633/4	20.0	21.144753	5.0	199008.0	1.057238	Y
8	IC 410-661633/3	30.0	33.659257	5.0	180262.0	1.121975	Y



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Calibration / 2-Toluidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

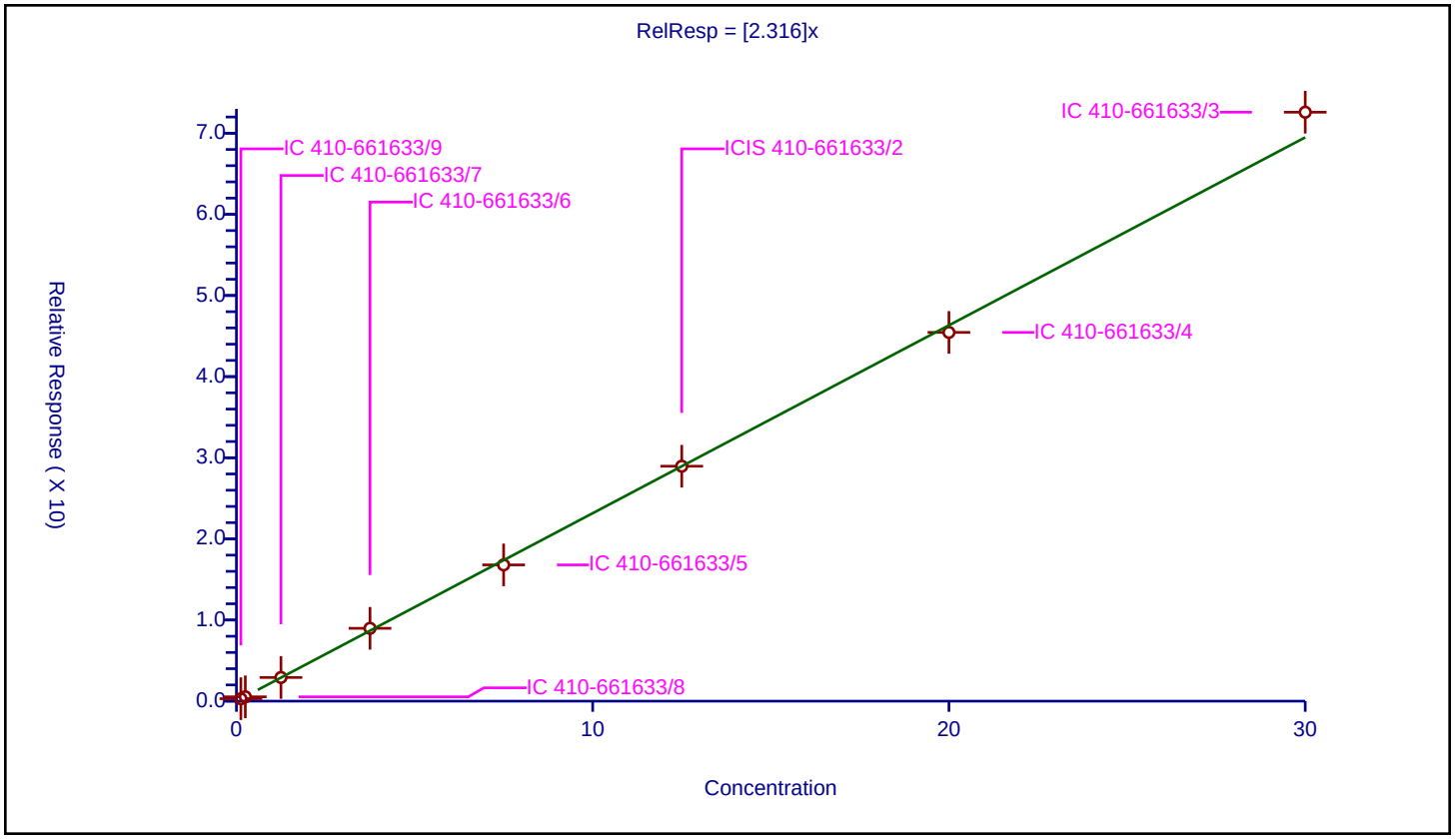
Curve Coefficients

Intercept:	0
Slope:	2.316

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.303335	5.0	195246.0	2.426682	Y
2	IC 410-661633/8	0.25	0.532064	5.0	178456.0	2.128256	Y
3	IC 410-661633/7	1.25	2.917044	5.0	171031.0	2.333635	Y
4	IC 410-661633/6	3.75	8.976958	5.0	187959.0	2.393855	Y
5	IC 410-661633/5	7.5	16.792279	5.0	194766.0	2.238971	Y
6	ICIS 410-661633/2	12.5	28.957115	5.0	181463.0	2.316569	Y
7	IC 410-661633/4	20.0	45.4485	5.0	199008.0	2.272425	Y
8	IC 410-661633/3	30.0	72.588316	5.0	180262.0	2.419611	Y



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Calibration / Hexachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

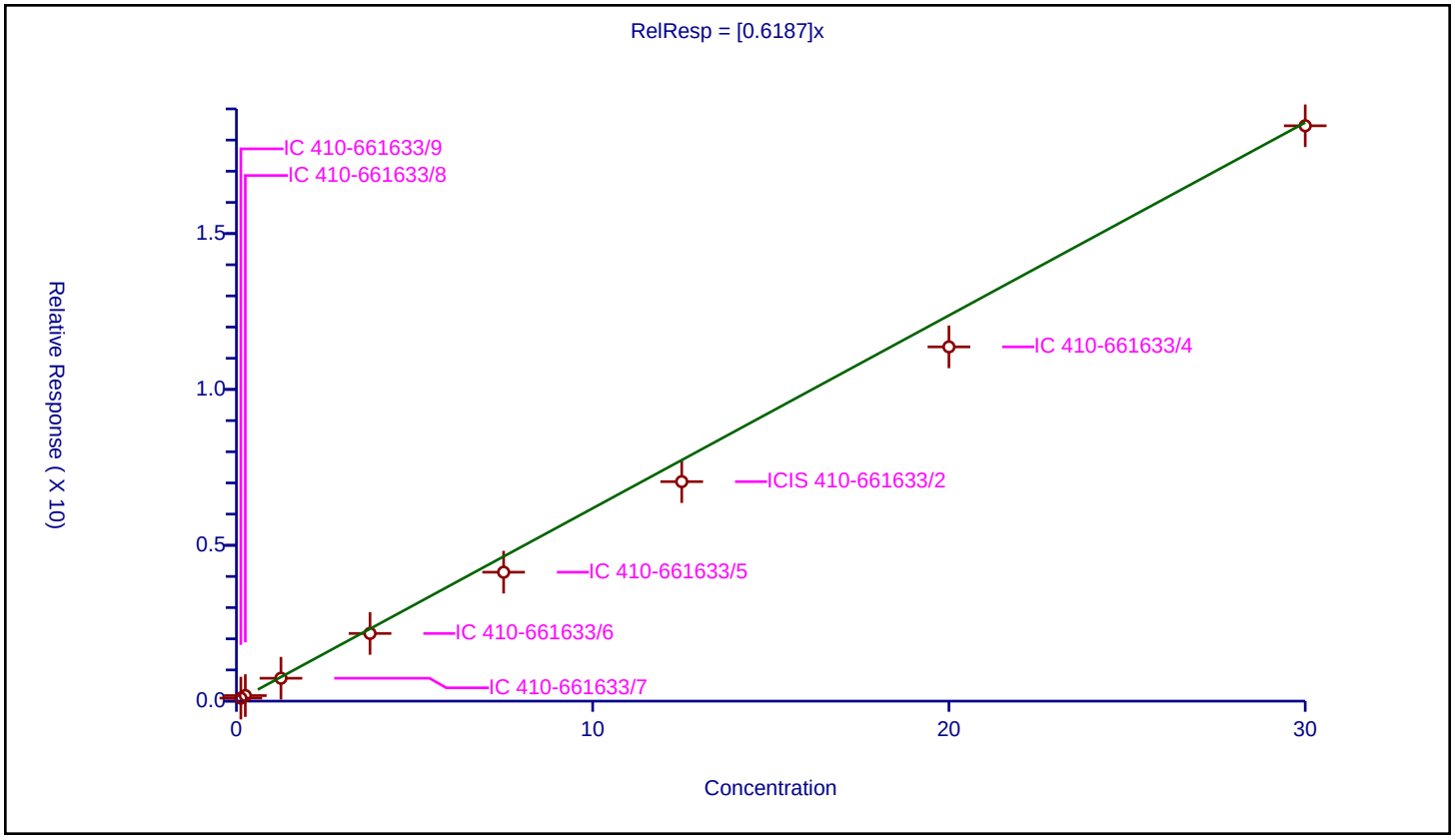
Curve Coefficients

Intercept:	0
Slope:	0.6187

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.096647	5.0	195246.0	0.773178	Y
2	IC 410-661633/8	0.25	0.177887	5.0	178456.0	0.711548	Y
3	IC 410-661633/7	1.25	0.734399	5.0	171031.0	0.587519	Y
4	IC 410-661633/6	3.75	2.171245	5.0	187959.0	0.578999	Y
5	IC 410-661633/5	7.5	4.136554	5.0	194766.0	0.55154	Y
6	ICIS 410-661633/2	12.5	7.042207	5.0	181463.0	0.563377	Y
7	IC 410-661633/4	20.0	11.365146	5.0	199008.0	0.568257	Y
8	IC 410-661633/3	30.0	18.458411	5.0	180262.0	0.61528	Y



Calibration / Nitrobenzene-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

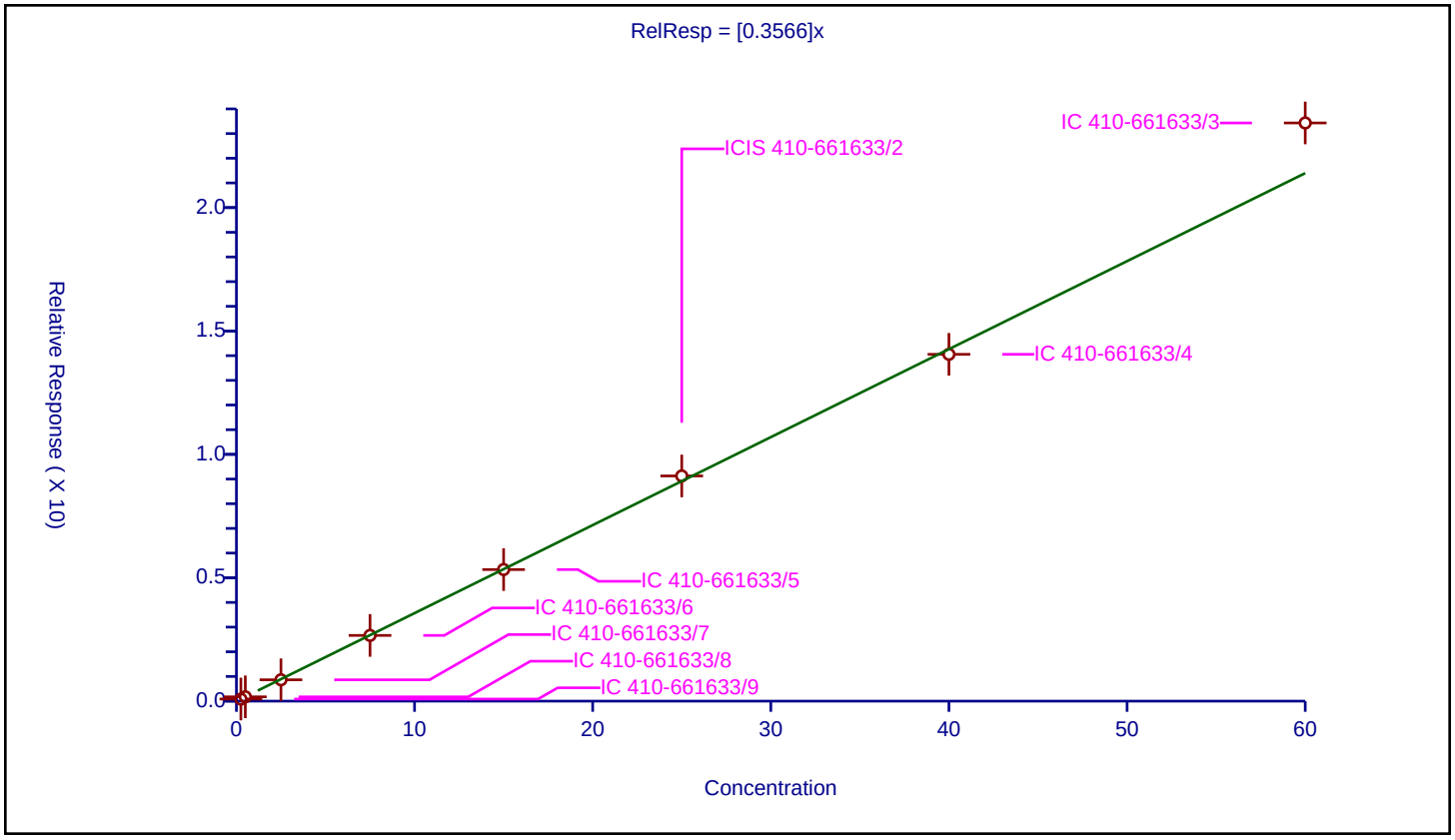
Curve Coefficients

Intercept:	0
Slope:	0.3566

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.084907	5.0	789215.0	0.339629	Y
2	IC 410-661633/8	0.5	0.174712	5.0	723592.0	0.349423	Y
3	IC 410-661633/7	2.5	0.865509	5.0	718069.0	0.346203	Y
4	IC 410-661633/6	7.5	2.663679	5.0	804213.0	0.355157	Y
5	IC 410-661633/5	15.0	5.332325	5.0	810998.0	0.355488	Y
6	ICIS 410-661633/2	25.0	9.12575	5.0	770741.0	0.36503	Y
7	IC 410-661633/4	40.0	14.054579	5.0	865212.0	0.351364	Y
8	IC 410-661633/3	60.0	23.429782	5.0	772262.0	0.390496	Y



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Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

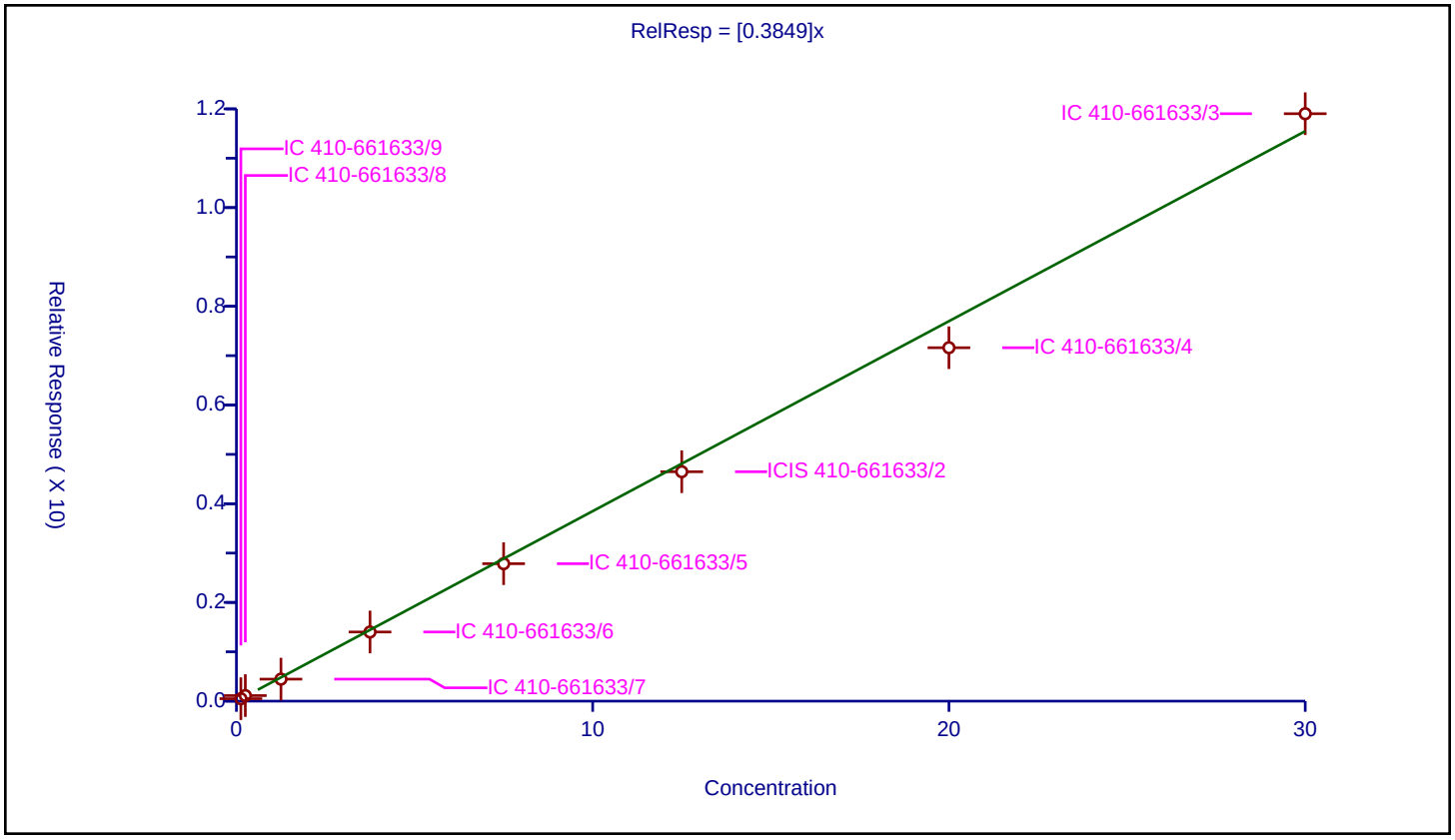
Curve Coefficients

Intercept:	0
Slope:	0.3849

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.050069	5.0	789215.0	0.40055	Y
2	IC 410-661633/8	0.25	0.112633	5.0	723592.0	0.45053	Y
3	IC 410-661633/7	1.25	0.44596	5.0	718069.0	0.356768	Y
4	IC 410-661633/6	3.75	1.401084	5.0	804213.0	0.373622	Y
5	IC 410-661633/5	7.5	2.78476	5.0	810998.0	0.371301	Y
6	ICIS 410-661633/2	12.5	4.648442	5.0	770741.0	0.371875	Y
7	IC 410-661633/4	20.0	7.161025	5.0	865212.0	0.358051	Y
8	IC 410-661633/3	30.0	11.902262	5.0	772262.0	0.396742	Y



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Calibration / N-Nitrosopiperidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

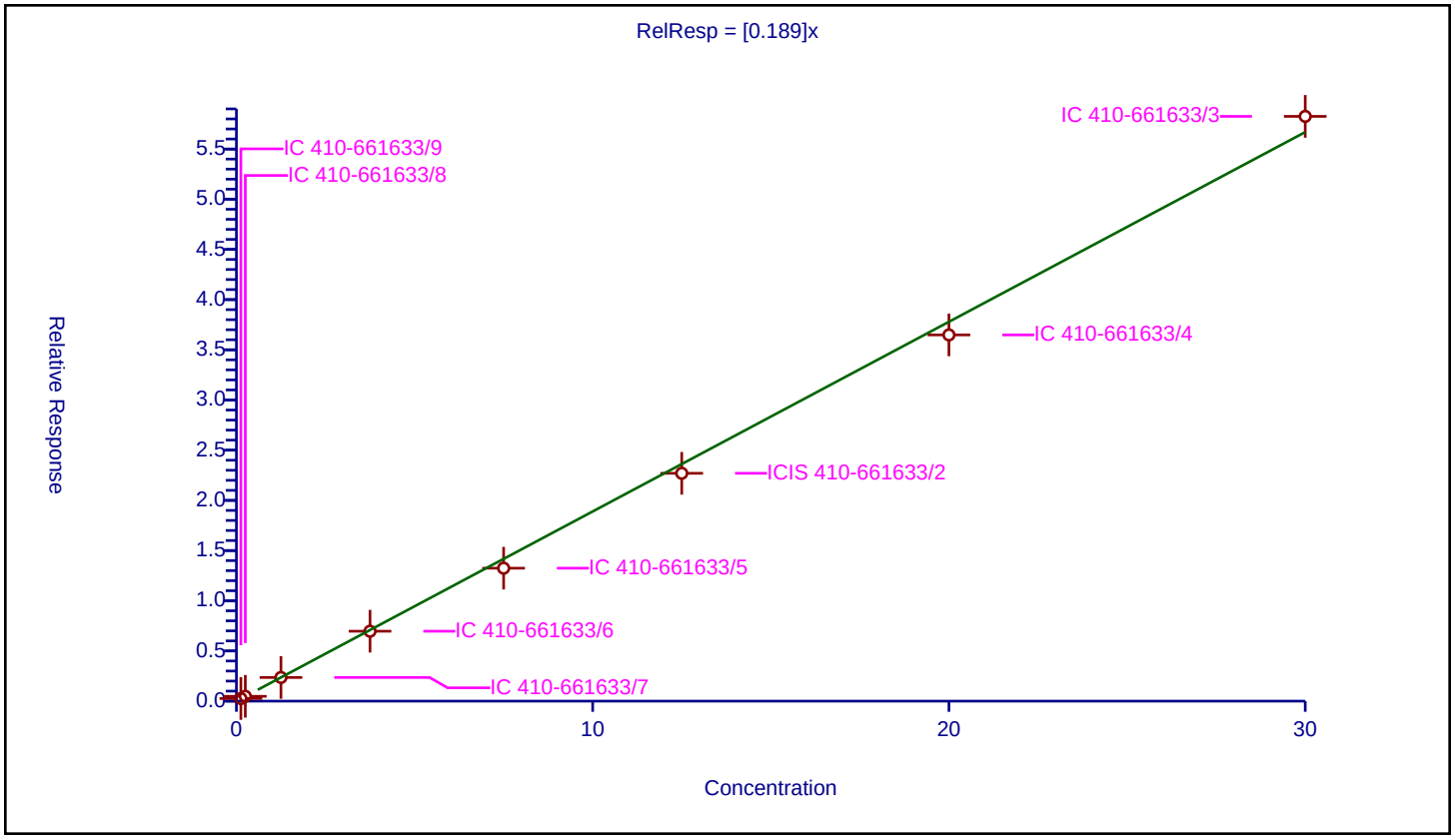
Curve Coefficients

Intercept:	0
Slope:	0.189

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.026197	5.0	789215.0	0.209575	Y
2	IC 410-661633/8	0.25	0.048225	5.0	723592.0	0.192899	Y
3	IC 410-661633/7	1.25	0.235799	5.0	718069.0	0.188639	Y
4	IC 410-661633/6	3.75	0.696557	5.0	804213.0	0.185748	Y
5	IC 410-661633/5	7.5	1.324374	5.0	810998.0	0.176583	Y
6	ICIS 410-661633/2	12.5	2.269855	5.0	770741.0	0.181588	Y
7	IC 410-661633/4	20.0	3.648325	5.0	865212.0	0.182416	Y
8	IC 410-661633/3	30.0	5.825368	5.0	772262.0	0.194179	Y



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Calibration / Isophorone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

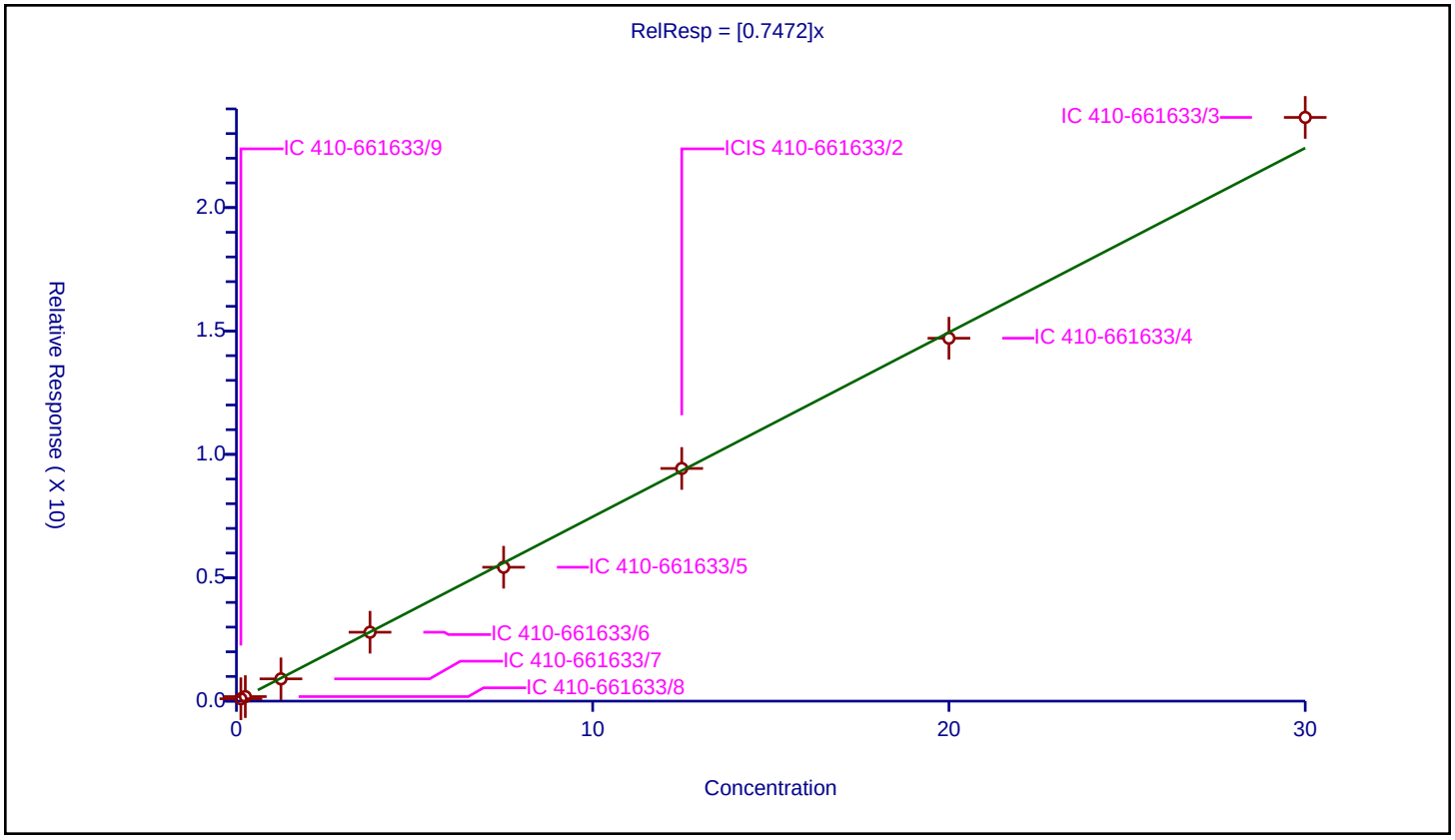
Curve Coefficients

Intercept:	0
Slope:	0.7472

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.096824	5.0	789215.0	0.774592	Y
2	IC 410-661633/8	0.25	0.183563	5.0	723592.0	0.734254	Y
3	IC 410-661633/7	1.25	0.902699	5.0	718069.0	0.722159	Y
4	IC 410-661633/6	3.75	2.792494	5.0	804213.0	0.744665	Y
5	IC 410-661633/5	7.5	5.425809	5.0	810998.0	0.723441	Y
6	ICIS 410-661633/2	12.5	9.429225	5.0	770741.0	0.754338	Y
7	IC 410-661633/4	20.0	14.706939	5.0	865212.0	0.735347	Y
8	IC 410-661633/3	30.0	23.654725	5.0	772262.0	0.788491	Y



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Calibration / 2-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

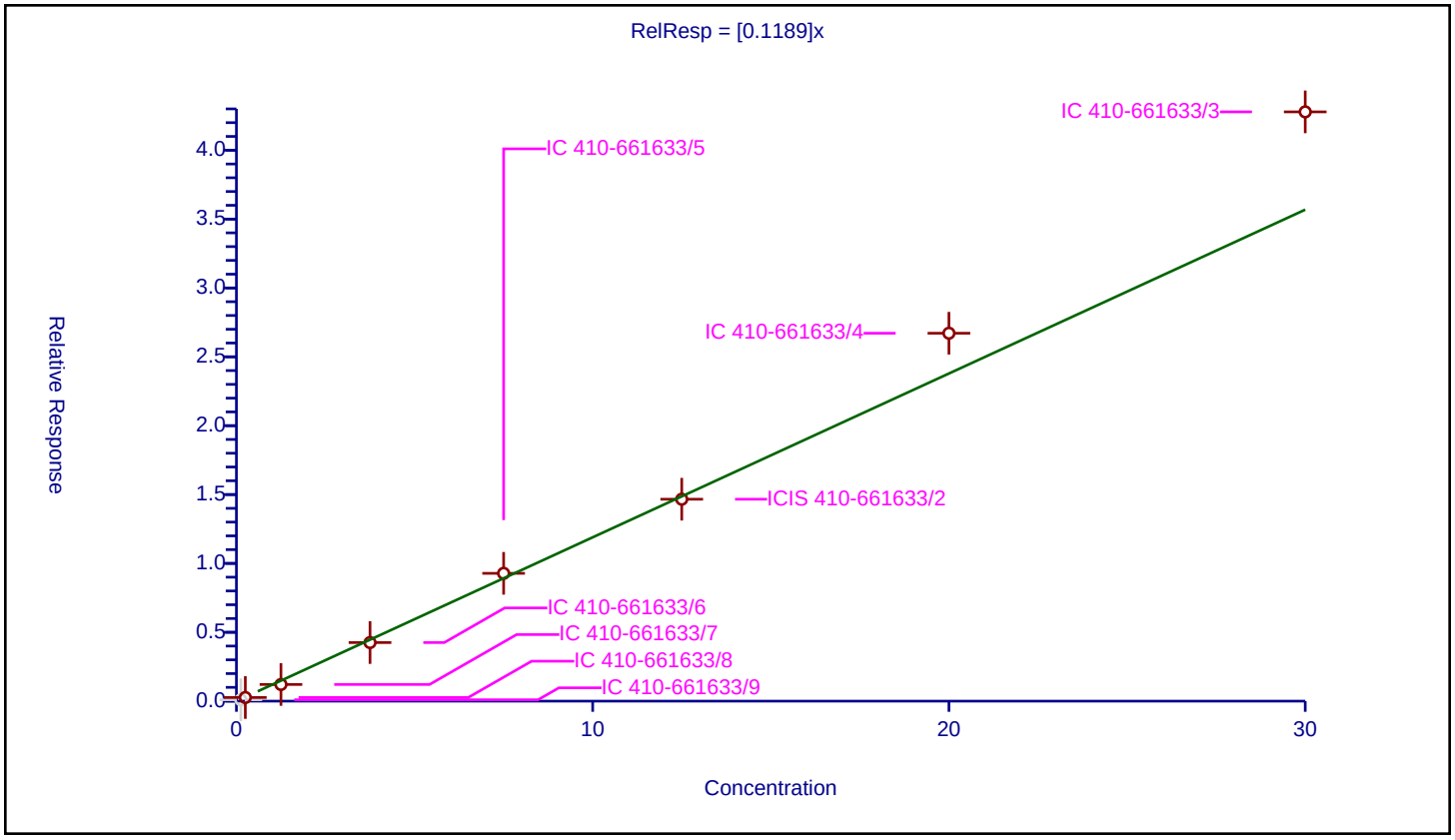
Curve Coefficients

Intercept:	0
Slope:	0.1189

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.009902	5.0	789215.0	0.079218	N
2	IC 410-661633/8	0.25	0.026313	5.0	723592.0	0.105253	Y
3	IC 410-661633/7	1.25	0.120887	5.0	718069.0	0.096709	Y
4	IC 410-661633/6	3.75	0.42541	5.0	804213.0	0.113443	Y
5	IC 410-661633/5	7.5	0.927857	5.0	810998.0	0.123714	Y
6	ICIS 410-661633/2	12.5	1.466083	5.0	770741.0	0.117287	Y
7	IC 410-661633/4	20.0	2.671189	5.0	865212.0	0.133559	Y
8	IC 410-661633/3	30.0	4.27825	5.0	772262.0	0.142608	Y



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Calibration / 2,4-Dimethylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

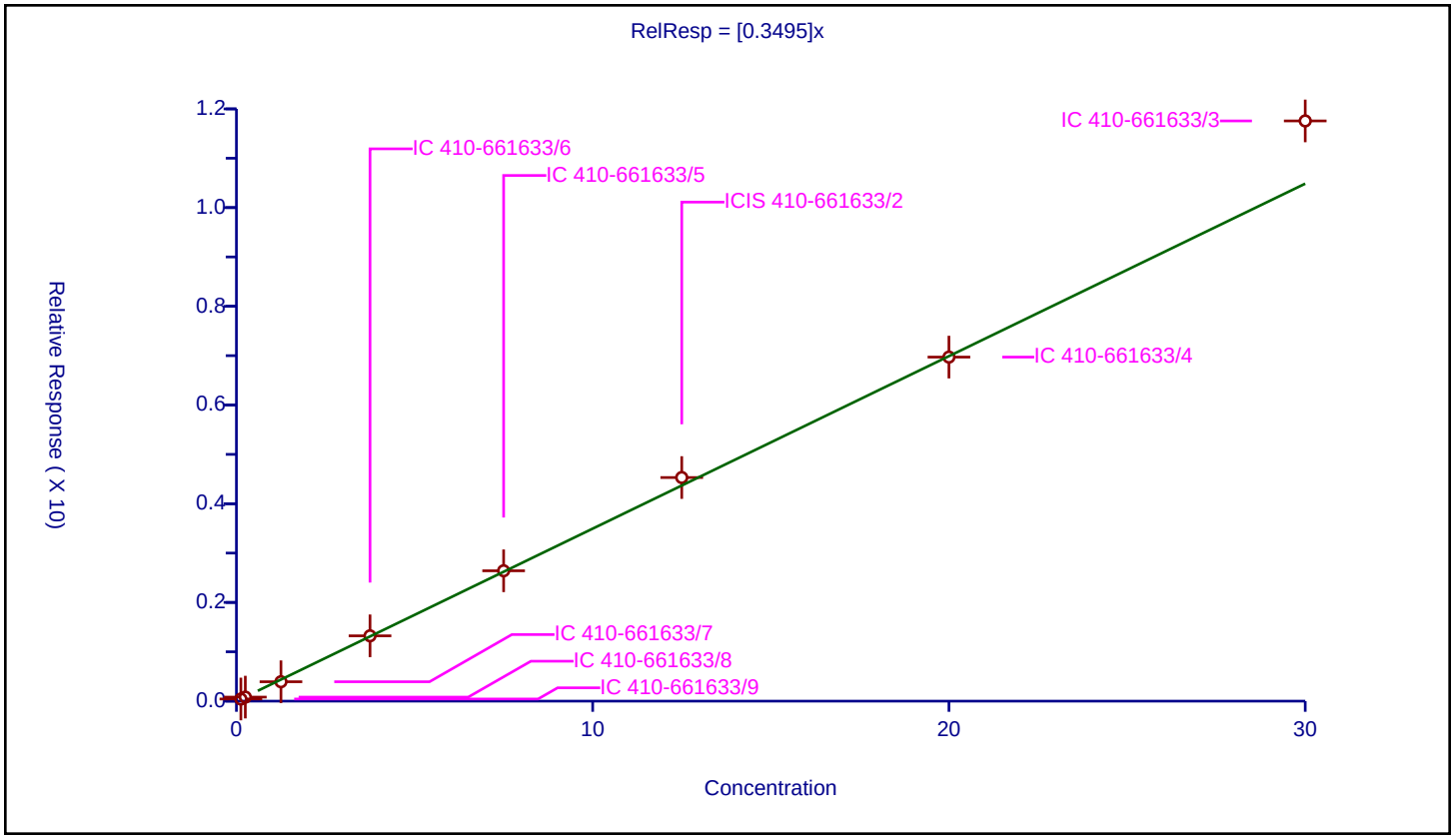
Curve Coefficients

Intercept:	0
Slope:	0.3495

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.043379	5.0	789215.0	0.347028	Y
2	IC 410-661633/8	0.25	0.0816	5.0	723592.0	0.326399	Y
3	IC 410-661633/7	1.25	0.393235	5.0	718069.0	0.314588	Y
4	IC 410-661633/6	3.75	1.323412	5.0	804213.0	0.35291	Y
5	IC 410-661633/5	7.5	2.64132	5.0	810998.0	0.352176	Y
6	ICIS 410-661633/2	12.5	4.53075	5.0	770741.0	0.36246	Y
7	IC 410-661633/4	20.0	6.970812	5.0	865212.0	0.348541	Y
8	IC 410-661633/3	30.0	11.75614	5.0	772262.0	0.391871	Y



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Calibration / o,o',o''-Triethylphosphorothioate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

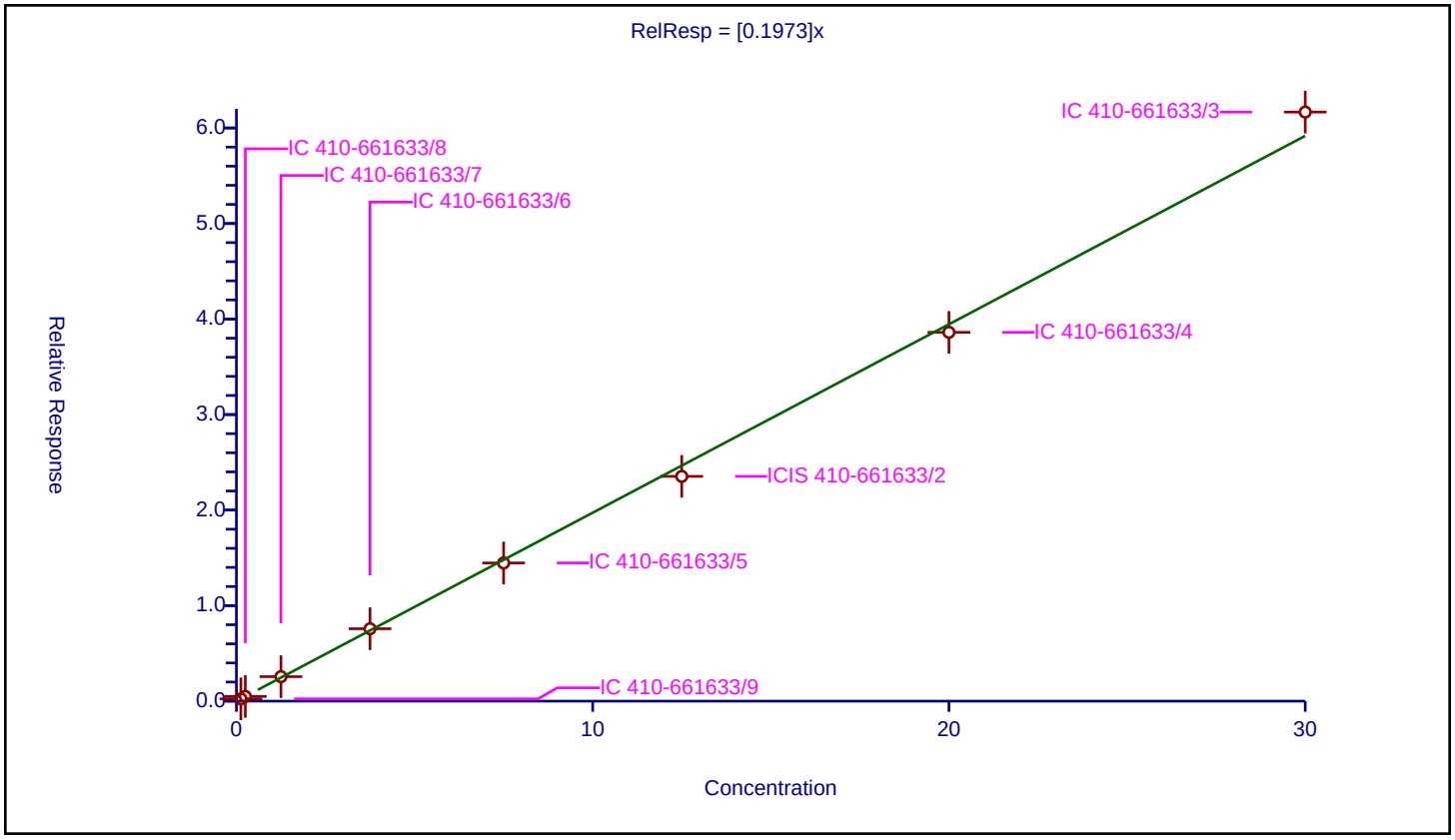
Curve Coefficients

Intercept:	0
Slope:	0.1973

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.024132	5.0	789215.0	0.193053	Y
2	IC 410-661633/8	0.25	0.049517	5.0	723592.0	0.198067	Y
3	IC 410-661633/7	1.25	0.256305	5.0	718069.0	0.205044	Y
4	IC 410-661633/6	3.75	0.75794	5.0	804213.0	0.202117	Y
5	IC 410-661633/5	7.5	1.44652	5.0	810998.0	0.192869	Y
6	ICIS 410-661633/2	12.5	2.353158	5.0	770741.0	0.188253	Y
7	IC 410-661633/4	20.0	3.860967	5.0	865212.0	0.193048	Y
8	IC 410-661633/3	30.0	6.166644	5.0	772262.0	0.205555	Y



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Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

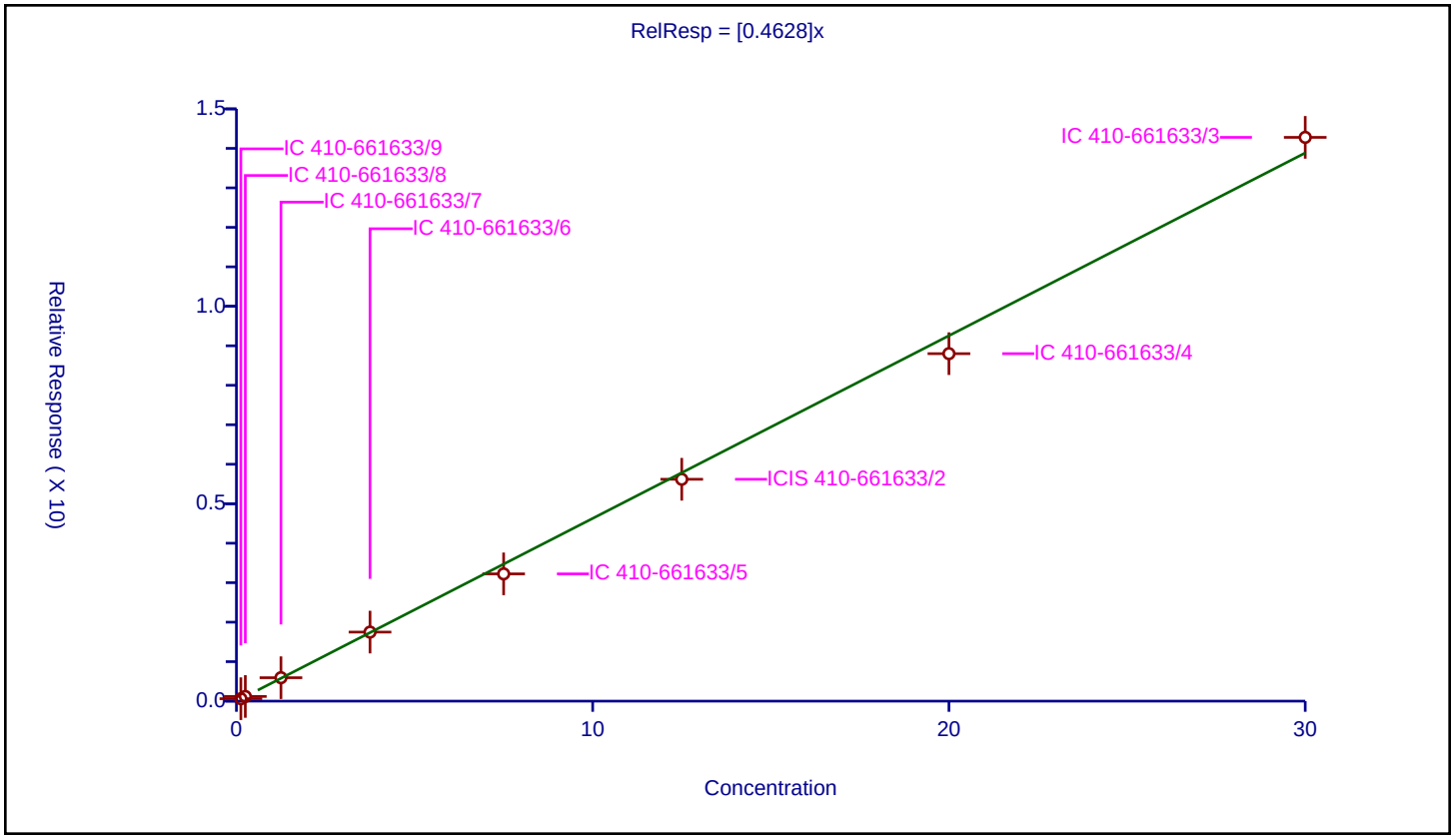
Curve Coefficients

Intercept:	0
Slope:	0.4628

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.061403	5.0	789215.0	0.491222	Y
2	IC 410-661633/8	0.25	0.118651	5.0	723592.0	0.474604	Y
3	IC 410-661633/7	1.25	0.59346	5.0	718069.0	0.474768	Y
4	IC 410-661633/6	3.75	1.749139	5.0	804213.0	0.466437	Y
5	IC 410-661633/5	7.5	3.223645	5.0	810998.0	0.429819	Y
6	ICIS 410-661633/2	12.5	5.619339	5.0	770741.0	0.449547	Y
7	IC 410-661633/4	20.0	8.801028	5.0	865212.0	0.440051	Y
8	IC 410-661633/3	30.0	14.27869	5.0	772262.0	0.475956	Y



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Calibration / 2,4-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

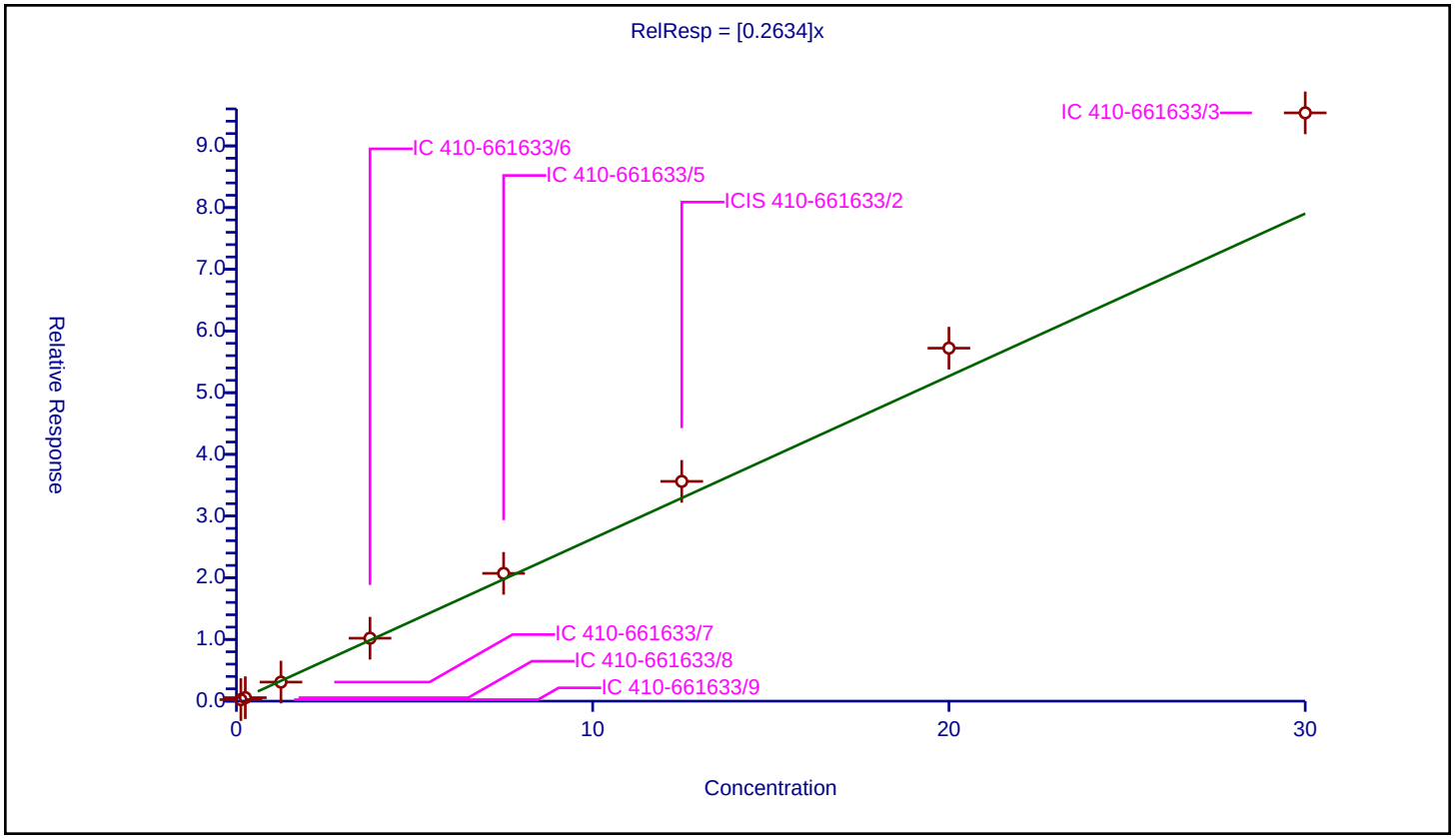
Curve Coefficients

Intercept:	0
Slope:	0.2634

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.024816	5.0	789215.0	0.198526	Y
2	IC 410-661633/8	0.25	0.056185	5.0	723592.0	0.22474	Y
3	IC 410-661633/7	1.25	0.308738	5.0	718069.0	0.24699	Y
4	IC 410-661633/6	3.75	1.019966	5.0	804213.0	0.271991	Y
5	IC 410-661633/5	7.5	2.071324	5.0	810998.0	0.276177	Y
6	ICIS 410-661633/2	12.5	3.562072	5.0	770741.0	0.284966	Y
7	IC 410-661633/4	20.0	5.722008	5.0	865212.0	0.2861	Y
8	IC 410-661633/3	30.0	9.53508	5.0	772262.0	0.317836	Y



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

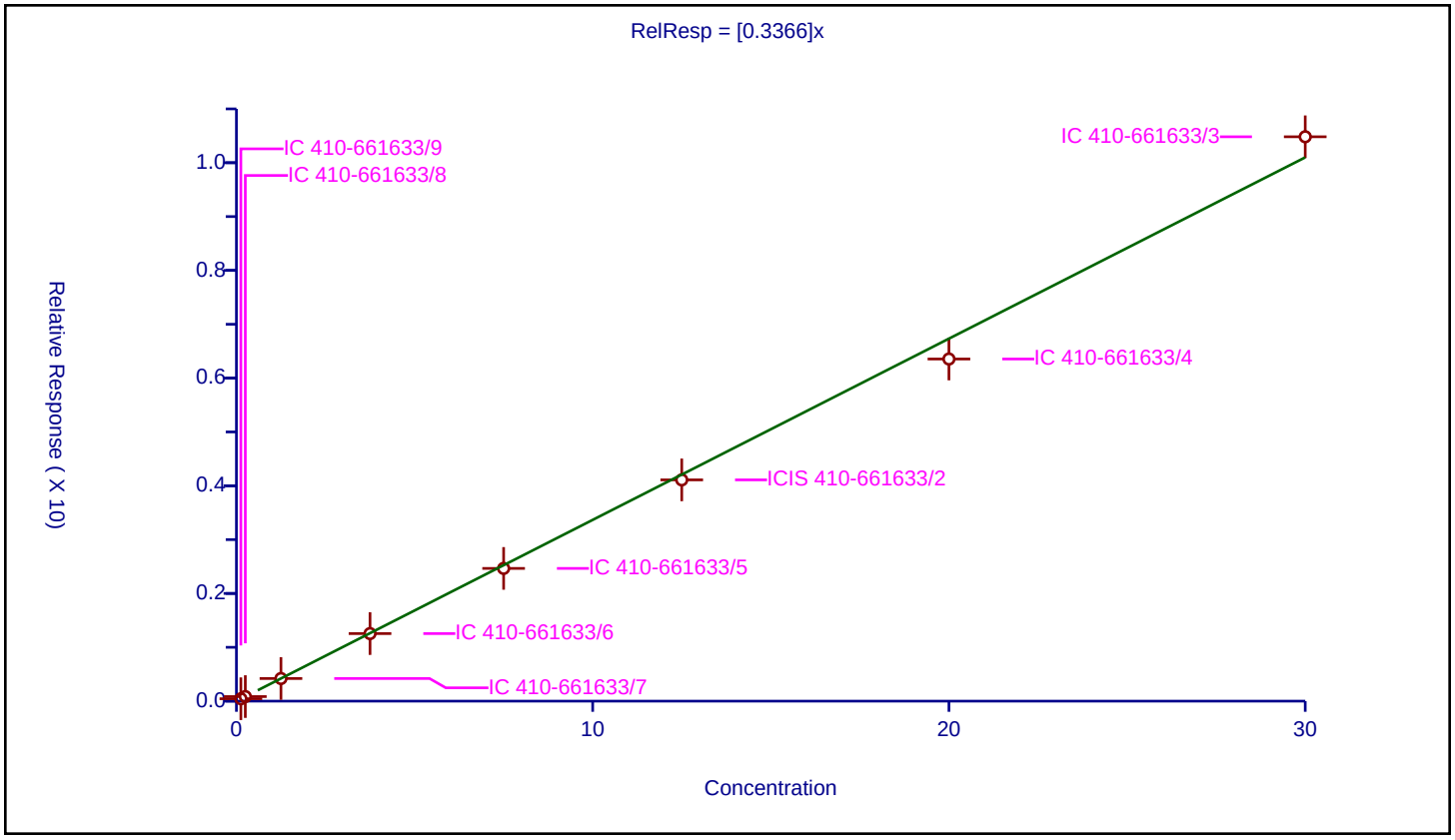
Curve Coefficients

Intercept:	0
Slope:	0.3366

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.044753	5.0	789215.0	0.358027	Y
2	IC 410-661633/8	0.25	0.08491	5.0	723592.0	0.339639	Y
3	IC 410-661633/7	1.25	0.420238	5.0	718069.0	0.336191	Y
4	IC 410-661633/6	3.75	1.254848	5.0	804213.0	0.334626	Y
5	IC 410-661633/5	7.5	2.465438	5.0	810998.0	0.328725	Y
6	ICIS 410-661633/2	12.5	4.109351	5.0	770741.0	0.328748	Y
7	IC 410-661633/4	20.0	6.354529	5.0	865212.0	0.317726	Y
8	IC 410-661633/3	30.0	10.482129	5.0	772262.0	0.349404	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

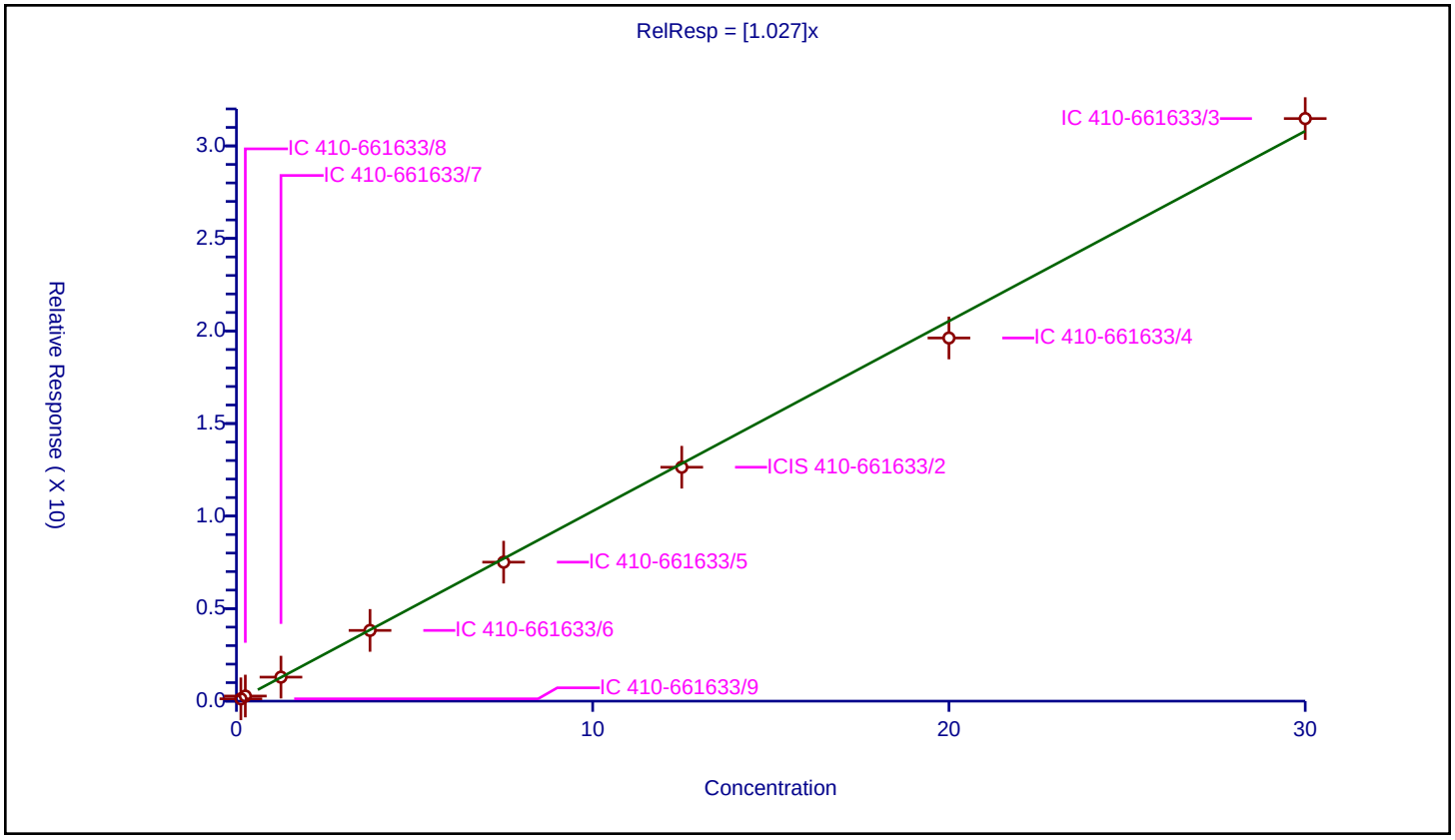
Curve Coefficients

Intercept:	0
Slope:	1.027

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.126132	5.0	789215.0	1.009053	Y
2	IC 410-661633/8	0.25	0.276109	5.0	723592.0	1.104435	Y
3	IC 410-661633/7	1.25	1.297898	5.0	718069.0	1.038318	Y
4	IC 410-661633/6	3.75	3.820959	5.0	804213.0	1.018922	Y
5	IC 410-661633/5	7.5	7.509877	5.0	810998.0	1.001317	Y
6	ICIS 410-661633/2	12.5	12.63813	5.0	770741.0	1.01105	Y
7	IC 410-661633/4	20.0	19.621607	5.0	865212.0	0.98108	Y
8	IC 410-661633/3	30.0	31.476338	5.0	772262.0	1.049211	Y



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Calibration / Alpha-Terpineol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

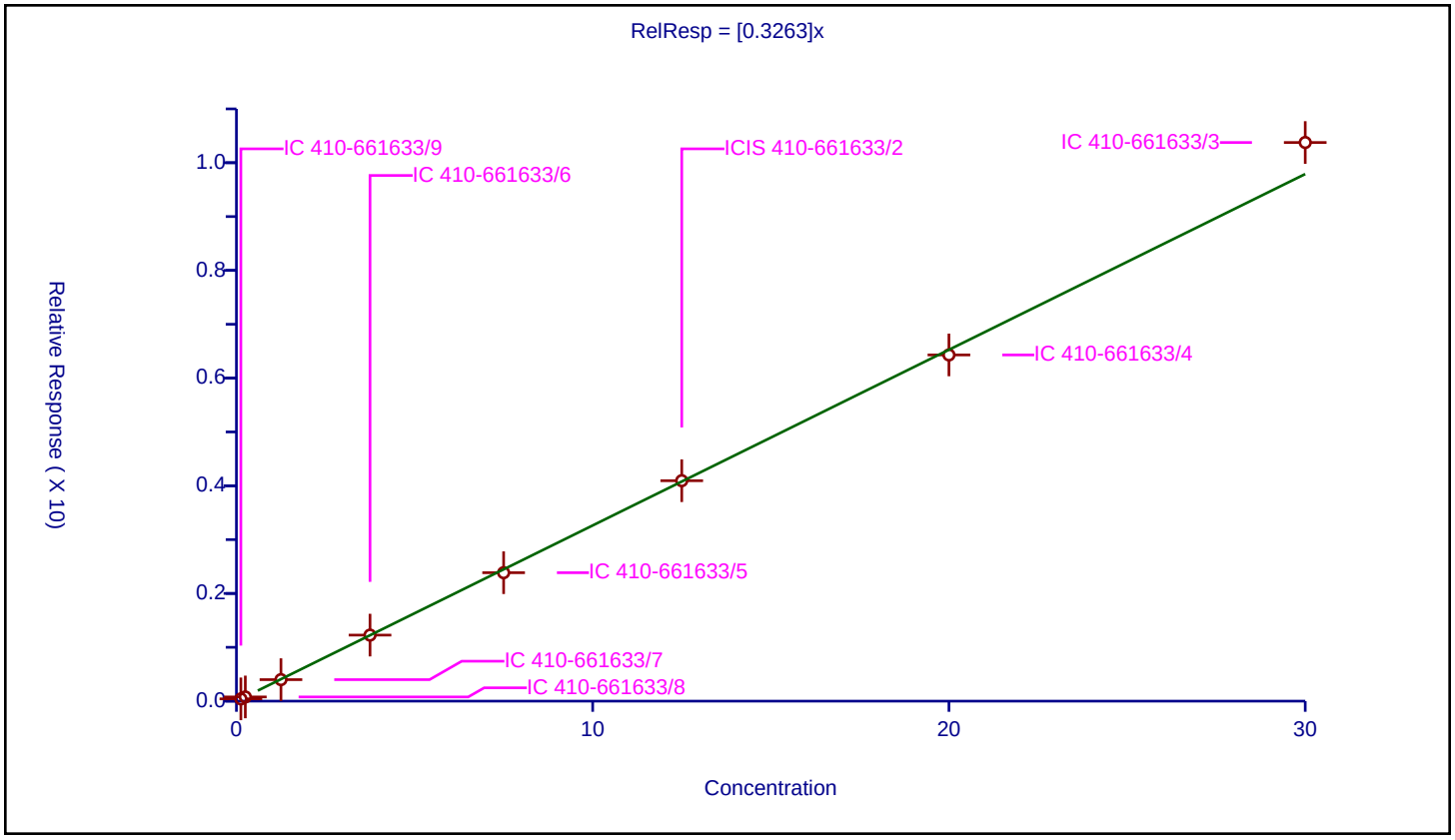
Curve Coefficients

Intercept:	0
Slope:	0.3263

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.042492	5.0	789215.0	0.339933	Y
2	IC 410-661633/8	0.25	0.07773	5.0	723592.0	0.310921	Y
3	IC 410-661633/7	1.25	0.399627	5.0	718069.0	0.319702	Y
4	IC 410-661633/6	3.75	1.226447	5.0	804213.0	0.327053	Y
5	IC 410-661633/5	7.5	2.385598	5.0	810998.0	0.31808	Y
6	ICIS 410-661633/2	12.5	4.094359	5.0	770741.0	0.327549	Y
7	IC 410-661633/4	20.0	6.429921	5.0	865212.0	0.321496	Y
8	IC 410-661633/3	30.0	10.375792	5.0	772262.0	0.34586	Y



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Calibration / 4-Chloroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

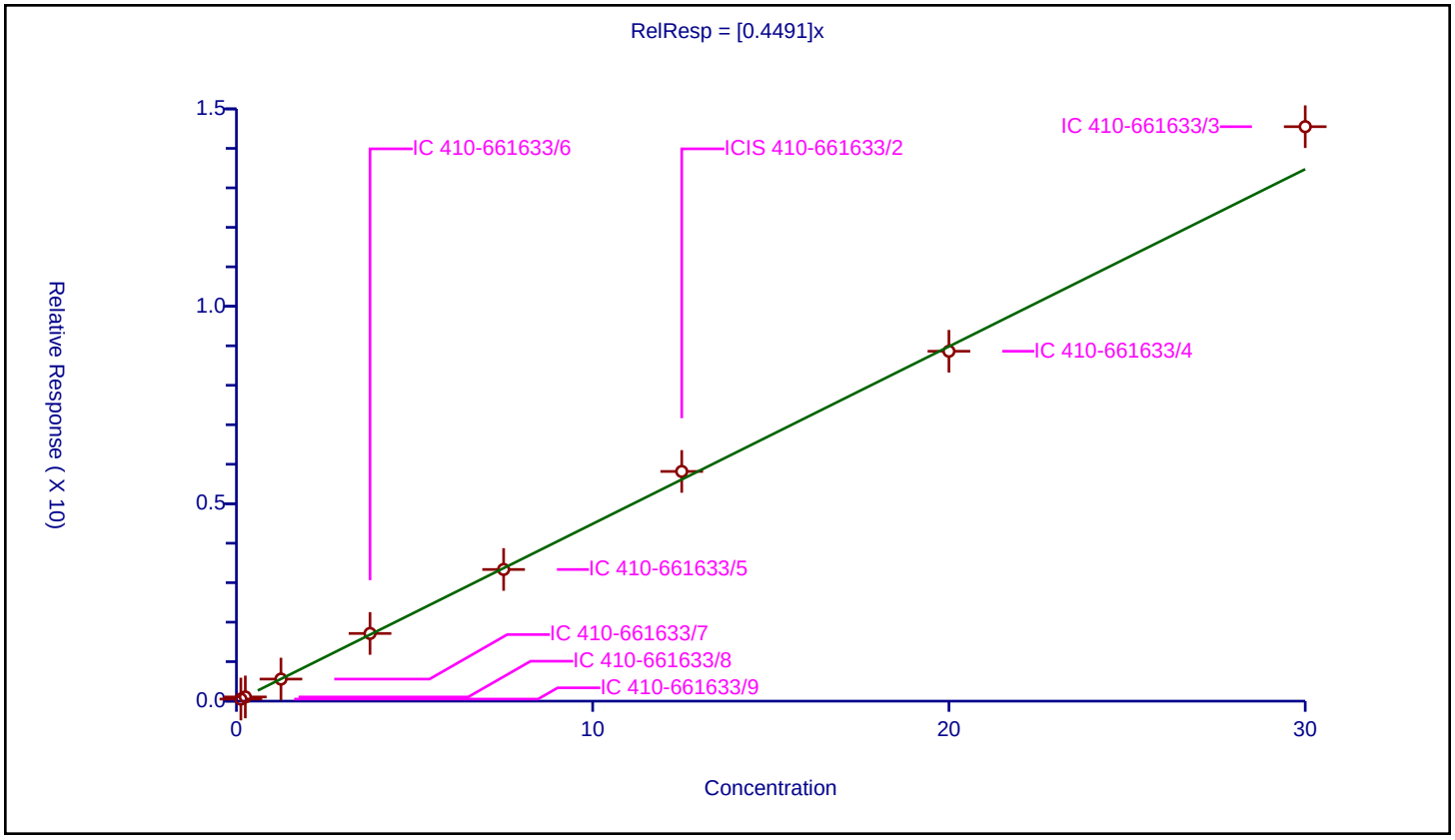
Curve Coefficients

Intercept:	0
Slope:	0.4491

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.053084	5.0	789215.0	0.424675	Y
2	IC 410-661633/8	0.25	0.106414	5.0	723592.0	0.425654	Y
3	IC 410-661633/7	1.25	0.558762	5.0	718069.0	0.44701	Y
4	IC 410-661633/6	3.75	1.714739	5.0	804213.0	0.457264	Y
5	IC 410-661633/5	7.5	3.33494	5.0	810998.0	0.444659	Y
6	ICIS 410-661633/2	12.5	5.817746	5.0	770741.0	0.46542	Y
7	IC 410-661633/4	20.0	8.861845	5.0	865212.0	0.443092	Y
8	IC 410-661633/3	30.0	14.549667	5.0	772262.0	0.484989	Y



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Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

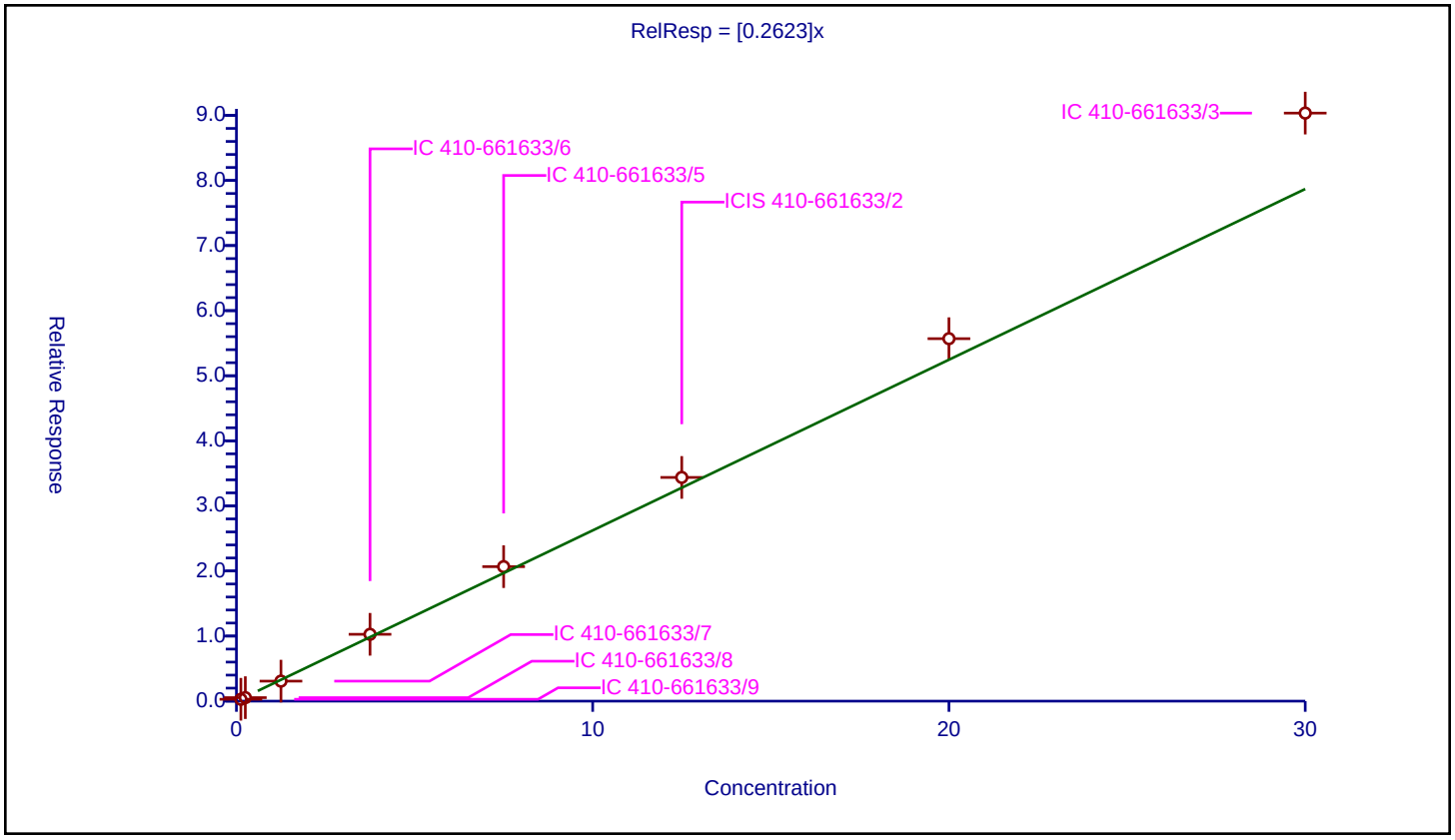
Curve Coefficients

Intercept:	0
Slope:	0.2623

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.029042	5.0	789215.0	0.232332	Y
2	IC 410-661633/8	0.25	0.053988	5.0	723592.0	0.21595	Y
3	IC 410-661633/7	1.25	0.307728	5.0	718069.0	0.246182	Y
4	IC 410-661633/6	3.75	1.026786	5.0	804213.0	0.27381	Y
5	IC 410-661633/5	7.5	2.066244	5.0	810998.0	0.275499	Y
6	ICIS 410-661633/2	12.5	3.437406	5.0	770741.0	0.274993	Y
7	IC 410-661633/4	20.0	5.569438	5.0	865212.0	0.278472	Y
8	IC 410-661633/3	30.0	9.03536	5.0	772262.0	0.301179	Y



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Calibration / Hexachloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

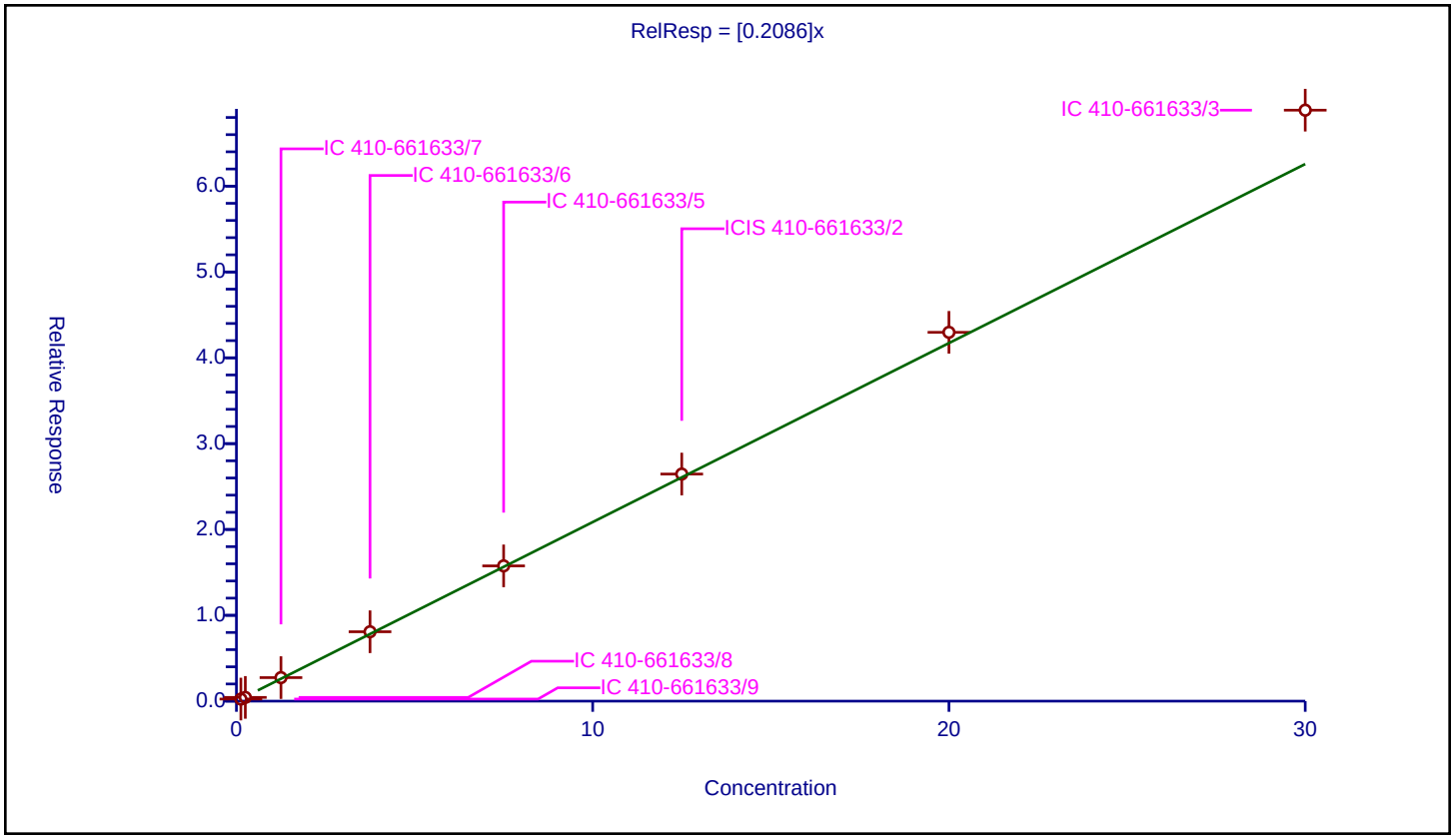
Curve Coefficients

Intercept:	0
Slope:	0.2086

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.024214	5.0	789215.0	0.193711	Y
2	IC 410-661633/8	0.25	0.043478	5.0	723592.0	0.17391	Y
3	IC 410-661633/7	1.25	0.27411	5.0	718069.0	0.219288	Y
4	IC 410-661633/6	3.75	0.808374	5.0	804213.0	0.215566	Y
5	IC 410-661633/5	7.5	1.575892	5.0	810998.0	0.210119	Y
6	ICIS 410-661633/2	12.5	2.64572	5.0	770741.0	0.211658	Y
7	IC 410-661633/4	20.0	4.296791	5.0	865212.0	0.21484	Y
8	IC 410-661633/3	30.0	6.88515	5.0	772262.0	0.229505	Y



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Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

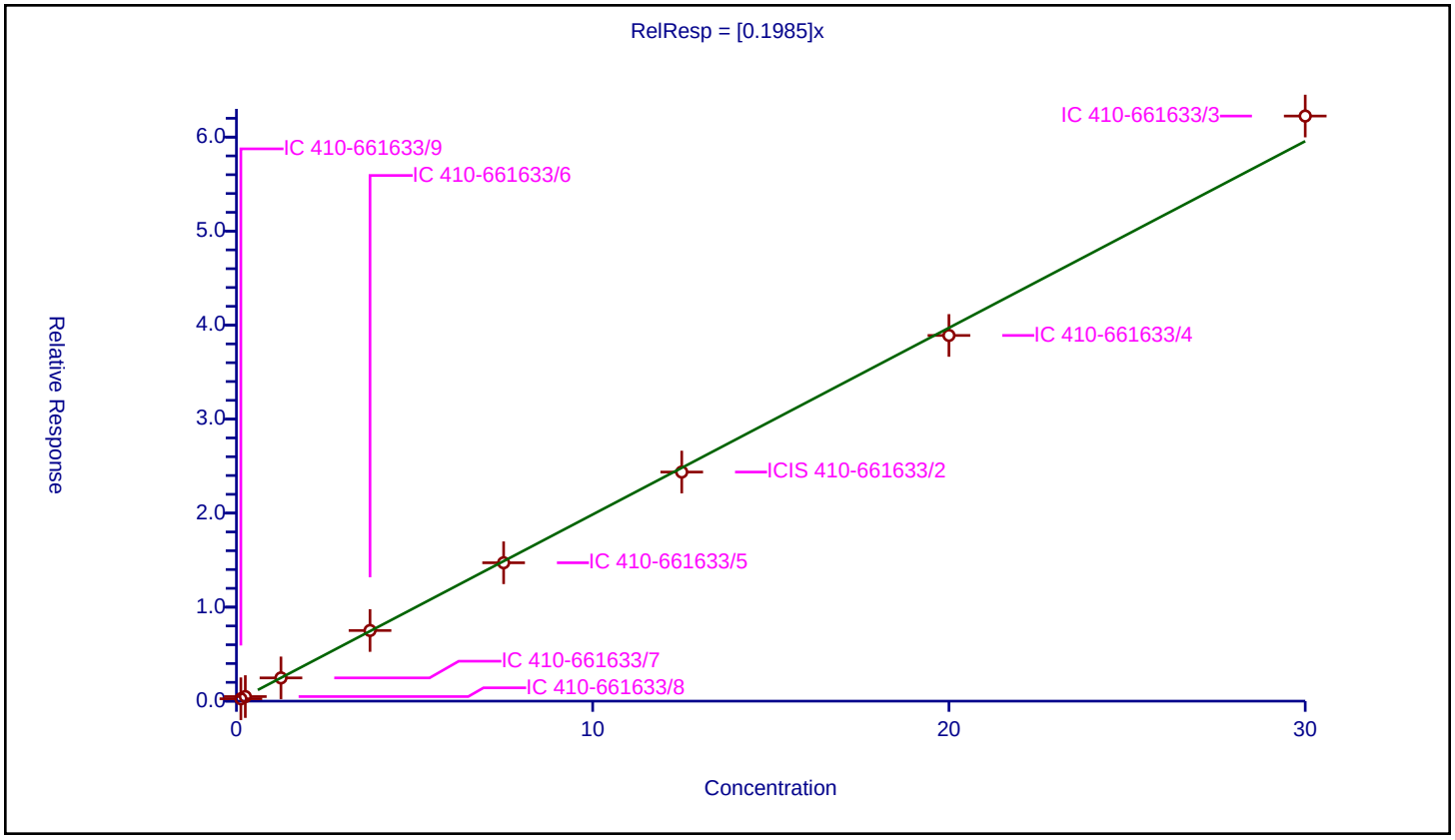
Curve Coefficients

Intercept:	0
Slope:	0.1985

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.02538	5.0	789215.0	0.203037	Y
2	IC 410-661633/8	0.25	0.048501	5.0	723592.0	0.194004	Y
3	IC 410-661633/7	1.25	0.247149	5.0	718069.0	0.197719	Y
4	IC 410-661633/6	3.75	0.751561	5.0	804213.0	0.200416	Y
5	IC 410-661633/5	7.5	1.471921	5.0	810998.0	0.196256	Y
6	ICIS 410-661633/2	12.5	2.437025	5.0	770741.0	0.194962	Y
7	IC 410-661633/4	20.0	3.890139	5.0	865212.0	0.194507	Y
8	IC 410-661633/3	30.0	6.224118	5.0	772262.0	0.207471	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

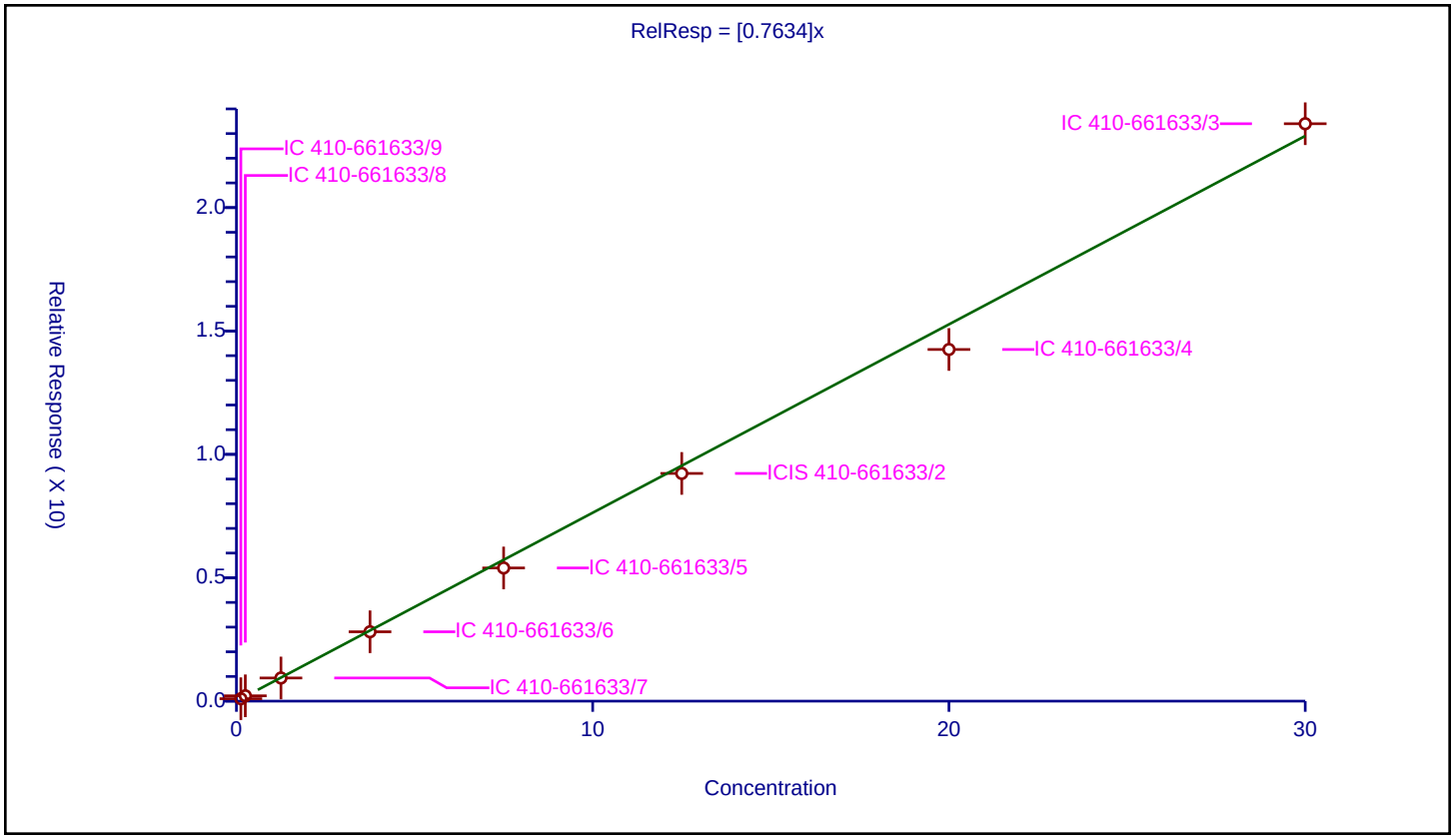
Curve Coefficients

Intercept:	0
Slope:	0.7634

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.099111	5.0	789215.0	0.792889	Y
2	IC 410-661633/8	0.25	0.215978	5.0	723592.0	0.863912	Y
3	IC 410-661633/7	1.25	0.938301	5.0	718069.0	0.750641	Y
4	IC 410-661633/6	3.75	2.810624	5.0	804213.0	0.7495	Y
5	IC 410-661633/5	7.5	5.39756	5.0	810998.0	0.719675	Y
6	ICIS 410-661633/2	12.5	9.227652	5.0	770741.0	0.738212	Y
7	IC 410-661633/4	20.0	14.250513	5.0	865212.0	0.712526	Y
8	IC 410-661633/3	30.0	23.398976	5.0	772262.0	0.779966	Y



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Calibration / Caprolactam

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

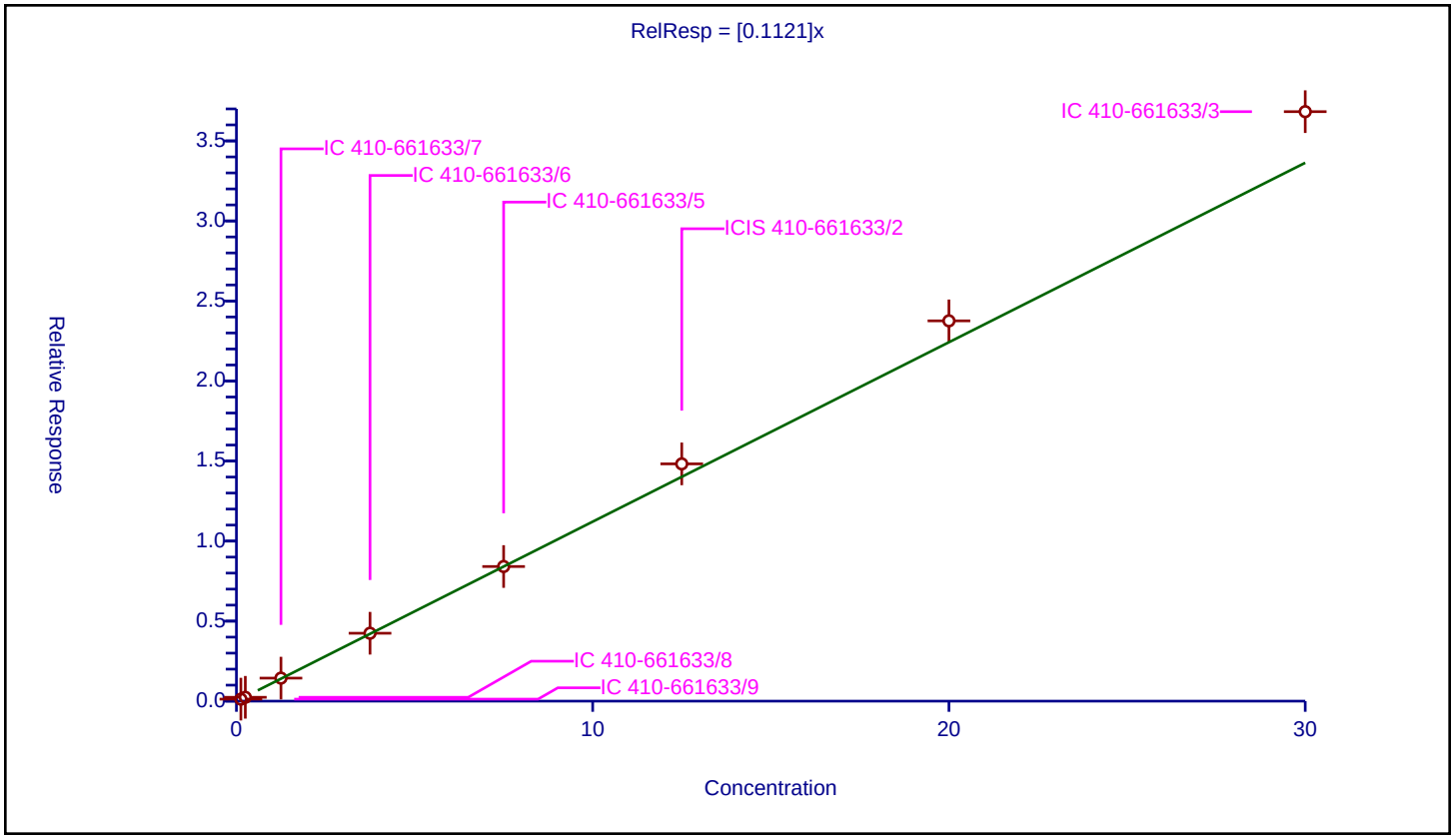
Curve Coefficients

Intercept:	0
Slope:	0.1121

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.012557	5.0	789215.0	0.100454	Y
2	IC 410-661633/8	0.25	0.023985	5.0	723592.0	0.095938	Y
3	IC 410-661633/7	1.25	0.143865	5.0	718069.0	0.115092	Y
4	IC 410-661633/6	3.75	0.424241	5.0	804213.0	0.113131	Y
5	IC 410-661633/5	7.5	0.840989	5.0	810998.0	0.112132	Y
6	ICIS 410-661633/2	12.5	1.482242	5.0	770741.0	0.118579	Y
7	IC 410-661633/4	20.0	2.375788	5.0	865212.0	0.118789	Y
8	IC 410-661633/3	30.0	3.682617	5.0	772262.0	0.122754	Y



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Calibration / N-Nitrosodi-n-butylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

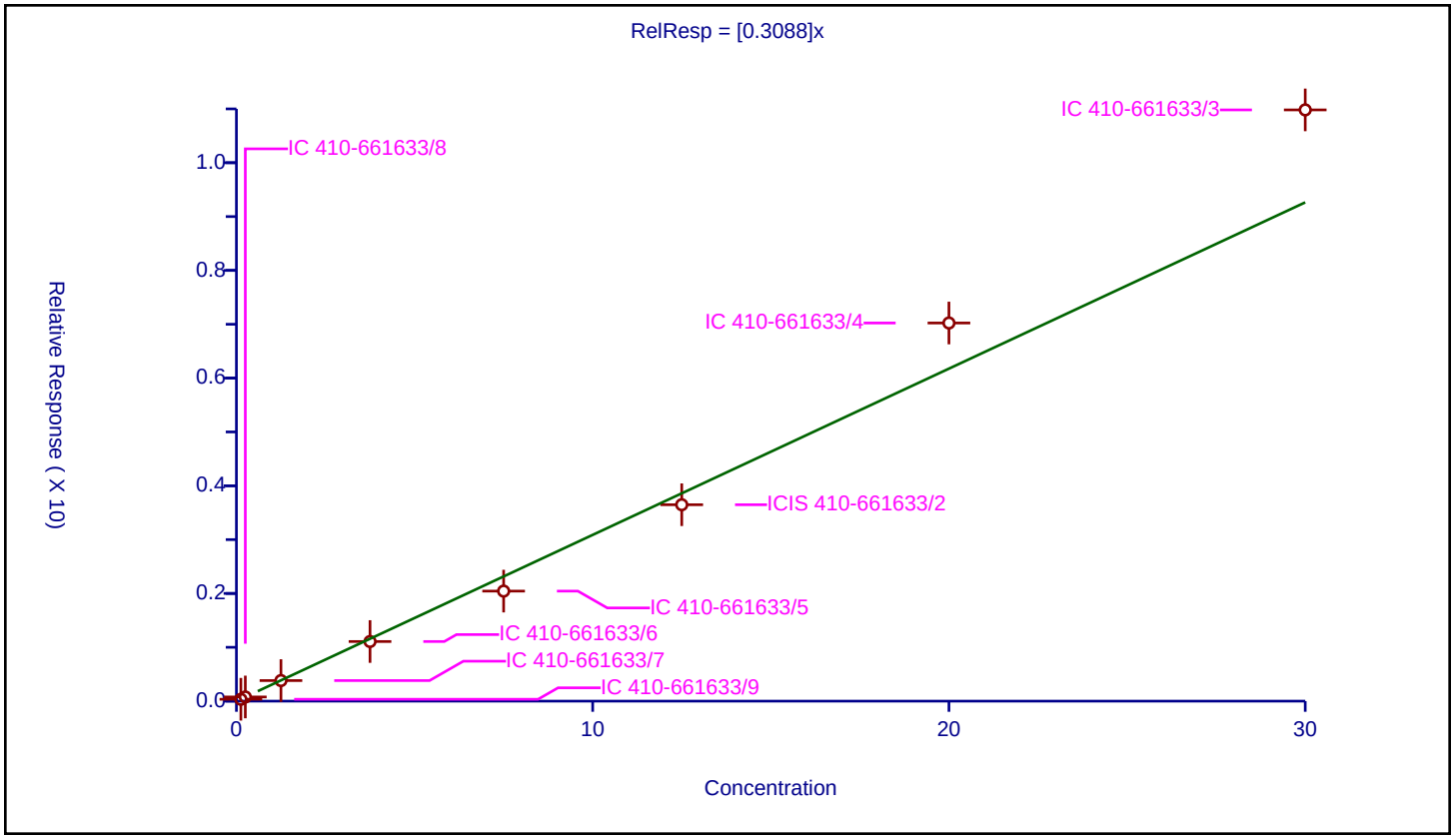
Curve Coefficients

Intercept:	0
Slope:	0.3088

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.034788	5.0	789215.0	0.278302	Y
2	IC 410-661633/8	0.25	0.077343	5.0	723592.0	0.309373	Y
3	IC 410-661633/7	1.25	0.382115	5.0	718069.0	0.305692	Y
4	IC 410-661633/6	3.75	1.107437	5.0	804213.0	0.295316	Y
5	IC 410-661633/5	7.5	2.043858	5.0	810998.0	0.272514	Y
6	ICIS 410-661633/2	12.5	3.648119	5.0	770741.0	0.29185	Y
7	IC 410-661633/4	20.0	7.023435	5.0	865212.0	0.351172	Y
8	IC 410-661633/3	30.0	10.981442	5.0	772262.0	0.366048	Y



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Calibration / p-Phenylene diamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

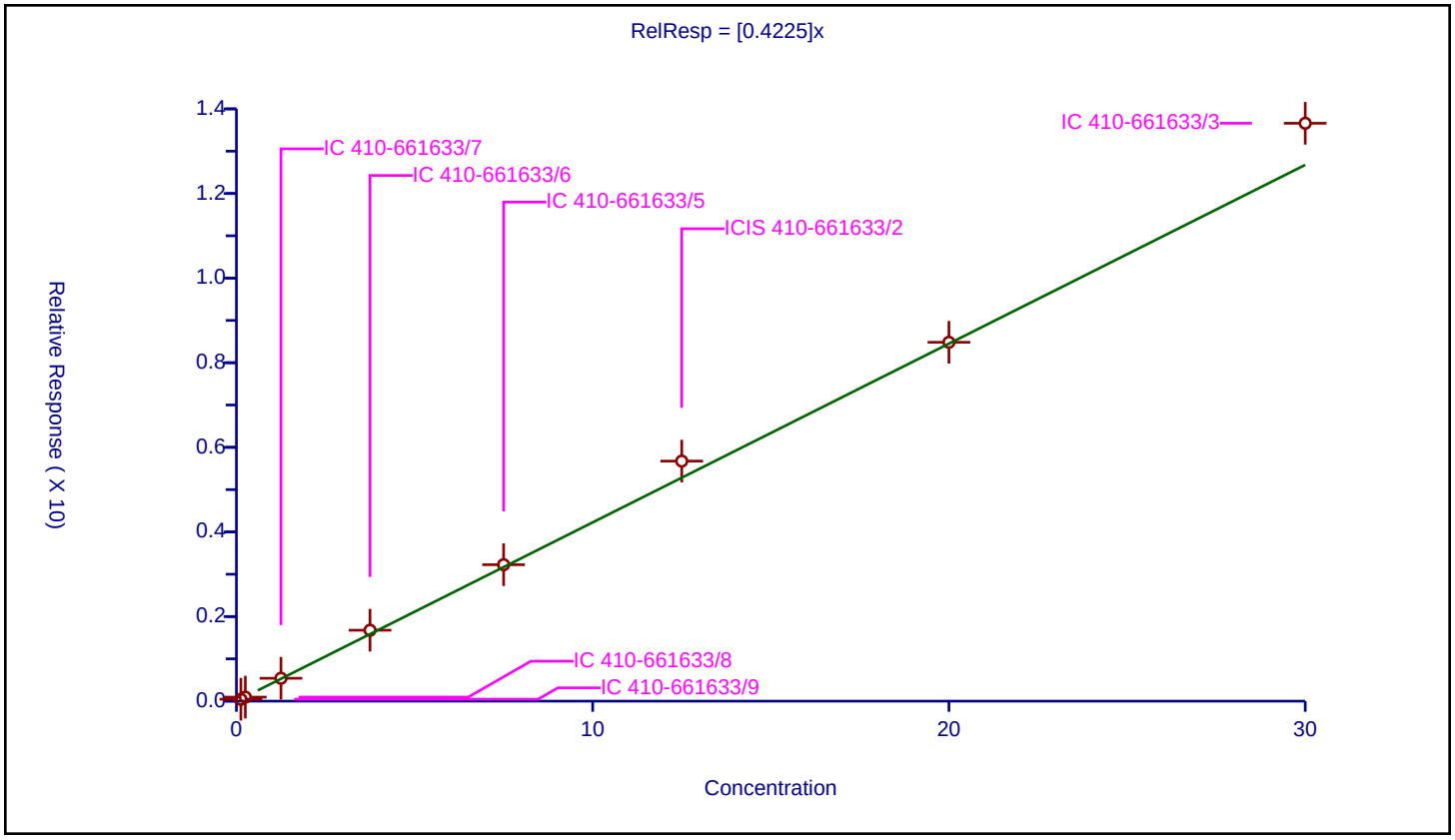
Curve Coefficients

Intercept:	0
Slope:	0.4225

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.044804	5.0	789215.0	0.358432	Y
2	IC 410-661633/8	0.25	0.094701	5.0	723592.0	0.378805	Y
3	IC 410-661633/7	1.25	0.540651	5.0	718069.0	0.432521	Y
4	IC 410-661633/6	3.75	1.676235	5.0	804213.0	0.446996	Y
5	IC 410-661633/5	7.5	3.22531	5.0	810998.0	0.430041	Y
6	ICIS 410-661633/2	12.5	5.674507	5.0	770741.0	0.453961	Y
7	IC 410-661633/4	20.0	8.482759	5.0	865212.0	0.424138	Y
8	IC 410-661633/3	30.0	13.660021	5.0	772262.0	0.455334	Y



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Calibration / 4-Chloro-3-methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

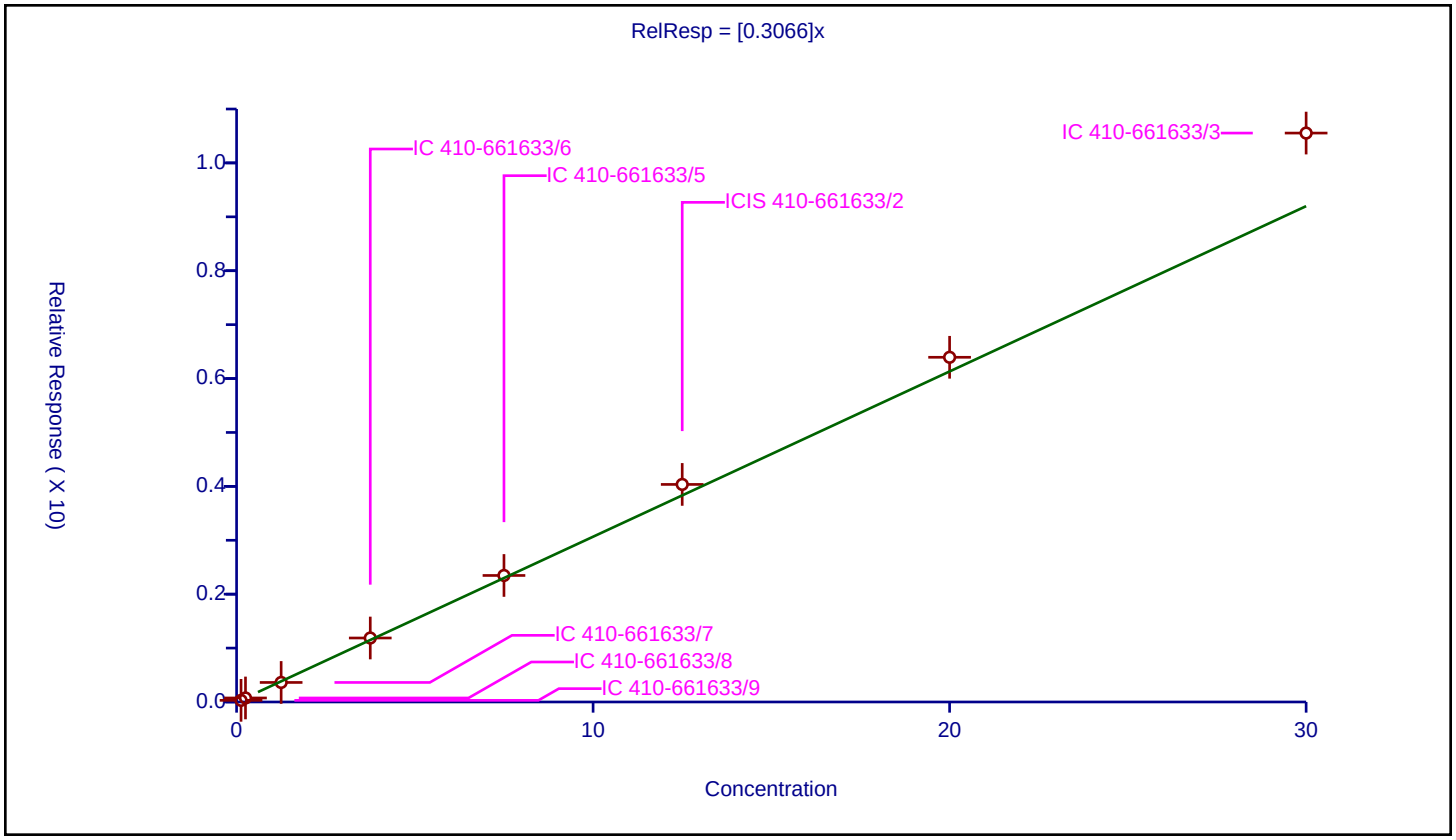
Curve Coefficients

Intercept:	0
Slope:	0.3066

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.030233	5.0	789215.0	0.241861	Y
2	IC 410-661633/8	0.25	0.074324	5.0	723592.0	0.297295	Y
3	IC 410-661633/7	1.25	0.362228	5.0	718069.0	0.289783	Y
4	IC 410-661633/6	3.75	1.186906	5.0	804213.0	0.316508	Y
5	IC 410-661633/5	7.5	2.346899	5.0	810998.0	0.31292	Y
6	ICIS 410-661633/2	12.5	4.035934	5.0	770741.0	0.322875	Y
7	IC 410-661633/4	20.0	6.394462	5.0	865212.0	0.319723	Y
8	IC 410-661633/3	30.0	10.553666	5.0	772262.0	0.351789	Y



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Calibration / Safrole, Total

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

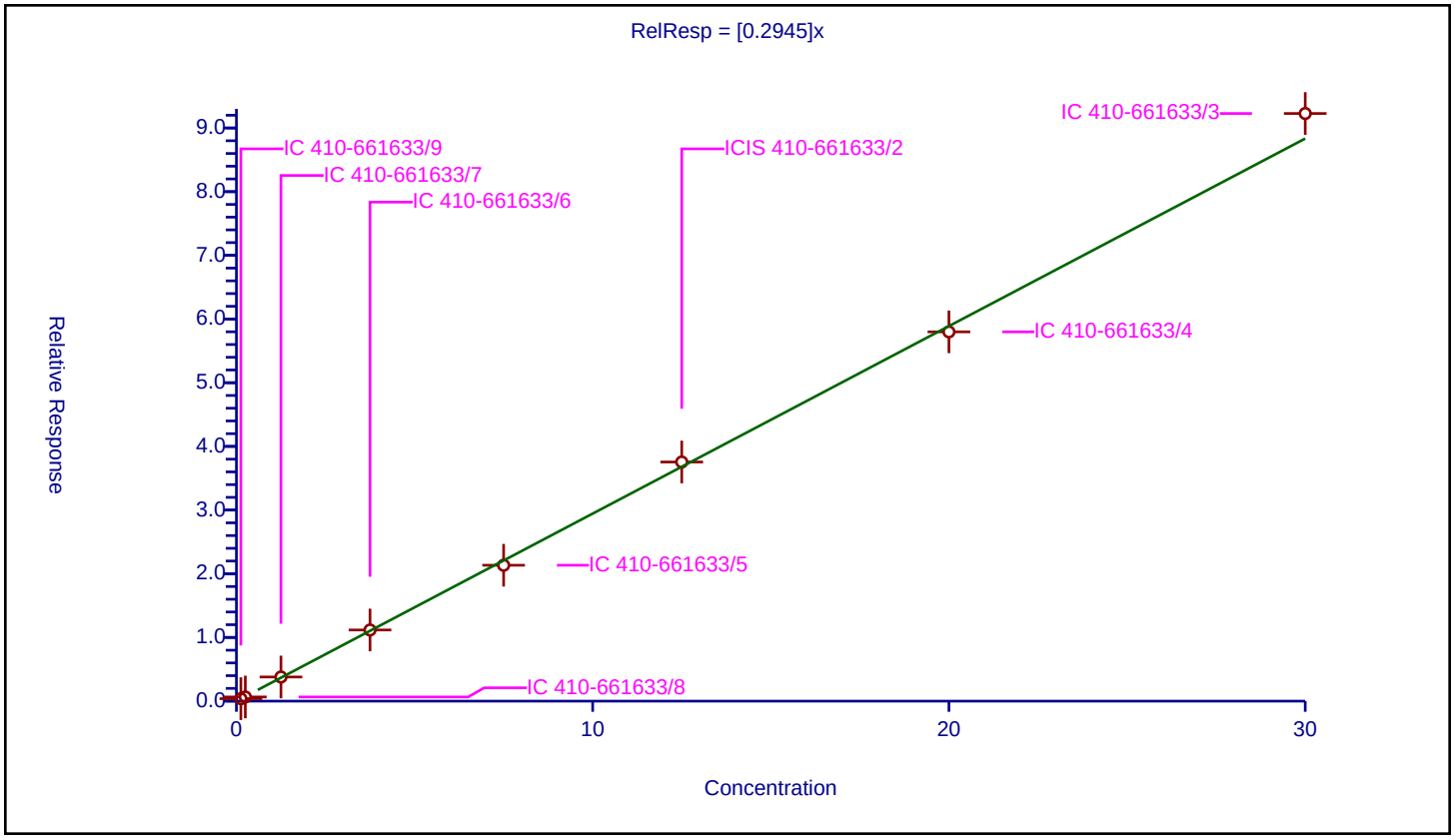
Curve Coefficients

Intercept:	0
Slope:	0.2945

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.038735	5.0	789215.0	0.309878	Y
2	IC 410-661633/8	0.25	0.065548	5.0	723592.0	0.262192	Y
3	IC 410-661633/7	1.25	0.37903	5.0	718069.0	0.303224	Y
4	IC 410-661633/6	3.75	1.117335	5.0	804213.0	0.297956	Y
5	IC 410-661633/5	7.5	2.133963	5.0	810998.0	0.284528	Y
6	ICIS 410-661633/2	12.5	3.755153	5.0	770741.0	0.300412	Y
7	IC 410-661633/4	20.0	5.798839	5.0	865212.0	0.289942	Y
8	IC 410-661633/3	30.0	9.227704	5.0	772262.0	0.30759	Y



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Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

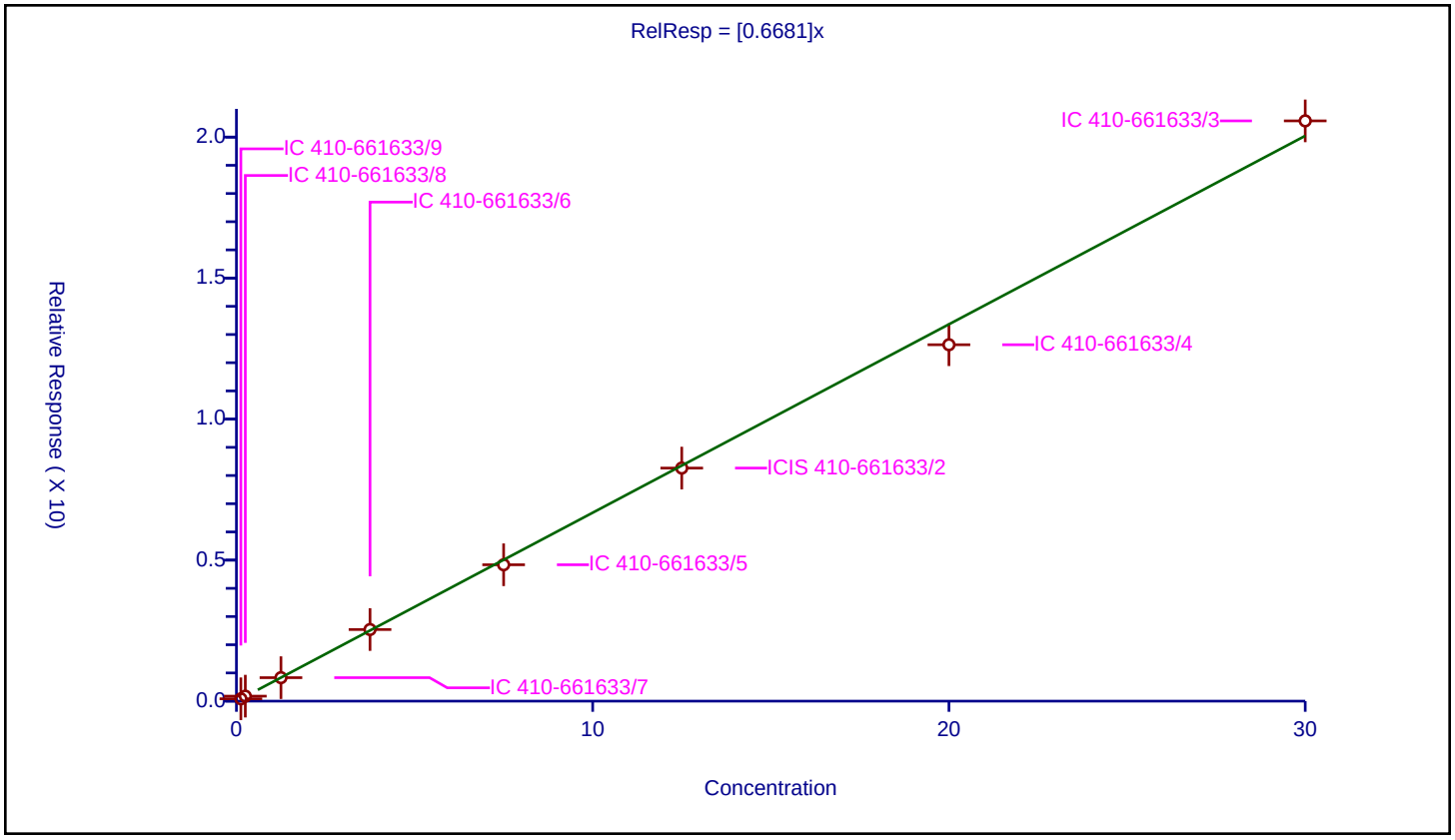
Curve Coefficients

Intercept:	0
Slope:	0.6681

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.083995	5.0	789215.0	0.671959	Y
2	IC 410-661633/8	0.25	0.176626	5.0	723592.0	0.706503	Y
3	IC 410-661633/7	1.25	0.832288	5.0	718069.0	0.66583	Y
4	IC 410-661633/6	3.75	2.539315	5.0	804213.0	0.677151	Y
5	IC 410-661633/5	7.5	4.835789	5.0	810998.0	0.644772	Y
6	ICIS 410-661633/2	12.5	8.264339	5.0	770741.0	0.661147	Y
7	IC 410-661633/4	20.0	12.637024	5.0	865212.0	0.631851	Y
8	IC 410-661633/3	30.0	20.575329	5.0	772262.0	0.685844	Y



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Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

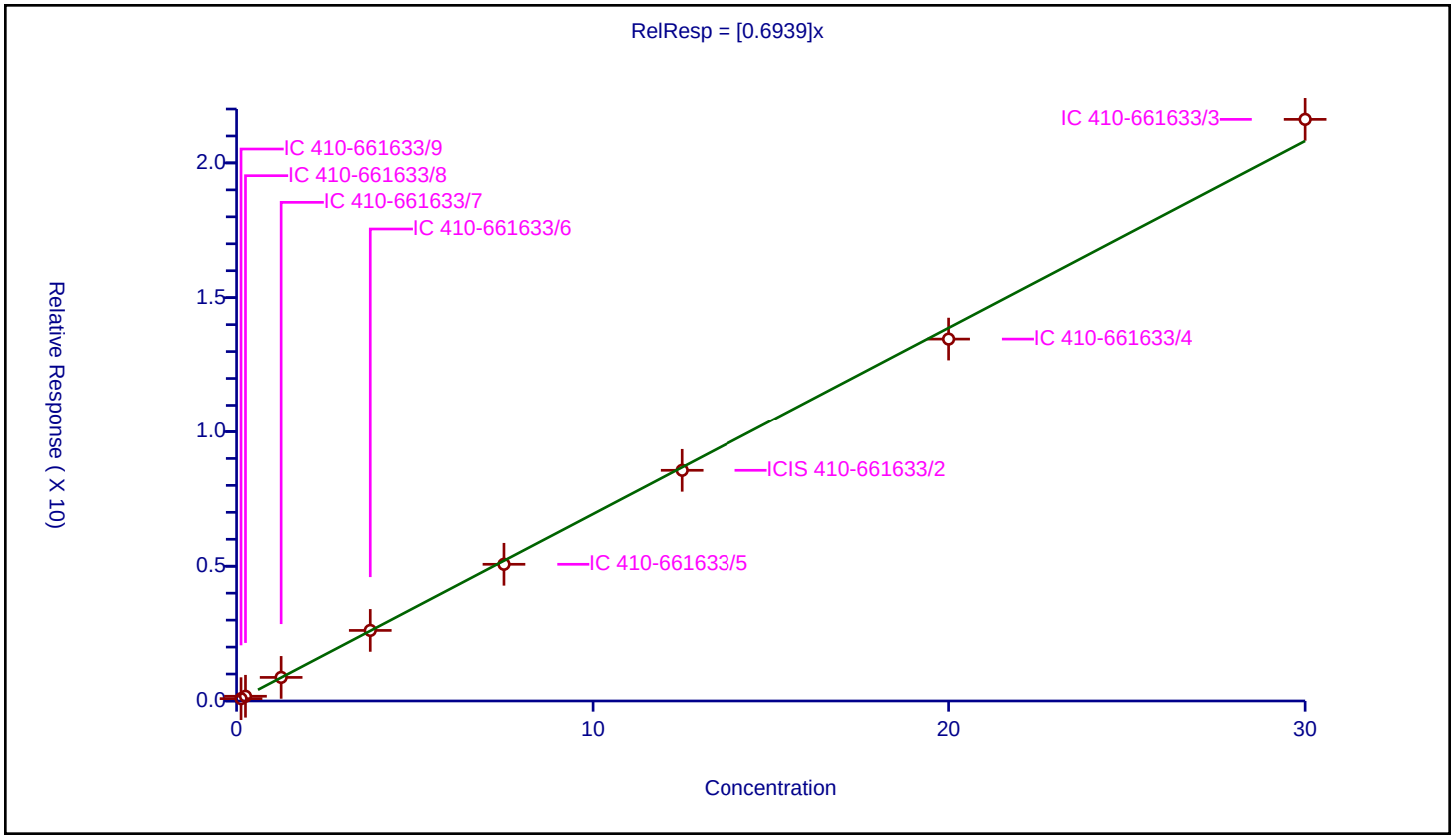
Curve Coefficients

Intercept:	0
Slope:	0.6939

Error Coefficients

Relative Standard Deviation:	2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.086877	5.0	789215.0	0.69502	Y
2	IC 410-661633/8	0.25	0.1757	5.0	723592.0	0.702799	Y
3	IC 410-661633/7	1.25	0.87502	5.0	718069.0	0.700016	Y
4	IC 410-661633/6	3.75	2.618293	5.0	804213.0	0.698211	Y
5	IC 410-661633/5	7.5	5.071967	5.0	810998.0	0.676262	Y
6	ICIS 410-661633/2	12.5	8.559756	5.0	770741.0	0.68478	Y
7	IC 410-661633/4	20.0	13.463943	5.0	865212.0	0.673197	Y
8	IC 410-661633/3	30.0	21.616427	5.0	772262.0	0.720548	Y



Calibration / Hexachlorocyclopentadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

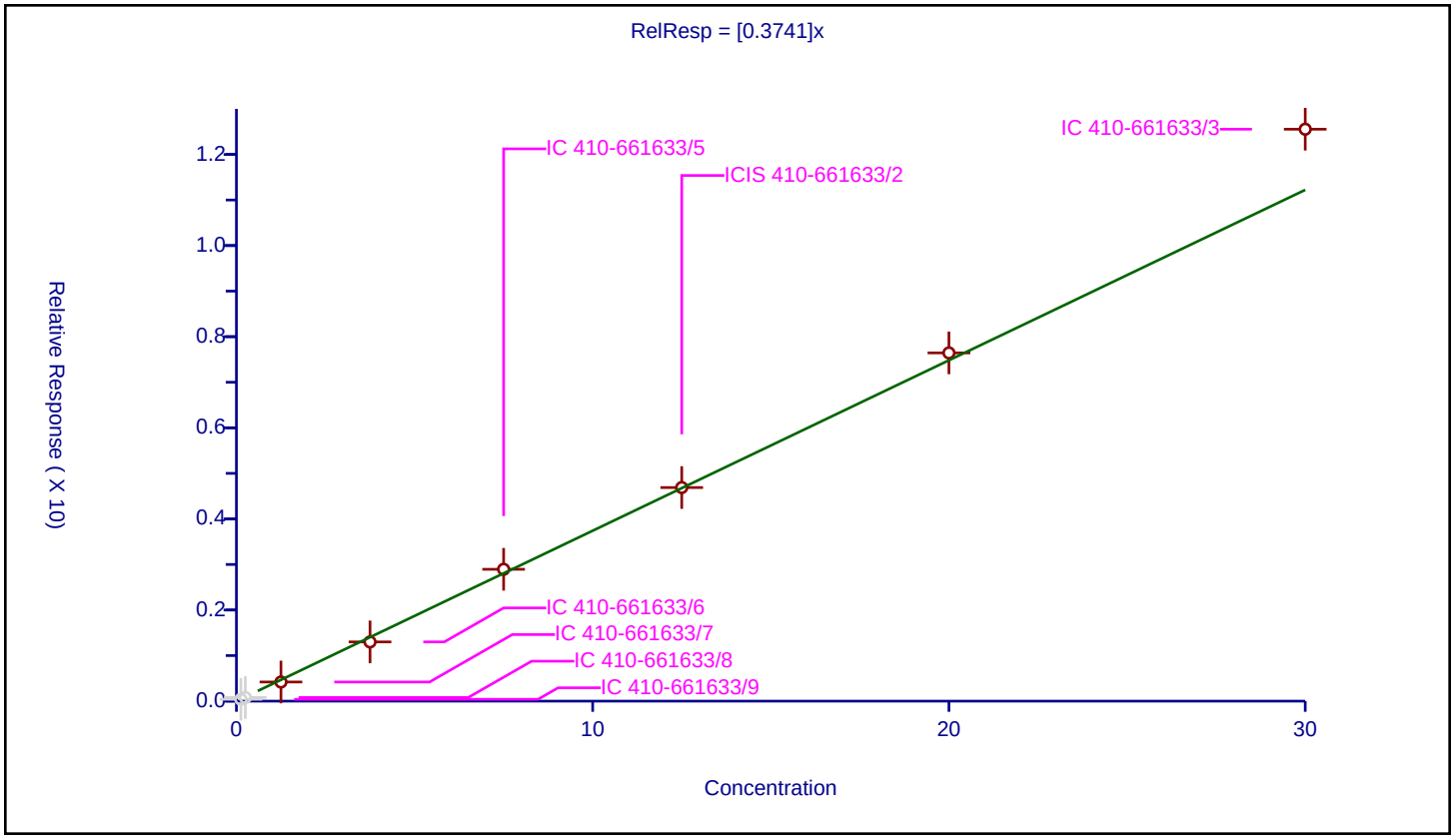
Curve Coefficients

Intercept:	0
Slope:	0.3741

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.040642	5.0	502809.0	0.325133	N
2	IC 410-661633/8	0.25	0.079569	5.0	472984.0	0.318277	N
3	IC 410-661633/7	1.25	0.420215	5.0	475519.0	0.336172	Y
4	IC 410-661633/6	3.75	1.299927	5.0	534976.0	0.346647	Y
5	IC 410-661633/5	7.5	2.894157	5.0	505071.0	0.385888	Y
6	ICIS 410-661633/2	12.5	4.688663	5.0	500342.0	0.375093	Y
7	IC 410-661633/4	20.0	7.644069	5.0	552270.0	0.382203	Y
8	IC 410-661633/3	30.0	12.553864	5.0	492767.0	0.418462	Y



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Calibration / 1,2,4,5-Tetrachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

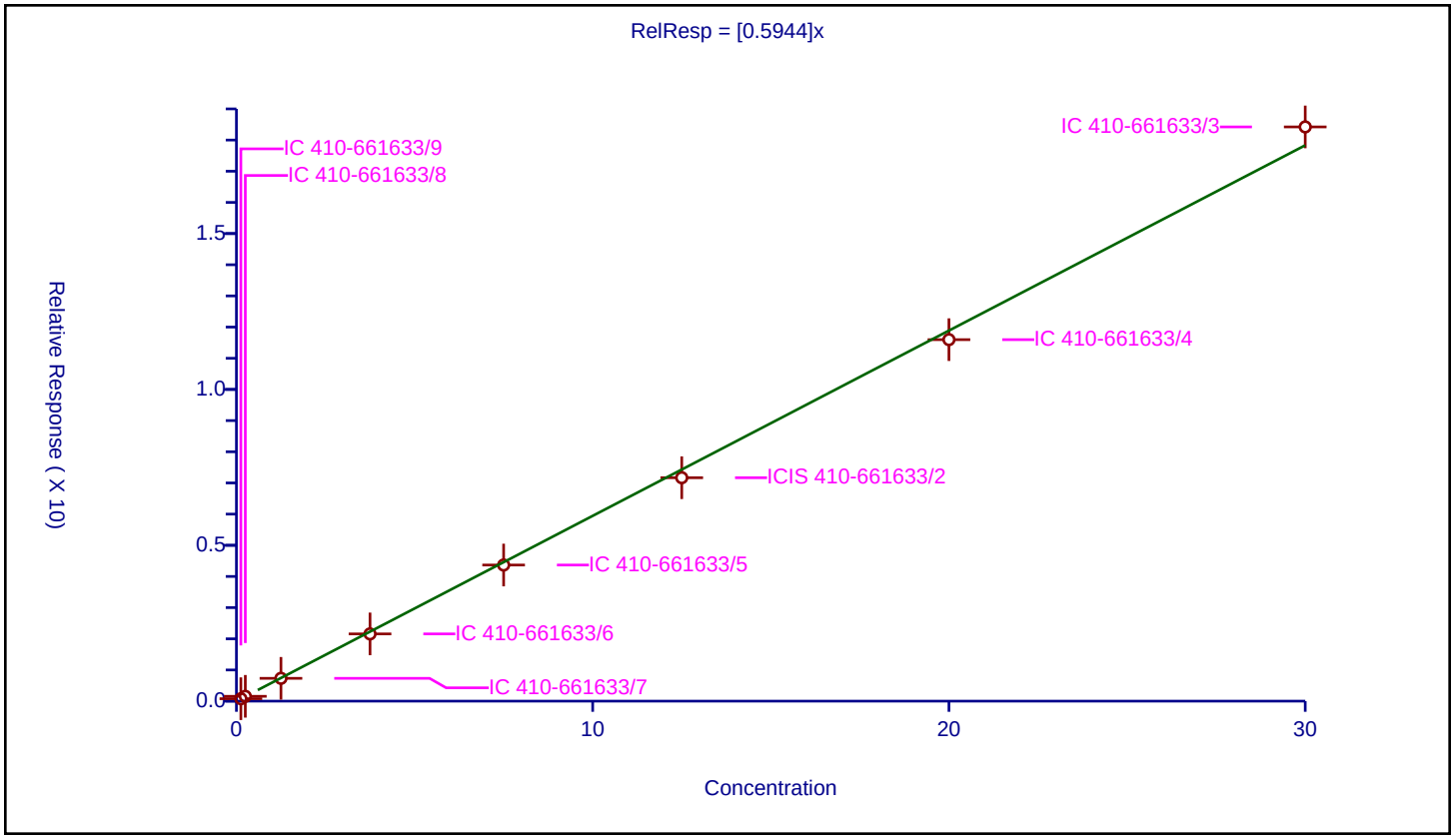
Curve Coefficients

Intercept:	0
Slope:	0.5944

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.078221	5.0	502809.0	0.625764	Y
2	IC 410-661633/8	0.25	0.154678	5.0	472984.0	0.61871	Y
3	IC 410-661633/7	1.25	0.73221	5.0	475519.0	0.585768	Y
4	IC 410-661633/6	3.75	2.157405	5.0	534976.0	0.575308	Y
5	IC 410-661633/5	7.5	4.366921	5.0	505071.0	0.582256	Y
6	ICIS 410-661633/2	12.5	7.167497	5.0	500342.0	0.5734	Y
7	IC 410-661633/4	20.0	11.597416	5.0	552270.0	0.579871	Y
8	IC 410-661633/3	30.0	18.421303	5.0	492767.0	0.614043	Y



Calibration / Isosafrole Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

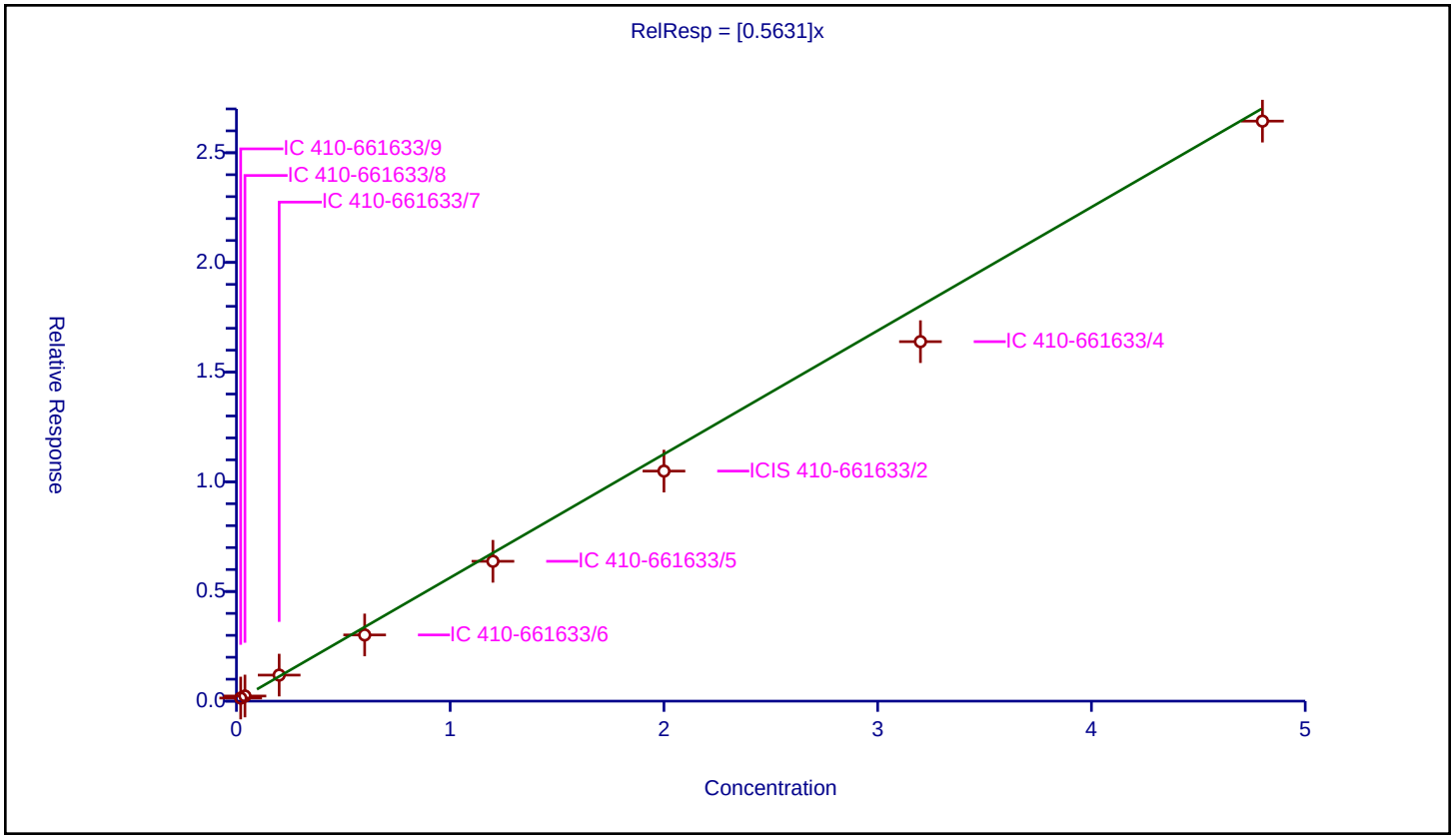
Curve Coefficients

Intercept:	0
Slope:	0.5631

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.02	0.014101	5.0	502809.0	0.705039	Y
2	IC 410-661633/8	0.04	0.023373	5.0	472984.0	0.584322	Y
3	IC 410-661633/7	0.2	0.118691	5.0	475519.0	0.593457	Y
4	IC 410-661633/6	0.6	0.301761	5.0	534976.0	0.502935	Y
5	IC 410-661633/5	1.2	0.637485	5.0	505071.0	0.531237	Y
6	ICIS 410-661633/2	2.0	1.048783	5.0	500342.0	0.524391	Y
7	IC 410-661633/4	3.2	1.63889	5.0	552270.0	0.512153	Y
8	IC 410-661633/3	4.8	2.644302	5.0	492767.0	0.550896	Y



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Calibration / 2,4,6-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

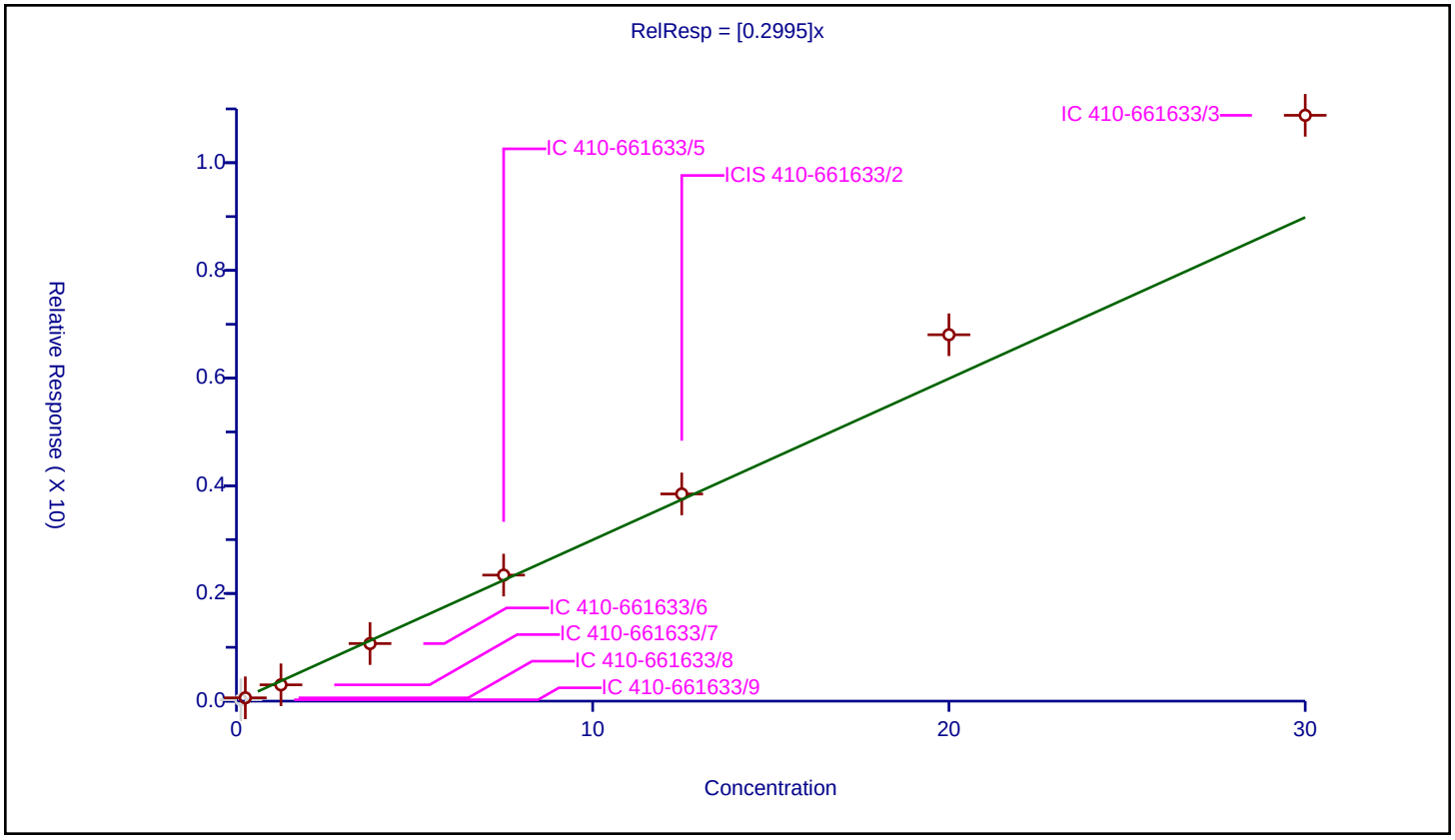
Curve Coefficients

Intercept:	0
Slope:	0.2995

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.025934	5.0	502809.0	0.207474	N
2	IC 410-661633/8	0.25	0.061577	5.0	472984.0	0.246309	Y
3	IC 410-661633/7	1.25	0.30289	5.0	475519.0	0.242312	Y
4	IC 410-661633/6	3.75	1.069048	5.0	534976.0	0.285079	Y
5	IC 410-661633/5	7.5	2.340918	5.0	505071.0	0.312122	Y
6	ICIS 410-661633/2	12.5	3.848238	5.0	500342.0	0.307859	Y
7	IC 410-661633/4	20.0	6.805204	5.0	552270.0	0.34026	Y
8	IC 410-661633/3	30.0	10.880822	5.0	492767.0	0.362694	Y



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Calibration / 2,4,5-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

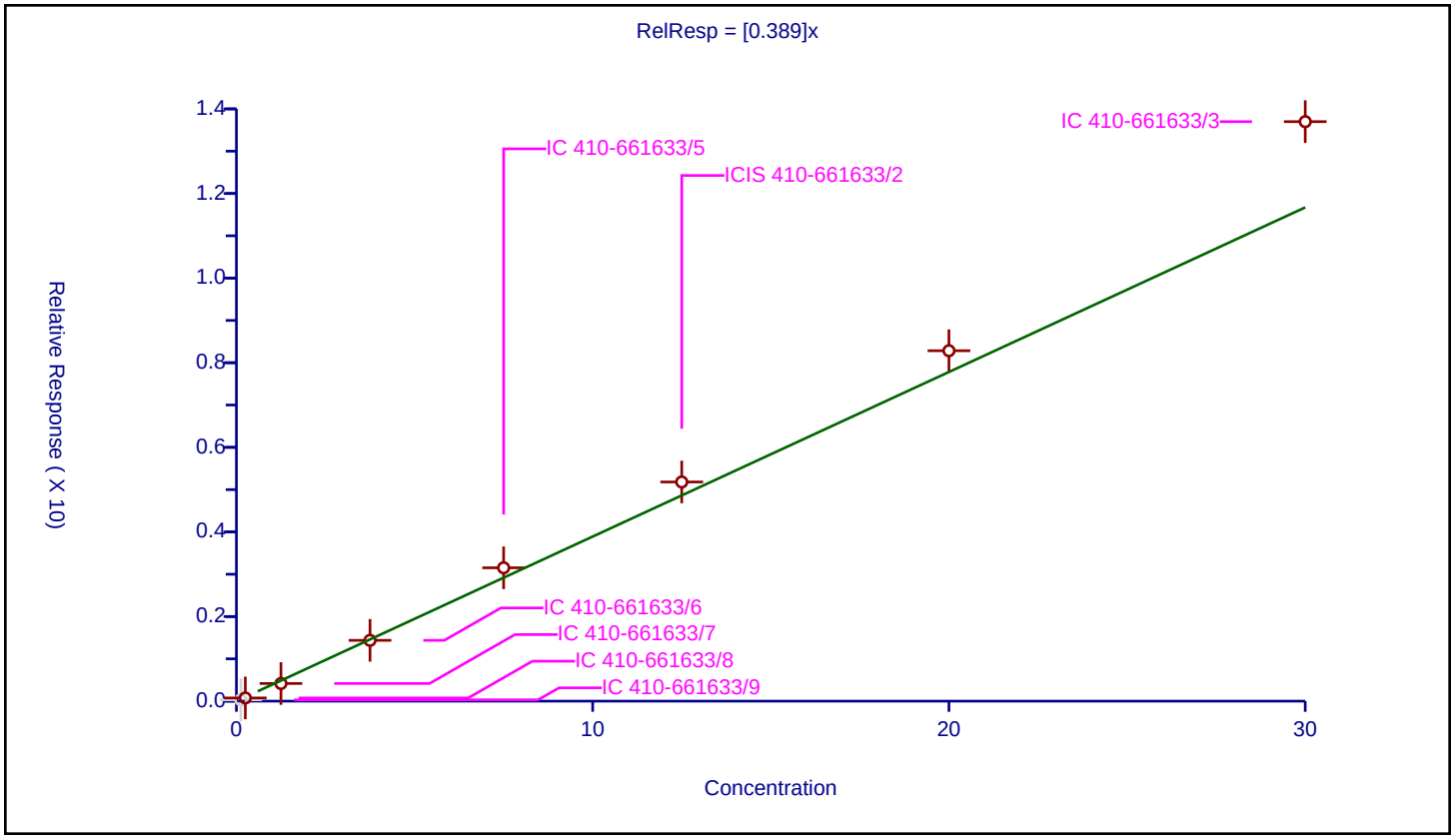
Curve Coefficients

Intercept:	0
Slope:	0.389

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.030519	5.0	502809.0	0.244148	N
2	IC 410-661633/8	0.25	0.075214	5.0	472984.0	0.300856	Y
3	IC 410-661633/7	1.25	0.417102	5.0	475519.0	0.333682	Y
4	IC 410-661633/6	3.75	1.437298	5.0	534976.0	0.383279	Y
5	IC 410-661633/5	7.5	3.151785	5.0	505071.0	0.420238	Y
6	ICIS 410-661633/2	12.5	5.180896	5.0	500342.0	0.414472	Y
7	IC 410-661633/4	20.0	8.28305	5.0	552270.0	0.414152	Y
8	IC 410-661633/3	30.0	13.698107	5.0	492767.0	0.456604	Y



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Calibration / 2-Fluorobiphenyl (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

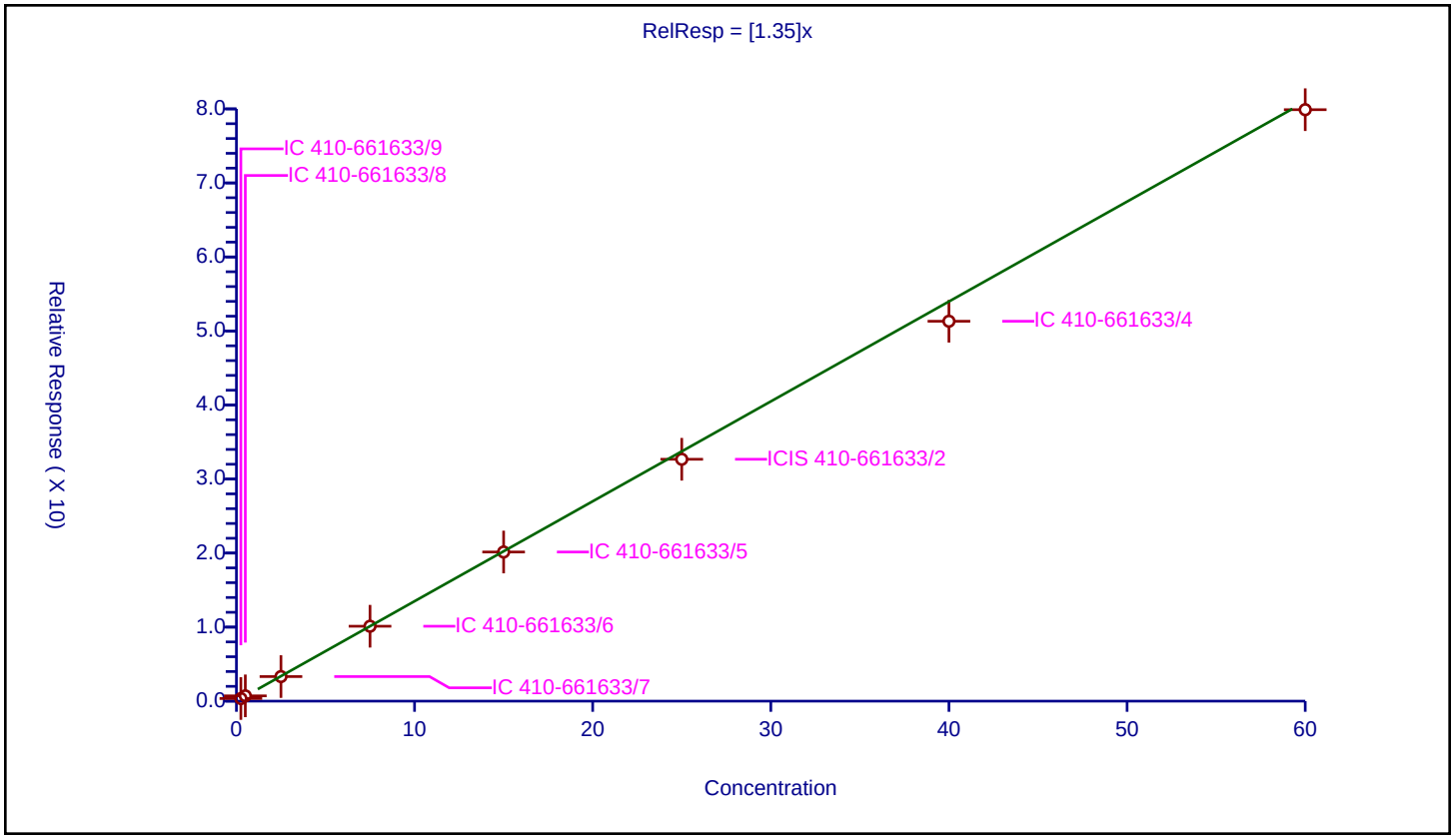
Curve Coefficients

Intercept:	0
Slope:	1.35

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.35592	5.0	502809.0	1.423682	Y
2	IC 410-661633/8	0.5	0.715775	5.0	472984.0	1.431549	Y
3	IC 410-661633/7	2.5	3.3187	5.0	475519.0	1.32748	Y
4	IC 410-661633/6	7.5	10.118716	5.0	534976.0	1.349162	Y
5	IC 410-661633/5	15.0	20.145386	5.0	505071.0	1.343026	Y
6	ICIS 410-661633/2	25.0	32.670793	5.0	500342.0	1.306832	Y
7	IC 410-661633/4	40.0	51.316928	5.0	552270.0	1.282923	Y
8	IC 410-661633/3	60.0	79.890912	5.0	492767.0	1.331515	Y



Calibration / Isosafrole Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

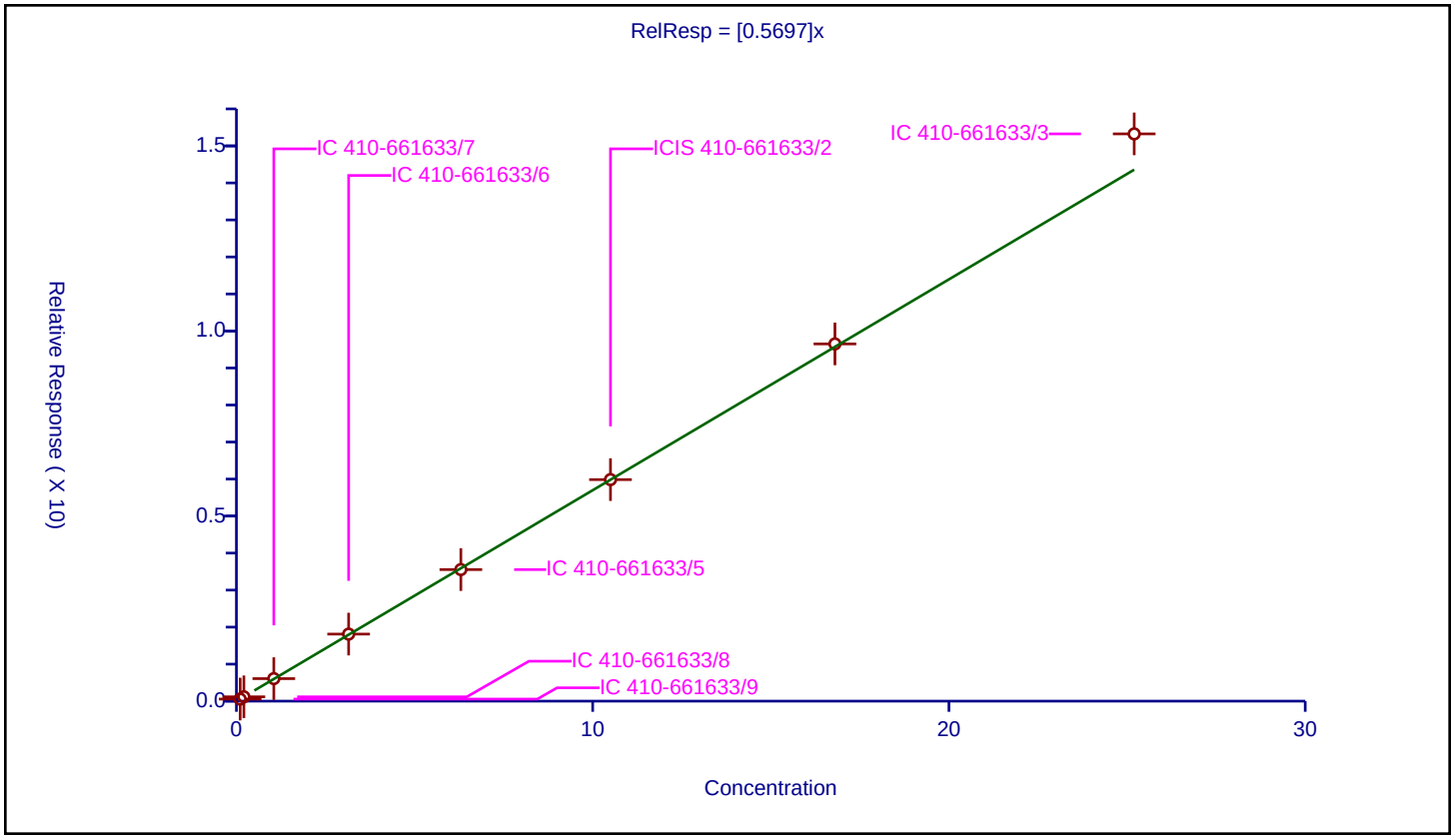
Curve Coefficients

Intercept:	0
Slope:	0.5697

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.105	0.055538	5.0	502809.0	0.528933	Y
2	IC 410-661633/8	0.21	0.117086	5.0	472984.0	0.557554	Y
3	IC 410-661633/7	1.05	0.608546	5.0	475519.0	0.579567	Y
4	IC 410-661633/6	3.15	1.811212	5.0	534976.0	0.574988	Y
5	IC 410-661633/5	6.3	3.553995	5.0	505071.0	0.564126	Y
6	ICIS 410-661633/2	10.5	5.984846	5.0	500342.0	0.569985	Y
7	IC 410-661633/4	16.8	9.651131	5.0	552270.0	0.574472	Y
8	IC 410-661633/3	25.2	15.32487	5.0	492767.0	0.60813	Y



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Calibration / 1,1'-Biphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

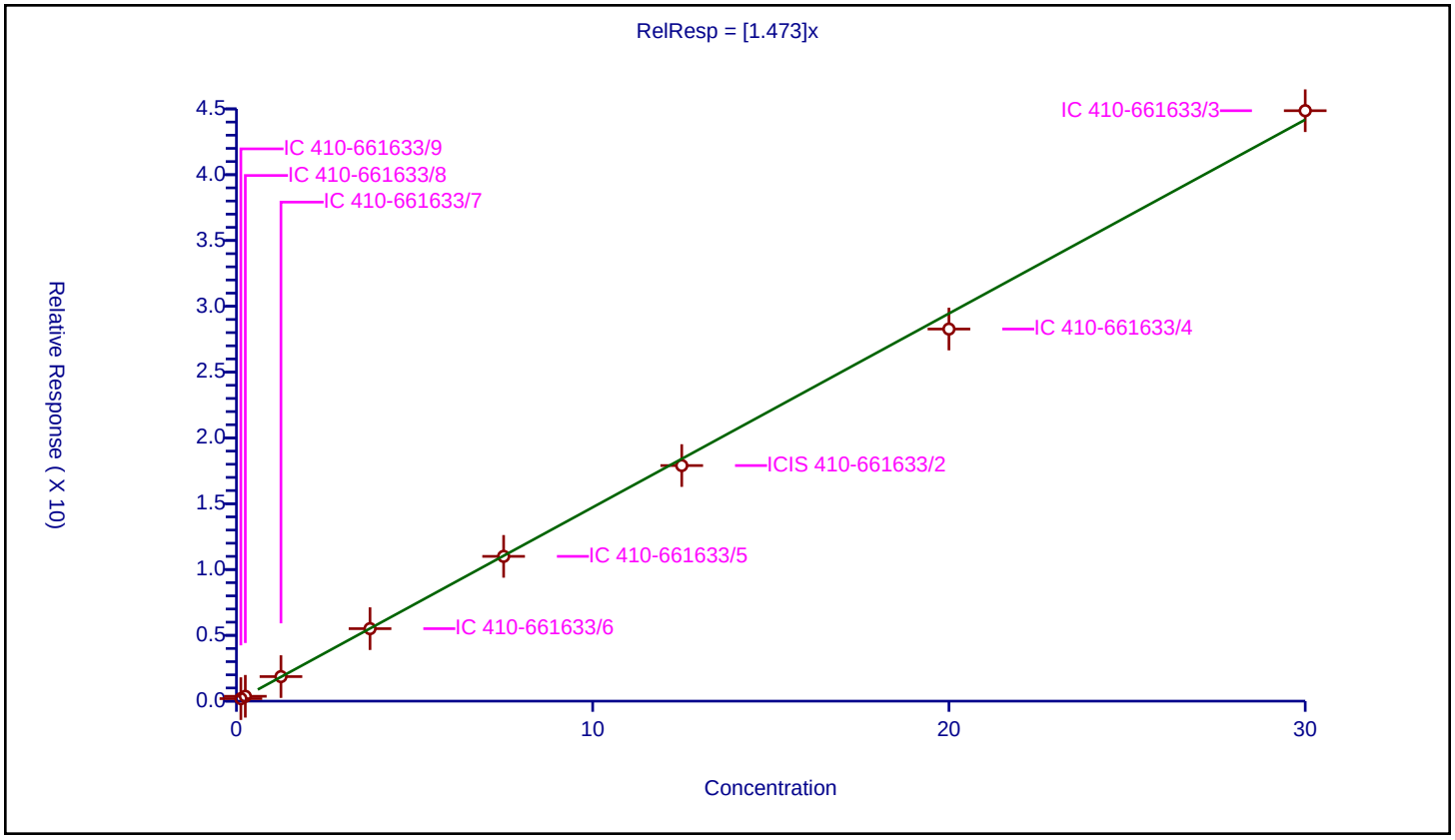
Curve Coefficients

Intercept:	0
Slope:	1.473

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.191862	5.0	502809.0	1.534897	Y
2	IC 410-661633/8	0.25	0.3696	5.0	472984.0	1.478401	Y
3	IC 410-661633/7	1.25	1.864226	5.0	475519.0	1.491381	Y
4	IC 410-661633/6	3.75	5.507967	5.0	534976.0	1.468791	Y
5	IC 410-661633/5	7.5	10.999998	5.0	505071.0	1.466666	Y
6	ICIS 410-661633/2	12.5	17.901206	5.0	500342.0	1.432096	Y
7	IC 410-661633/4	20.0	28.271561	5.0	552270.0	1.413578	Y
8	IC 410-661633/3	30.0	44.862978	5.0	492767.0	1.495433	Y



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Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

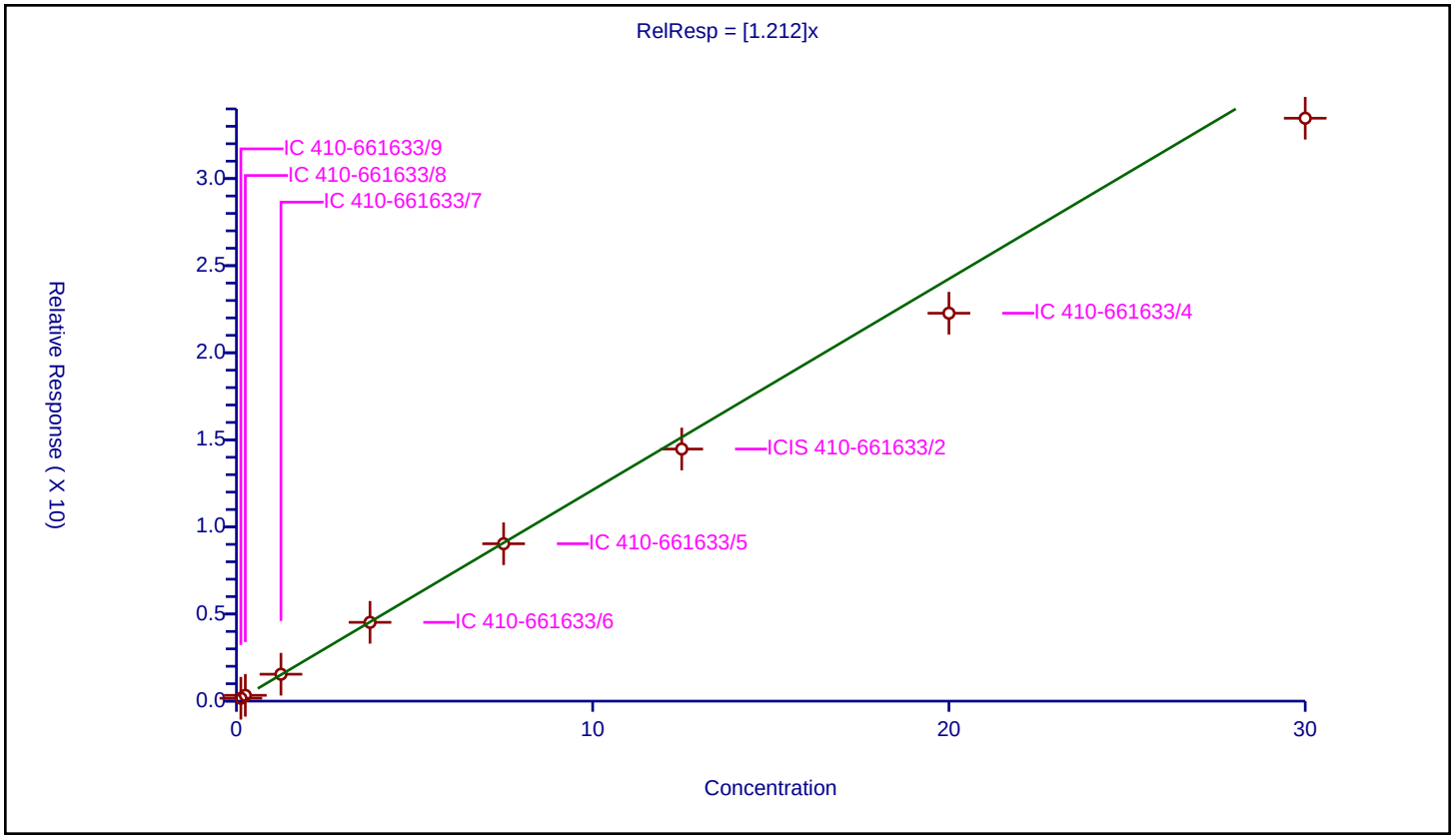
Curve Coefficients

Intercept:	0
Slope:	1.212

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.166186	5.0	502809.0	1.329491	Y
2	IC 410-661633/8	0.25	0.33332	5.0	472984.0	1.33328	Y
3	IC 410-661633/7	1.25	1.544838	5.0	475519.0	1.235871	Y
4	IC 410-661633/6	3.75	4.523175	5.0	534976.0	1.20618	Y
5	IC 410-661633/5	7.5	9.035898	5.0	505071.0	1.204786	Y
6	ICIS 410-661633/2	12.5	14.47333	5.0	500342.0	1.157866	Y
7	IC 410-661633/4	20.0	22.271425	5.0	552270.0	1.113571	Y
8	IC 410-661633/3	30.0	33.464345	5.0	492767.0	1.115478	Y



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Calibration / 1-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

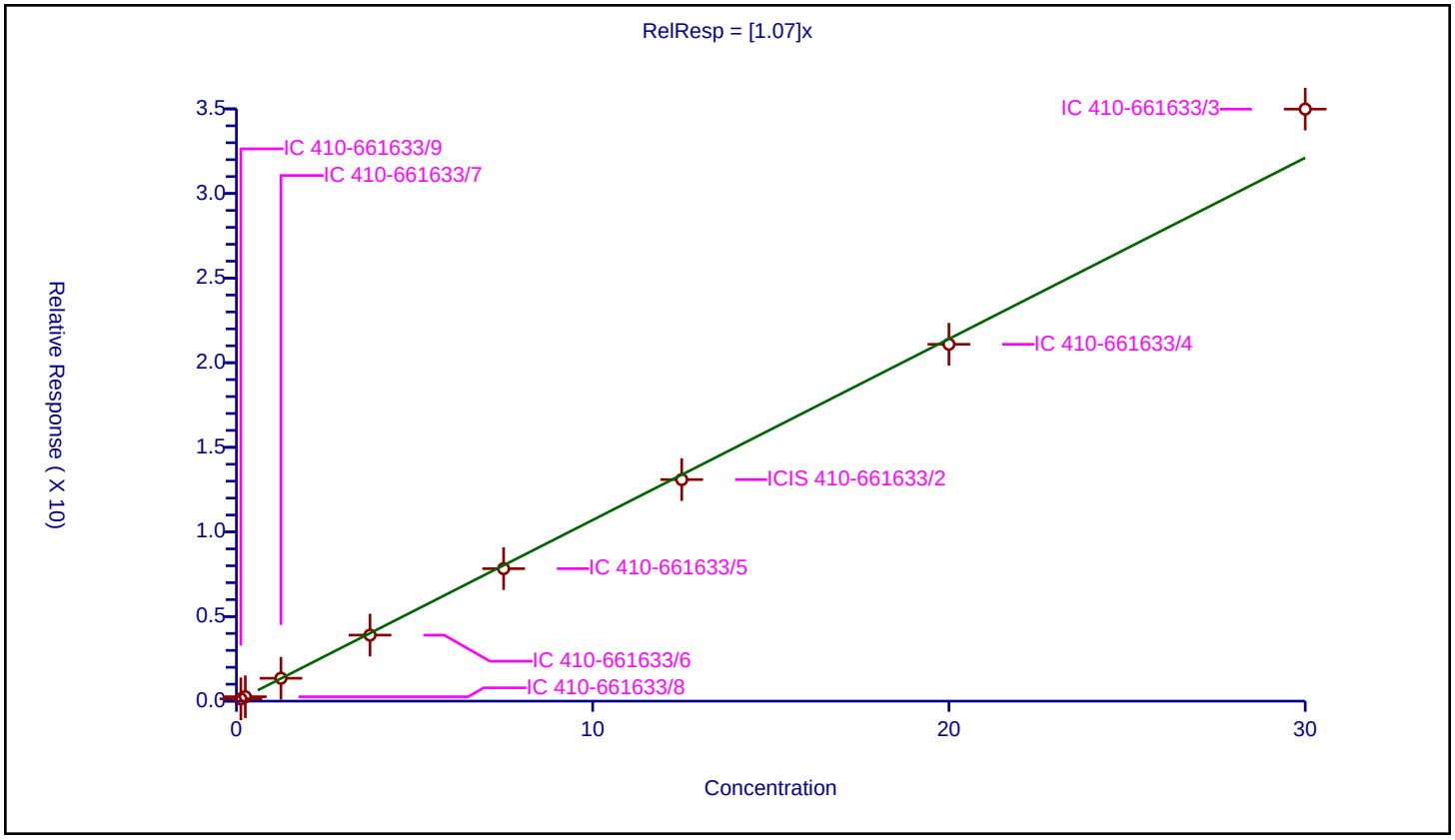
Curve Coefficients

Intercept:	0
Slope:	1.07

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.135409	5.0	502809.0	1.083274	Y
2	IC 410-661633/8	0.25	0.260918	5.0	472984.0	1.043672	Y
3	IC 410-661633/7	1.25	1.353353	5.0	475519.0	1.082682	Y
4	IC 410-661633/6	3.75	3.902811	5.0	534976.0	1.040749	Y
5	IC 410-661633/5	7.5	7.830493	5.0	505071.0	1.044066	Y
6	ICIS 410-661633/2	12.5	13.092944	5.0	500342.0	1.047436	Y
7	IC 410-661633/4	20.0	21.089467	5.0	552270.0	1.054473	Y
8	IC 410-661633/3	30.0	34.985612	5.0	492767.0	1.166187	Y



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Calibration / 2-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

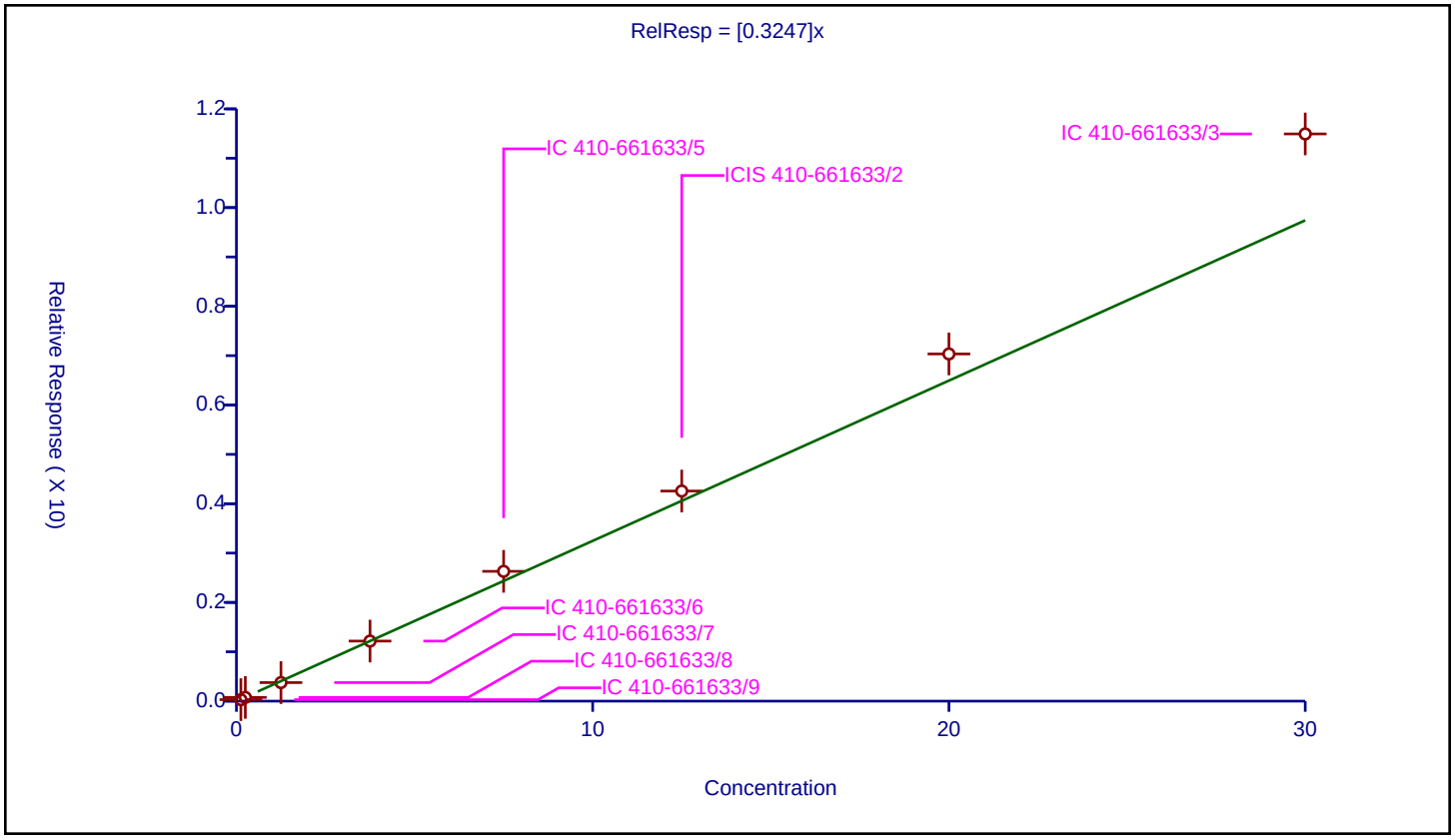
Curve Coefficients

Intercept:	0
Slope:	0.3247

Error Coefficients

Relative Standard Deviation:	13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.030528	5.0	502809.0	0.244228	Y
2	IC 410-661633/8	0.25	0.075563	5.0	472984.0	0.302251	Y
3	IC 410-661633/7	1.25	0.375842	5.0	475519.0	0.300674	Y
4	IC 410-661633/6	3.75	1.217139	5.0	534976.0	0.32457	Y
5	IC 410-661633/5	7.5	2.630036	5.0	505071.0	0.350671	Y
6	ICIS 410-661633/2	12.5	4.257148	5.0	500342.0	0.340572	Y
7	IC 410-661633/4	20.0	7.034422	5.0	552270.0	0.351721	Y
8	IC 410-661633/3	30.0	11.492734	5.0	492767.0	0.383091	Y



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Calibration / Phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

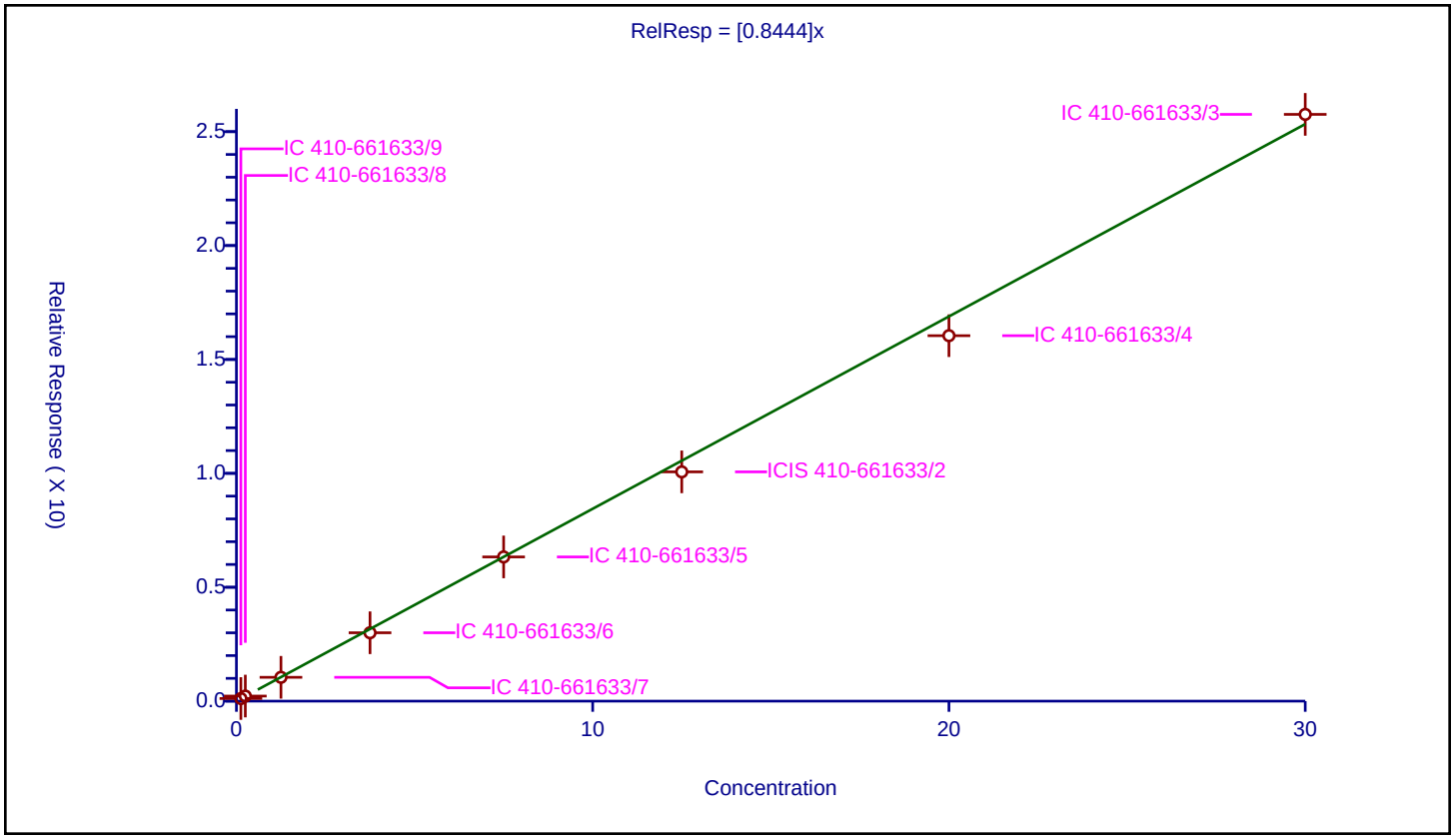
Curve Coefficients

Intercept:	0
Slope:	0.8444

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.114825	5.0	502809.0	0.918599	Y
2	IC 410-661633/8	0.25	0.222217	5.0	472984.0	0.888867	Y
3	IC 410-661633/7	1.25	1.046288	5.0	475519.0	0.837031	Y
4	IC 410-661633/6	3.75	3.002256	5.0	534976.0	0.800602	Y
5	IC 410-661633/5	7.5	6.330476	5.0	505071.0	0.844064	Y
6	ICIS 410-661633/2	12.5	10.065235	5.0	500342.0	0.805219	Y
7	IC 410-661633/4	20.0	16.044245	5.0	552270.0	0.802212	Y
8	IC 410-661633/3	30.0	25.758888	5.0	492767.0	0.85863	Y



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Calibration / 1,4-Naphthoquinone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

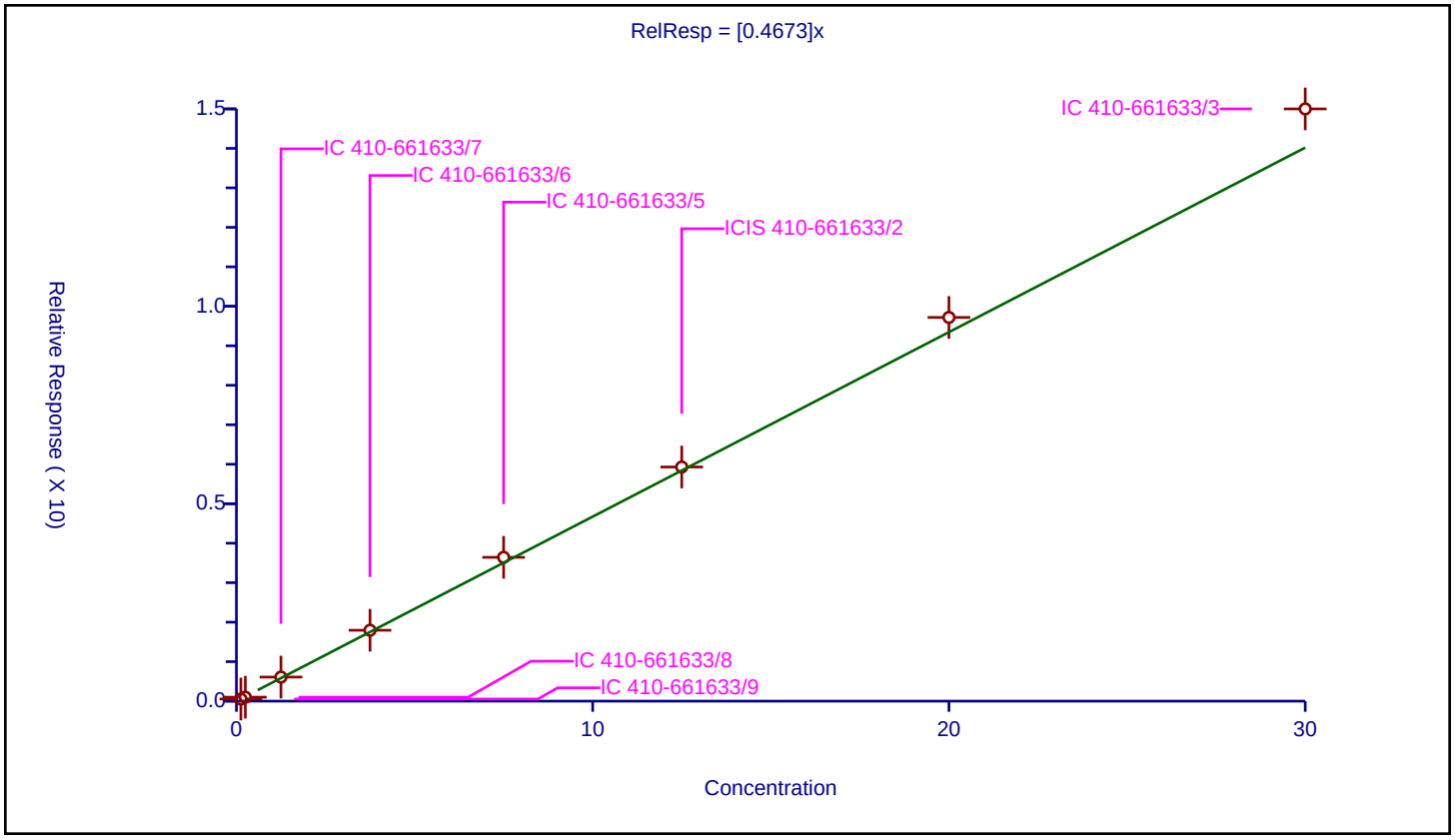
Curve Coefficients

Intercept:	0
Slope:	0.4673

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.053291	5.0	502809.0	0.426325	Y
2	IC 410-661633/8	0.25	0.099887	5.0	472984.0	0.399548	Y
3	IC 410-661633/7	1.25	0.609639	5.0	475519.0	0.487711	Y
4	IC 410-661633/6	3.75	1.795529	5.0	534976.0	0.478808	Y
5	IC 410-661633/5	7.5	3.642498	5.0	505071.0	0.485666	Y
6	ICIS 410-661633/2	12.5	5.929564	5.0	500342.0	0.474365	Y
7	IC 410-661633/4	20.0	9.717973	5.0	552270.0	0.485899	Y
8	IC 410-661633/3	30.0	14.99931	5.0	492767.0	0.499977	Y



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Calibration / 1,4-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

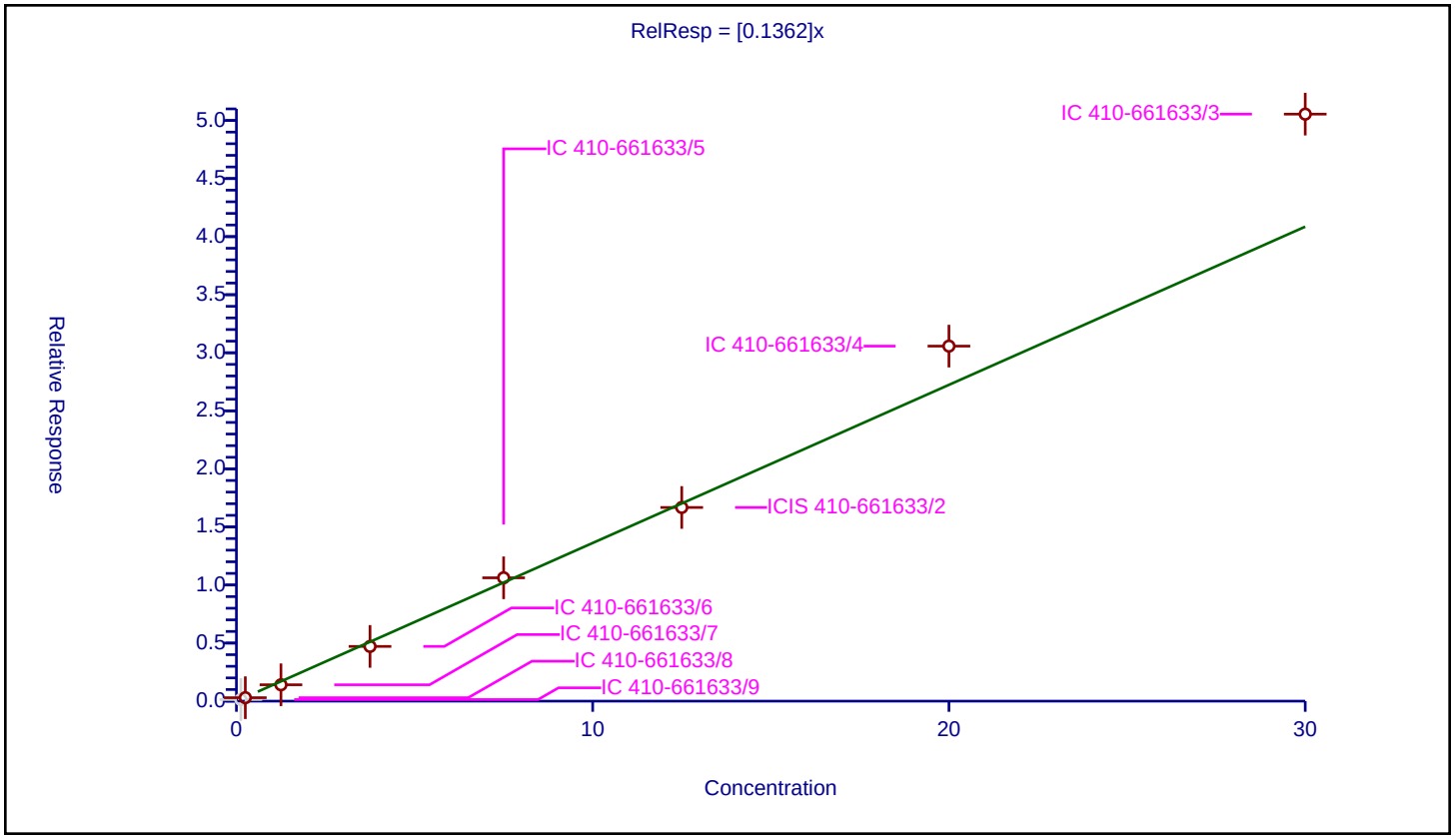
Curve Coefficients

Intercept:	0
Slope:	0.1362

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.013912	5.0	502809.0	0.111295	N
2	IC 410-661633/8	0.25	0.029642	5.0	472984.0	0.118566	Y
3	IC 410-661633/7	1.25	0.140846	5.0	475519.0	0.112677	Y
4	IC 410-661633/6	3.75	0.471255	5.0	534976.0	0.125668	Y
5	IC 410-661633/5	7.5	1.062128	5.0	505071.0	0.141617	Y
6	ICIS 410-661633/2	12.5	1.667699	5.0	500342.0	0.133416	Y
7	IC 410-661633/4	20.0	3.057209	5.0	552270.0	0.15286	Y
8	IC 410-661633/3	30.0	5.054752	5.0	492767.0	0.168492	Y



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Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

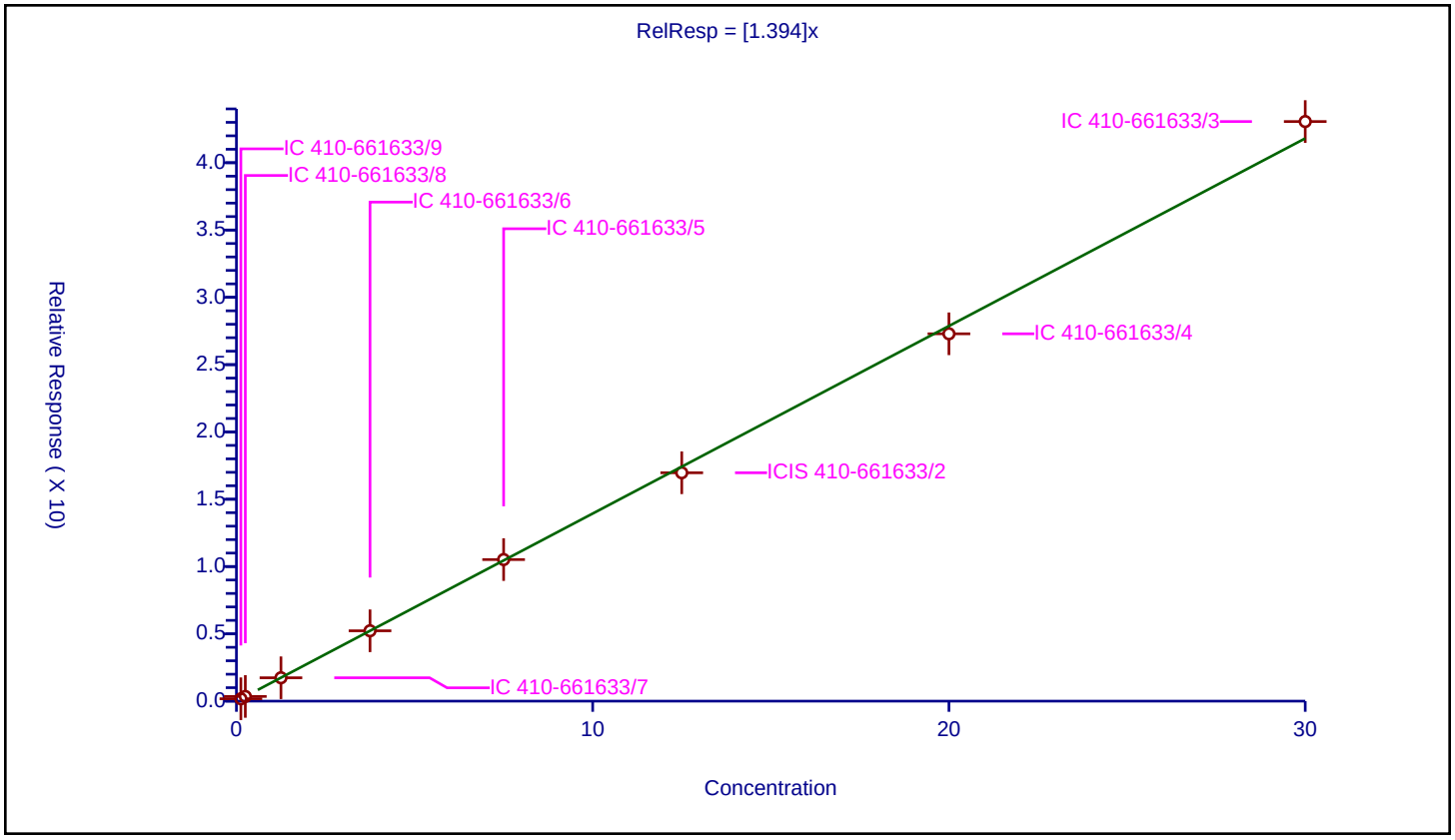
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Relative Standard Deviation:	1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.176111	5.0	502809.0	1.408885	Y
2	IC 410-661633/8	0.25	0.349483	5.0	472984.0	1.397933	Y
3	IC 410-661633/7	1.25	1.735777	5.0	475519.0	1.388622	Y
4	IC 410-661633/6	3.75	5.225973	5.0	534976.0	1.393593	Y
5	IC 410-661633/5	7.5	10.517353	5.0	505071.0	1.402314	Y
6	ICIS 410-661633/2	12.5	16.967344	5.0	500342.0	1.357388	Y
7	IC 410-661633/4	20.0	27.29089	5.0	552270.0	1.364545	Y
8	IC 410-661633/3	30.0	43.059955	5.0	492767.0	1.435332	Y



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Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

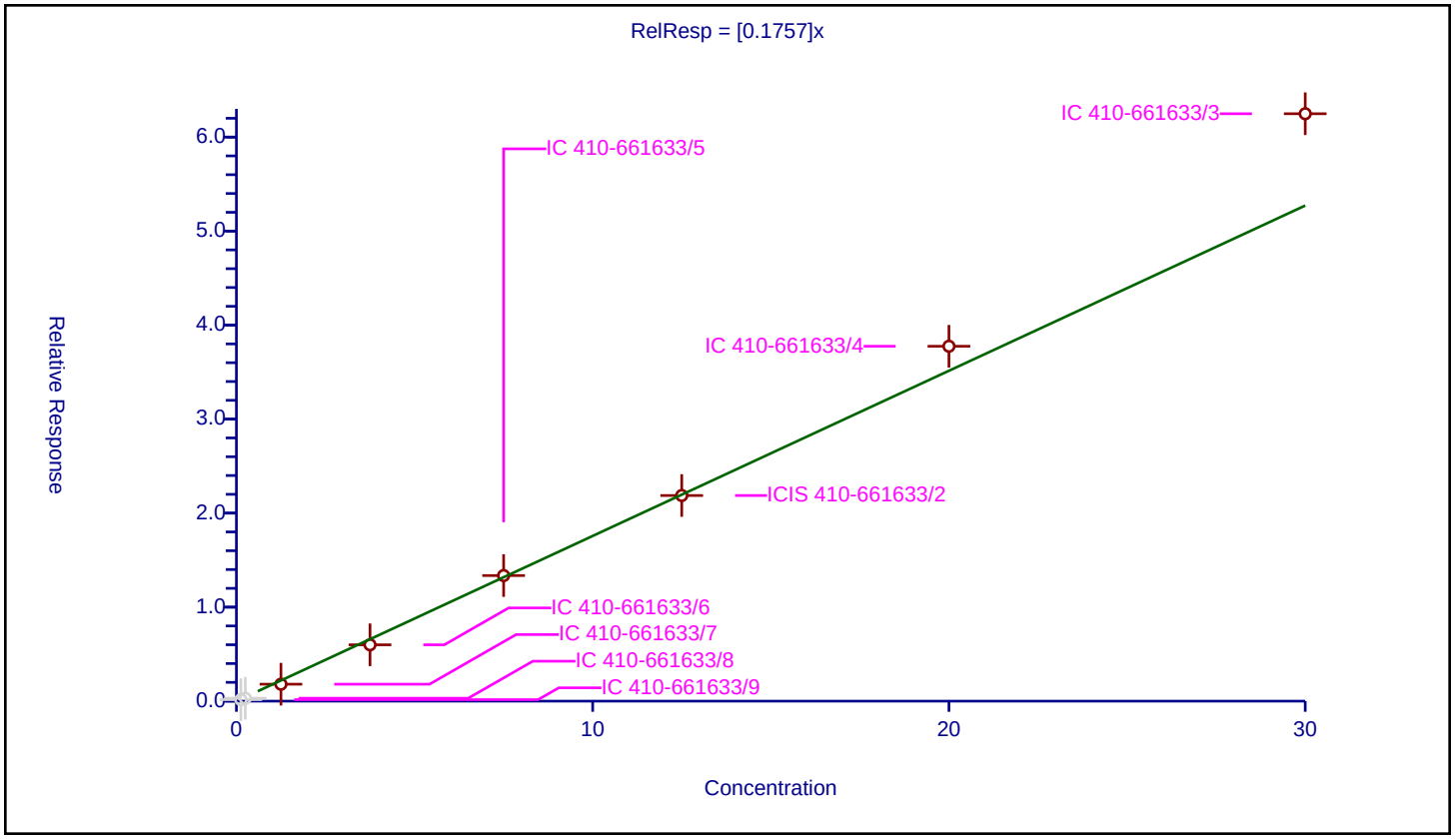
Curve Coefficients

Intercept:	0
Slope:	0.1757

Error Coefficients

Relative Standard Deviation:	12.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.015632	5.0	502809.0	0.125057	N
2	IC 410-661633/8	0.25	0.031079	5.0	472984.0	0.124317	N
3	IC 410-661633/7	1.25	0.180382	5.0	475519.0	0.144305	Y
4	IC 410-661633/6	3.75	0.599457	5.0	534976.0	0.159855	Y
5	IC 410-661633/5	7.5	1.335842	5.0	505071.0	0.178112	Y
6	ICIS 410-661633/2	12.5	2.187294	5.0	500342.0	0.174984	Y
7	IC 410-661633/4	20.0	3.775047	5.0	552270.0	0.188752	Y
8	IC 410-661633/3	30.0	6.24844	5.0	492767.0	0.208281	Y



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Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

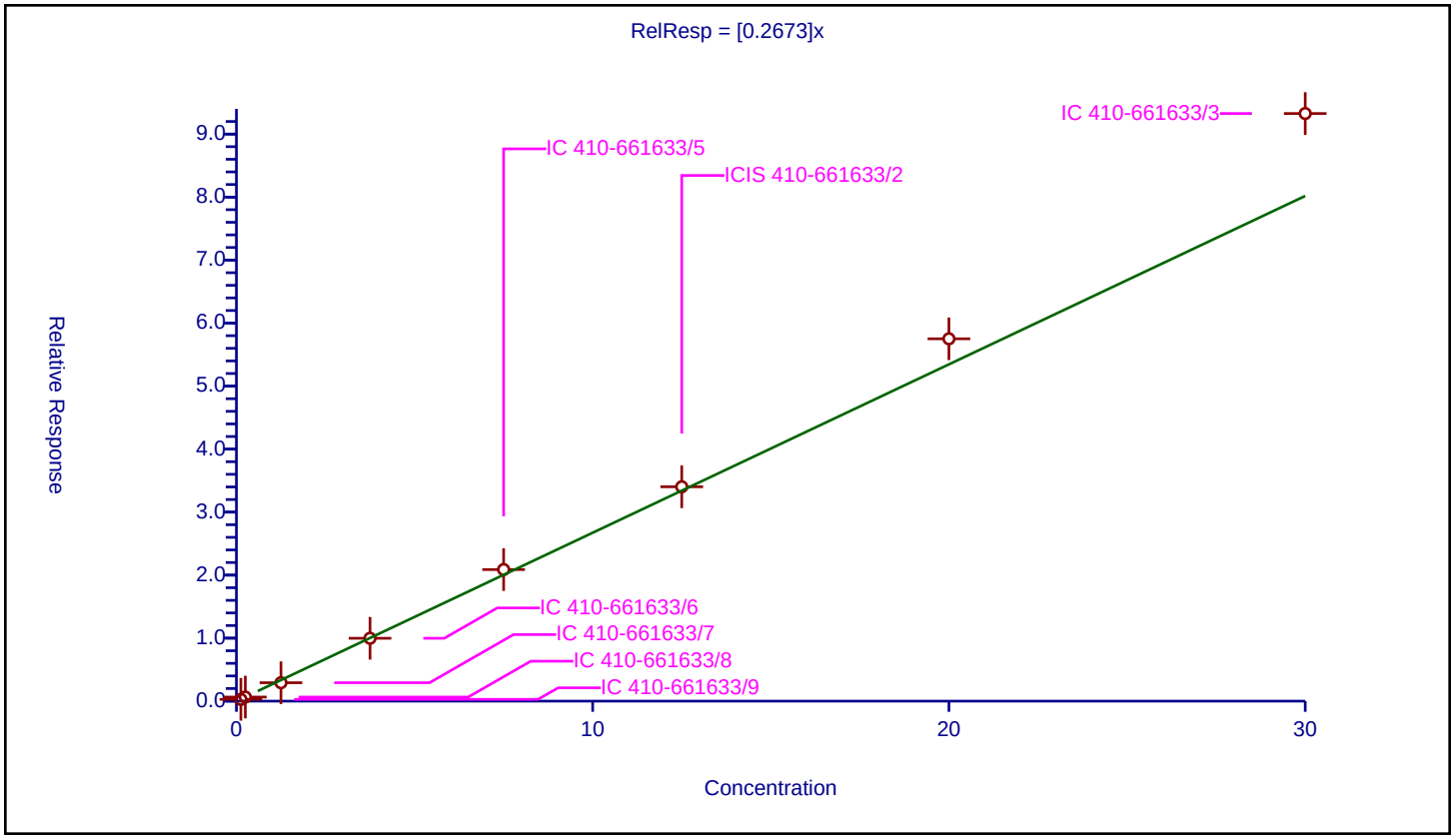
Curve Coefficients

Intercept:	0
Slope:	0.2673

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.028599	5.0	502809.0	0.228795	Y
2	IC 410-661633/8	0.25	0.065066	5.0	472984.0	0.260263	Y
3	IC 410-661633/7	1.25	0.292428	5.0	475519.0	0.233942	Y
4	IC 410-661633/6	3.75	0.99797	5.0	534976.0	0.266125	Y
5	IC 410-661633/5	7.5	2.088498	5.0	505071.0	0.278466	Y
6	ICIS 410-661633/2	12.5	3.402203	5.0	500342.0	0.272176	Y
7	IC 410-661633/4	20.0	5.7511	5.0	552270.0	0.287555	Y
8	IC 410-661633/3	30.0	9.326517	5.0	492767.0	0.310884	Y



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Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

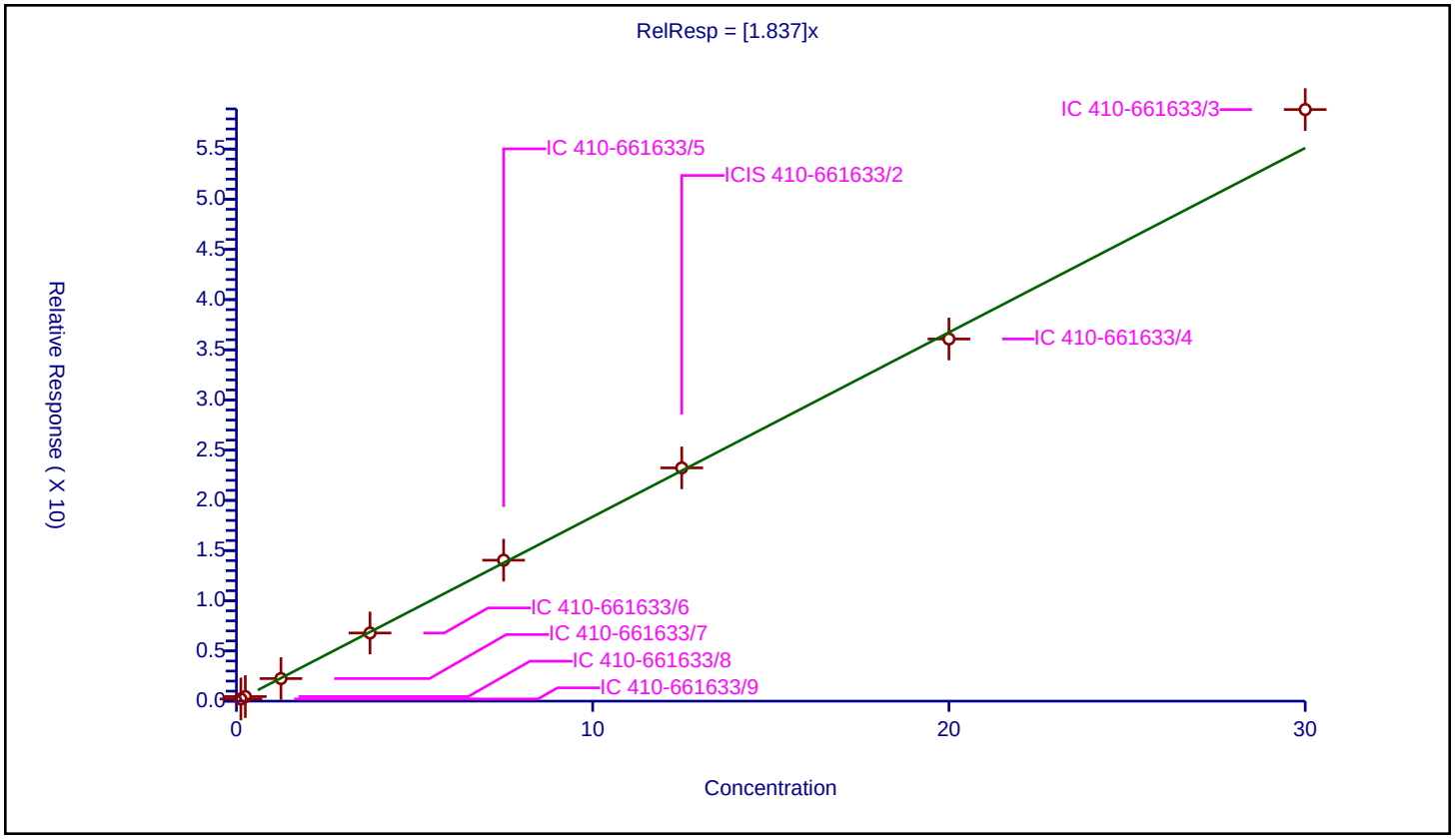
Curve Coefficients

Intercept:	0
Slope:	1.837

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.220183	5.0	502809.0	1.761464	Y
2	IC 410-661633/8	0.25	0.456009	5.0	472984.0	1.824036	Y
3	IC 410-661633/7	1.25	2.249258	5.0	475519.0	1.799407	Y
4	IC 410-661633/6	3.75	6.787146	5.0	534976.0	1.809905	Y
5	IC 410-661633/5	7.5	14.039947	5.0	505071.0	1.871993	Y
6	ICIS 410-661633/2	12.5	23.236806	5.0	500342.0	1.858944	Y
7	IC 410-661633/4	20.0	36.078748	5.0	552270.0	1.803937	Y
8	IC 410-661633/3	30.0	58.934557	5.0	492767.0	1.964485	Y



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Calibration / 3-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

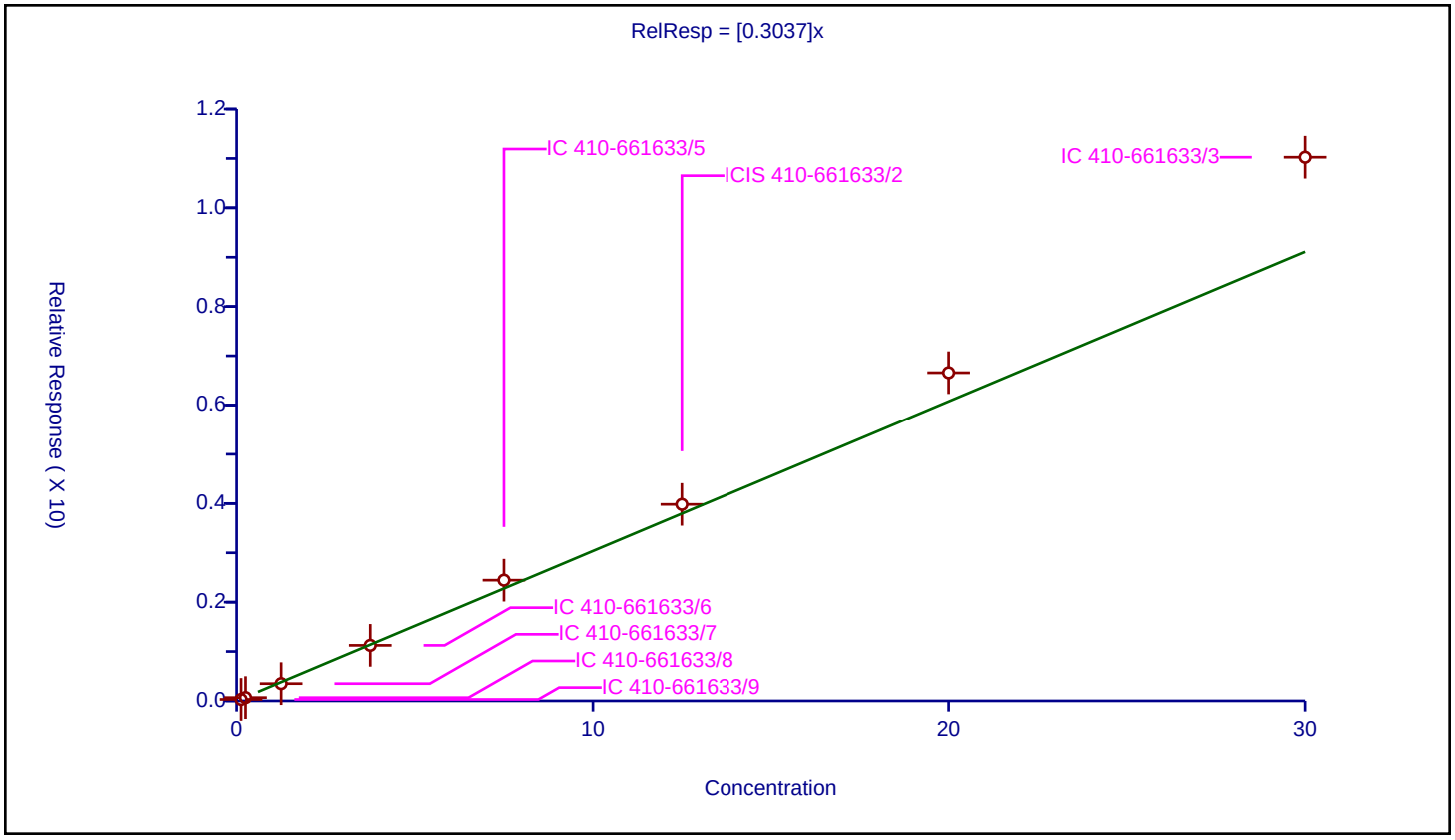
Curve Coefficients

Intercept:	0
Slope:	0.3037

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.029773	5.0	502809.0	0.238182	Y
2	IC 410-661633/8	0.25	0.066725	5.0	472984.0	0.266901	Y
3	IC 410-661633/7	1.25	0.349376	5.0	475519.0	0.279501	Y
4	IC 410-661633/6	3.75	1.124686	5.0	534976.0	0.299916	Y
5	IC 410-661633/5	7.5	2.445518	5.0	505071.0	0.326069	Y
6	ICIS 410-661633/2	12.5	3.983006	5.0	500342.0	0.31864	Y
7	IC 410-661633/4	20.0	6.657034	5.0	552270.0	0.332852	Y
8	IC 410-661633/3	30.0	11.024987	5.0	492767.0	0.3675	Y



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Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

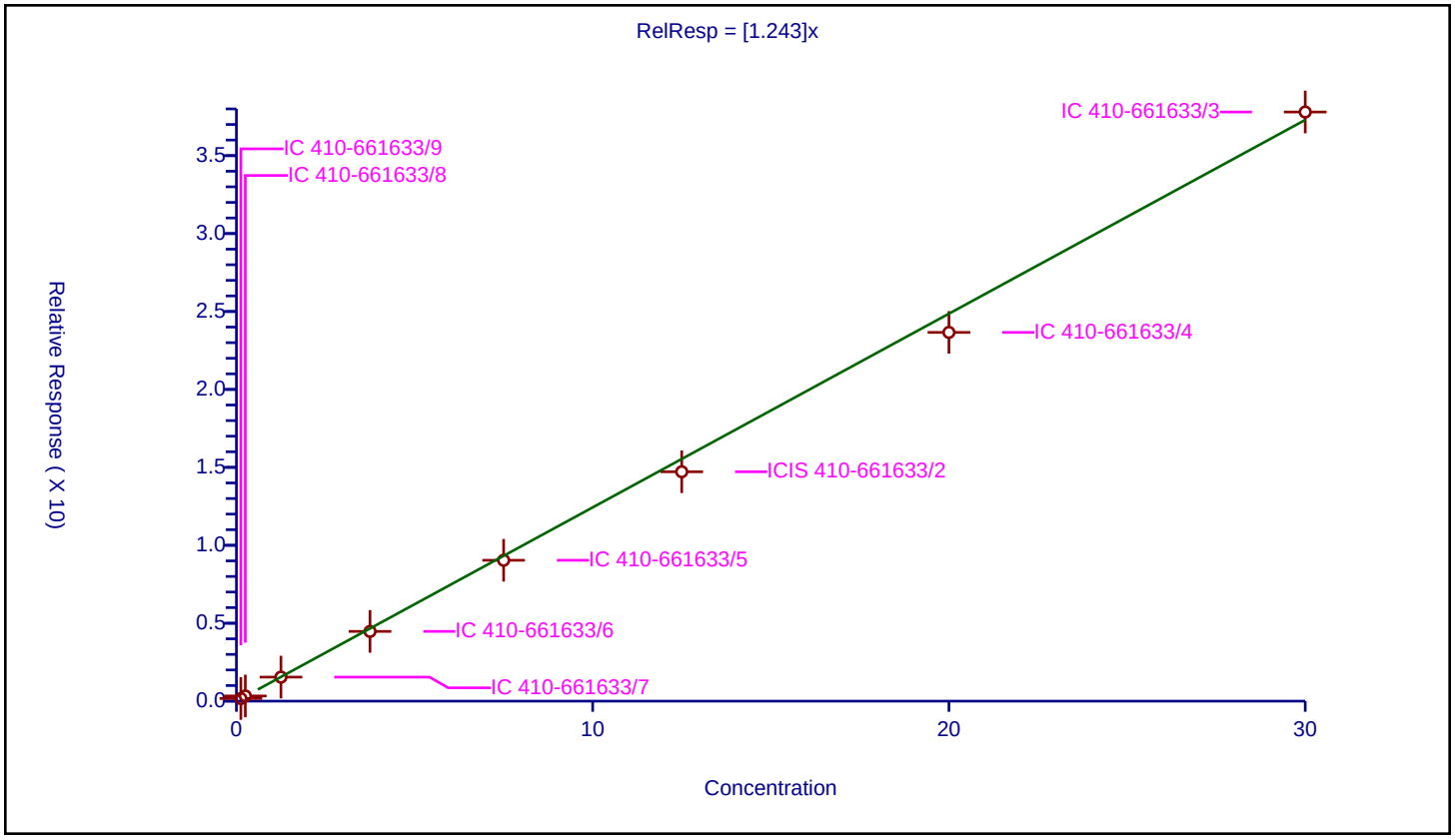
Curve Coefficients

Intercept:	0
Slope:	1.243

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.170492	5.0	502809.0	1.363937	Y
2	IC 410-661633/8	0.25	0.332041	5.0	472984.0	1.328163	Y
3	IC 410-661633/7	1.25	1.541737	5.0	475519.0	1.233389	Y
4	IC 410-661633/6	3.75	4.474275	5.0	534976.0	1.19314	Y
5	IC 410-661633/5	7.5	9.039333	5.0	505071.0	1.205244	Y
6	ICIS 410-661633/2	12.5	14.718632	5.0	500342.0	1.177491	Y
7	IC 410-661633/4	20.0	23.658356	5.0	552270.0	1.182918	Y
8	IC 410-661633/3	30.0	37.800644	5.0	492767.0	1.260021	Y



Calibration / 2,4-Dinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

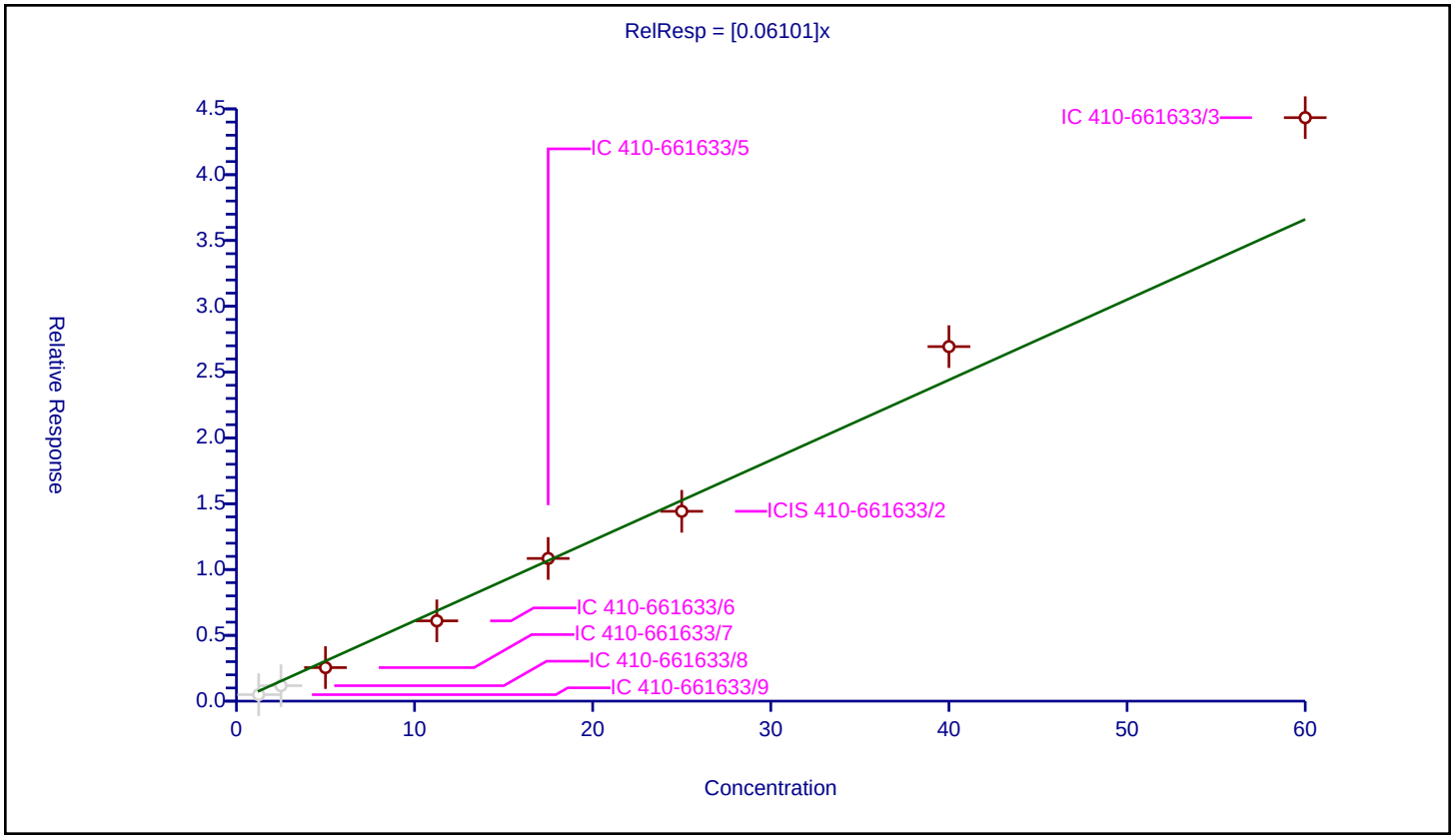
Curve Coefficients

Intercept:	0
Slope:	0.06101

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	1.25	0.049253	5.0	502809.0	0.039403	N
2	IC 410-661633/8	2.5	0.117456	5.0	472984.0	0.046983	N
3	IC 410-661633/7	5.0	0.254837	5.0	475519.0	0.050967	Y
4	IC 410-661633/6	11.25	0.610083	5.0	534976.0	0.05423	Y
5	IC 410-661633/5	17.5	1.084283	5.0	505071.0	0.061959	Y
6	ICIS 410-661633/2	25.0	1.442413	5.0	500342.0	0.057697	Y
7	IC 410-661633/4	40.0	2.693746	5.0	552270.0	0.067344	Y
8	IC 410-661633/3	60.0	4.433343	5.0	492767.0	0.073889	Y



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Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

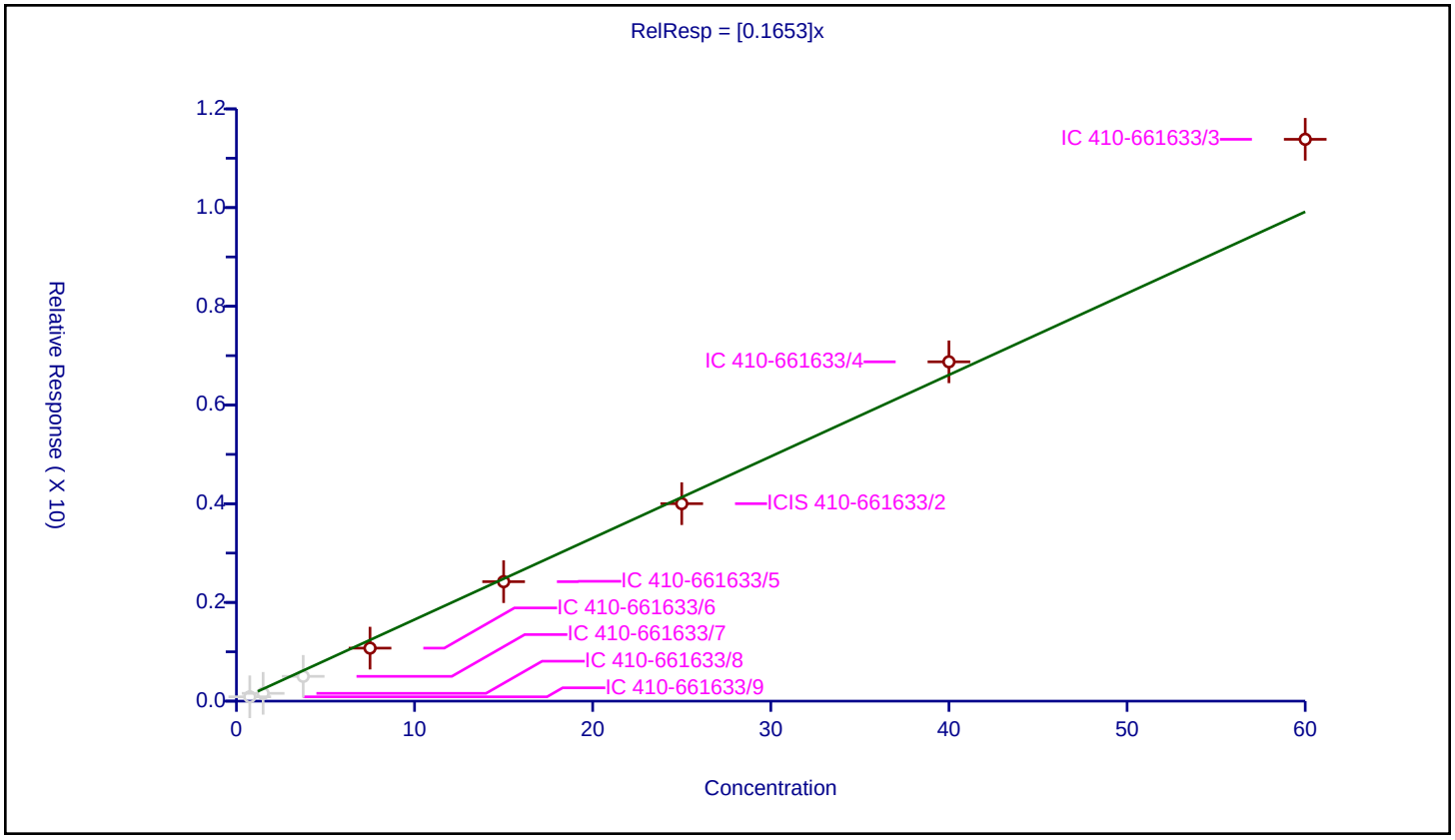
Curve Coefficients

Intercept:	0
Slope:	0.1653

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.75	0.087677	5.0	502809.0	0.116903	N
2	IC 410-661633/8	1.5	0.158081	5.0	472984.0	0.105388	N
3	IC 410-661633/7	3.75	0.50203	5.0	475519.0	0.133875	N
4	IC 410-661633/6	7.5	1.074226	5.0	534976.0	0.14323	Y
5	IC 410-661633/5	15.0	2.420521	5.0	505071.0	0.161368	Y
6	ICIS 410-661633/2	25.0	4.001393	5.0	500342.0	0.160056	Y
7	IC 410-661633/4	40.0	6.875278	5.0	552270.0	0.171882	Y
8	IC 410-661633/3	60.0	11.383707	5.0	492767.0	0.189728	Y



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Calibration / Pentachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

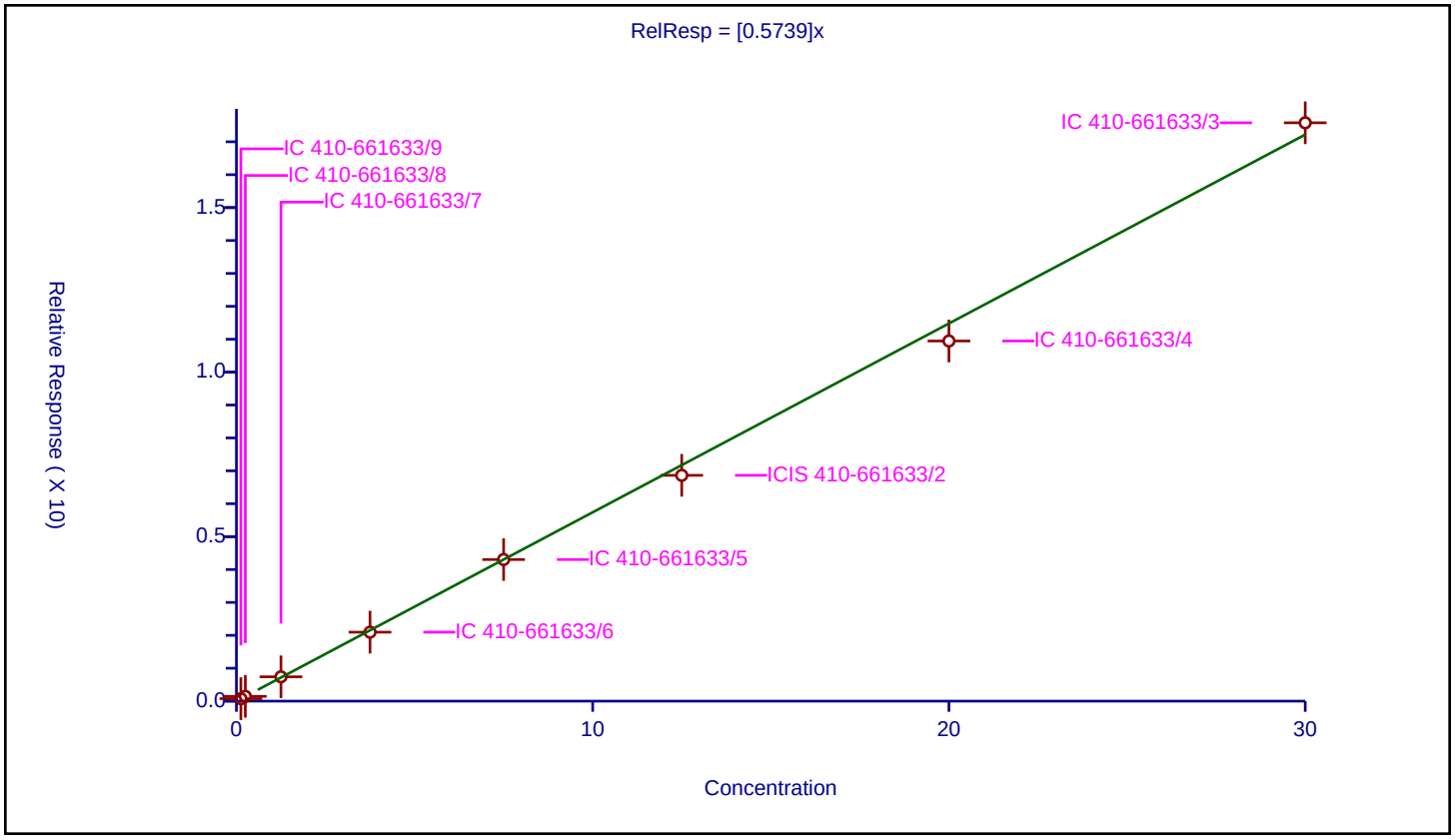
Curve Coefficients

Intercept:	0
Slope:	0.5739

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.074959	5.0	502809.0	0.599671	Y
2	IC 410-661633/8	0.25	0.146252	5.0	472984.0	0.585009	Y
3	IC 410-661633/7	1.25	0.739476	5.0	475519.0	0.591581	Y
4	IC 410-661633/6	3.75	2.096346	5.0	534976.0	0.559026	Y
5	IC 410-661633/5	7.5	4.303722	5.0	505071.0	0.57383	Y
6	ICIS 410-661633/2	12.5	6.862906	5.0	500342.0	0.549032	Y
7	IC 410-661633/4	20.0	10.946312	5.0	552270.0	0.547316	Y
8	IC 410-661633/3	30.0	17.577506	5.0	492767.0	0.585917	Y



Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

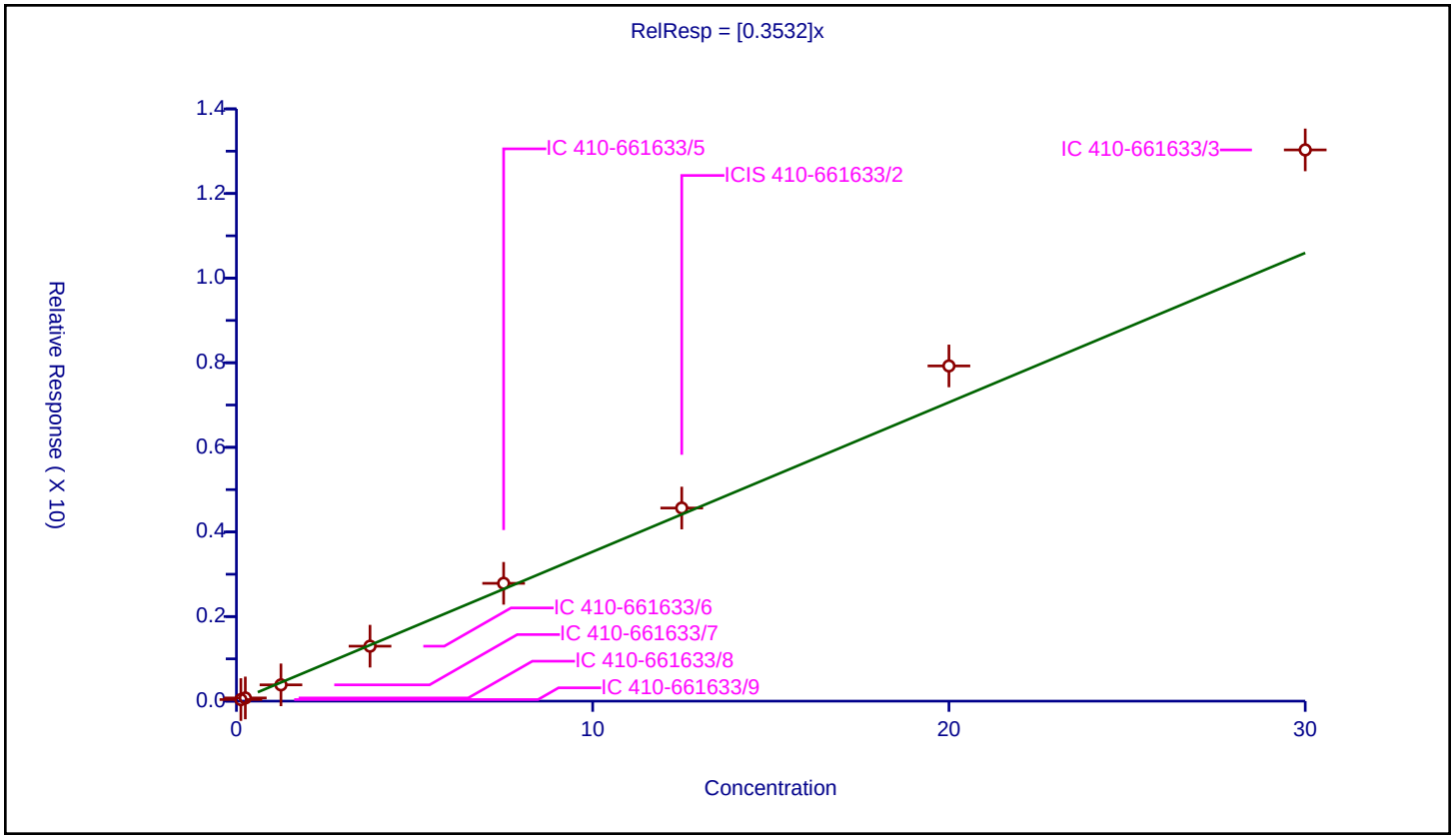
Curve Coefficients

Intercept:	0
Slope:	0.3532

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.037688	5.0	502809.0	0.301506	Y
2	IC 410-661633/8	0.25	0.075542	5.0	472984.0	0.302167	Y
3	IC 410-661633/7	1.25	0.385116	5.0	475519.0	0.308093	Y
4	IC 410-661633/6	3.75	1.29947	5.0	534976.0	0.346525	Y
5	IC 410-661633/5	7.5	2.785123	5.0	505071.0	0.37135	Y
6	ICIS 410-661633/2	12.5	4.564658	5.0	500342.0	0.365173	Y
7	IC 410-661633/4	20.0	7.923814	5.0	552270.0	0.396191	Y
8	IC 410-661633/3	30.0	13.030225	5.0	492767.0	0.434341	Y



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Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

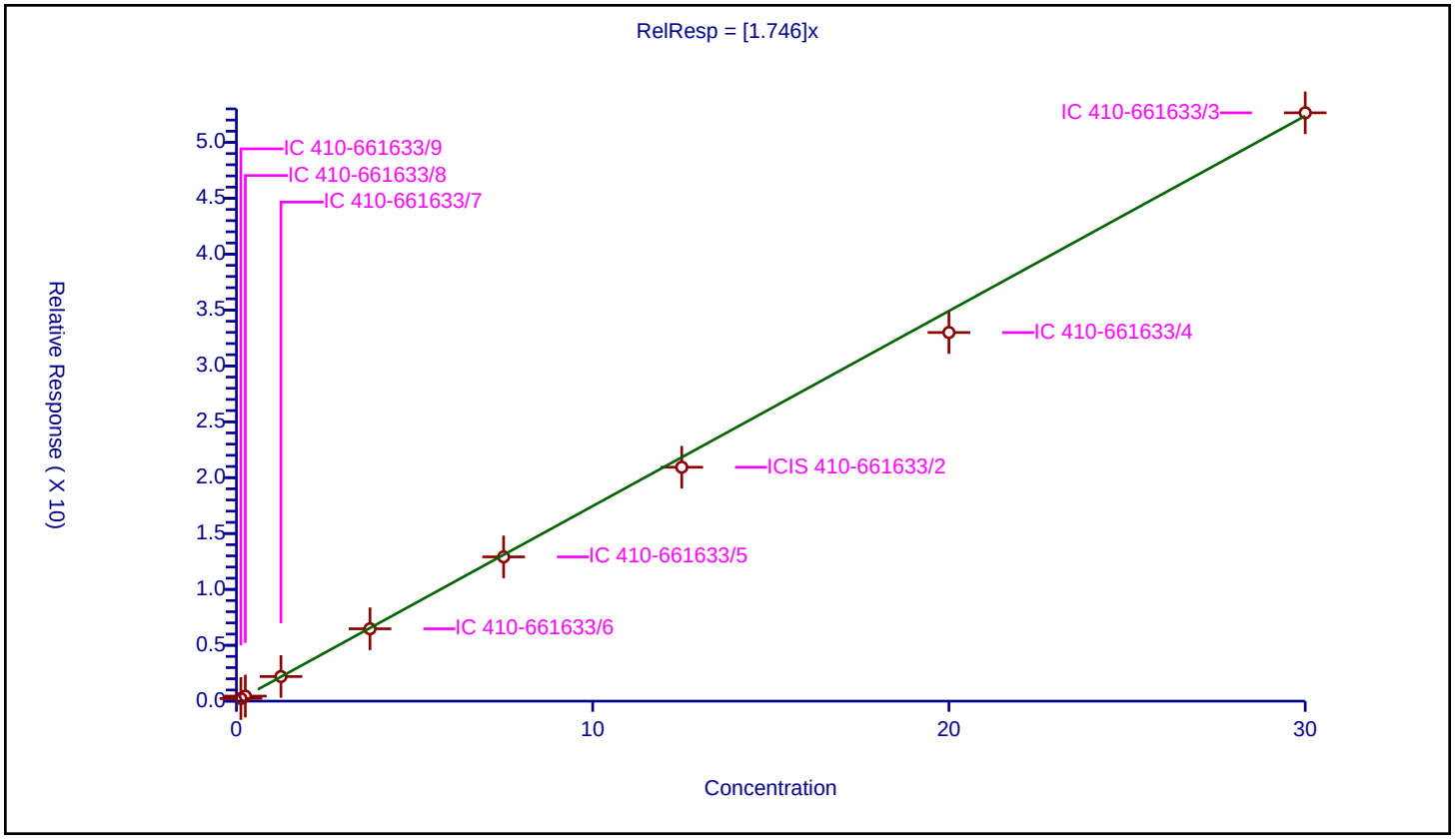
Curve Coefficients

Intercept:	0
Slope:	1.746

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.233667	5.0	502809.0	1.869338	Y
2	IC 410-661633/8	0.25	0.451971	5.0	472984.0	1.807884	Y
3	IC 410-661633/7	1.25	2.202257	5.0	475519.0	1.761806	Y
4	IC 410-661633/6	3.75	6.474655	5.0	534976.0	1.726575	Y
5	IC 410-661633/5	7.5	12.910571	5.0	505071.0	1.721409	Y
6	ICIS 410-661633/2	12.5	20.932862	5.0	500342.0	1.674629	Y
7	IC 410-661633/4	20.0	32.98814	5.0	552270.0	1.649407	Y
8	IC 410-661633/3	30.0	52.649508	5.0	492767.0	1.754984	Y



Calibration / 1-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

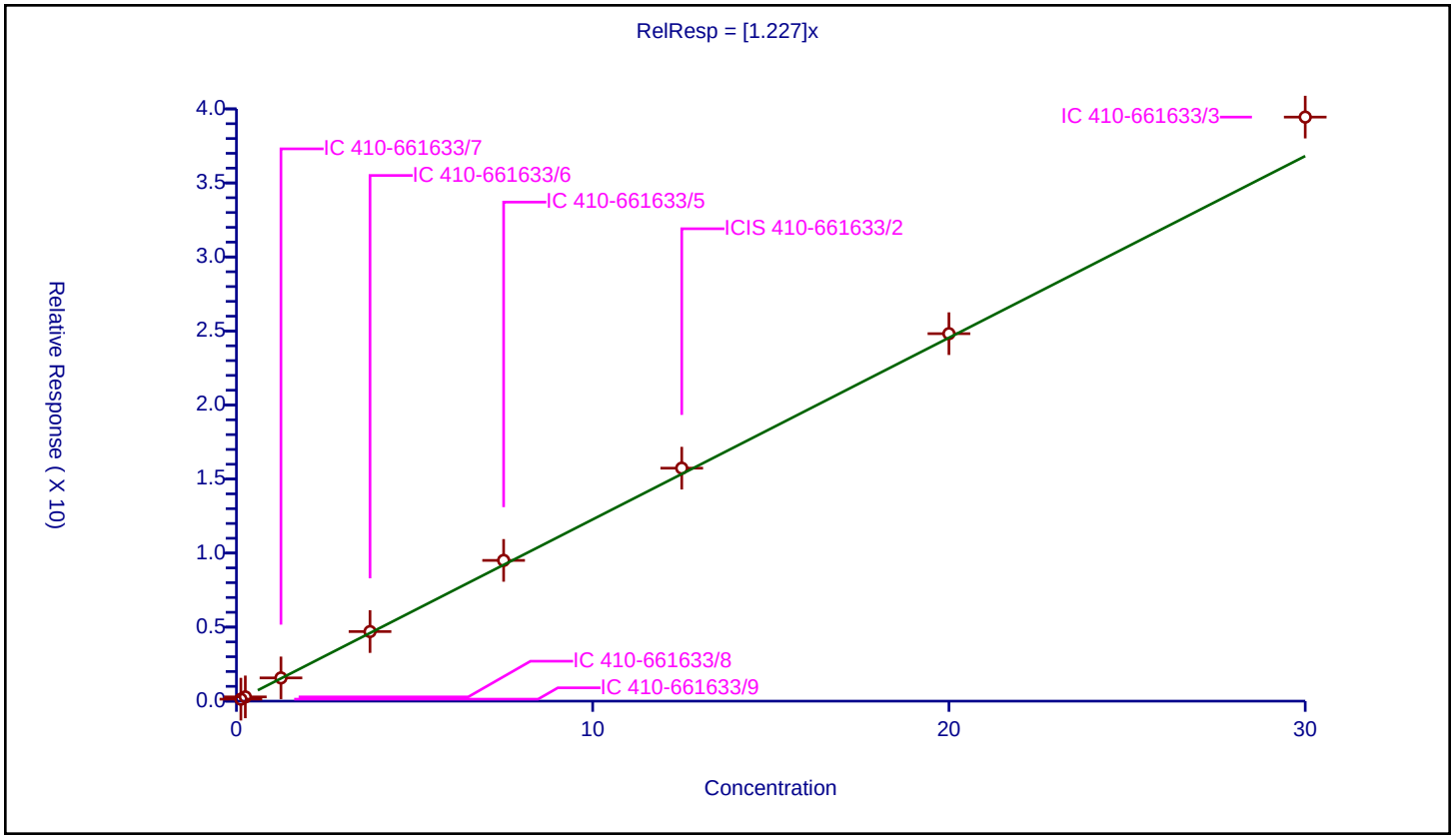
Curve Coefficients

Intercept:	0
Slope:	1.227

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.134484	5.0	502809.0	1.075876	Y
2	IC 410-661633/8	0.25	0.287684	5.0	472984.0	1.150737	Y
3	IC 410-661633/7	1.25	1.569212	5.0	475519.0	1.255369	Y
4	IC 410-661633/6	3.75	4.699706	5.0	534976.0	1.253255	Y
5	IC 410-661633/5	7.5	9.505713	5.0	505071.0	1.267428	Y
6	ICIS 410-661633/2	12.5	15.734897	5.0	500342.0	1.258792	Y
7	IC 410-661633/4	20.0	24.819382	5.0	552270.0	1.240969	Y
8	IC 410-661633/3	30.0	39.446412	5.0	492767.0	1.31488	Y



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Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

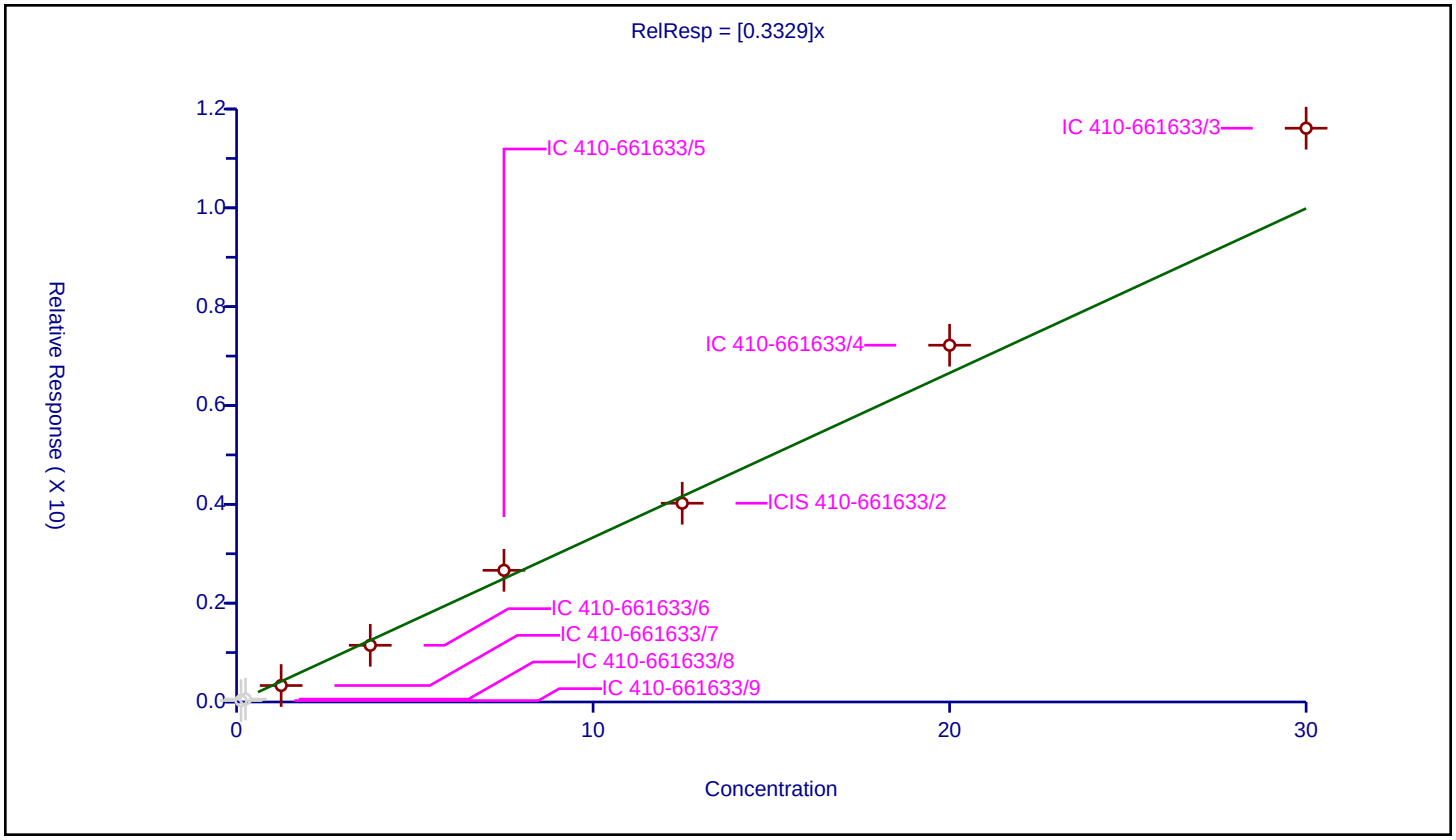
Curve Coefficients

Intercept:	0
Slope:	0.3329

Error Coefficients

Relative Standard Deviation:	13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.028361	5.0	502809.0	0.226885	N
2	IC 410-661633/8	0.25	0.058744	5.0	472984.0	0.234976	N
3	IC 410-661633/7	1.25	0.333183	5.0	475519.0	0.266547	Y
4	IC 410-661633/6	3.75	1.147397	5.0	534976.0	0.305973	Y
5	IC 410-661633/5	7.5	2.664417	5.0	505071.0	0.355256	Y
6	ICIS 410-661633/2	12.5	4.022109	5.0	500342.0	0.321769	Y
7	IC 410-661633/4	20.0	7.220255	5.0	552270.0	0.361013	Y
8	IC 410-661633/3	30.0	11.611603	5.0	492767.0	0.387053	Y



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Calibration / 2-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

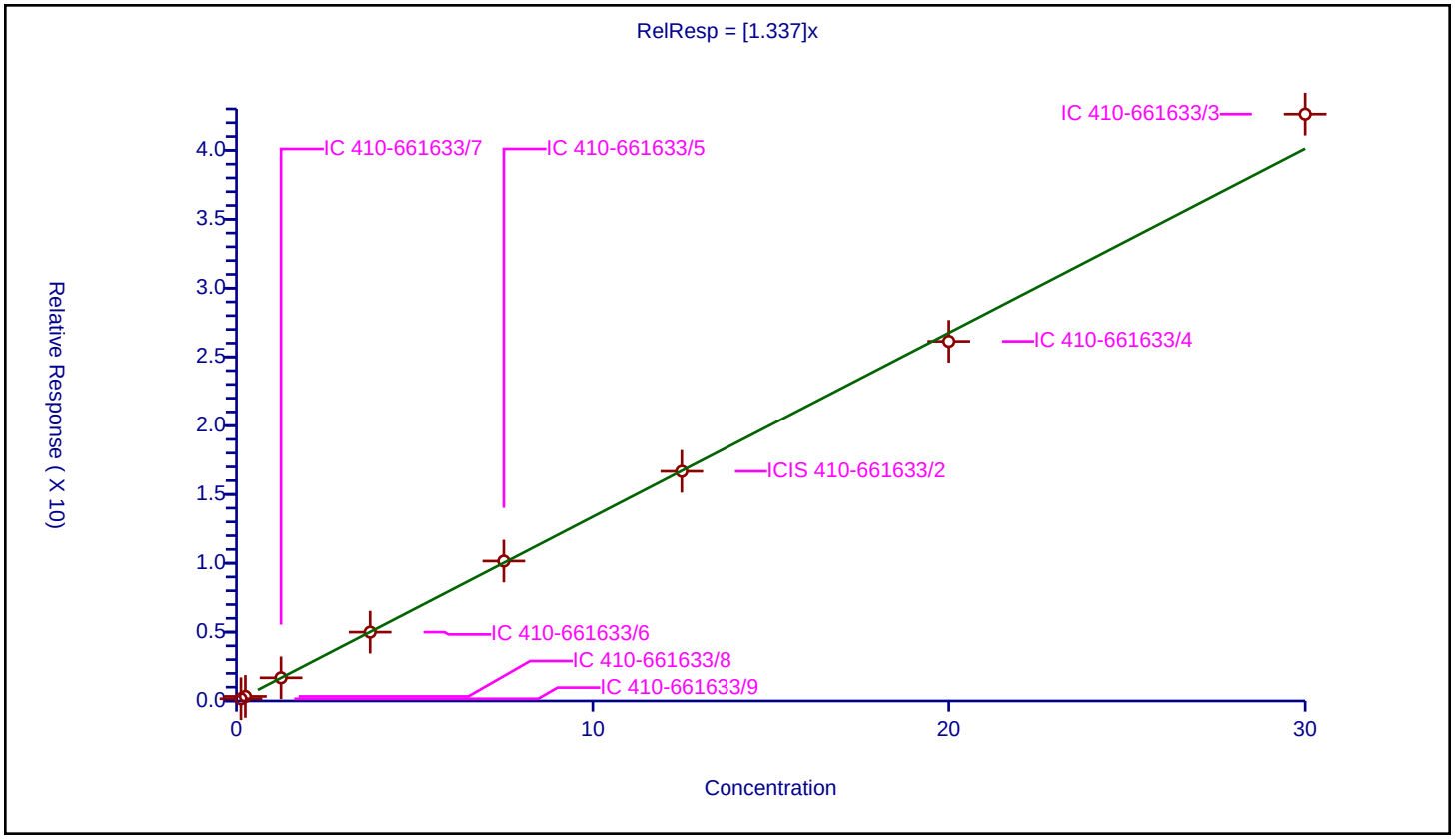
Curve Coefficients

Intercept:	0
Slope:	1.337

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.160558	5.0	502809.0	1.284464	Y
2	IC 410-661633/8	0.25	0.330445	5.0	472984.0	1.321778	Y
3	IC 410-661633/7	1.25	1.680396	5.0	475519.0	1.344316	Y
4	IC 410-661633/6	3.75	4.997645	5.0	534976.0	1.332705	Y
5	IC 410-661633/5	7.5	10.156602	5.0	505071.0	1.354214	Y
6	ICIS 410-661633/2	12.5	16.678282	5.0	500342.0	1.334263	Y
7	IC 410-661633/4	20.0	26.131231	5.0	552270.0	1.306562	Y
8	IC 410-661633/3	30.0	42.621076	5.0	492767.0	1.420703	Y



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Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

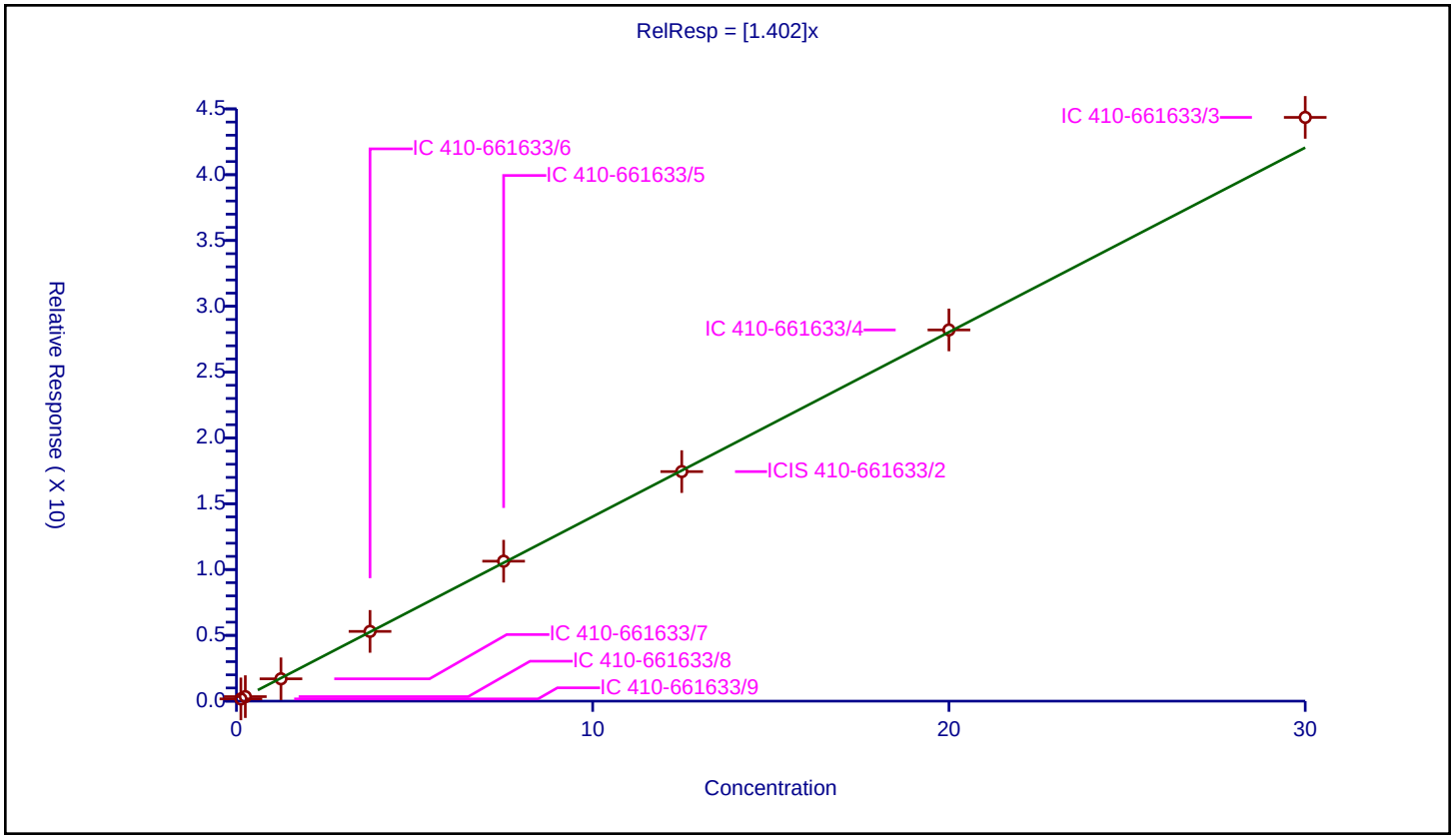
Curve Coefficients

Intercept:	0
Slope:	1.402

Error Coefficients

Relative Standard Deviation:	2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.171685	5.0	502809.0	1.373484	Y
2	IC 410-661633/8	0.25	0.342453	5.0	472984.0	1.369814	Y
3	IC 410-661633/7	1.25	1.696914	5.0	475519.0	1.357531	Y
4	IC 410-661633/6	3.75	5.2982	5.0	534976.0	1.412853	Y
5	IC 410-661633/5	7.5	10.633545	5.0	505071.0	1.417806	Y
6	ICIS 410-661633/2	12.5	17.44086	5.0	500342.0	1.395269	Y
7	IC 410-661633/4	20.0	28.2048	5.0	552270.0	1.41024	Y
8	IC 410-661633/3	30.0	44.354736	5.0	492767.0	1.478491	Y



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Calibration / Thionazin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

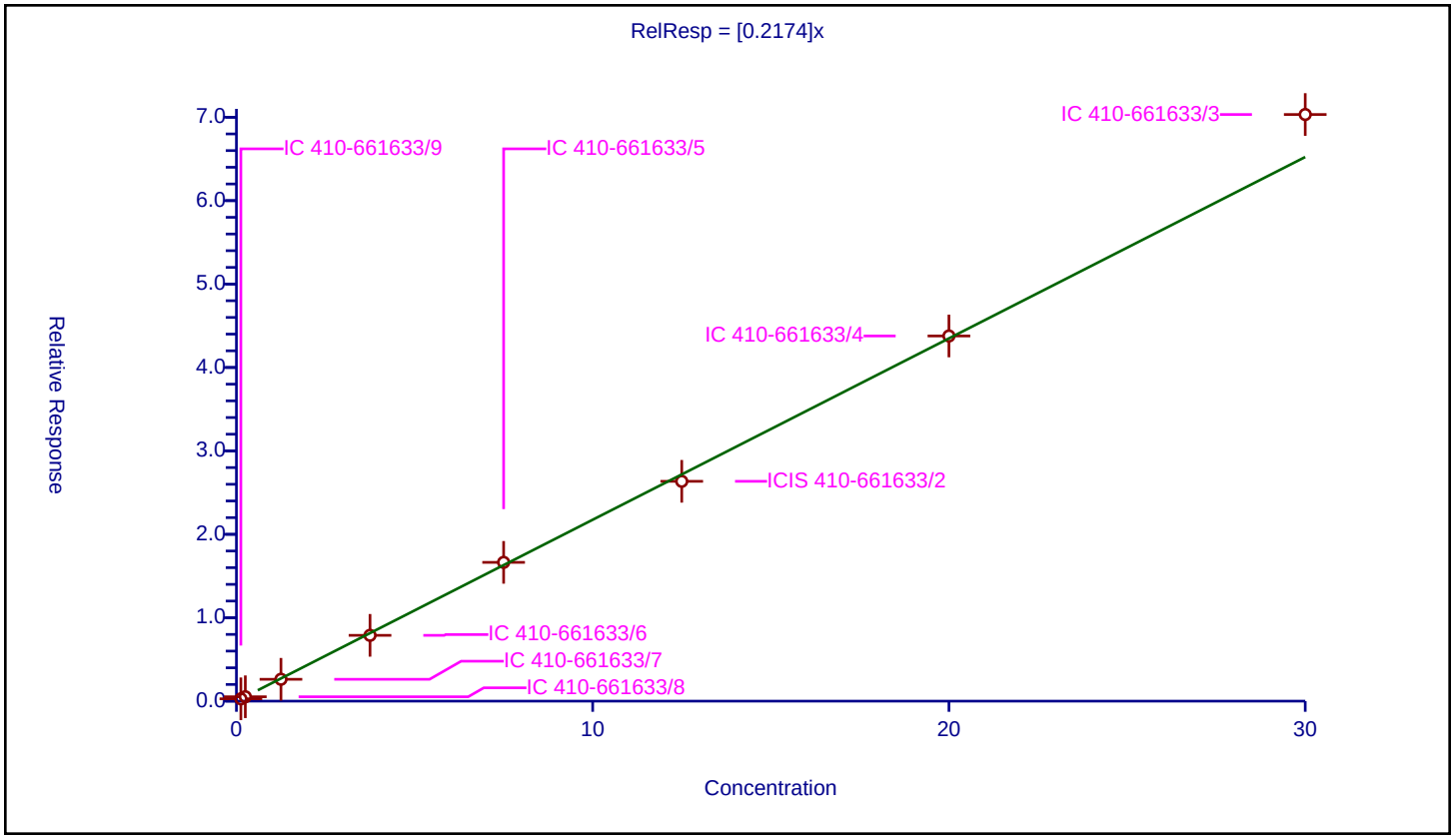
Curve Coefficients

Intercept:	0
Slope:	0.2174

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.027903	5.0	502809.0	0.223226	Y
2	IC 410-661633/8	0.25	0.05257	5.0	472984.0	0.210282	Y
3	IC 410-661633/7	1.25	0.262008	5.0	475519.0	0.209607	Y
4	IC 410-661633/6	3.75	0.788905	5.0	534976.0	0.210375	Y
5	IC 410-661633/5	7.5	1.663825	5.0	505071.0	0.221843	Y
6	ICIS 410-661633/2	12.5	2.635387	5.0	500342.0	0.210831	Y
7	IC 410-661633/4	20.0	4.377714	5.0	552270.0	0.218886	Y
8	IC 410-661633/3	30.0	7.032756	5.0	492767.0	0.234425	Y



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Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

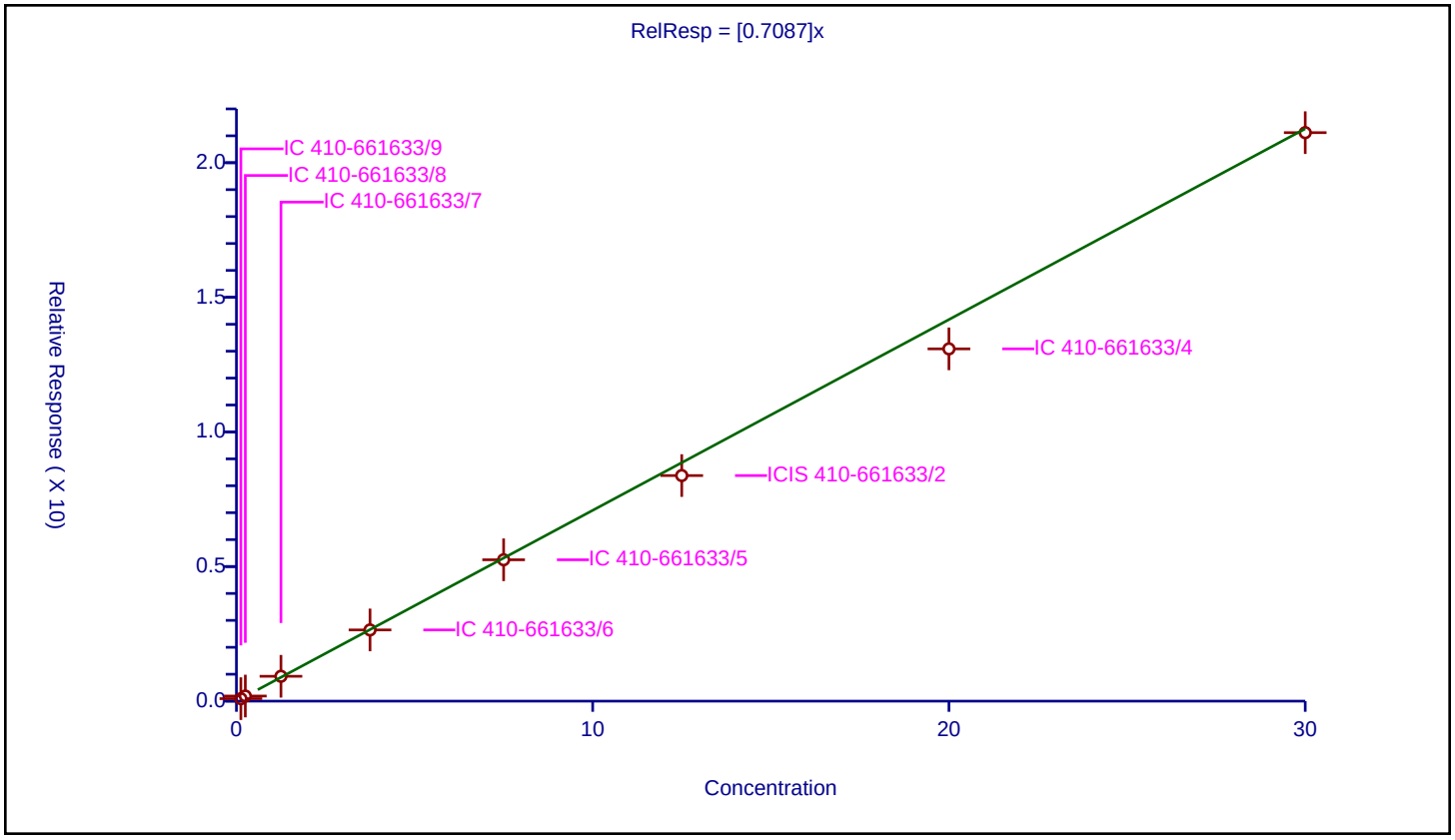
Curve Coefficients

Intercept:	0
Slope:	0.7087

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.092441	5.0	502809.0	0.739525	Y
2	IC 410-661633/8	0.25	0.189393	5.0	472984.0	0.757573	Y
3	IC 410-661633/7	1.25	0.923202	5.0	475519.0	0.738561	Y
4	IC 410-661633/6	3.75	2.645343	5.0	534976.0	0.705425	Y
5	IC 410-661633/5	7.5	5.251133	5.0	505071.0	0.700151	Y
6	ICIS 410-661633/2	12.5	8.379398	5.0	500342.0	0.670352	Y
7	IC 410-661633/4	20.0	13.086018	5.0	552270.0	0.654301	Y
8	IC 410-661633/3	30.0	21.117039	5.0	492767.0	0.703901	Y



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Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

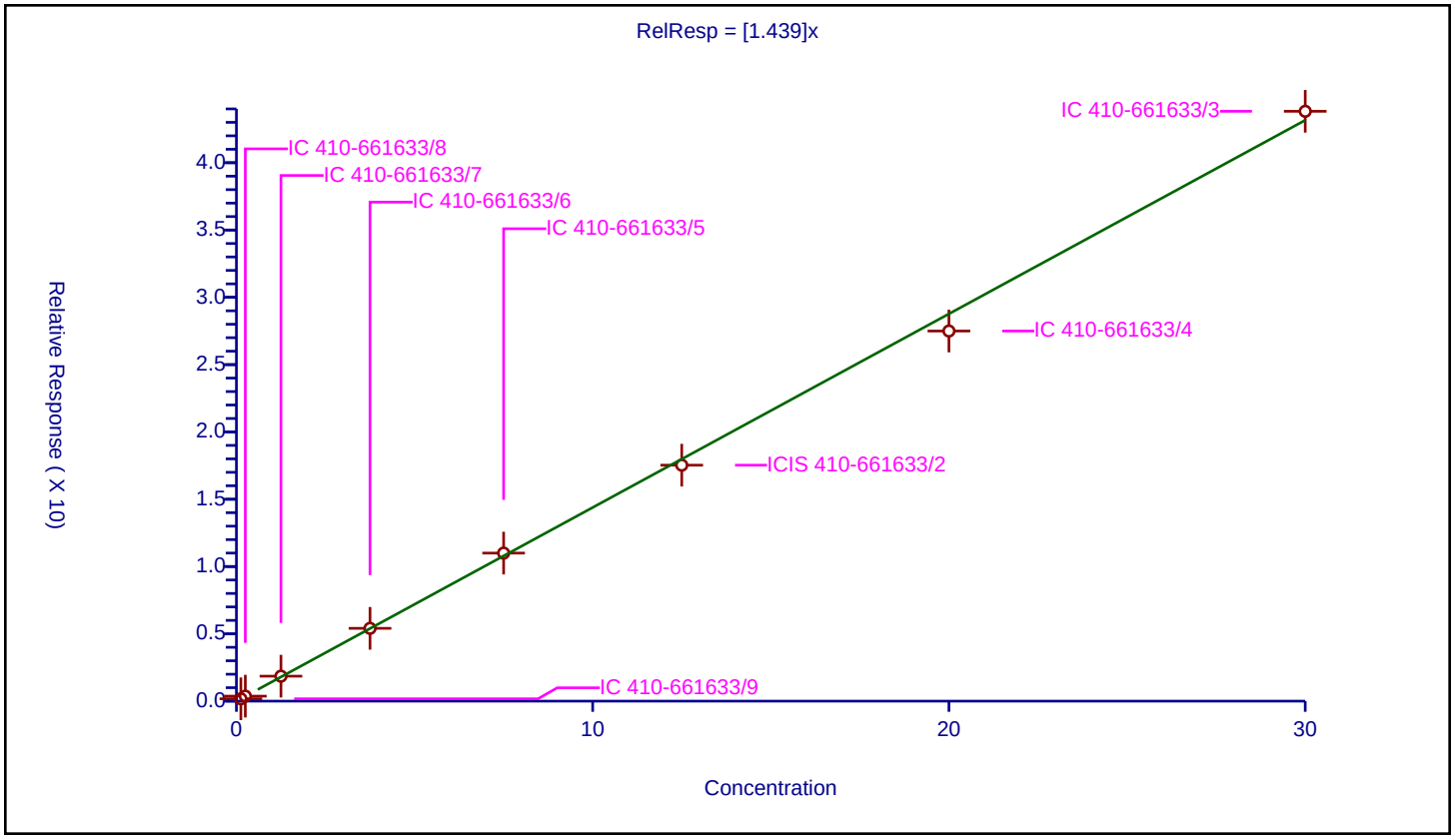
Curve Coefficients

Intercept:	0
Slope:	1.439

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.174241	5.0	502809.0	1.393929	Y
2	IC 410-661633/8	0.25	0.371017	5.0	472984.0	1.484067	Y
3	IC 410-661633/7	1.25	1.855078	5.0	475519.0	1.484063	Y
4	IC 410-661633/6	3.75	5.409187	5.0	534976.0	1.44245	Y
5	IC 410-661633/5	7.5	10.99782	5.0	505071.0	1.466376	Y
6	ICIS 410-661633/2	12.5	17.531319	5.0	500342.0	1.402505	Y
7	IC 410-661633/4	20.0	27.496433	5.0	552270.0	1.374822	Y
8	IC 410-661633/3	30.0	43.821624	5.0	492767.0	1.460721	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

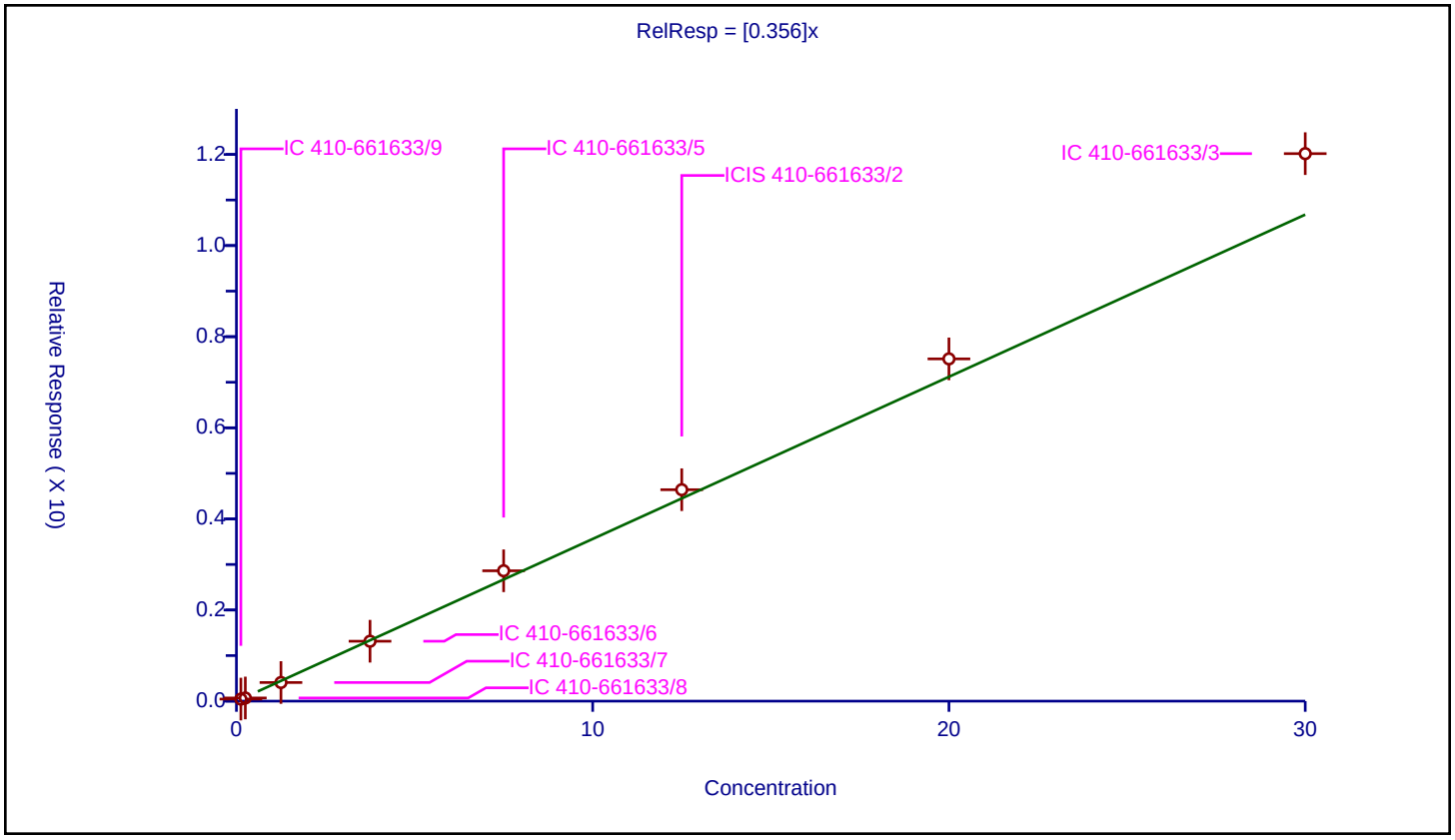
Curve Coefficients

Intercept:	0
Slope:	0.356

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.045455	5.0	502809.0	0.363637	Y
2	IC 410-661633/8	0.25	0.069252	5.0	472984.0	0.277007	Y
3	IC 410-661633/7	1.25	0.409142	5.0	475519.0	0.327314	Y
4	IC 410-661633/6	3.75	1.315246	5.0	534976.0	0.350732	Y
5	IC 410-661633/5	7.5	2.861657	5.0	505071.0	0.381554	Y
6	ICIS 410-661633/2	12.5	4.641085	5.0	500342.0	0.371287	Y
7	IC 410-661633/4	20.0	7.512874	5.0	552270.0	0.375644	Y
8	IC 410-661633/3	30.0	12.018073	5.0	492767.0	0.400602	Y



Calibration / 4-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

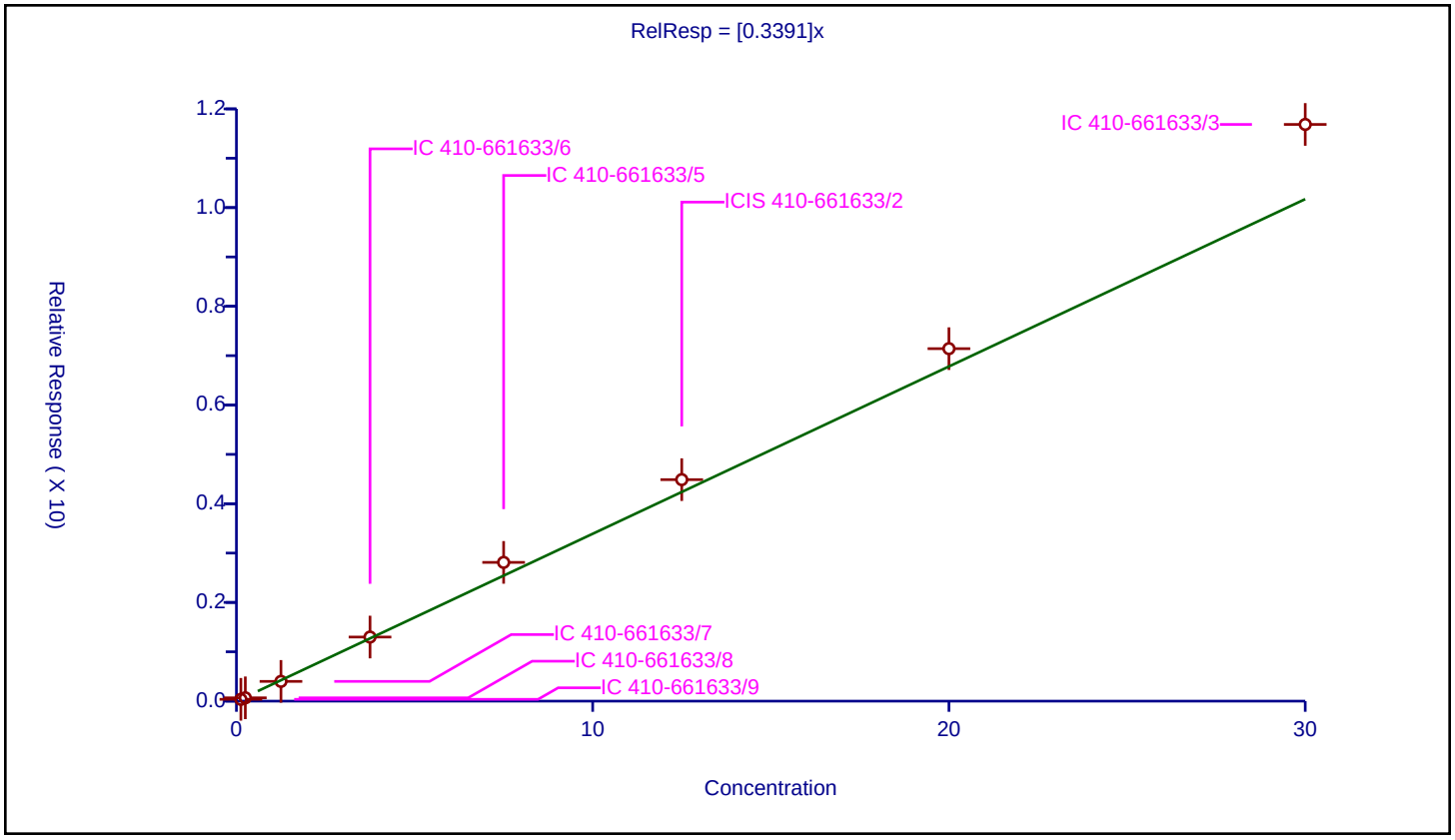
Curve Coefficients

Intercept:	0
Slope:	0.3391

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.037042	5.0	502809.0	0.296335	Y
2	IC 410-661633/8	0.25	0.067286	5.0	472984.0	0.269142	Y
3	IC 410-661633/7	1.25	0.400152	5.0	475519.0	0.320122	Y
4	IC 410-661633/6	3.75	1.298937	5.0	534976.0	0.346383	Y
5	IC 410-661633/5	7.5	2.811387	5.0	505071.0	0.374852	Y
6	ICIS 410-661633/2	12.5	4.48828	5.0	500342.0	0.359062	Y
7	IC 410-661633/4	20.0	7.142123	5.0	552270.0	0.357106	Y
8	IC 410-661633/3	30.0	11.685026	5.0	492767.0	0.389501	Y



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Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

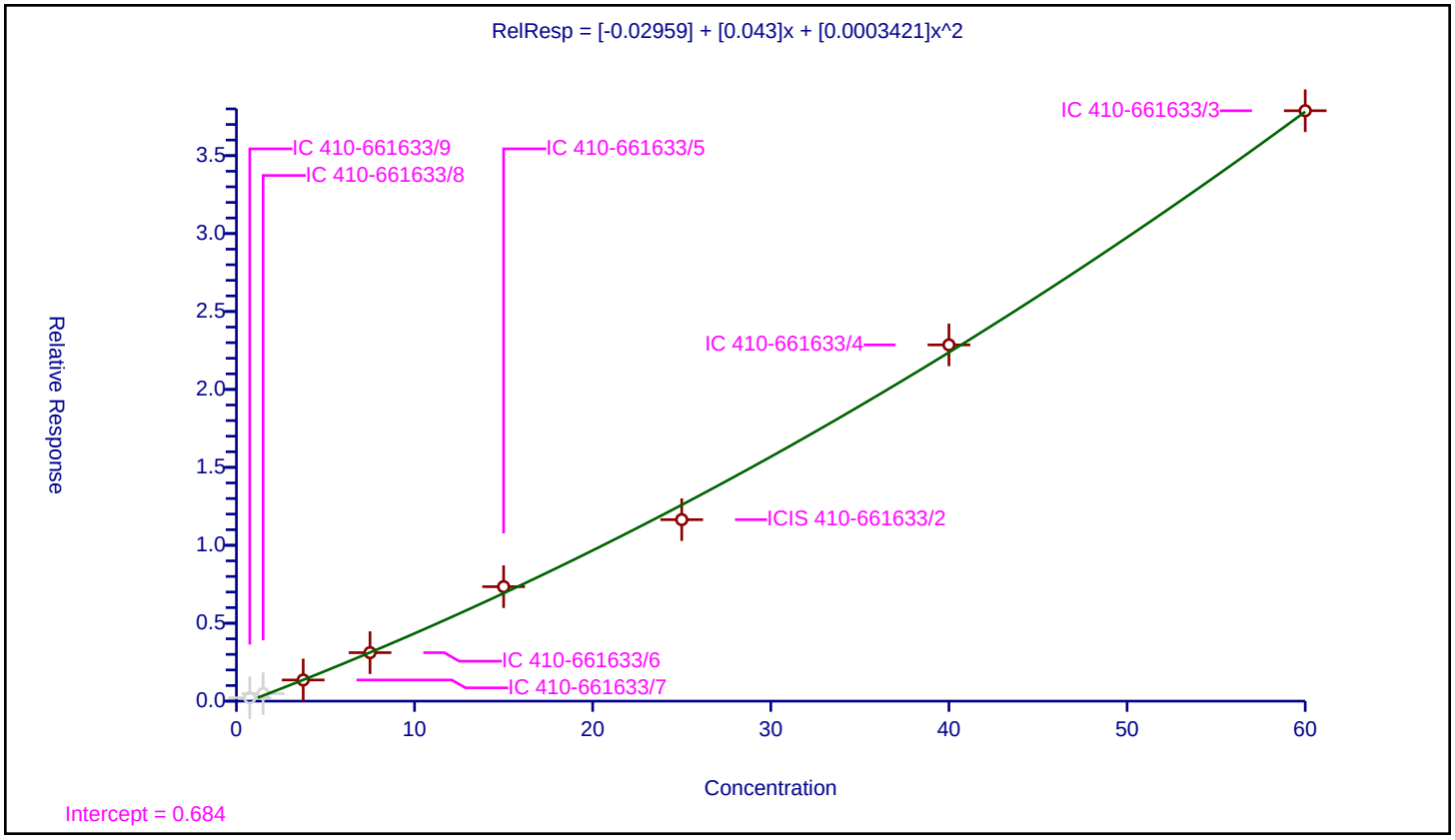
Curve Coefficients

Intercept:	-0.02959
Slope:	0.043
Second Order:	0.0003421

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.75	0.02169	5.0	1010165.0	0.028919	N
2	IC 410-661633/8	1.5	0.048119	5.0	970825.0	0.032079	N
3	IC 410-661633/7	3.75	0.135772	5.0	983596.0	0.036206	Y
4	IC 410-661633/6	7.5	0.311114	5.0	1073930.0	0.041482	Y
5	IC 410-661633/5	15.0	0.734347	5.0	1024693.0	0.048956	Y
6	ICIS 410-661633/2	25.0	1.164376	5.0	997272.0	0.046575	Y
7	IC 410-661633/4	40.0	2.285838	5.0	1118695.0	0.057146	Y
8	IC 410-661633/3	60.0	3.788214	5.0	1010504.0	0.063137	Y



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Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

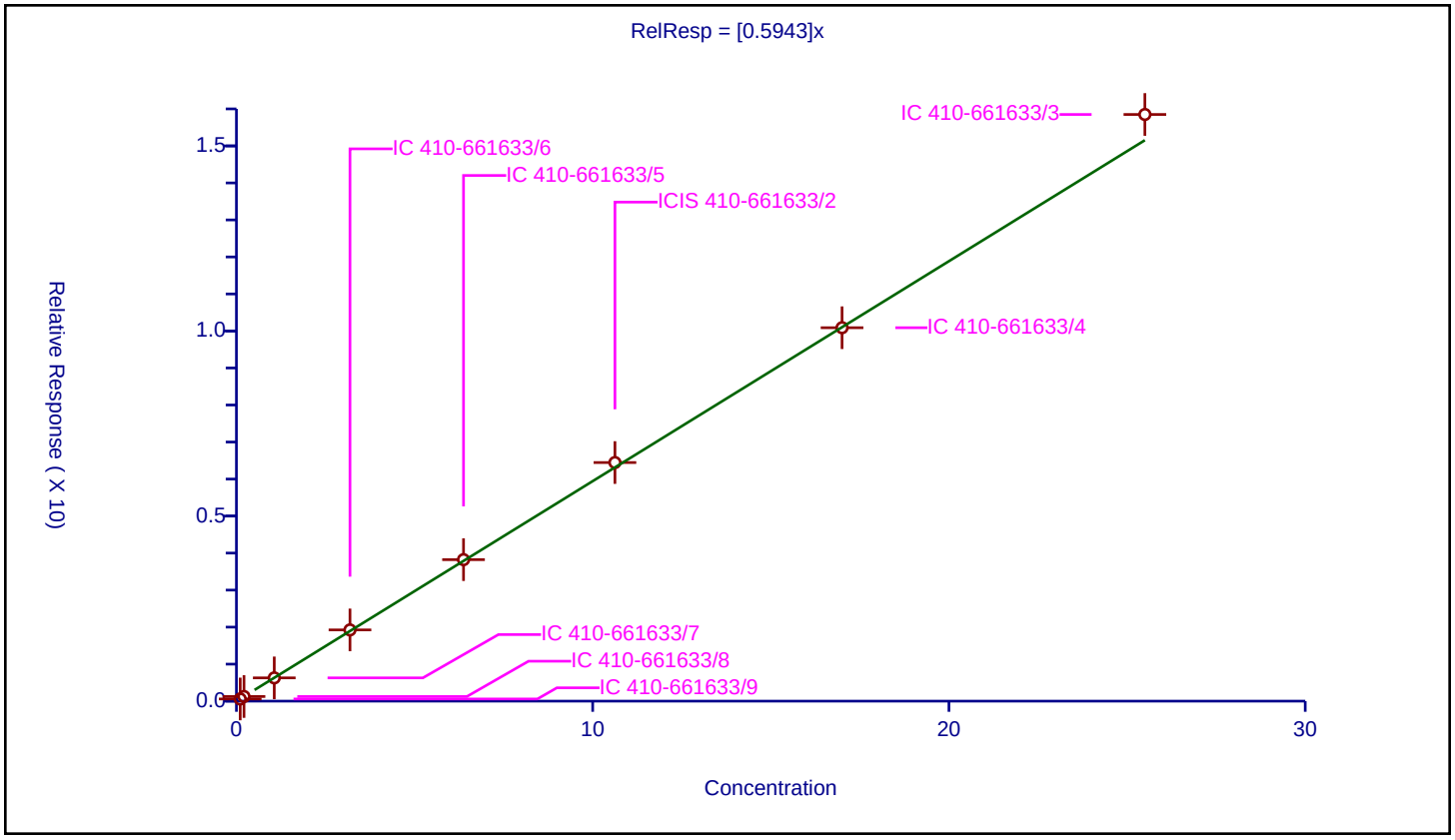
Curve Coefficients

Intercept:	0
Slope:	0.5943

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.10625	0.058599	5.0	1010165.0	0.551523	Y
2	IC 410-661633/8	0.2125	0.124528	5.0	970825.0	0.586015	Y
3	IC 410-661633/7	1.0625	0.628546	5.0	983596.0	0.591572	Y
4	IC 410-661633/6	3.1875	1.924665	5.0	1073930.0	0.603816	Y
5	IC 410-661633/5	6.375	3.822496	5.0	1024693.0	0.599607	Y
6	ICIS 410-661633/2	10.625	6.446035	5.0	997272.0	0.606686	Y
7	IC 410-661633/4	17.0	10.088036	5.0	1118695.0	0.593414	Y
8	IC 410-661633/3	25.5	15.849086	5.0	1010504.0	0.621533	Y



Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

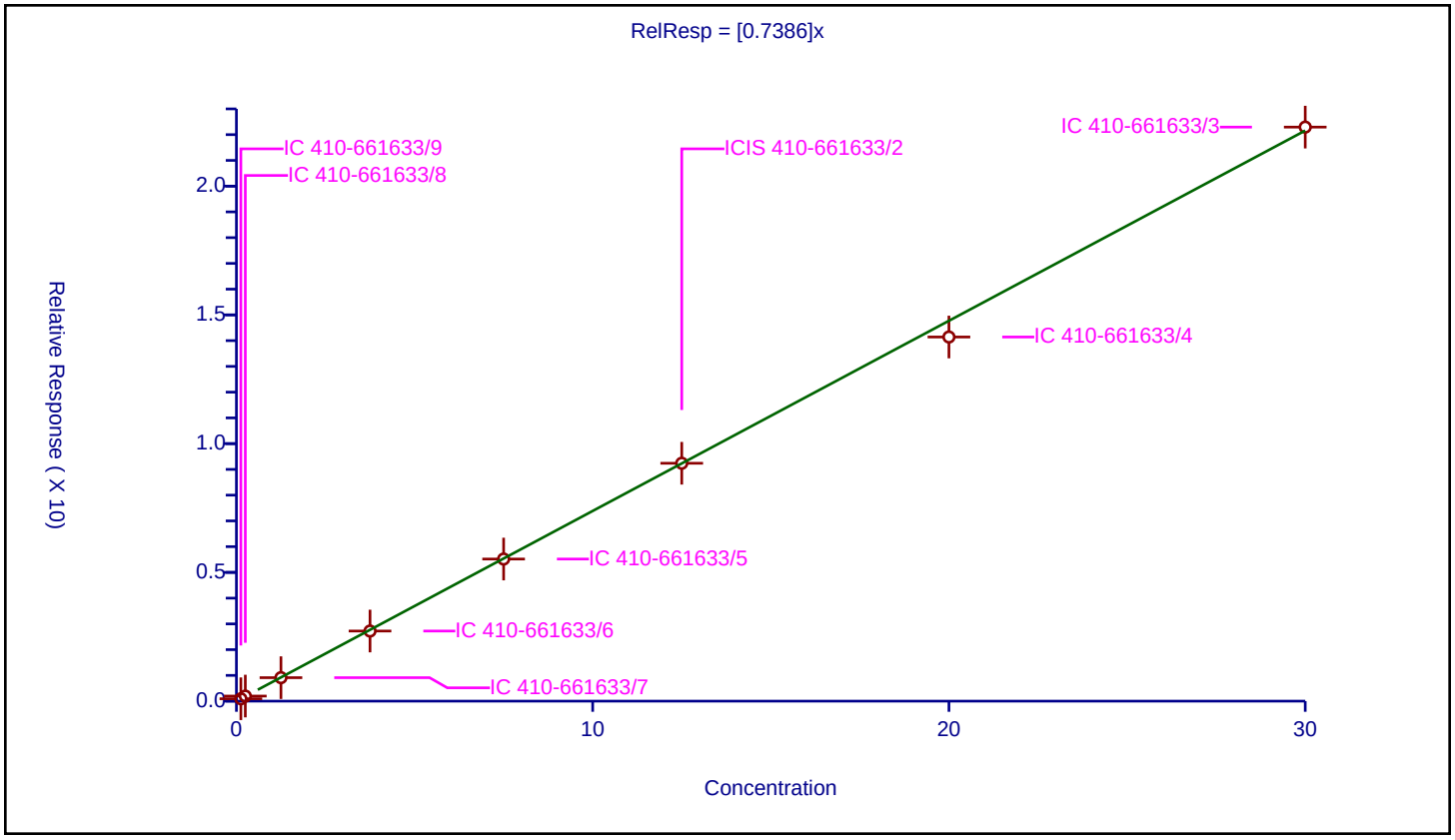
Curve Coefficients

Intercept:	0
Slope:	0.7386

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.092713	5.0	1010165.0	0.741701	Y
2	IC 410-661633/8	0.25	0.196518	5.0	970825.0	0.786074	Y
3	IC 410-661633/7	1.25	0.91199	5.0	983596.0	0.729592	Y
4	IC 410-661633/6	3.75	2.722808	5.0	1073930.0	0.726082	Y
5	IC 410-661633/5	7.5	5.518677	5.0	1024693.0	0.735824	Y
6	ICIS 410-661633/2	12.5	9.238282	5.0	997272.0	0.739063	Y
7	IC 410-661633/4	20.0	14.141164	5.0	1118695.0	0.707058	Y
8	IC 410-661633/3	30.0	22.292391	5.0	1010504.0	0.74308	Y



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Calibration / 2,4,6-Tribromophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

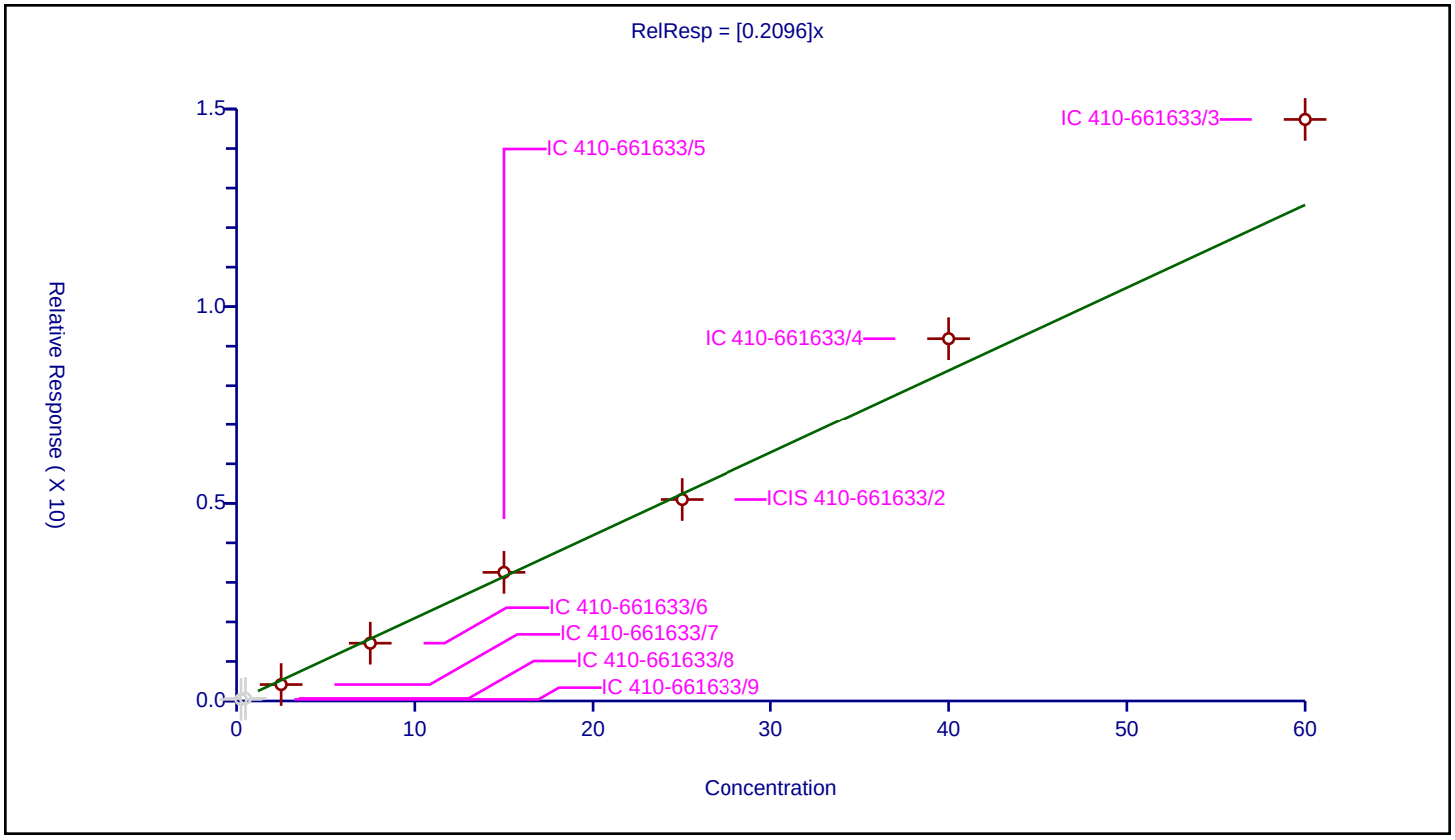
Curve Coefficients

Intercept:	0
Slope:	0.2096

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.040095	5.0	502809.0	0.160379	N
2	IC 410-661633/8	0.5	0.064939	5.0	472984.0	0.129878	N
3	IC 410-661633/7	2.5	0.415998	5.0	475519.0	0.166399	Y
4	IC 410-661633/6	7.5	1.462421	5.0	534976.0	0.194989	Y
5	IC 410-661633/5	15.0	3.253741	5.0	505071.0	0.216916	Y
6	ICIS 410-661633/2	25.0	5.096804	5.0	500342.0	0.203872	Y
7	IC 410-661633/4	40.0	9.18978	5.0	552270.0	0.229745	Y
8	IC 410-661633/3	60.0	14.736082	5.0	492767.0	0.245601	Y



Calibration / Sulfotepp

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

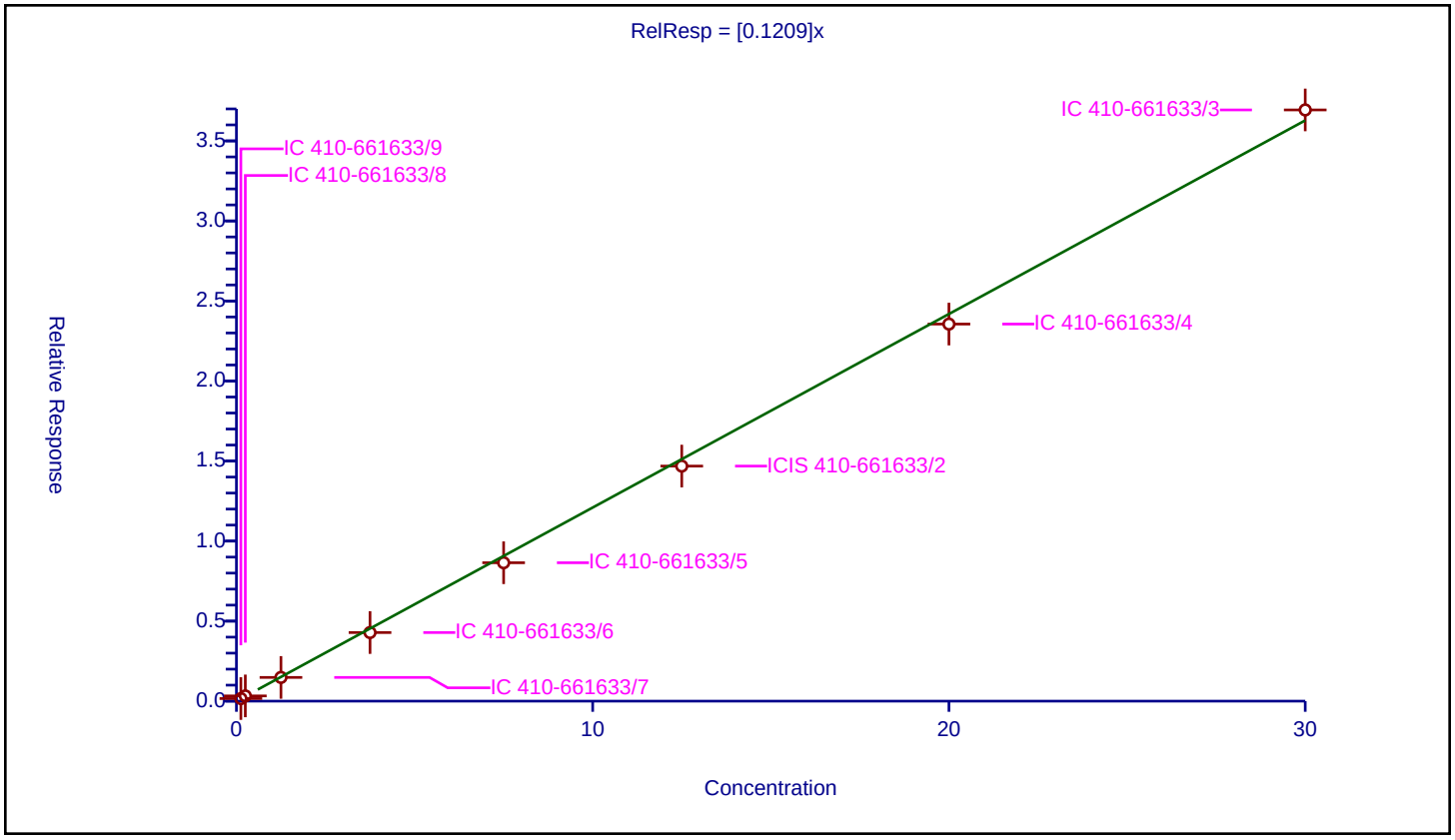
Curve Coefficients

Intercept:	0
Slope:	0.1209

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.016304	5.0	1010165.0	0.130434	Y
2	IC 410-661633/8	0.25	0.032622	5.0	970825.0	0.130487	Y
3	IC 410-661633/7	1.25	0.148216	5.0	983596.0	0.118573	Y
4	IC 410-661633/6	3.75	0.428603	5.0	1073930.0	0.114294	Y
5	IC 410-661633/5	7.5	0.864678	5.0	1024693.0	0.11529	Y
6	ICIS 410-661633/2	12.5	1.468471	5.0	997272.0	0.117478	Y
7	IC 410-661633/4	20.0	2.355736	5.0	1118695.0	0.117787	Y
8	IC 410-661633/3	30.0	3.693533	5.0	1010504.0	0.123118	Y



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Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

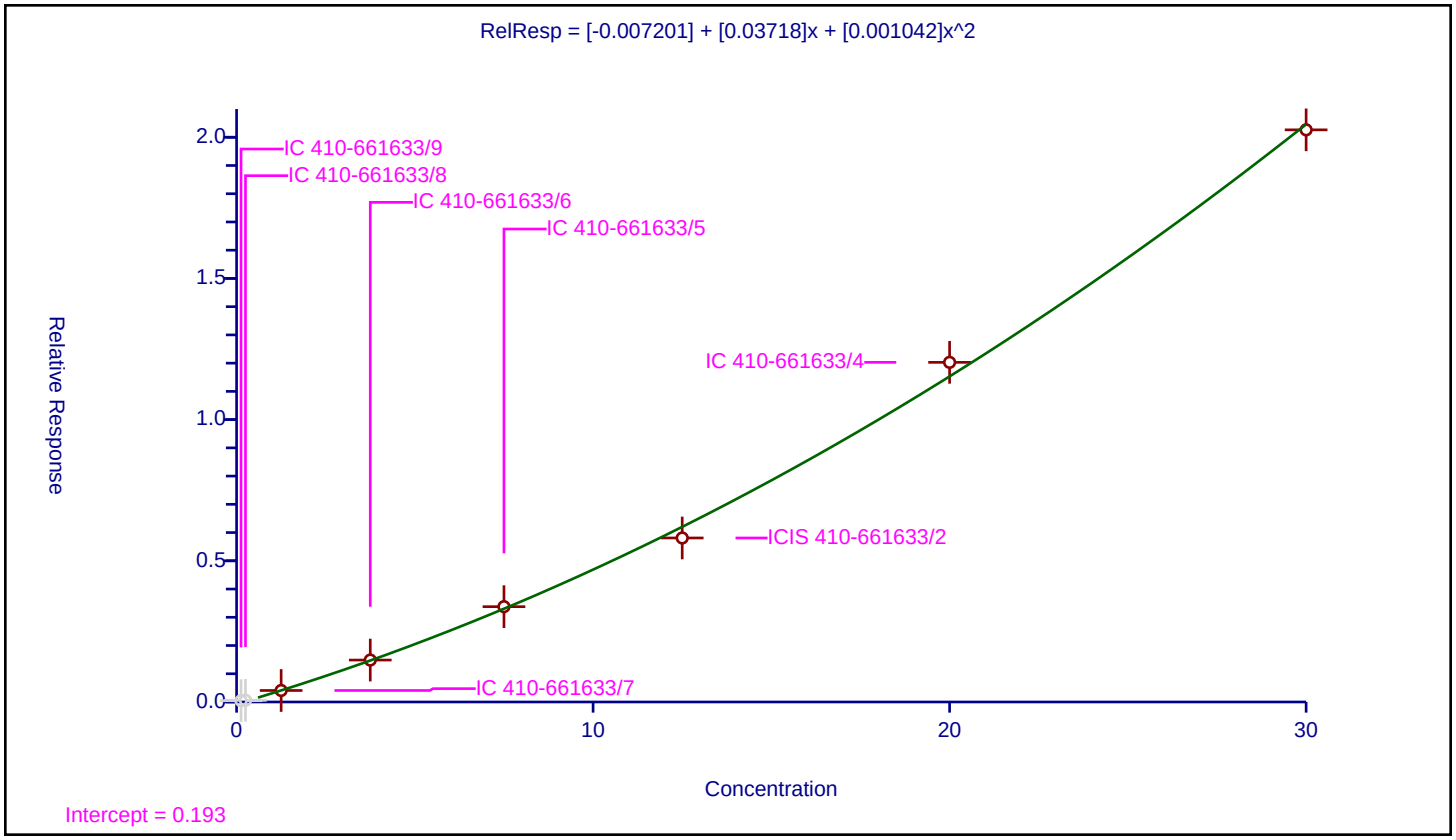
Curve Coefficients

Intercept:	-0.007201
Slope:	0.03718
Second Order:	0.001042

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.00446	5.0	1010165.0	0.035677	N
2	IC 410-661633/8	0.25	0.005938	5.0	970825.0	0.023753	N
3	IC 410-661633/7	1.25	0.040738	5.0	983596.0	0.032591	Y
4	IC 410-661633/6	3.75	0.148534	5.0	1073930.0	0.039609	Y
5	IC 410-661633/5	7.5	0.337594	5.0	1024693.0	0.045013	Y
6	ICIS 410-661633/2	12.5	0.58089	5.0	997272.0	0.046471	Y
7	IC 410-661633/4	20.0	1.20283	5.0	1118695.0	0.060142	Y
8	IC 410-661633/3	30.0	2.026281	5.0	1010504.0	0.067543	Y



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Calibration / cis-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

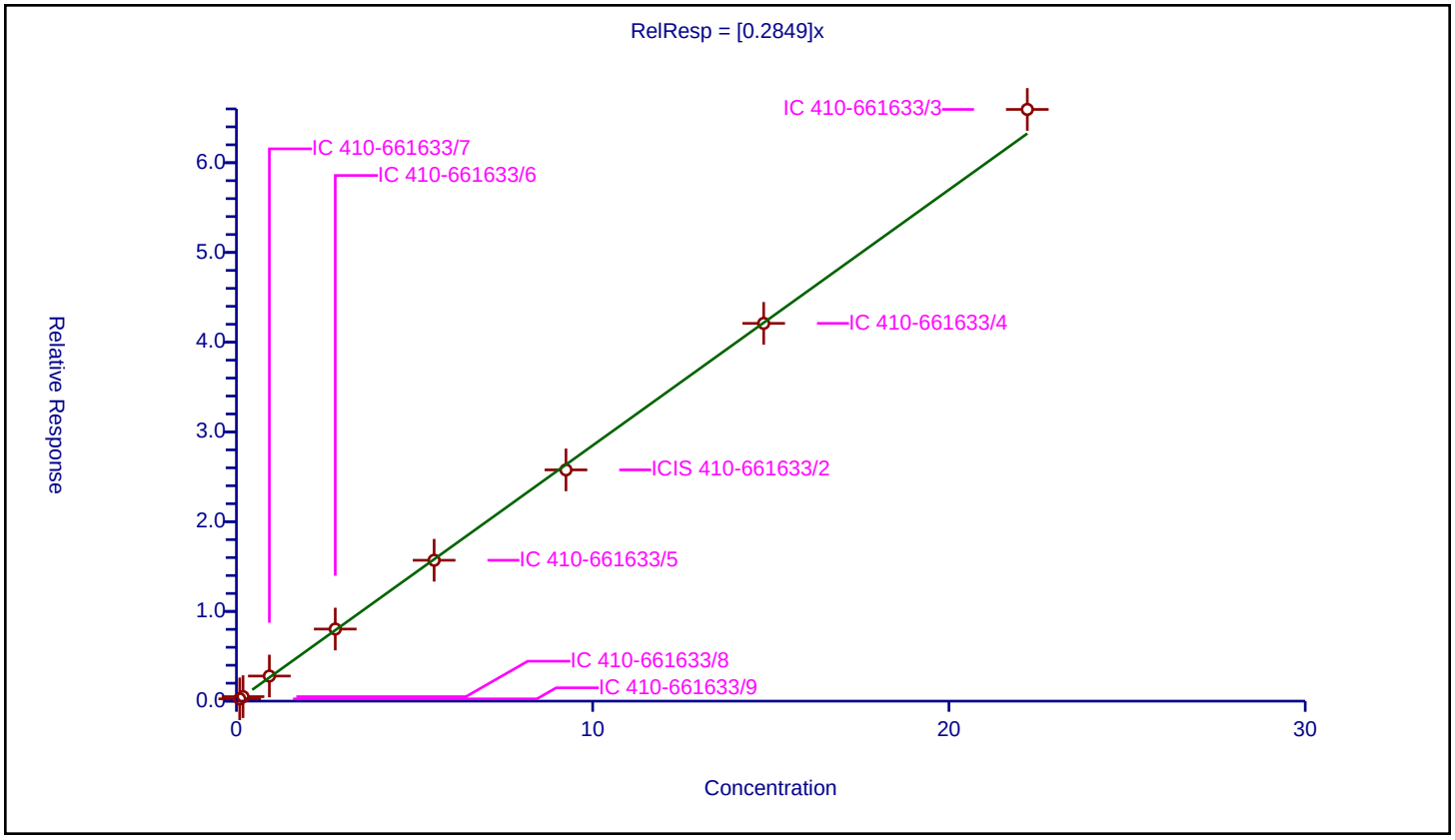
Curve Coefficients

Intercept:	0
Slope:	0.2849

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.0925	0.025352	5.0	1010165.0	0.274079	Y
2	IC 410-661633/8	0.185	0.05003	5.0	970825.0	0.27043	Y
3	IC 410-661633/7	0.925	0.27979	5.0	983596.0	0.302475	Y
4	IC 410-661633/6	2.775	0.803451	5.0	1073930.0	0.289532	Y
5	IC 410-661633/5	5.55	1.569909	5.0	1024693.0	0.282867	Y
6	ICIS 410-661633/2	9.25	2.57711	5.0	997272.0	0.278607	Y
7	IC 410-661633/4	14.8	4.209727	5.0	1118695.0	0.284441	Y
8	IC 410-661633/3	22.2	6.593977	5.0	1010504.0	0.297026	Y



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Calibration / Phenacetin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

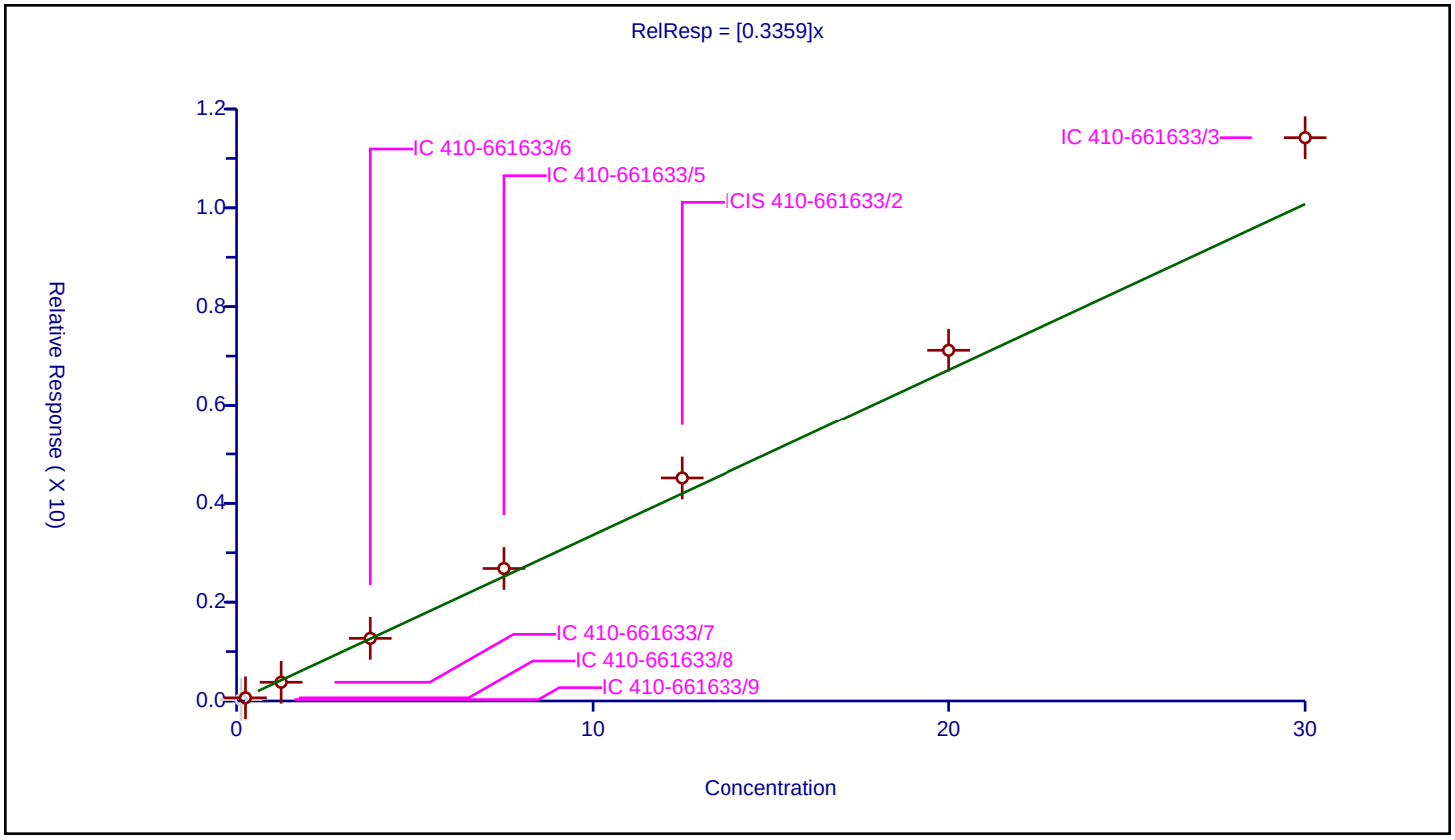
Curve Coefficients

Intercept:	0
Slope:	0.3359

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.028188	5.0	1010165.0	0.225508	N
2	IC 410-661633/8	0.25	0.063719	5.0	970825.0	0.254876	Y
3	IC 410-661633/7	1.25	0.378951	5.0	983596.0	0.303161	Y
4	IC 410-661633/6	3.75	1.26742	5.0	1073930.0	0.337979	Y
5	IC 410-661633/5	7.5	2.681164	5.0	1024693.0	0.357489	Y
6	ICIS 410-661633/2	12.5	4.513162	5.0	997272.0	0.361053	Y
7	IC 410-661633/4	20.0	7.117409	5.0	1118695.0	0.35587	Y
8	IC 410-661633/3	30.0	11.420024	5.0	1010504.0	0.380667	Y



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Calibration / Phorate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

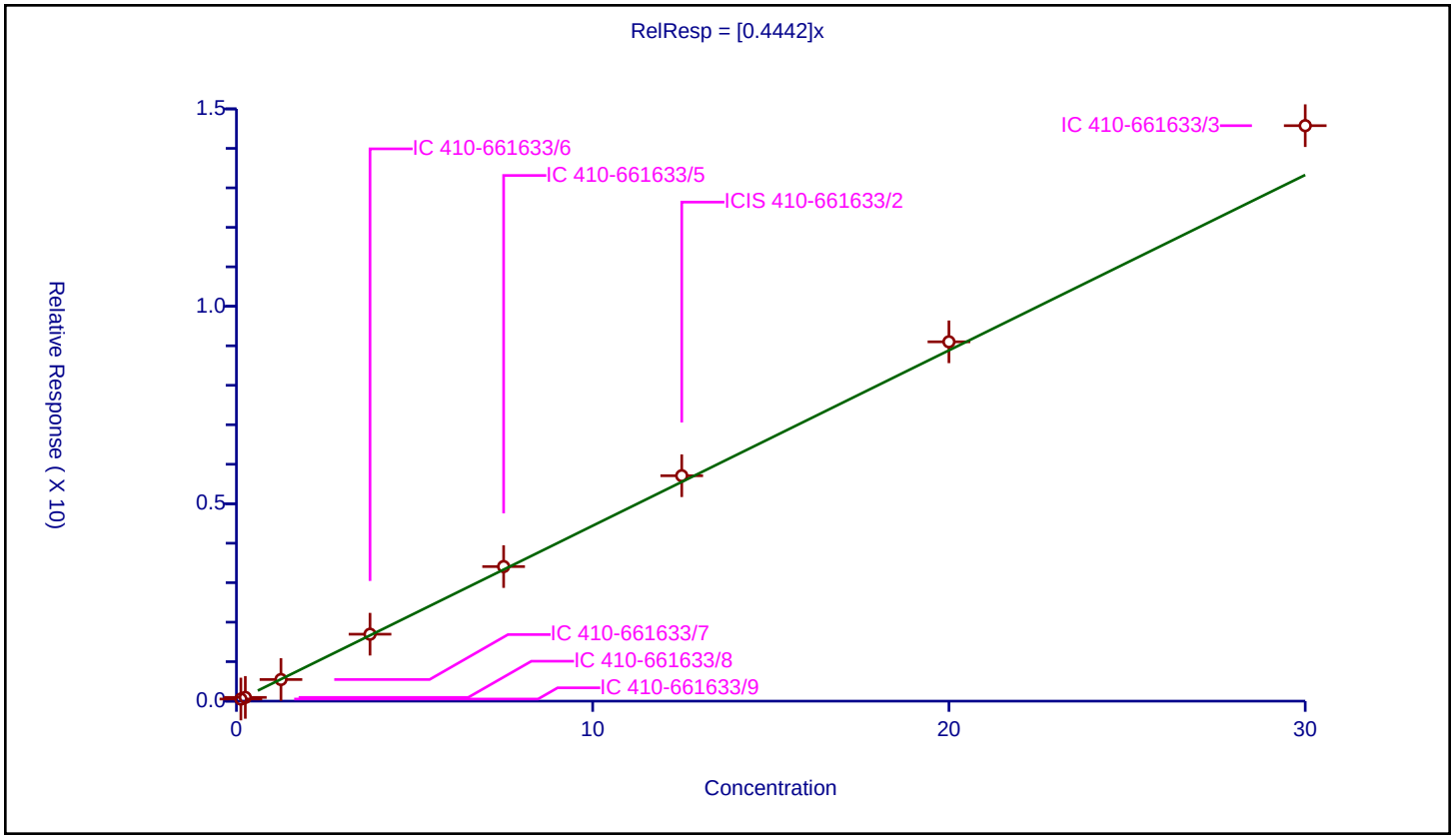
Curve Coefficients

Intercept:	0
Slope:	0.4442

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.053952	5.0	1010165.0	0.431613	Y
2	IC 410-661633/8	0.25	0.095012	5.0	970825.0	0.380048	Y
3	IC 410-661633/7	1.25	0.547562	5.0	983596.0	0.43805	Y
4	IC 410-661633/6	3.75	1.695436	5.0	1073930.0	0.452116	Y
5	IC 410-661633/5	7.5	3.408553	5.0	1024693.0	0.454474	Y
6	ICIS 410-661633/2	12.5	5.70931	5.0	997272.0	0.456745	Y
7	IC 410-661633/4	20.0	9.100675	5.0	1118695.0	0.455034	Y
8	IC 410-661633/3	30.0	14.574866	5.0	1010504.0	0.485829	Y



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Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

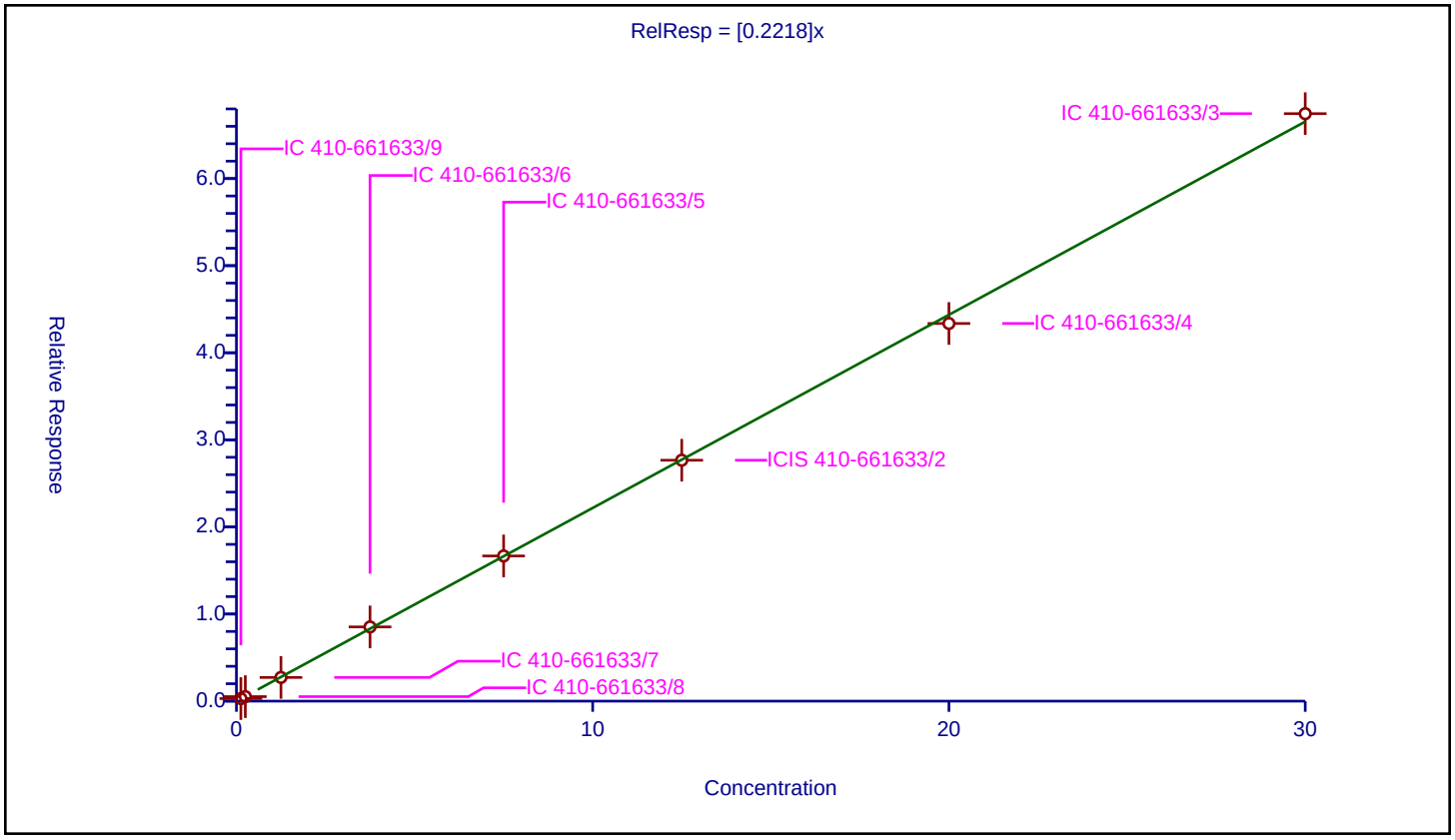
Curve Coefficients

Intercept:	0
Slope:	0.2218

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.02956	5.0	1010165.0	0.236476	Y
2	IC 410-661633/8	0.25	0.051966	5.0	970825.0	0.207864	Y
3	IC 410-661633/7	1.25	0.272027	5.0	983596.0	0.217622	Y
4	IC 410-661633/6	3.75	0.852025	5.0	1073930.0	0.227207	Y
5	IC 410-661633/5	7.5	1.666694	5.0	1024693.0	0.222226	Y
6	ICIS 410-661633/2	12.5	2.766206	5.0	997272.0	0.221296	Y
7	IC 410-661633/4	20.0	4.336119	5.0	1118695.0	0.216806	Y
8	IC 410-661633/3	30.0	6.745292	5.0	1010504.0	0.224843	Y



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Calibration / trans-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

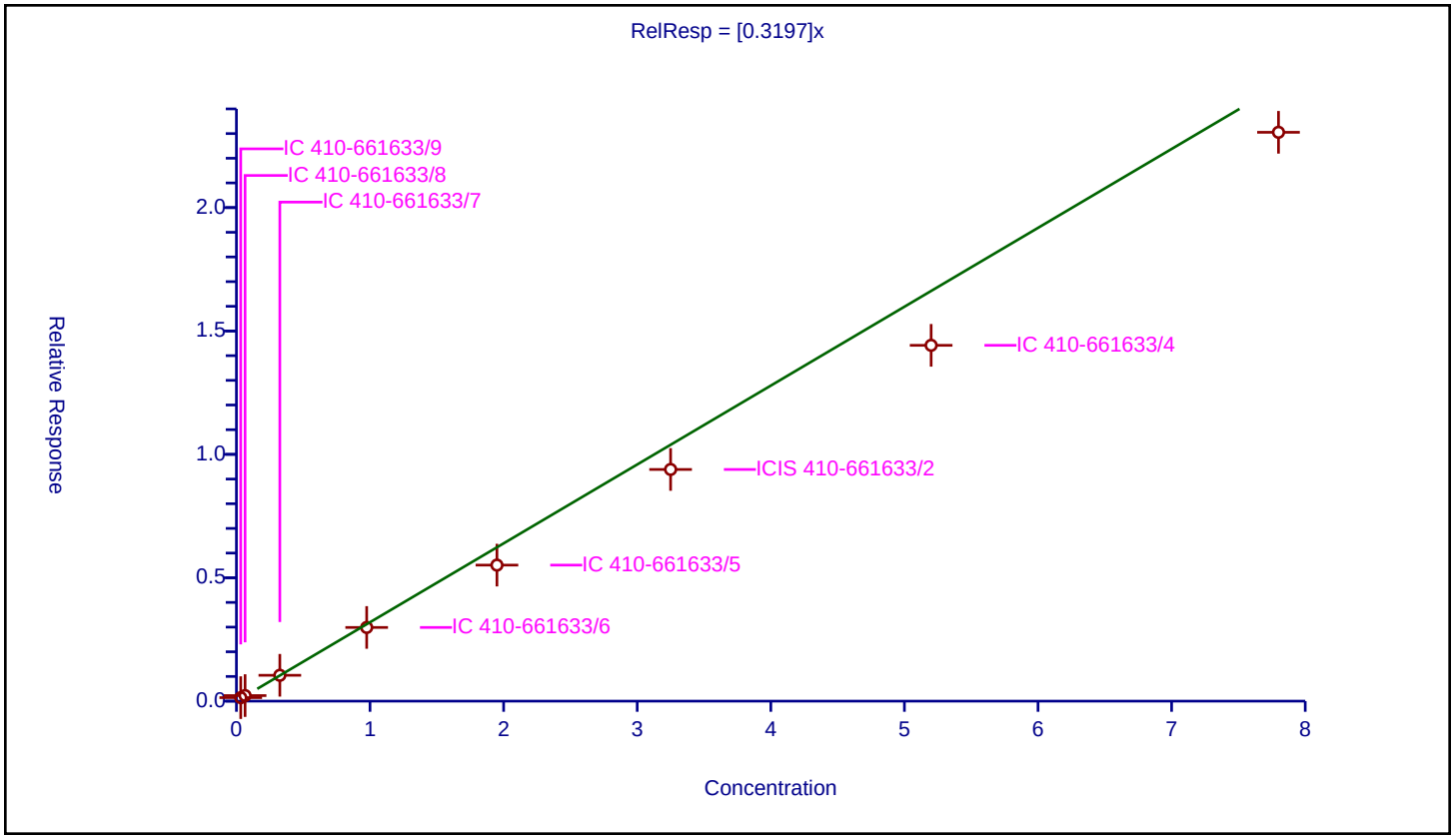
Curve Coefficients

Intercept:	0
Slope:	0.3197

Error Coefficients

Relative Standard Deviation:	16.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.0325	0.01422	5.0	1010165.0	0.437552	Y
2	IC 410-661633/8	0.065	0.022543	5.0	970825.0	0.346811	Y
3	IC 410-661633/7	0.325	0.104703	5.0	983596.0	0.322162	Y
4	IC 410-661633/6	0.975	0.298641	5.0	1073930.0	0.306299	Y
5	IC 410-661633/5	1.95	0.551224	5.0	1024693.0	0.282679	Y
6	ICIS 410-661633/2	3.25	0.938876	5.0	997272.0	0.288885	Y
7	IC 410-661633/4	5.2	1.441881	5.0	1118695.0	0.277285	Y
8	IC 410-661633/3	7.8	2.305152	5.0	1010504.0	0.295532	Y



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Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

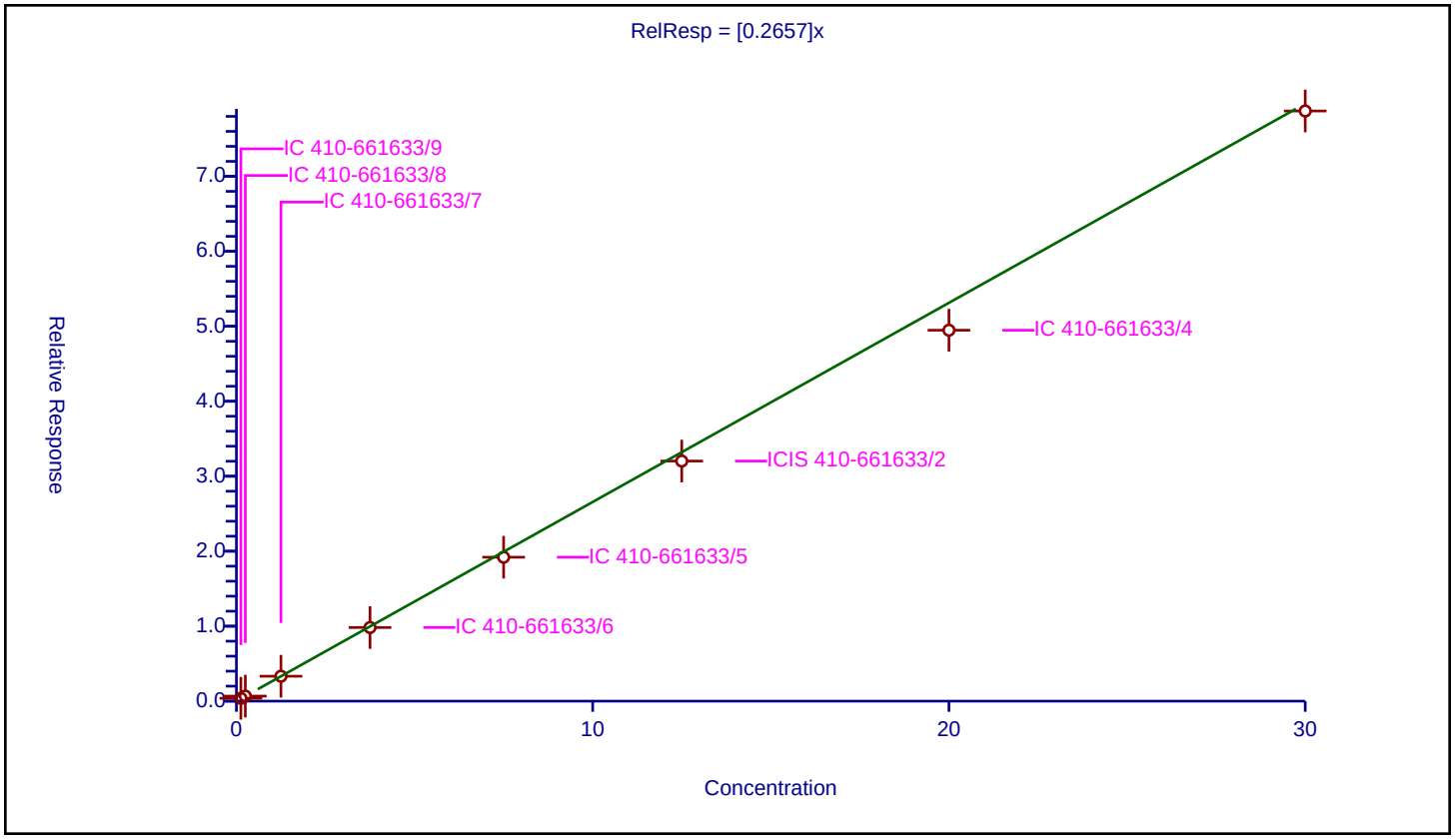
Curve Coefficients

Intercept:	0
Slope:	0.2657

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.038316	5.0	1010165.0	0.306524	Y
2	IC 410-661633/8	0.25	0.067262	5.0	970825.0	0.26905	Y
3	IC 410-661633/7	1.25	0.332291	5.0	983596.0	0.265833	Y
4	IC 410-661633/6	3.75	0.982052	5.0	1073930.0	0.261881	Y
5	IC 410-661633/5	7.5	1.919604	5.0	1024693.0	0.255947	Y
6	ICIS 410-661633/2	12.5	3.202562	5.0	997272.0	0.256205	Y
7	IC 410-661633/4	20.0	4.947778	5.0	1118695.0	0.247389	Y
8	IC 410-661633/3	30.0	7.871908	5.0	1010504.0	0.262397	Y



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Calibration / Dimethoate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

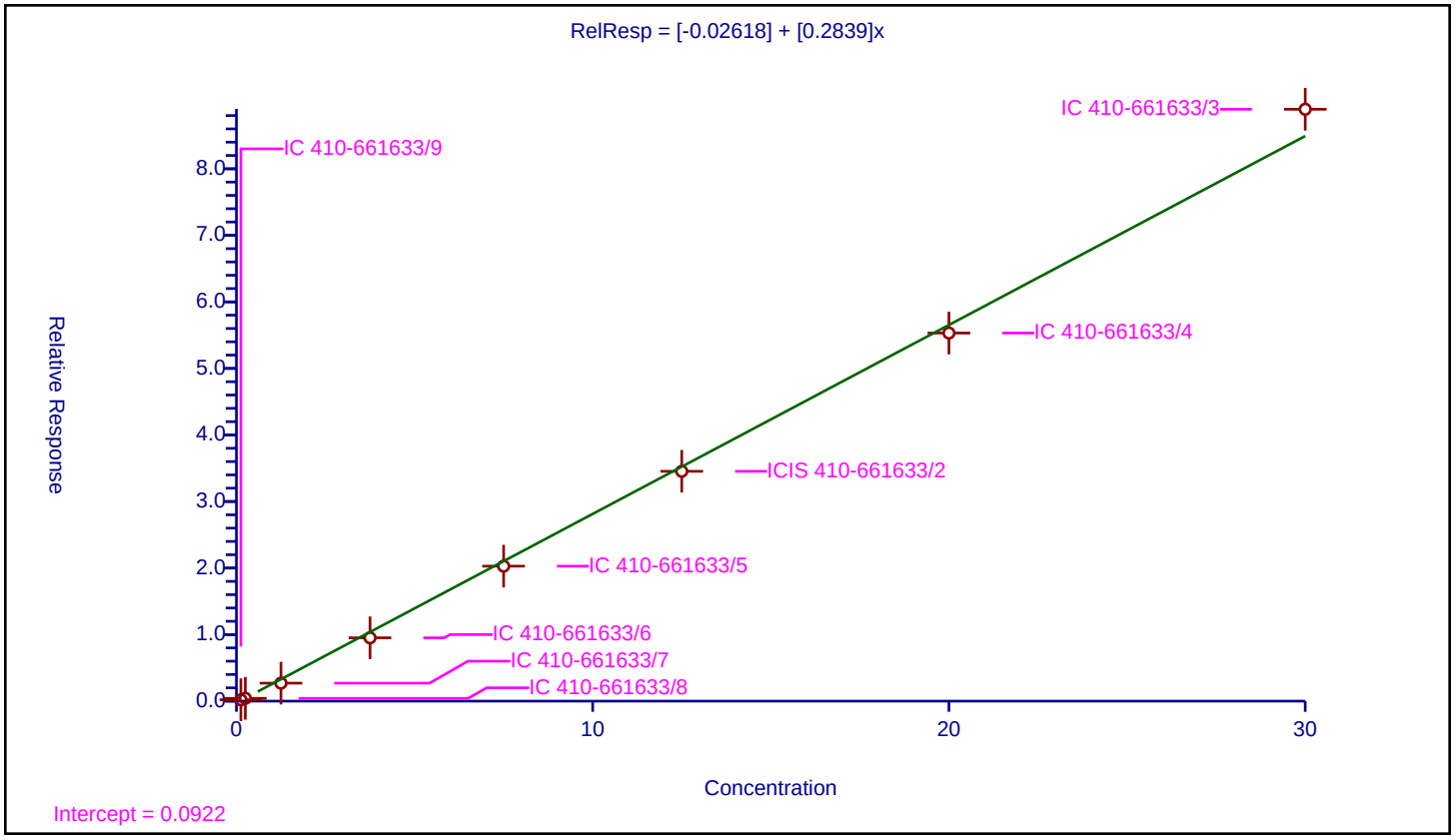
Curve Coefficients

Intercept:	-0.02618
Slope:	0.2839

Error Coefficients

Relative Standard Deviation:	15.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.020393	5.0	1010165.0	0.163142	Y
2	IC 410-661633/8	0.25	0.042155	5.0	970825.0	0.168619	Y
3	IC 410-661633/7	1.25	0.27039	5.0	983596.0	0.216312	Y
4	IC 410-661633/6	3.75	0.951519	5.0	1073930.0	0.253738	Y
5	IC 410-661633/5	7.5	2.028671	5.0	1024693.0	0.270489	Y
6	ICIS 410-661633/2	12.5	3.453912	5.0	997272.0	0.276313	Y
7	IC 410-661633/4	20.0	5.53145	5.0	1118695.0	0.276572	Y
8	IC 410-661633/3	30.0	8.894433	5.0	1010504.0	0.296481	Y



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Calibration / Atrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

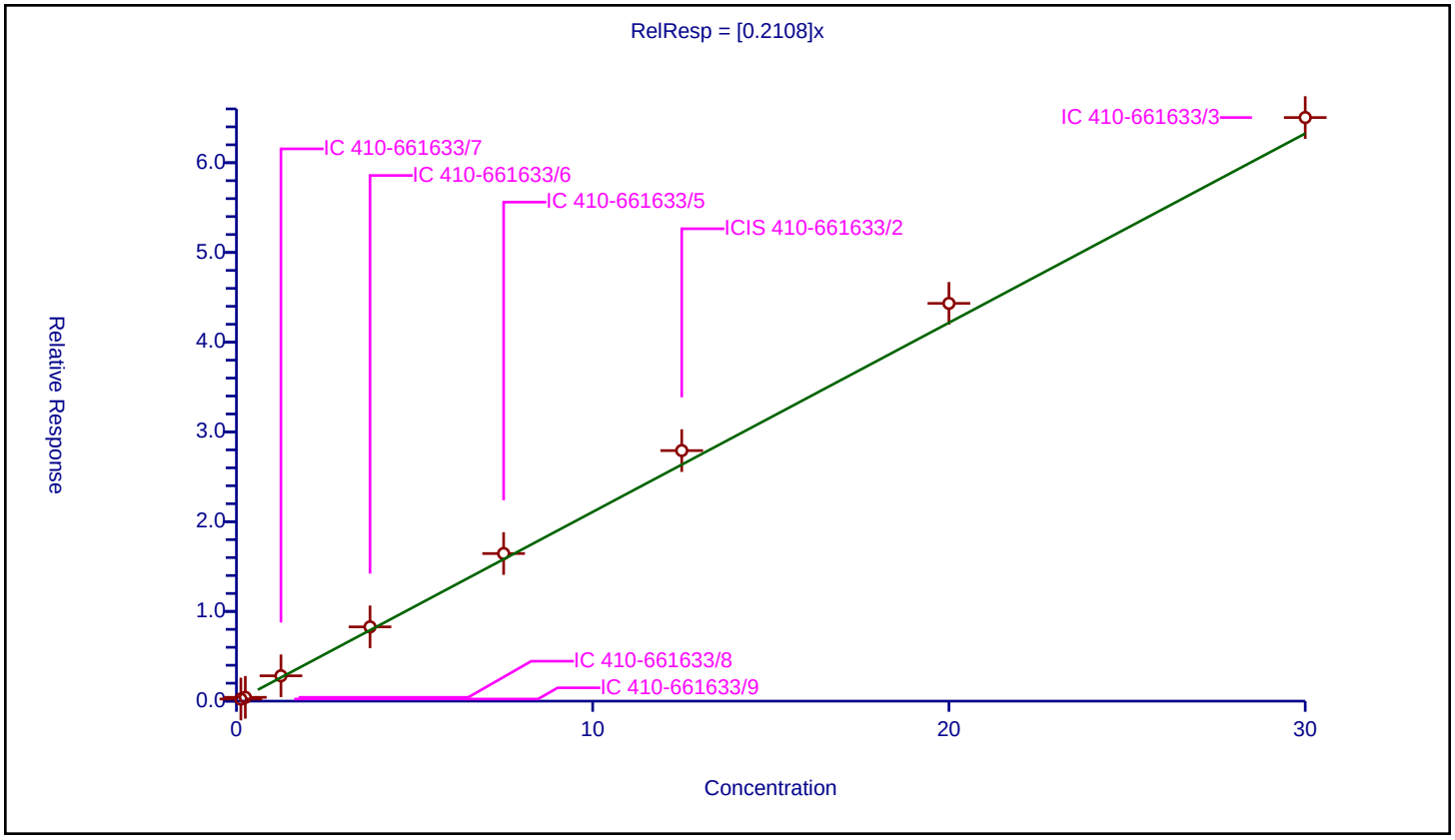
Curve Coefficients

Intercept:	0
Slope:	0.2108

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.023575	5.0	1010165.0	0.188603	Y
2	IC 410-661633/8	0.25	0.042629	5.0	970825.0	0.170515	Y
3	IC 410-661633/7	1.25	0.282275	5.0	983596.0	0.22582	Y
4	IC 410-661633/6	3.75	0.827587	5.0	1073930.0	0.22069	Y
5	IC 410-661633/5	7.5	1.645049	5.0	1024693.0	0.21934	Y
6	ICIS 410-661633/2	12.5	2.792292	5.0	997272.0	0.223383	Y
7	IC 410-661633/4	20.0	4.432772	5.0	1118695.0	0.221639	Y
8	IC 410-661633/3	30.0	6.503576	5.0	1010504.0	0.216786	Y



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Calibration / Pentachlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

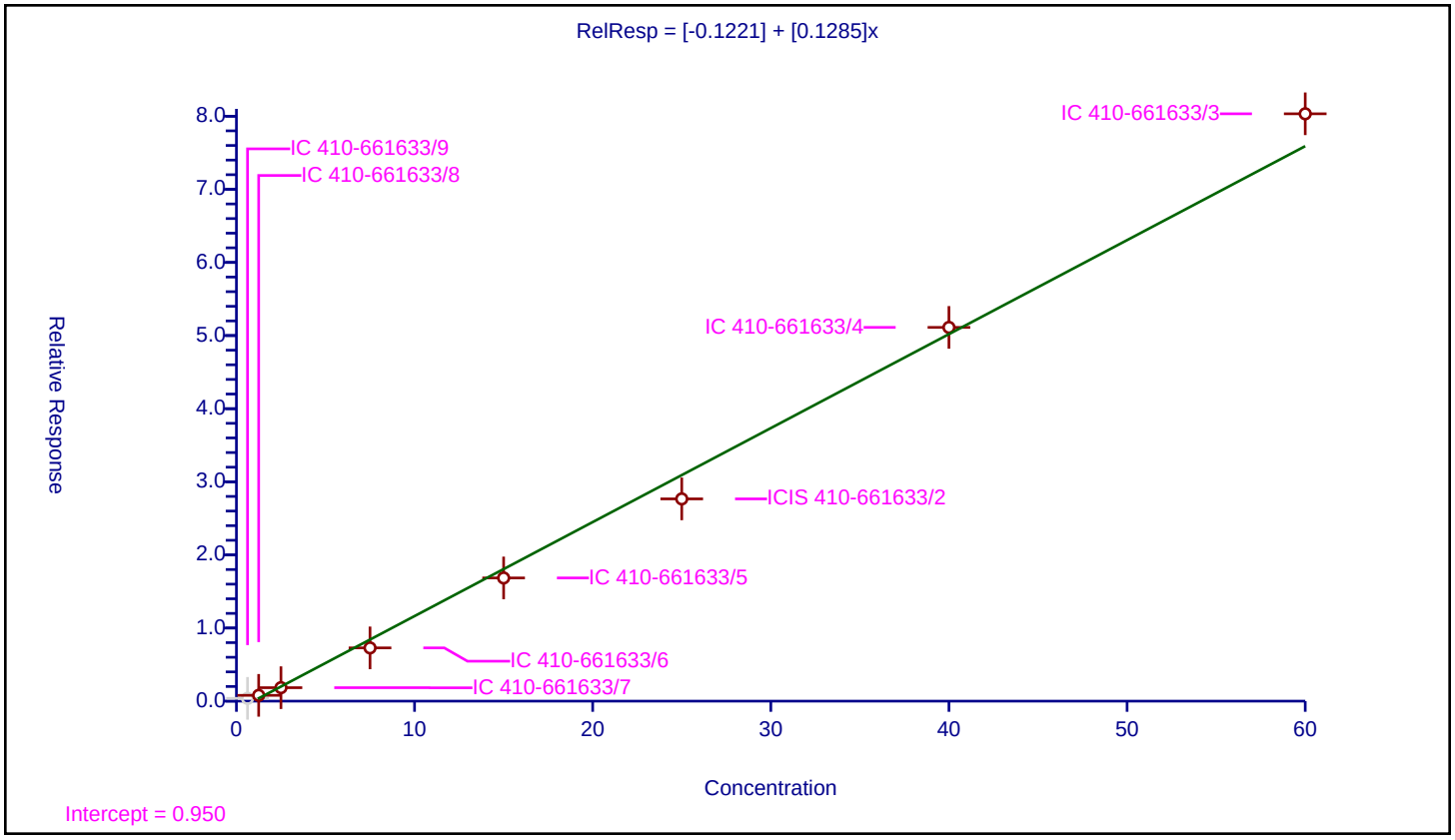
Curve Coefficients

Intercept:	-0.1221
Slope:	0.1285

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.625	0.037905	5.0	1010165.0	0.060648	N
2	IC 410-661633/8	1.25	0.079319	5.0	970825.0	0.063455	Y
3	IC 410-661633/7	2.5	0.184181	5.0	983596.0	0.073673	Y
4	IC 410-661633/6	7.5	0.72819	5.0	1073930.0	0.097092	Y
5	IC 410-661633/5	15.0	1.685051	5.0	1024693.0	0.112337	Y
6	ICIS 410-661633/2	25.0	2.765895	5.0	997272.0	0.110636	Y
7	IC 410-661633/4	40.0	5.111487	5.0	1118695.0	0.127787	Y
8	IC 410-661633/3	60.0	8.032962	5.0	1010504.0	0.133883	Y



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Calibration / 4-Aminobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

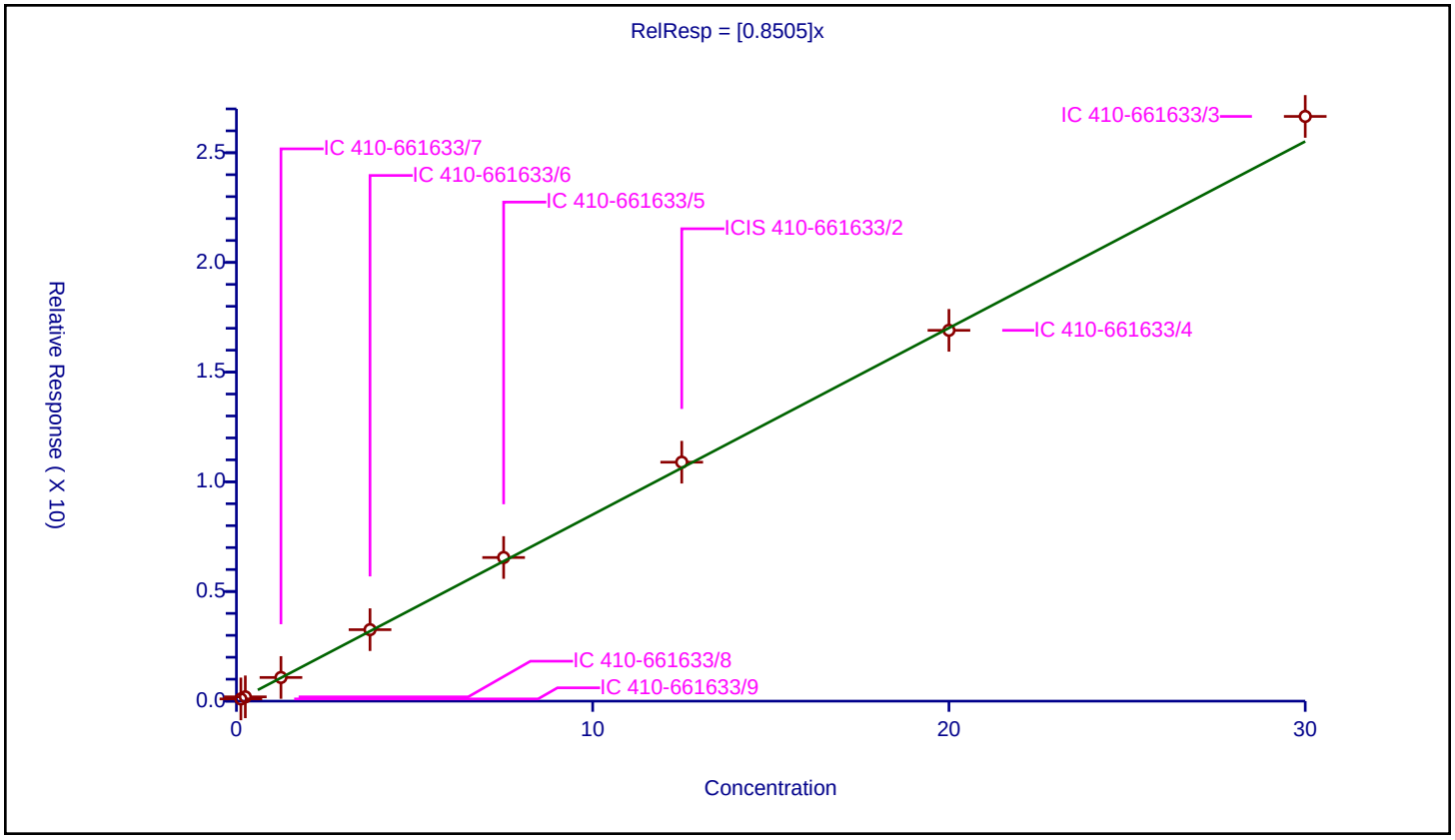
Curve Coefficients

Intercept:	0
Slope:	0.8505

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.101305	5.0	1010165.0	0.810442	Y
2	IC 410-661633/8	0.25	0.195777	5.0	970825.0	0.783107	Y
3	IC 410-661633/7	1.25	1.079295	5.0	983596.0	0.863436	Y
4	IC 410-661633/6	3.75	3.258346	5.0	1073930.0	0.868892	Y
5	IC 410-661633/5	7.5	6.548166	5.0	1024693.0	0.873089	Y
6	ICIS 410-661633/2	12.5	10.893823	5.0	997272.0	0.871506	Y
7	IC 410-661633/4	20.0	16.905501	5.0	1118695.0	0.845275	Y
8	IC 410-661633/3	30.0	26.656337	5.0	1010504.0	0.888545	Y



Calibration / Pentachloronitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

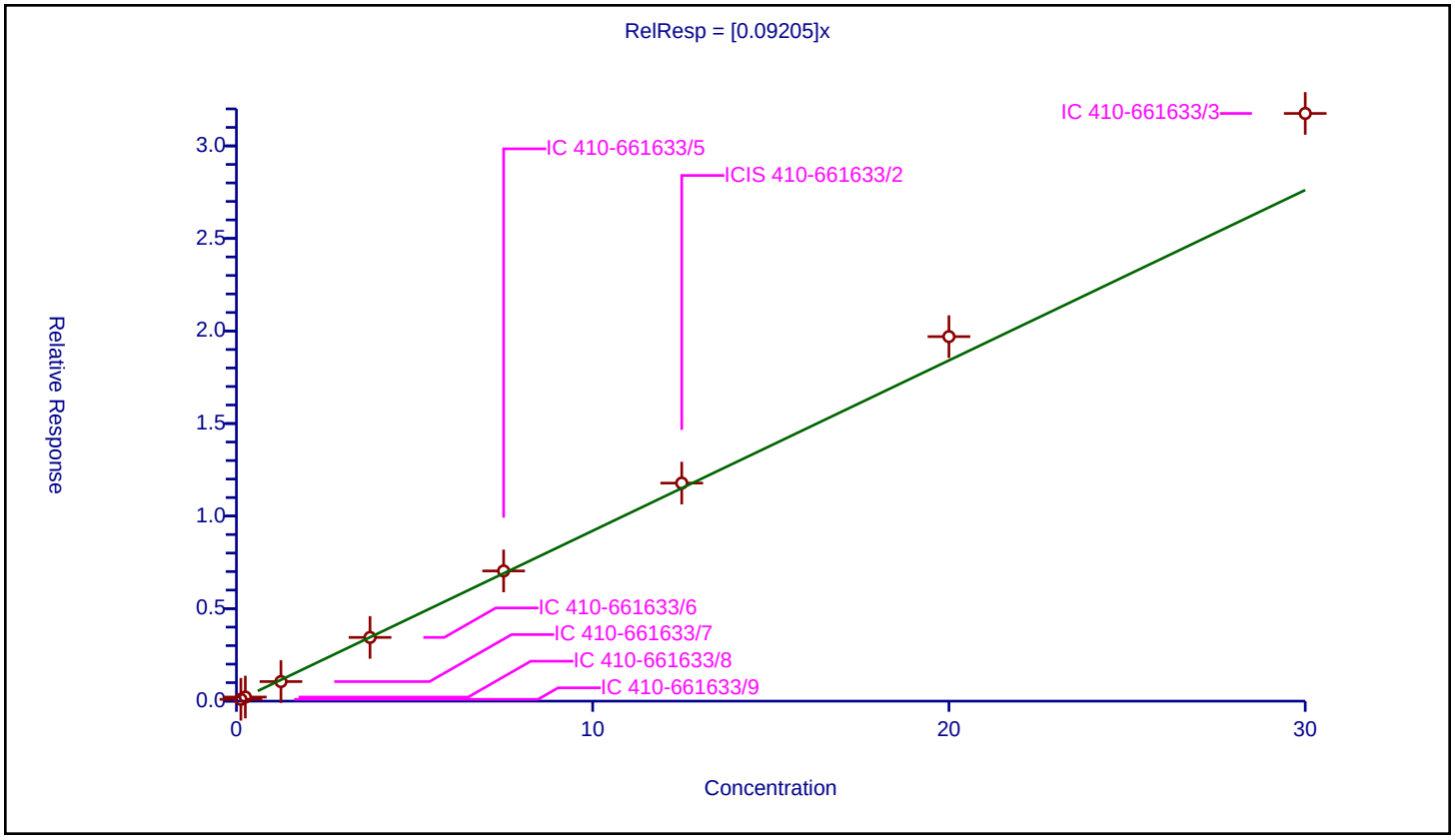
Curve Coefficients

Intercept:	0
Slope:	0.09205

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.009904	5.0	1010165.0	0.079235	Y
2	IC 410-661633/8	0.25	0.022115	5.0	970825.0	0.088461	Y
3	IC 410-661633/7	1.25	0.105648	5.0	983596.0	0.084518	Y
4	IC 410-661633/6	3.75	0.344292	5.0	1073930.0	0.091811	Y
5	IC 410-661633/5	7.5	0.703479	5.0	1024693.0	0.093797	Y
6	ICIS 410-661633/2	12.5	1.178079	5.0	997272.0	0.094246	Y
7	IC 410-661633/4	20.0	1.969599	5.0	1118695.0	0.09848	Y
8	IC 410-661633/3	30.0	3.17546	5.0	1010504.0	0.105849	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

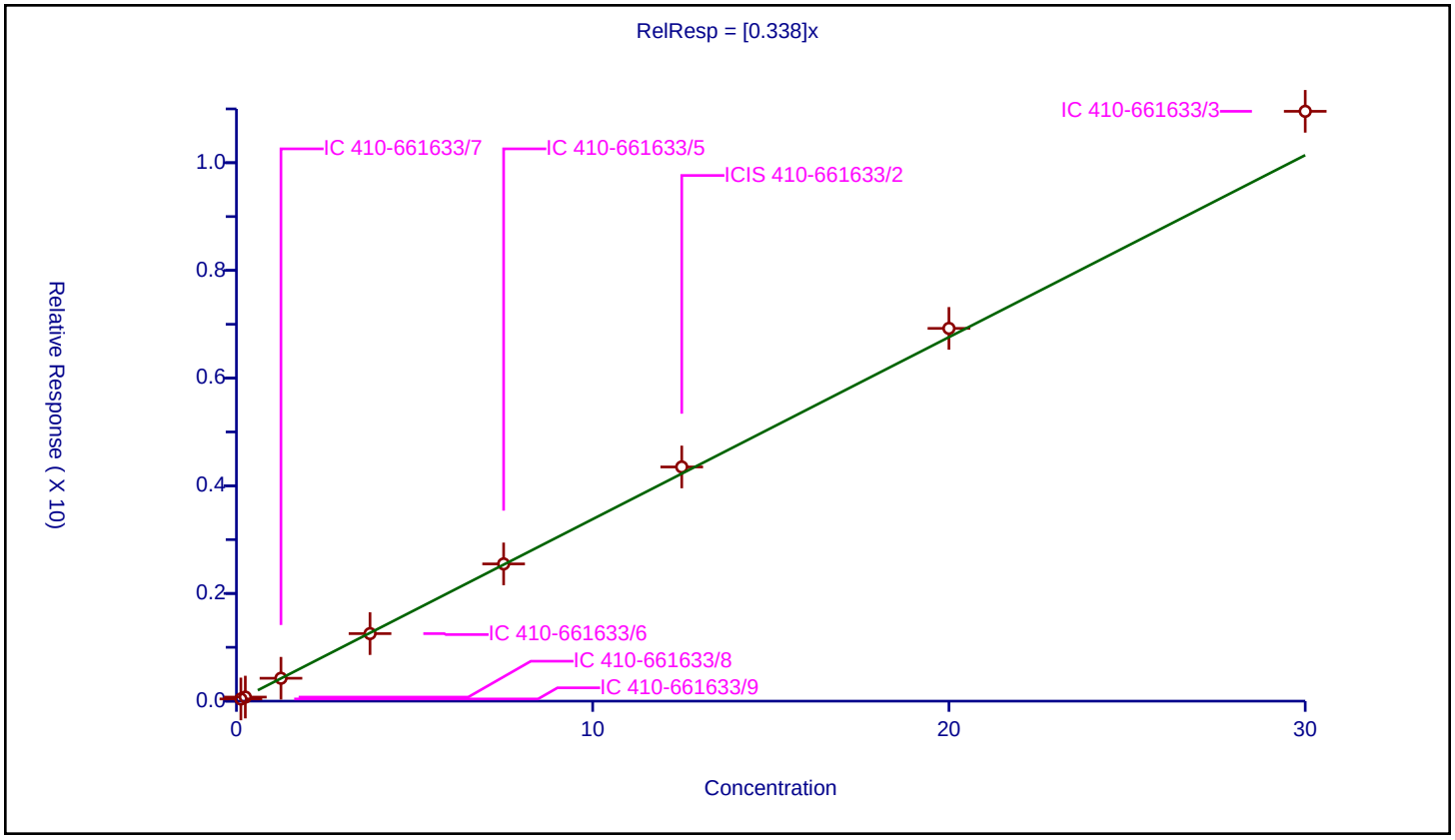
Curve Coefficients

Intercept:	0
Slope:	0.338

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.041028	5.0	1010165.0	0.328224	Y
2	IC 410-661633/8	0.25	0.07557	5.0	970825.0	0.302279	Y
3	IC 410-661633/7	1.25	0.425093	5.0	983596.0	0.340075	Y
4	IC 410-661633/6	3.75	1.25403	5.0	1073930.0	0.334408	Y
5	IC 410-661633/5	7.5	2.548973	5.0	1024693.0	0.339863	Y
6	ICIS 410-661633/2	12.5	4.349616	5.0	997272.0	0.347969	Y
7	IC 410-661633/4	20.0	6.923111	5.0	1118695.0	0.346156	Y
8	IC 410-661633/3	30.0	10.95486	5.0	1010504.0	0.365162	Y



Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

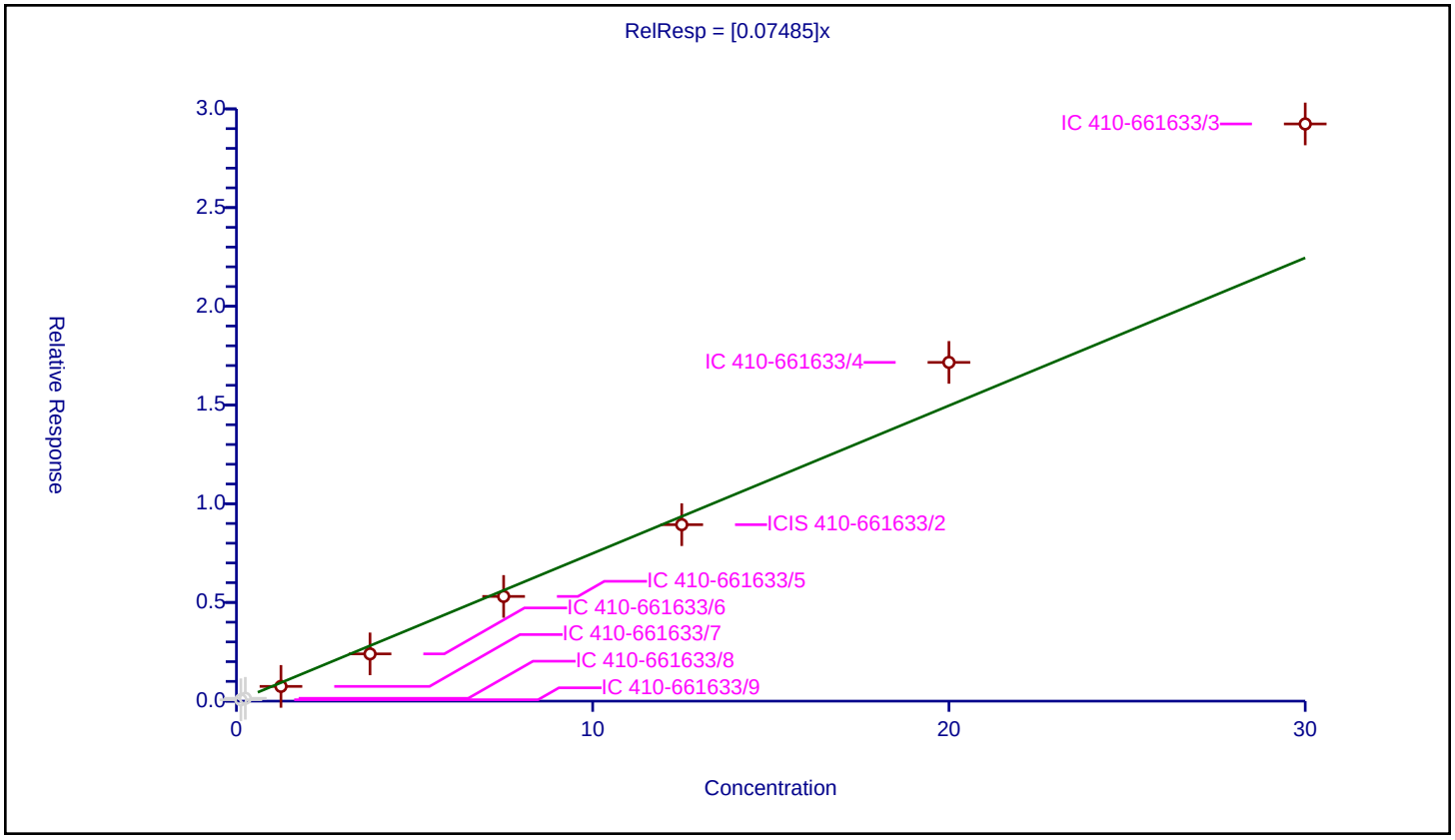
Curve Coefficients

Intercept:	0
Slope:	0.07485

Error Coefficients

Relative Standard Deviation:	19.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.007048	5.0	1010165.0	0.056387	N
2	IC 410-661633/8	0.25	0.014333	5.0	970825.0	0.057333	N
3	IC 410-661633/7	1.25	0.074711	5.0	983596.0	0.059768	Y
4	IC 410-661633/6	3.75	0.239396	5.0	1073930.0	0.063839	Y
5	IC 410-661633/5	7.5	0.530408	5.0	1024693.0	0.070721	Y
6	ICIS 410-661633/2	12.5	0.893863	5.0	997272.0	0.071509	Y
7	IC 410-661633/4	20.0	1.715888	5.0	1118695.0	0.085794	Y
8	IC 410-661633/3	30.0	2.923714	5.0	1010504.0	0.097457	Y



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Calibration / Disulfoton

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

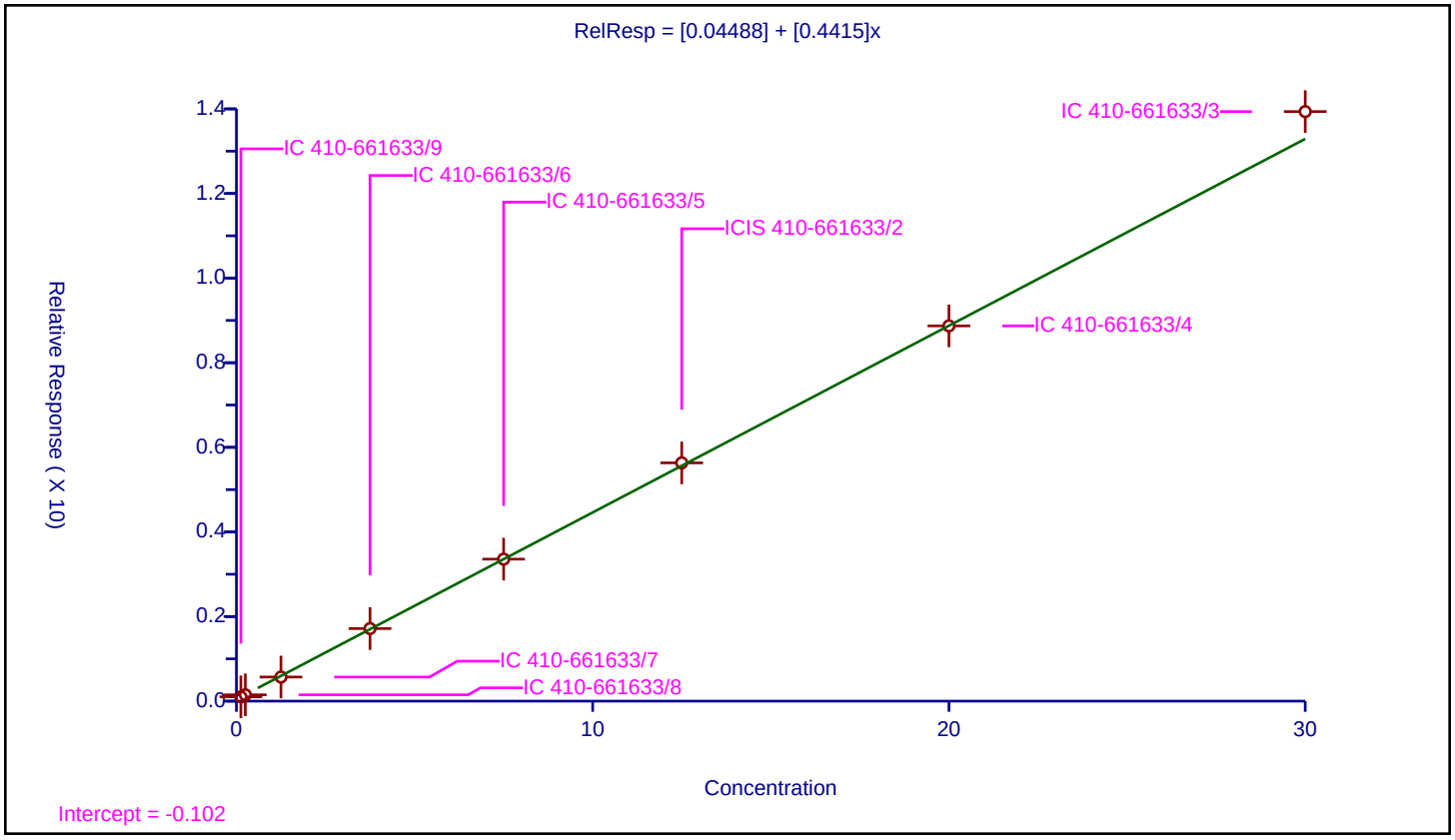
Curve Coefficients

Intercept:	0.04488
Slope:	0.4415

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.101691	5.0	1010165.0	0.81353	Y
2	IC 410-661633/8	0.25	0.149739	5.0	970825.0	0.598954	Y
3	IC 410-661633/7	1.25	0.569858	5.0	983596.0	0.455886	Y
4	IC 410-661633/6	3.75	1.715075	5.0	1073930.0	0.457353	Y
5	IC 410-661633/5	7.5	3.356469	5.0	1024693.0	0.447529	Y
6	ICIS 410-661633/2	12.5	5.632681	5.0	997272.0	0.450614	Y
7	IC 410-661633/4	20.0	8.870809	5.0	1118695.0	0.44354	Y
8	IC 410-661633/3	30.0	13.936407	5.0	1010504.0	0.464547	Y



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Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

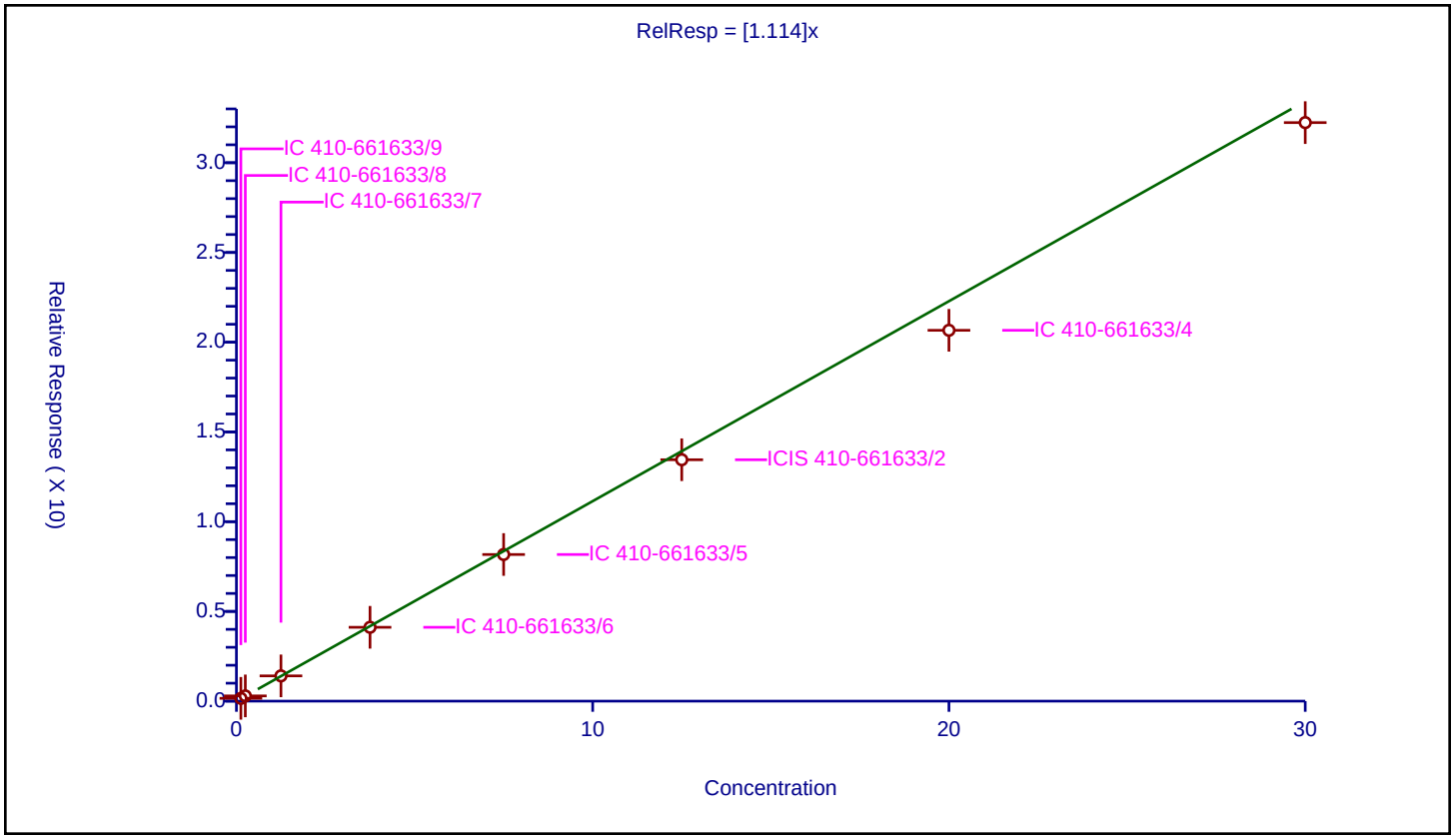
Curve Coefficients

Intercept:	0
Slope:	1.114

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.156707	5.0	1010165.0	1.253657	Y
2	IC 410-661633/8	0.25	0.290871	5.0	970825.0	1.163485	Y
3	IC 410-661633/7	1.25	1.408043	5.0	983596.0	1.126434	Y
4	IC 410-661633/6	3.75	4.114677	5.0	1073930.0	1.097247	Y
5	IC 410-661633/5	7.5	8.171038	5.0	1024693.0	1.089472	Y
6	ICIS 410-661633/2	12.5	13.450914	5.0	997272.0	1.076073	Y
7	IC 410-661633/4	20.0	20.662821	5.0	1118695.0	1.033141	Y
8	IC 410-661633/3	30.0	32.236117	5.0	1010504.0	1.074537	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

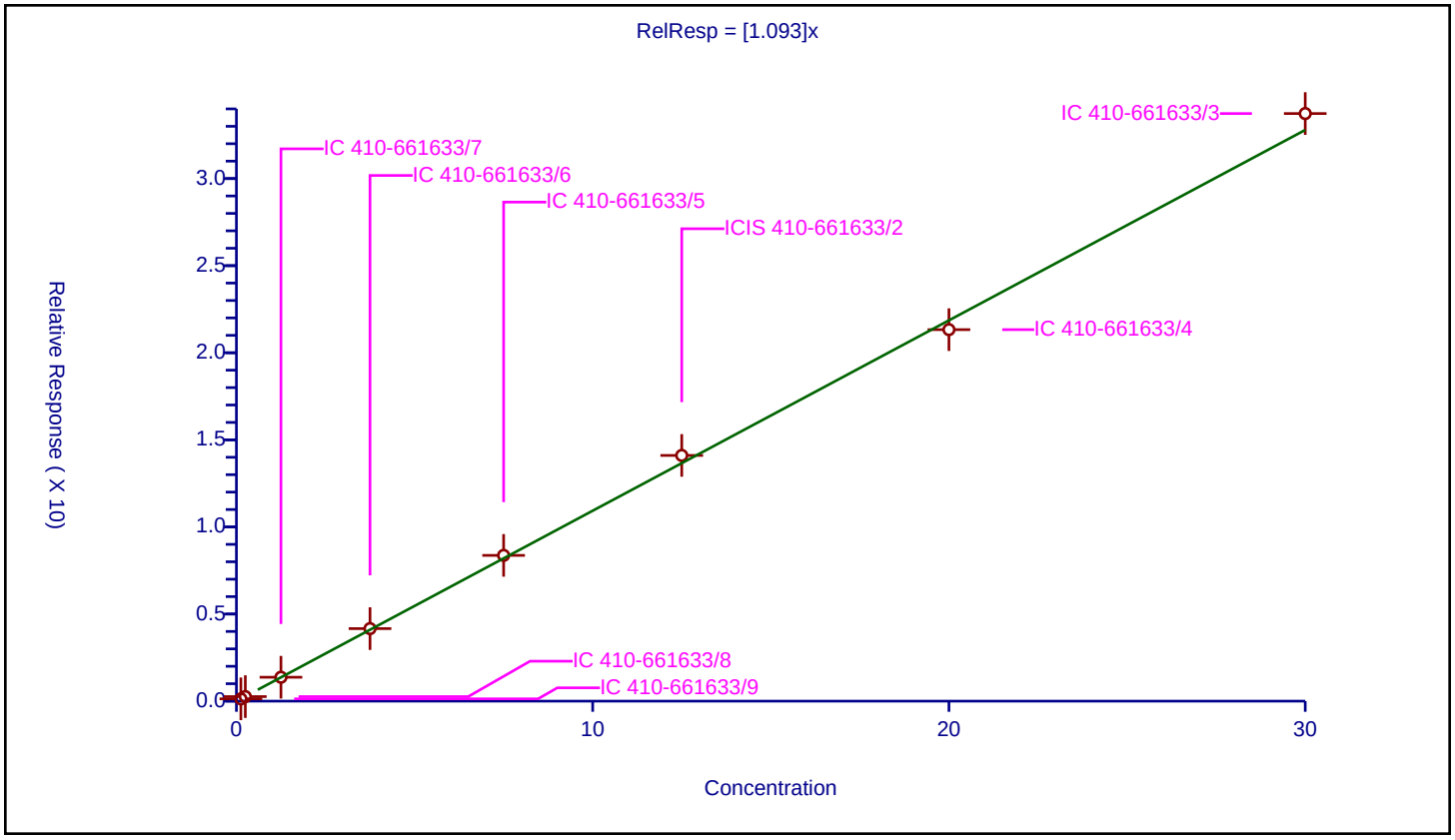
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.132518	5.0	1010165.0	1.060144	Y
2	IC 410-661633/8	0.25	0.260062	5.0	970825.0	1.040249	Y
3	IC 410-661633/7	1.25	1.372011	5.0	983596.0	1.097609	Y
4	IC 410-661633/6	3.75	4.164787	5.0	1073930.0	1.11061	Y
5	IC 410-661633/5	7.5	8.367804	5.0	1024693.0	1.115707	Y
6	ICIS 410-661633/2	12.5	14.105921	5.0	997272.0	1.128474	Y
7	IC 410-661633/4	20.0	21.327533	5.0	1118695.0	1.066377	Y
8	IC 410-661633/3	30.0	33.732261	5.0	1010504.0	1.124409	Y



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Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

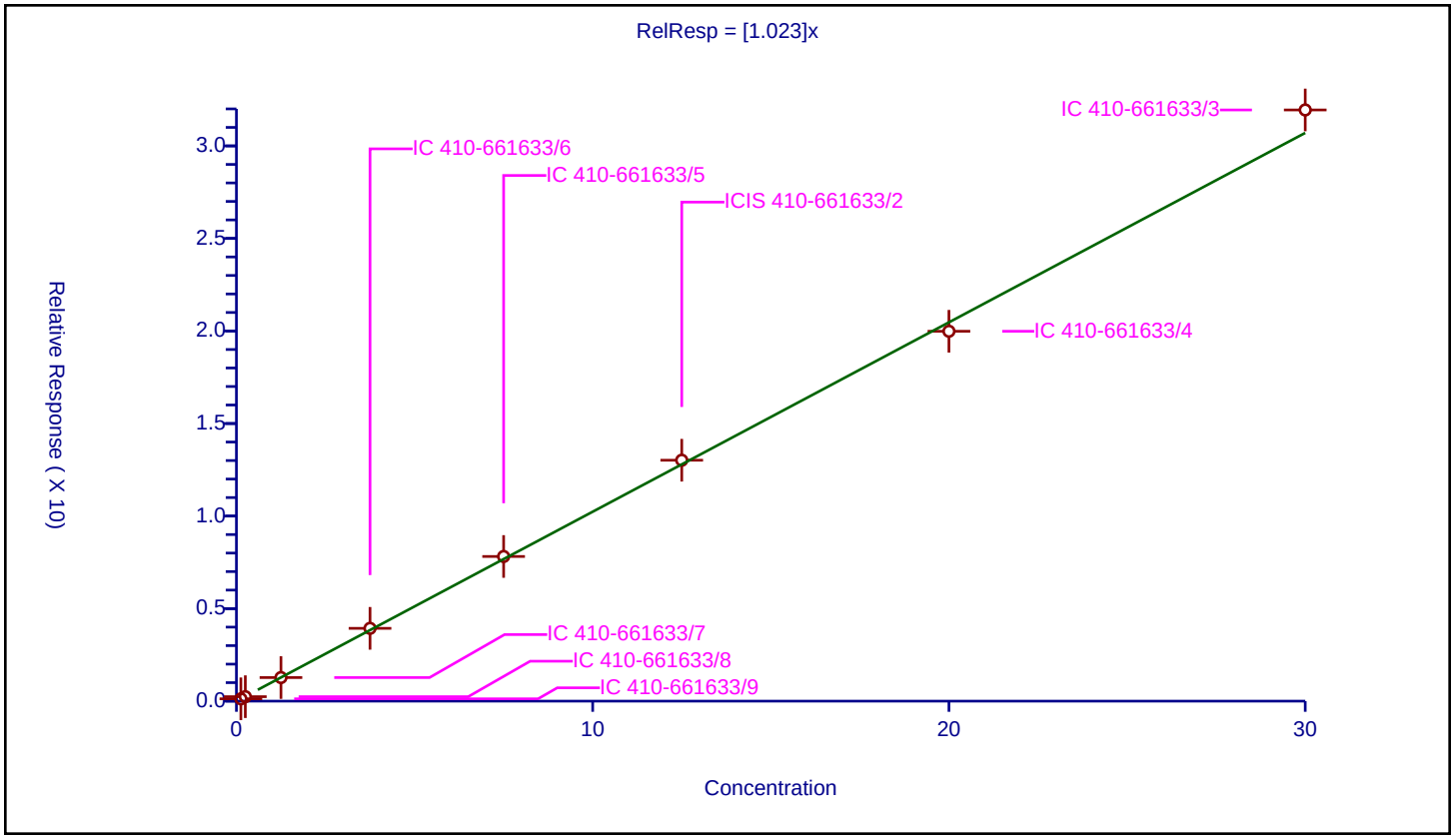
Curve Coefficients

Intercept:	0
Slope:	1.023

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.126153	5.0	1010165.0	1.009221	Y
2	IC 410-661633/8	0.25	0.240605	5.0	970825.0	0.962419	Y
3	IC 410-661633/7	1.25	1.273785	5.0	983596.0	1.019028	Y
4	IC 410-661633/6	3.75	3.934158	5.0	1073930.0	1.049109	Y
5	IC 410-661633/5	7.5	7.815931	5.0	1024693.0	1.042124	Y
6	ICIS 410-661633/2	12.5	13.017497	5.0	997272.0	1.0414	Y
7	IC 410-661633/4	20.0	19.984831	5.0	1118695.0	0.999242	Y
8	IC 410-661633/3	30.0	31.942605	5.0	1010504.0	1.064753	Y



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Calibration / Methyl parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

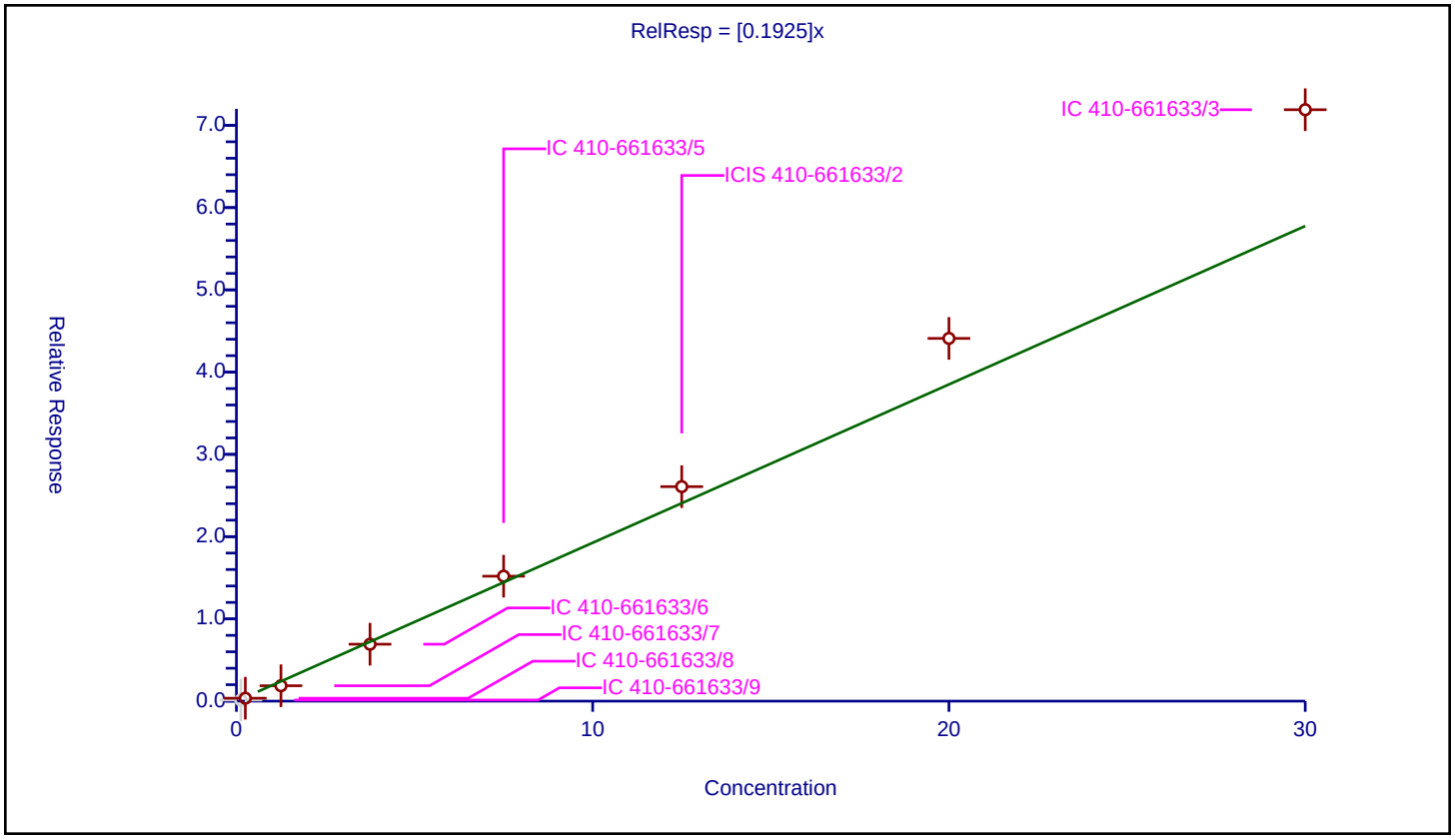
Curve Coefficients

Intercept:	0
Slope:	0.1925

Error Coefficients

Relative Standard Deviation:	18.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.013537	5.0	1010165.0	0.108299	N
2	IC 410-661633/8	0.25	0.035506	5.0	970825.0	0.142024	Y
3	IC 410-661633/7	1.25	0.187262	5.0	983596.0	0.149809	Y
4	IC 410-661633/6	3.75	0.692098	5.0	1073930.0	0.18456	Y
5	IC 410-661633/5	7.5	1.518928	5.0	1024693.0	0.202524	Y
6	ICIS 410-661633/2	12.5	2.607568	5.0	997272.0	0.208605	Y
7	IC 410-661633/4	20.0	4.409736	5.0	1118695.0	0.220487	Y
8	IC 410-661633/3	30.0	7.189823	5.0	1010504.0	0.239661	Y



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Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

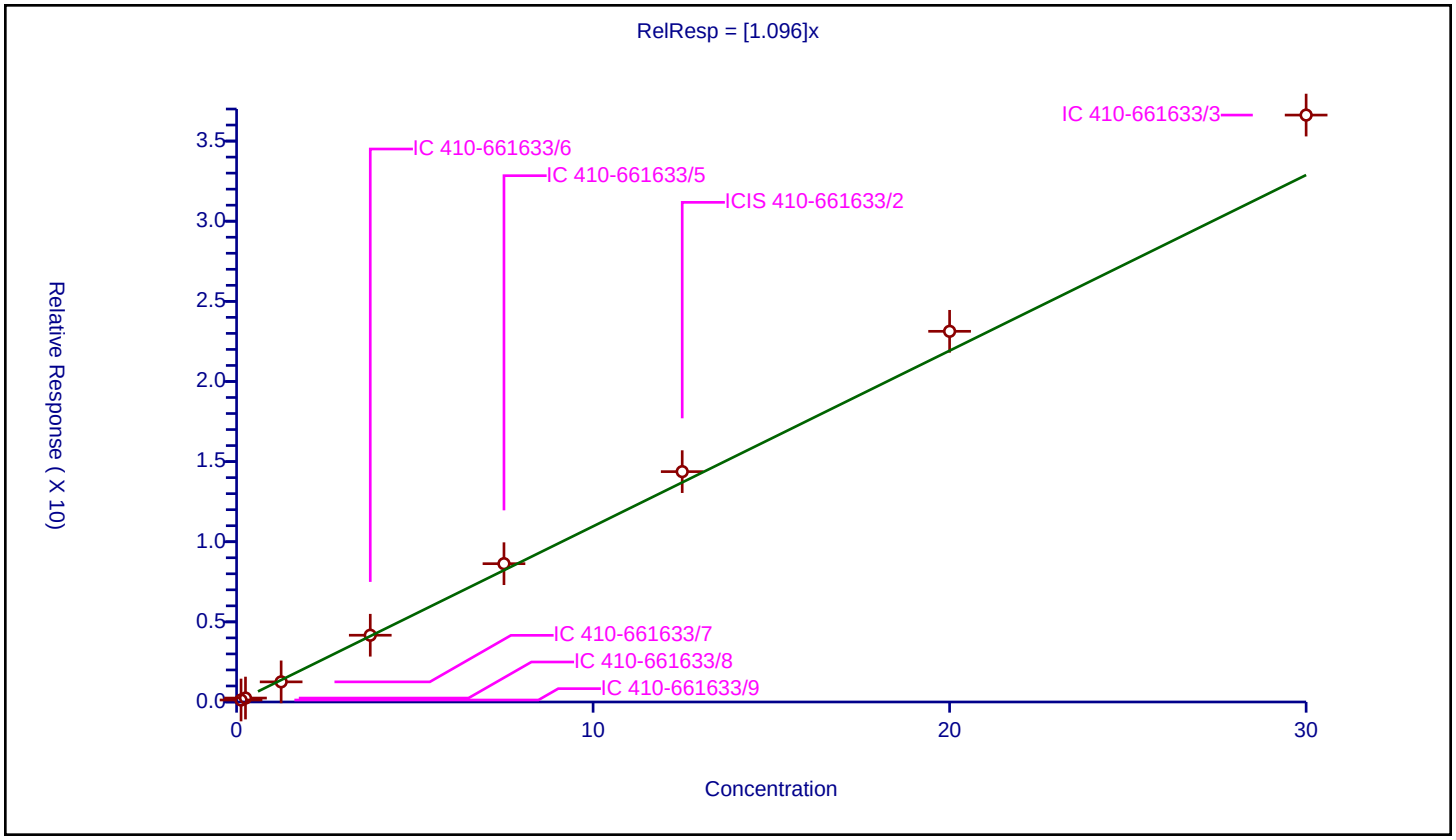
Curve Coefficients

Intercept:	0
Slope:	1.096

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.123772	5.0	1010165.0	0.990175	Y
2	IC 410-661633/8	0.25	0.246157	5.0	970825.0	0.984626	Y
3	IC 410-661633/7	1.25	1.256085	5.0	983596.0	1.004868	Y
4	IC 410-661633/6	3.75	4.165961	5.0	1073930.0	1.110923	Y
5	IC 410-661633/5	7.5	8.629785	5.0	1024693.0	1.150638	Y
6	ICIS 410-661633/2	12.5	14.374524	5.0	997272.0	1.149962	Y
7	IC 410-661633/4	20.0	23.129781	5.0	1118695.0	1.156489	Y
8	IC 410-661633/3	30.0	36.622413	5.0	1010504.0	1.220747	Y



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Calibration / Ethyl Parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

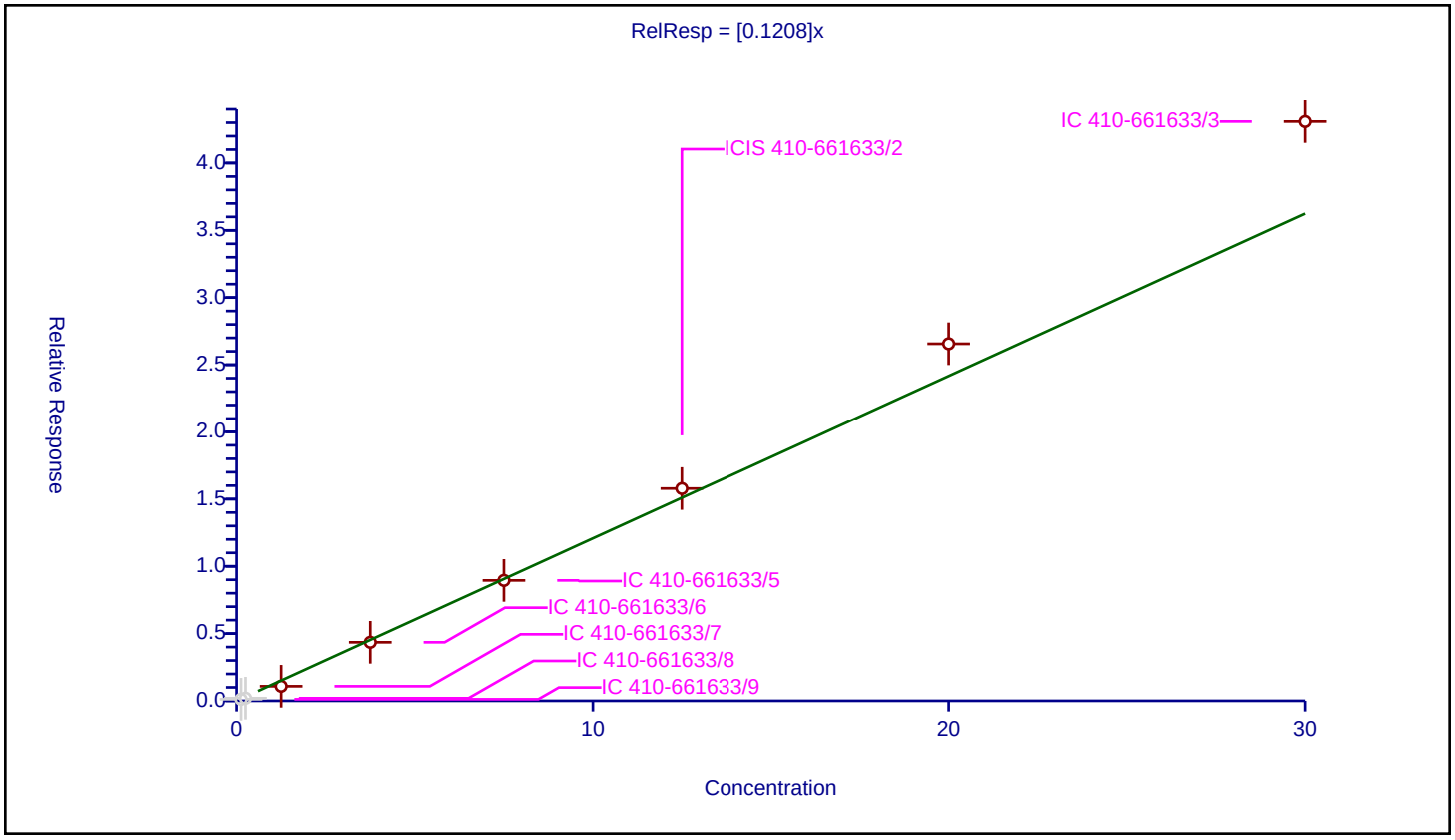
Curve Coefficients

Intercept:	0
Slope:	0.1208

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.011741	5.0	1010165.0	0.093925	N
2	IC 410-661633/8	0.25	0.019602	5.0	970825.0	0.078408	N
3	IC 410-661633/7	1.25	0.108363	5.0	983596.0	0.08669	Y
4	IC 410-661633/6	3.75	0.435312	5.0	1073930.0	0.116083	Y
5	IC 410-661633/5	7.5	0.895249	5.0	1024693.0	0.119366	Y
6	ICIS 410-661633/2	12.5	1.578797	5.0	997272.0	0.126304	Y
7	IC 410-661633/4	20.0	2.656055	5.0	1118695.0	0.132803	Y
8	IC 410-661633/3	30.0	4.308588	5.0	1010504.0	0.14362	Y



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Calibration / 4-Nitroquinoline-1-oxide

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

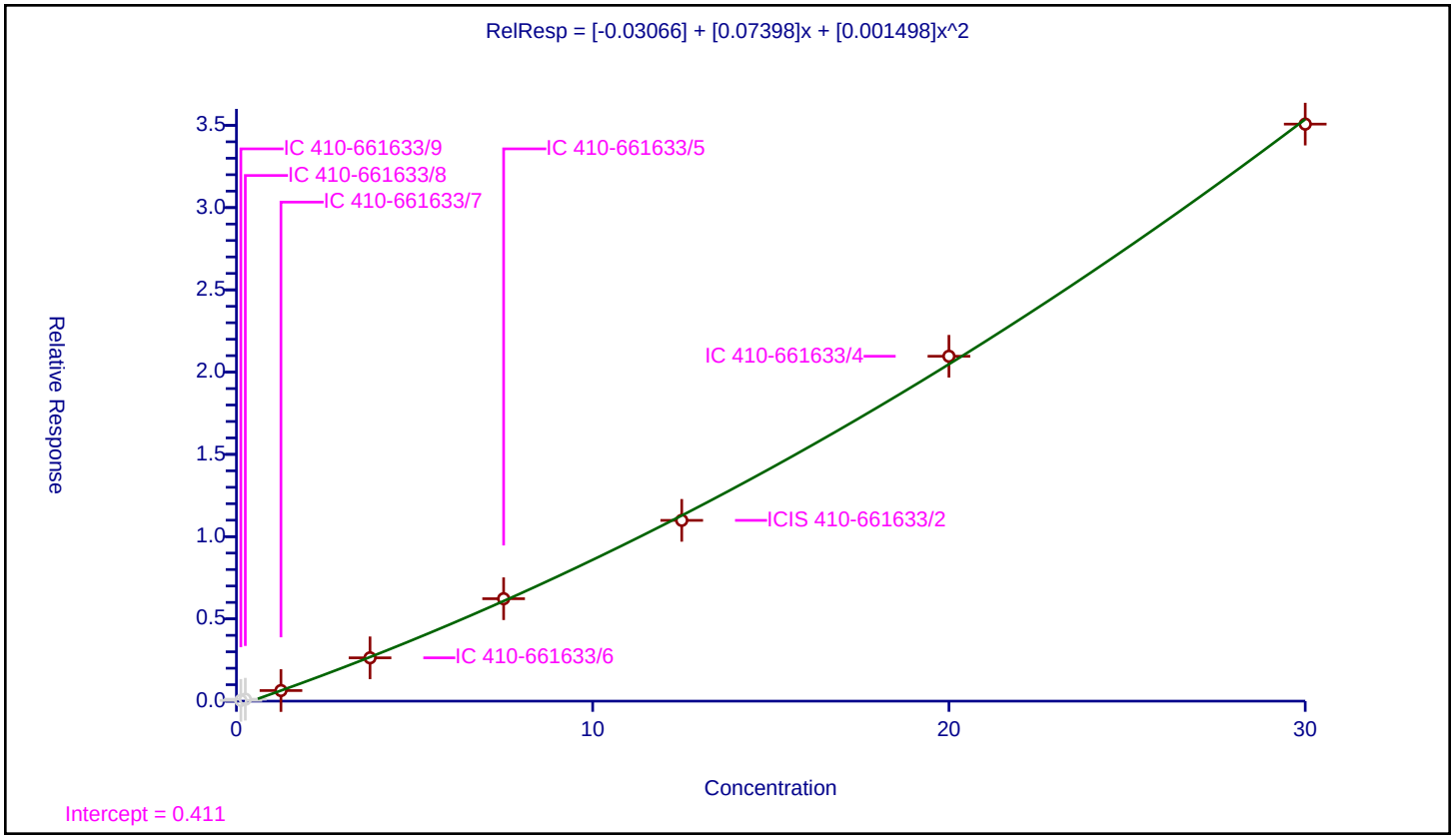
Curve Coefficients

Intercept:	-0.03066
Slope:	0.07398
Second Order:	0.001498

Error Coefficients

Relative Standard Deviation:	2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.004638	5.0	1010165.0	0.037103	N
2	IC 410-661633/8	0.25	0.011717	5.0	970825.0	0.046867	N
3	IC 410-661633/7	1.25	0.064427	5.0	983596.0	0.051541	Y
4	IC 410-661633/6	3.75	0.263337	5.0	1073930.0	0.070223	Y
5	IC 410-661633/5	7.5	0.622508	5.0	1024693.0	0.083001	Y
6	ICIS 410-661633/2	12.5	1.098883	5.0	997272.0	0.087911	Y
7	IC 410-661633/4	20.0	2.096519	5.0	1118695.0	0.104826	Y
8	IC 410-661633/3	30.0	3.507586	5.0	1010504.0	0.11692	Y



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Calibration / Octachlorostyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

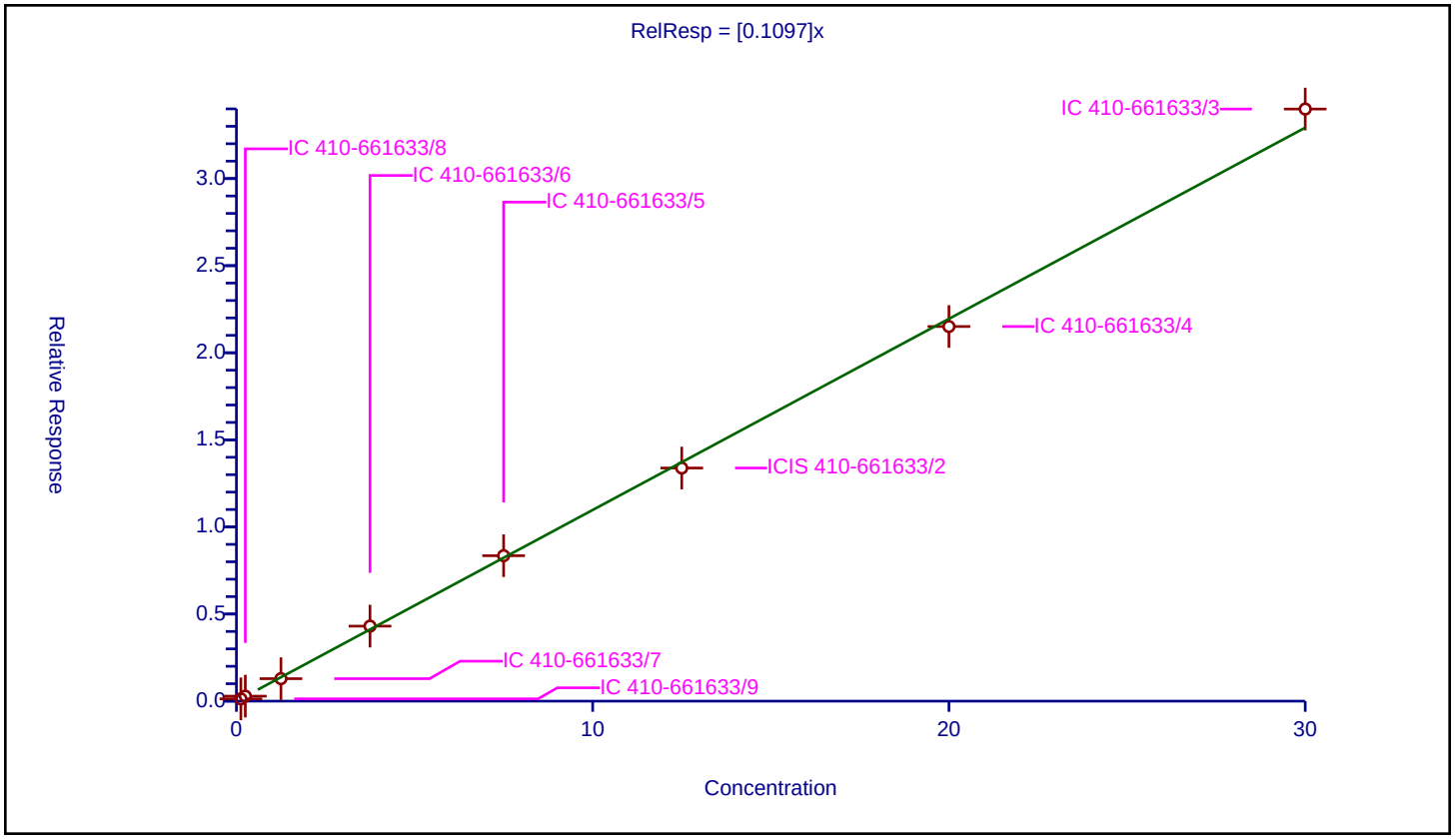
Curve Coefficients

Intercept:	0
Slope:	0.1097

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.013231	5.0	1010165.0	0.105844	Y
2	IC 410-661633/8	0.25	0.028697	5.0	970825.0	0.114789	Y
3	IC 410-661633/7	1.25	0.129042	5.0	983596.0	0.103233	Y
4	IC 410-661633/6	3.75	0.43061	5.0	1073930.0	0.114829	Y
5	IC 410-661633/5	7.5	0.834987	5.0	1024693.0	0.111332	Y
6	ICIS 410-661633/2	12.5	1.338266	5.0	997272.0	0.107061	Y
7	IC 410-661633/4	20.0	2.150613	5.0	1118695.0	0.107531	Y
8	IC 410-661633/3	30.0	3.399046	5.0	1010504.0	0.113302	Y



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Calibration / Isodrin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

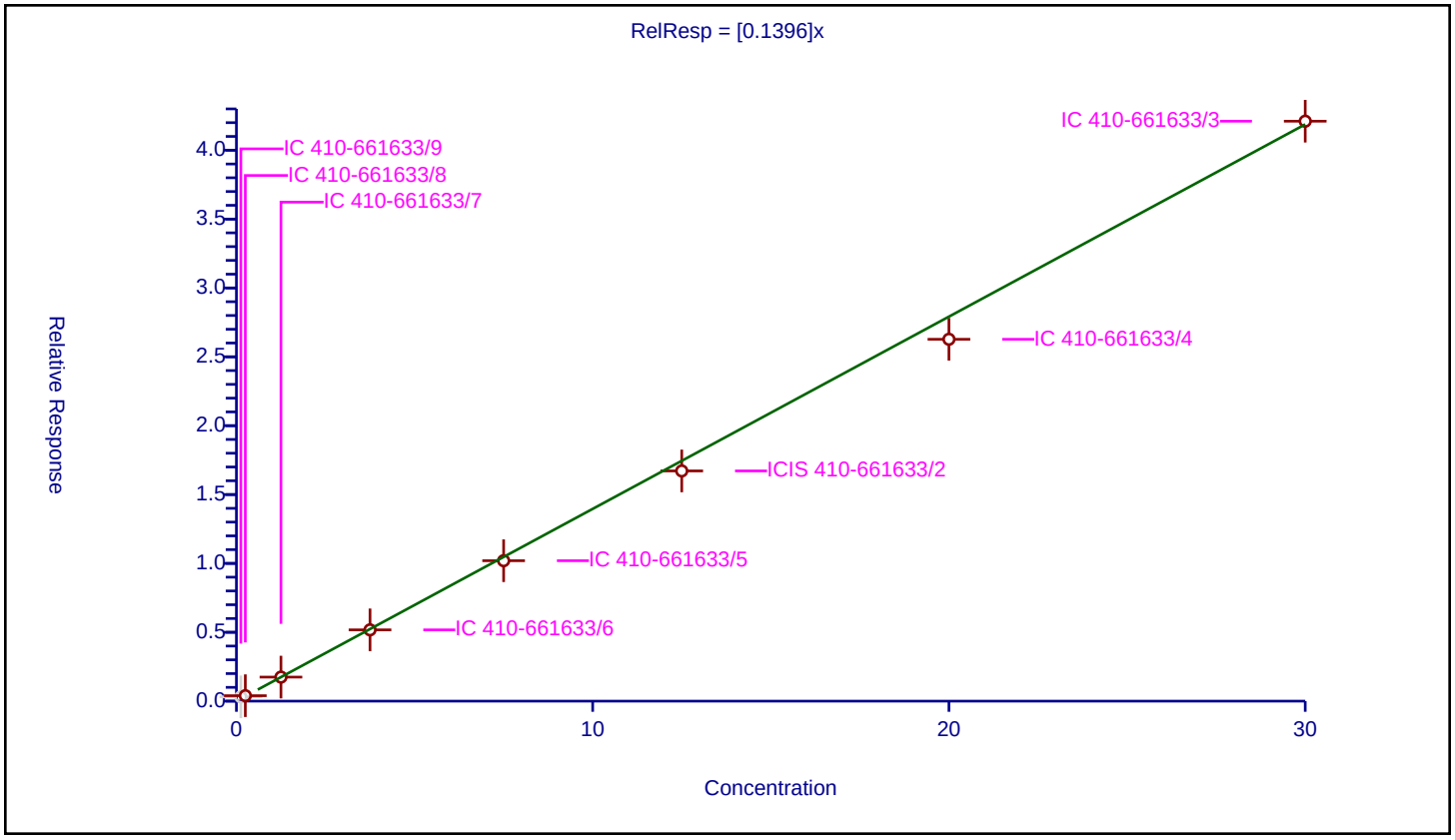
Curve Coefficients

Intercept:	0
Slope:	0.1396

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.031089	5.0	1010165.0	0.248712	N
2	IC 410-661633/8	0.25	0.039513	5.0	970825.0	0.158051	Y
3	IC 410-661633/7	1.25	0.174569	5.0	983596.0	0.139655	Y
4	IC 410-661633/6	3.75	0.517534	5.0	1073930.0	0.138009	Y
5	IC 410-661633/5	7.5	1.019642	5.0	1024693.0	0.135952	Y
6	ICIS 410-661633/2	12.5	1.671445	5.0	997272.0	0.133716	Y
7	IC 410-661633/4	20.0	2.627293	5.0	1118695.0	0.131365	Y
8	IC 410-661633/3	30.0	4.210617	5.0	1010504.0	0.140354	Y



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Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

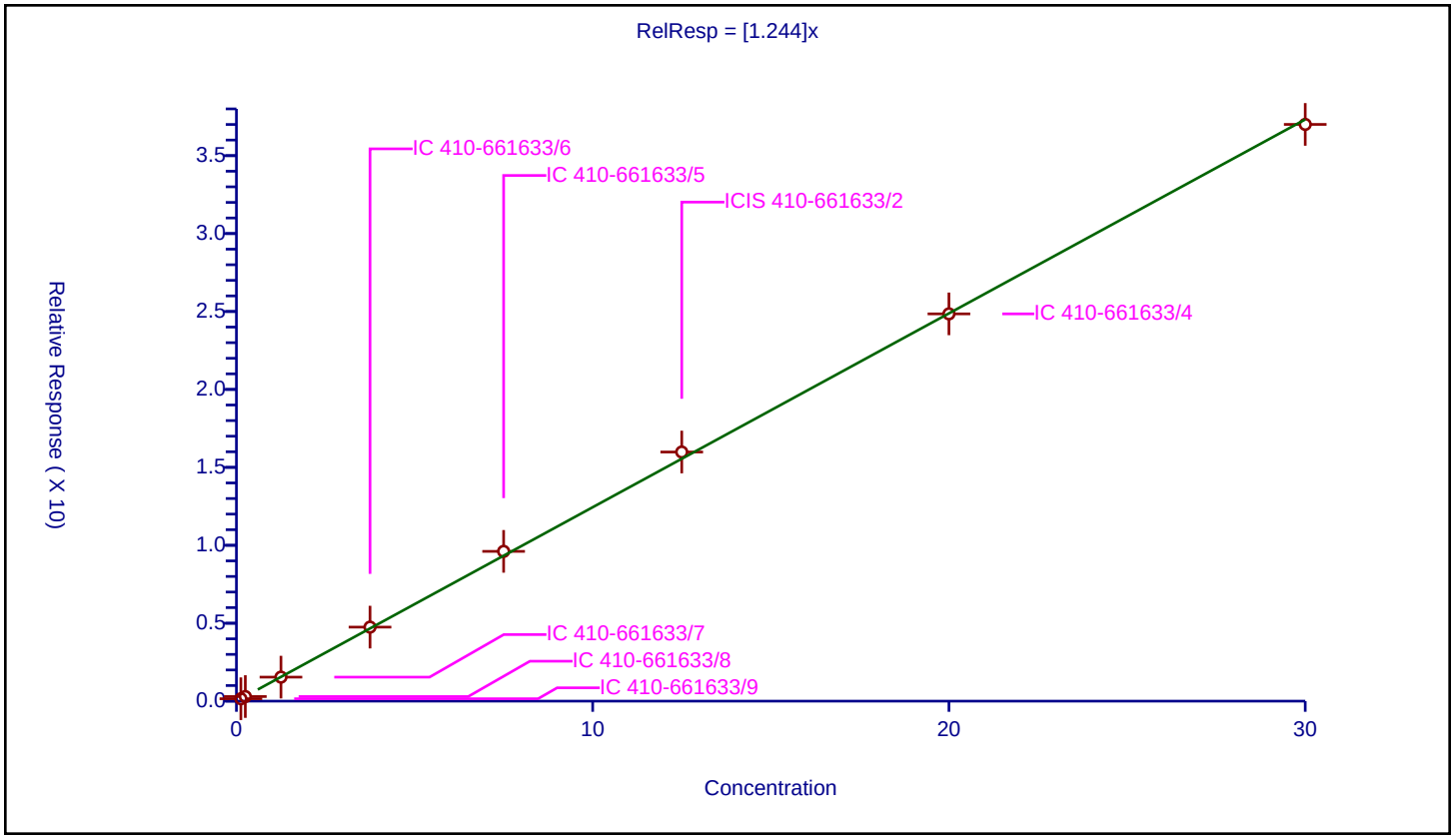
Curve Coefficients

Intercept:	0
Slope:	1.244

Error Coefficients

Relative Standard Deviation:	2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.154871	5.0	1010165.0	1.238966	Y
2	IC 410-661633/8	0.25	0.294533	5.0	970825.0	1.178132	Y
3	IC 410-661633/7	1.25	1.540678	5.0	983596.0	1.232543	Y
4	IC 410-661633/6	3.75	4.749686	5.0	1073930.0	1.266583	Y
5	IC 410-661633/5	7.5	9.610761	5.0	1024693.0	1.281435	Y
6	ICIS 410-661633/2	12.5	15.983899	5.0	997272.0	1.278712	Y
7	IC 410-661633/4	20.0	24.848095	5.0	1118695.0	1.242405	Y
8	IC 410-661633/3	30.0	37.004322	5.0	1010504.0	1.233477	Y



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Calibration / Benzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

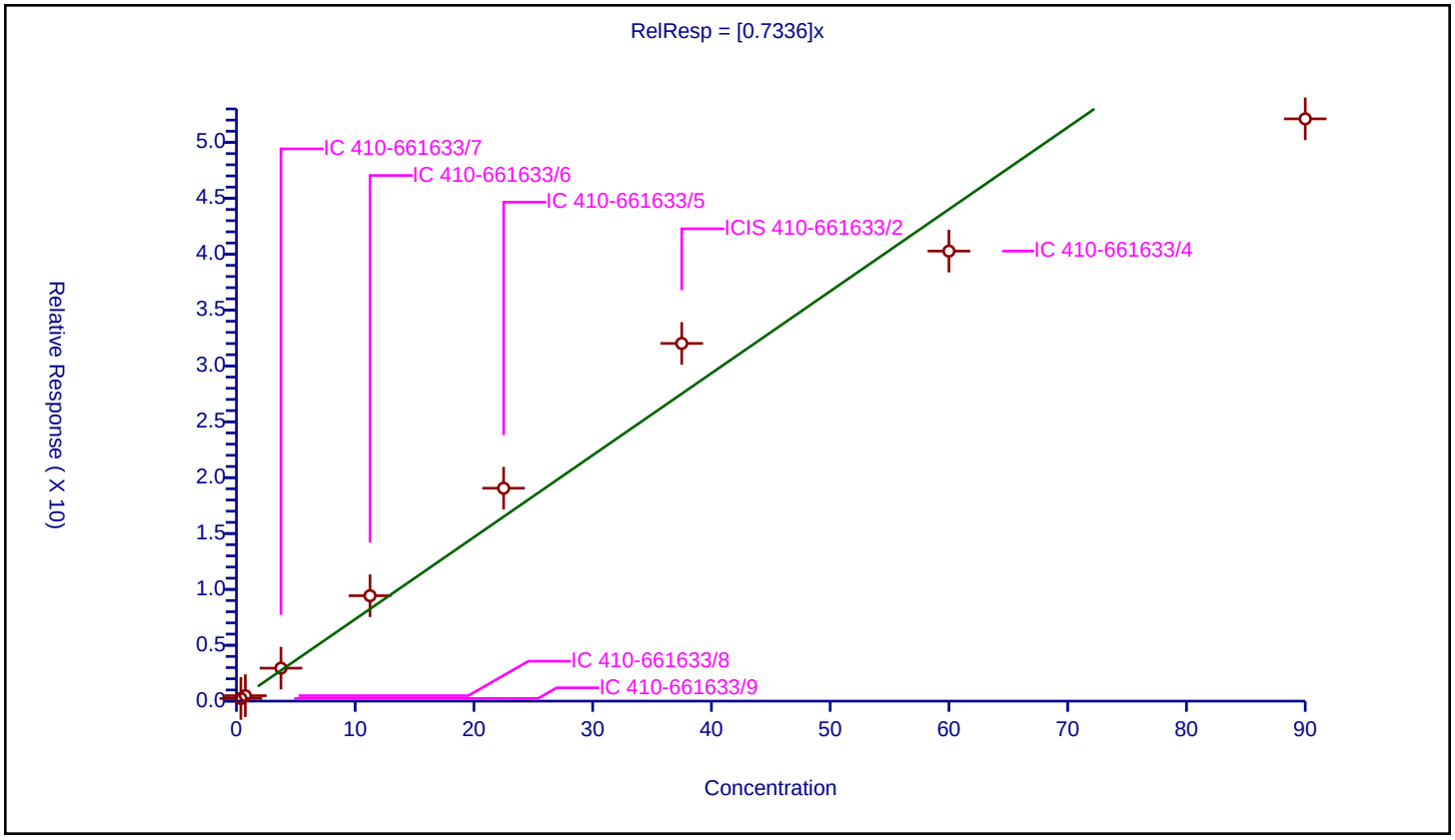
Curve Coefficients

Intercept:	0
Slope:	0.7336

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.375	0.240708	5.0	1095497.0	0.641888	Y
2	IC 410-661633/8	0.75	0.487629	5.0	1050696.0	0.650172	Y
3	IC 410-661633/7	3.75	2.951105	5.0	1113161.0	0.786961	Y
4	IC 410-661633/6	11.25	9.435072	5.0	1225457.0	0.838673	Y
5	IC 410-661633/5	22.5	19.055322	5.0	1183610.0	0.846903	Y
6	ICIS 410-661633/2	37.5	32.010817	5.0	1134927.0	0.853622	Y
7	IC 410-661633/4	60.0	40.275018	5.0	1217175.0	0.67125	Y
8	IC 410-661633/3	90.0	52.109031	5.0	1092082.0	0.578989	Y



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Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

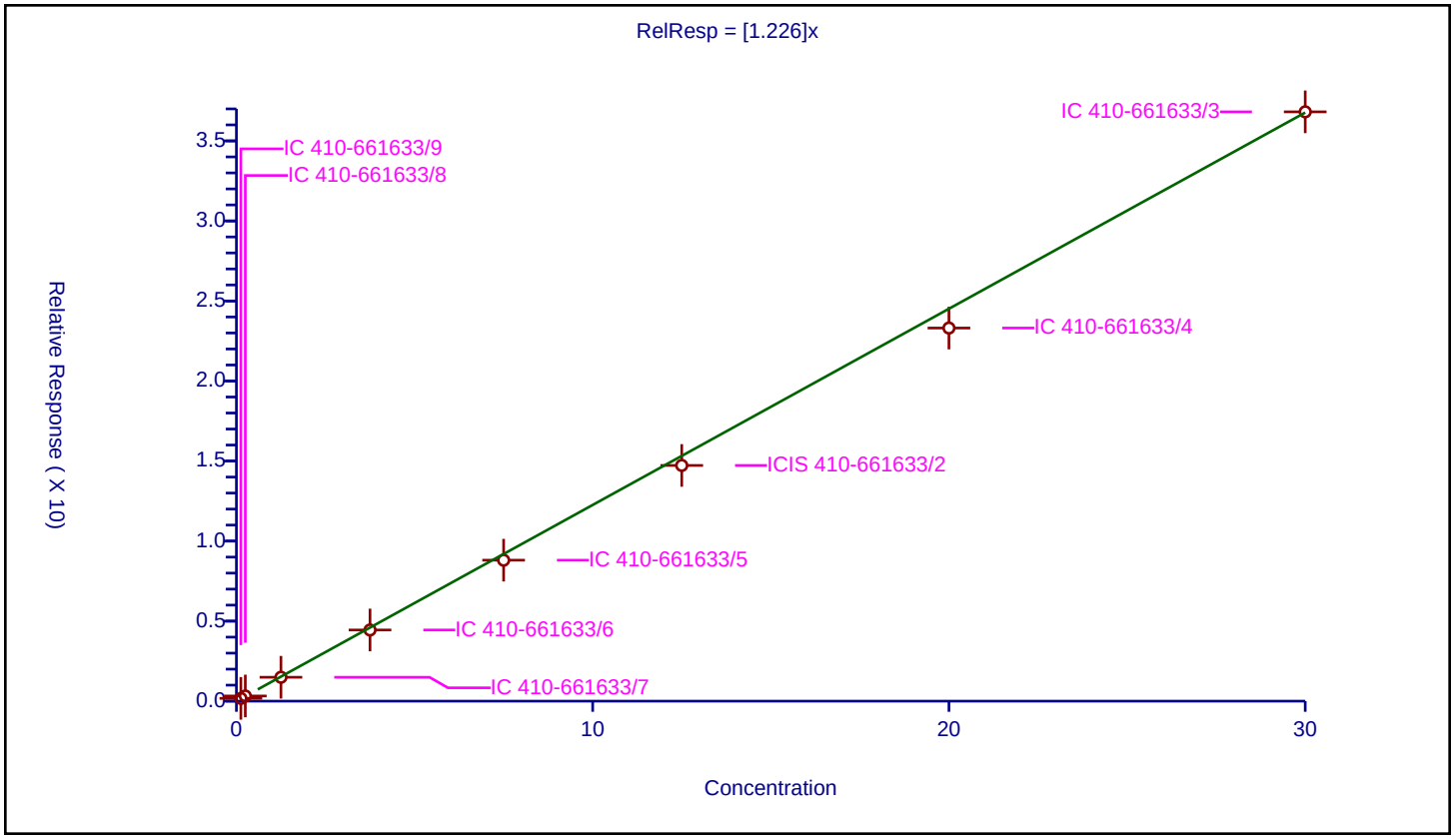
Curve Coefficients

Intercept:	0
Slope:	1.226

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.17467	5.0	1095497.0	1.397357	Y
2	IC 410-661633/8	0.25	0.32123	5.0	1050696.0	1.28492	Y
3	IC 410-661633/7	1.25	1.491181	5.0	1113161.0	1.192945	Y
4	IC 410-661633/6	3.75	4.445419	5.0	1225457.0	1.185445	Y
5	IC 410-661633/5	7.5	8.80698	5.0	1183610.0	1.174264	Y
6	ICIS 410-661633/2	12.5	14.725502	5.0	1134927.0	1.17804	Y
7	IC 410-661633/4	20.0	23.308604	5.0	1217175.0	1.16543	Y
8	IC 410-661633/3	30.0	36.815445	5.0	1092082.0	1.227182	Y



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Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

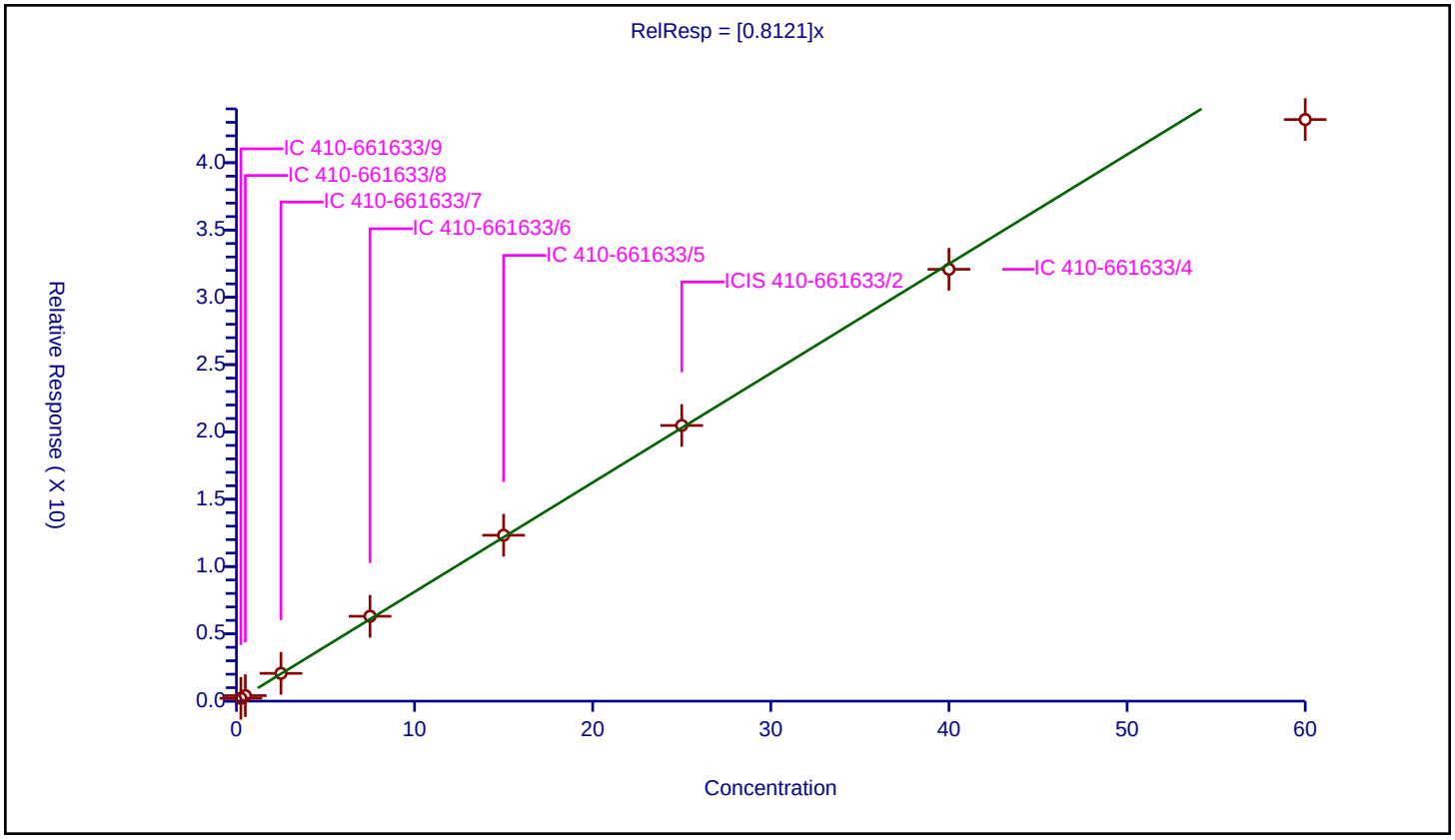
Curve Coefficients

Intercept:	0
Slope:	0.8121

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.212127	5.0	1095497.0	0.84851	Y
2	IC 410-661633/8	0.5	0.409657	5.0	1050696.0	0.819314	Y
3	IC 410-661633/7	2.5	2.062833	5.0	1113161.0	0.825133	Y
4	IC 410-661633/6	7.5	6.307125	5.0	1225457.0	0.84095	Y
5	IC 410-661633/5	15.0	12.325986	5.0	1183610.0	0.821732	Y
6	ICIS 410-661633/2	25.0	20.48022	5.0	1134927.0	0.819209	Y
7	IC 410-661633/4	40.0	32.083123	5.0	1217175.0	0.802078	Y
8	IC 410-661633/3	60.0	43.208179	5.0	1092082.0	0.720136	Y



Calibration / p-Dimethylamino azobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

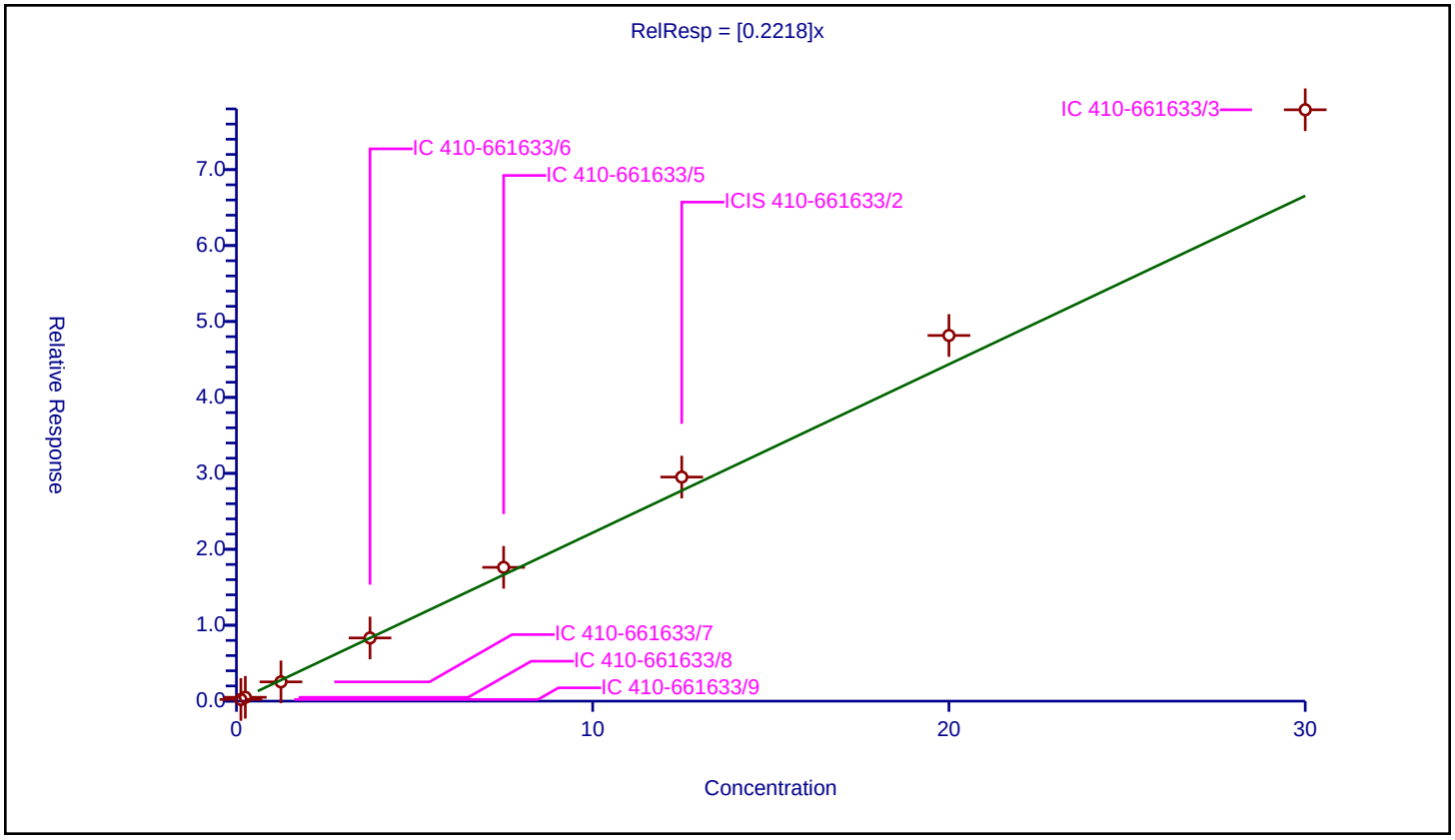
Curve Coefficients

Intercept:	0
Slope:	0.2218

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.021954	5.0	1095497.0	0.175628	Y
2	IC 410-661633/8	0.25	0.050638	5.0	1050696.0	0.202551	Y
3	IC 410-661633/7	1.25	0.253831	5.0	1113161.0	0.203065	Y
4	IC 410-661633/6	3.75	0.832322	5.0	1225457.0	0.221953	Y
5	IC 410-661633/5	7.5	1.762092	5.0	1183610.0	0.234946	Y
6	ICIS 410-661633/2	12.5	2.951384	5.0	1134927.0	0.236111	Y
7	IC 410-661633/4	20.0	4.815811	5.0	1217175.0	0.240791	Y
8	IC 410-661633/3	30.0	7.788477	5.0	1092082.0	0.259616	Y



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Calibration / Chlorobenzilate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

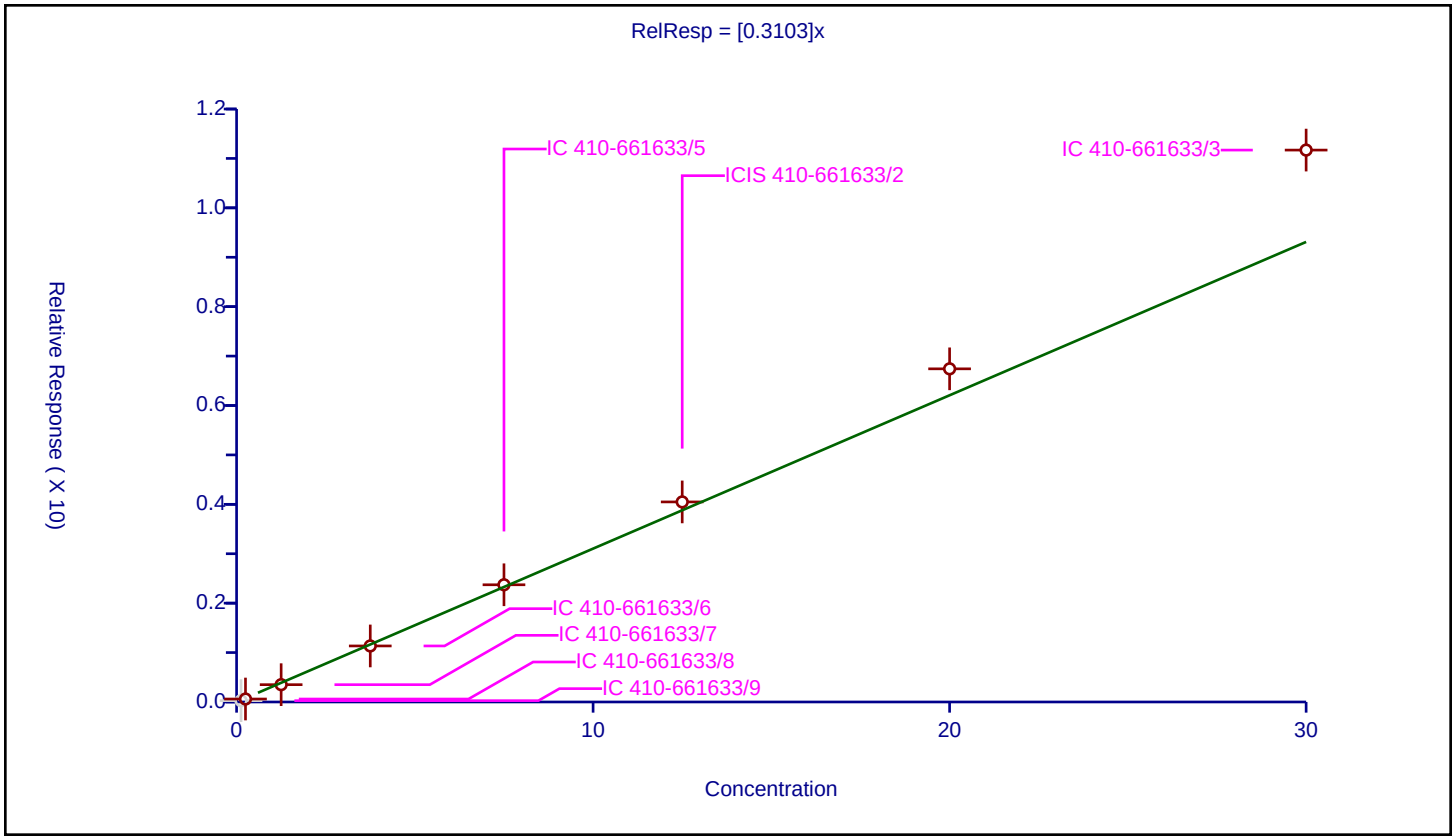
Curve Coefficients

Intercept:	0
Slope:	0.3103

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.026591	5.0	1095497.0	0.212725	N
2	IC 410-661633/8	0.25	0.060003	5.0	1050696.0	0.240012	Y
3	IC 410-661633/7	1.25	0.350506	5.0	1113161.0	0.280405	Y
4	IC 410-661633/6	3.75	1.134059	5.0	1225457.0	0.302416	Y
5	IC 410-661633/5	7.5	2.372162	5.0	1183610.0	0.316288	Y
6	ICIS 410-661633/2	12.5	4.048648	5.0	1134927.0	0.323892	Y
7	IC 410-661633/4	20.0	6.742013	5.0	1217175.0	0.337101	Y
8	IC 410-661633/3	30.0	11.169079	5.0	1092082.0	0.372303	Y



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Calibration / 3,3'-Dimethylbenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

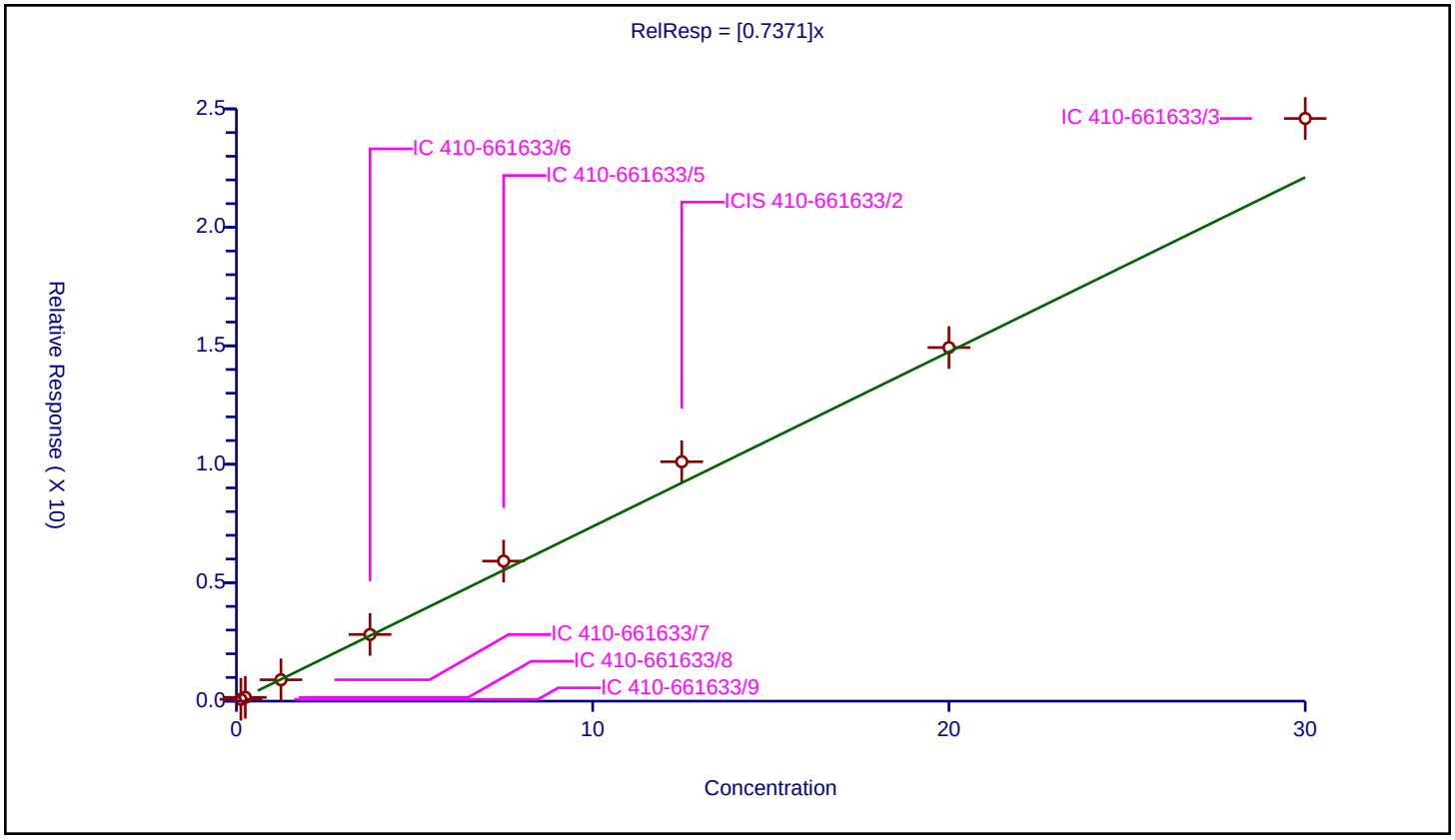
Curve Coefficients

Intercept:	0
Slope:	0.7371

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.077613	5.0	1095497.0	0.620905	Y
2	IC 410-661633/8	0.25	0.160018	5.0	1050696.0	0.640071	Y
3	IC 410-661633/7	1.25	0.902318	5.0	1113161.0	0.721854	Y
4	IC 410-661633/6	3.75	2.815023	5.0	1225457.0	0.750673	Y
5	IC 410-661633/5	7.5	5.912497	5.0	1183610.0	0.788333	Y
6	ICIS 410-661633/2	12.5	10.10506	5.0	1134927.0	0.808405	Y
7	IC 410-661633/4	20.0	14.926781	5.0	1217175.0	0.746339	Y
8	IC 410-661633/3	30.0	24.595502	5.0	1092082.0	0.81985	Y



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Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

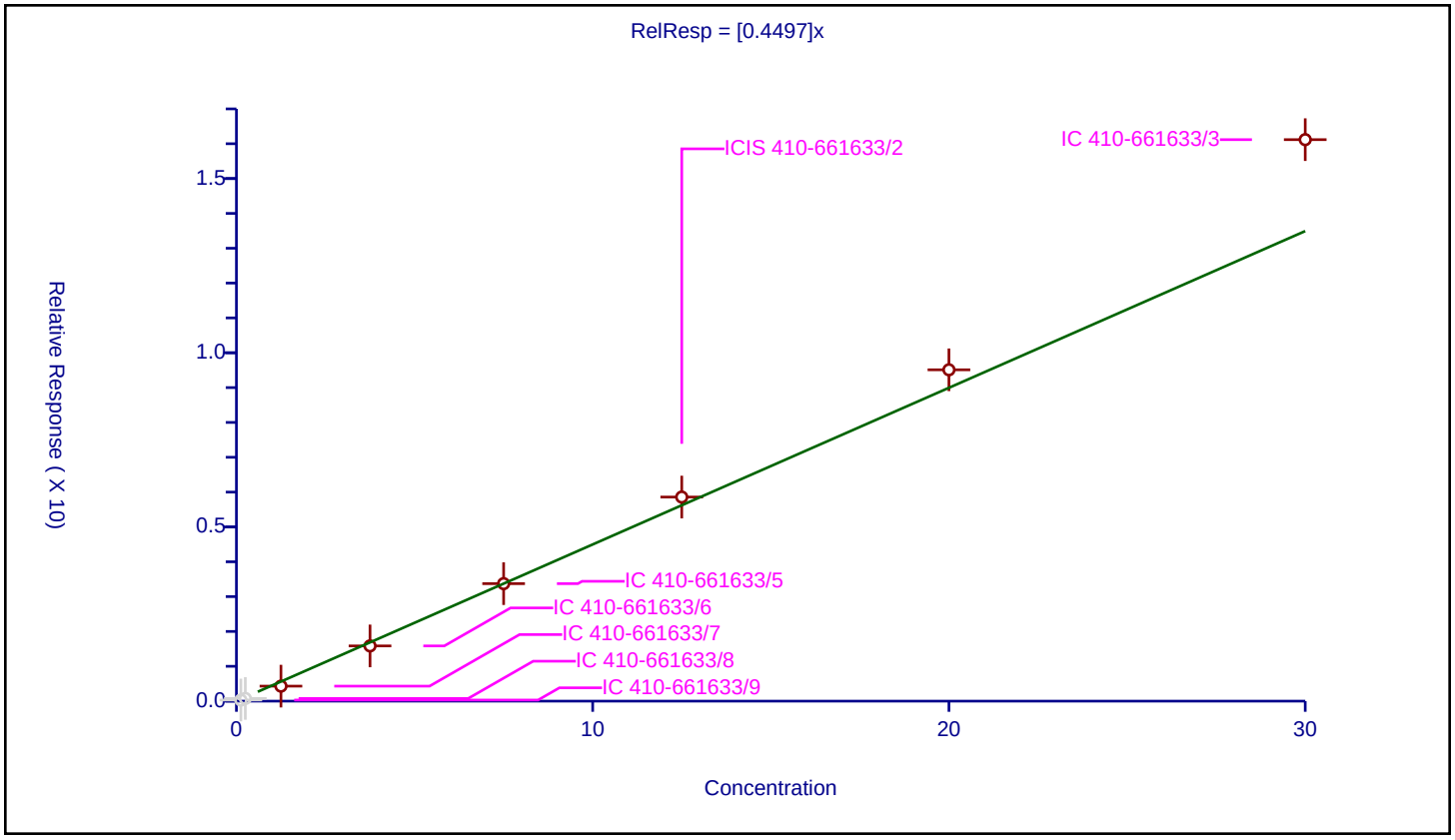
Curve Coefficients

Intercept:	0
Slope:	0.4497

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.031794	5.0	1095497.0	0.25435	N
2	IC 410-661633/8	0.25	0.077901	5.0	1050696.0	0.311603	N
3	IC 410-661633/7	1.25	0.430692	5.0	1113161.0	0.344554	Y
4	IC 410-661633/6	3.75	1.585388	5.0	1225457.0	0.42277	Y
5	IC 410-661633/5	7.5	3.372834	5.0	1183610.0	0.449711	Y
6	ICIS 410-661633/2	12.5	5.85772	5.0	1134927.0	0.468618	Y
7	IC 410-661633/4	20.0	9.510756	5.0	1217175.0	0.475538	Y
8	IC 410-661633/3	30.0	16.11727	5.0	1092082.0	0.537242	Y



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Calibration / 2-Acetylaminofluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

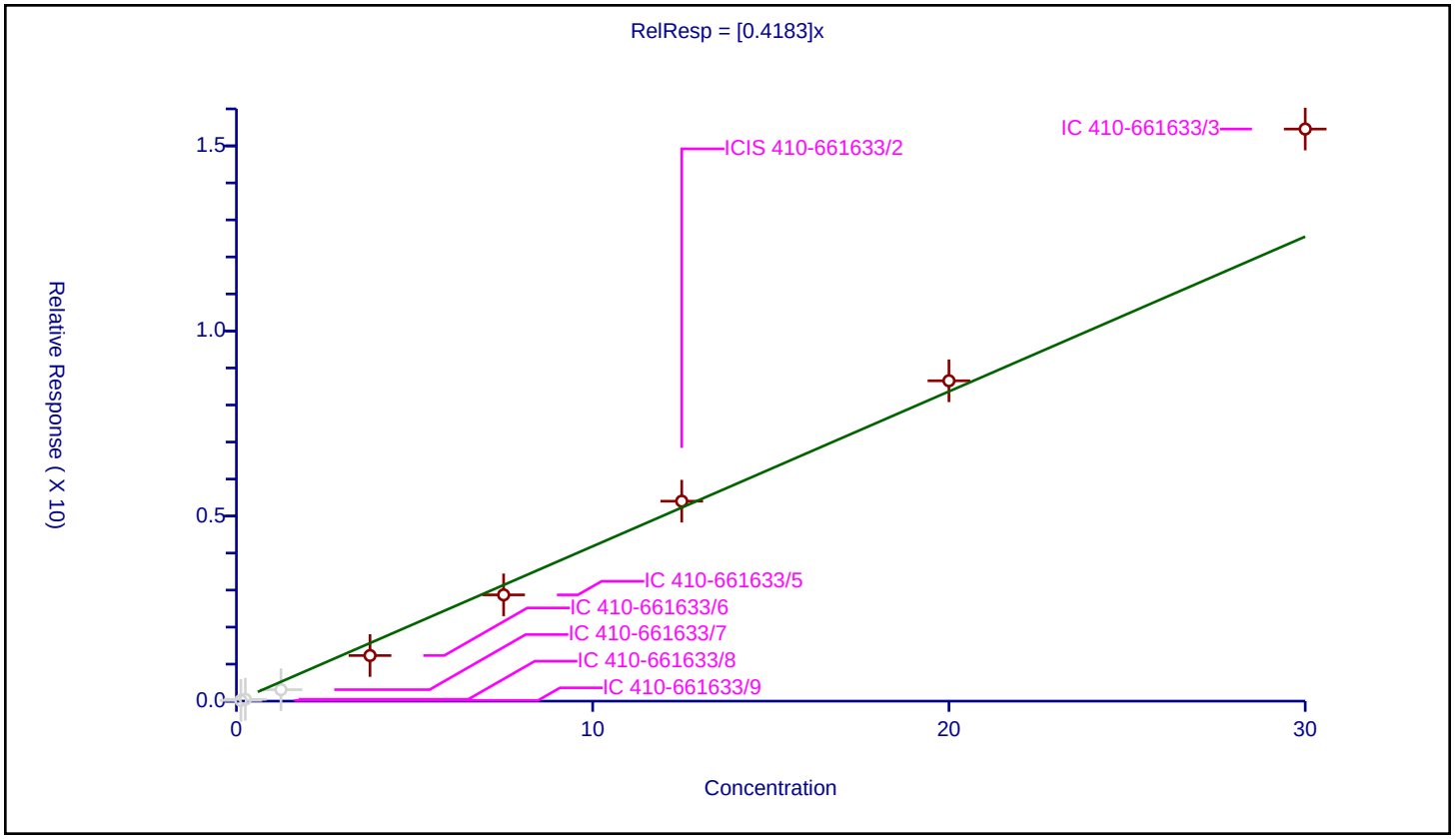
Curve Coefficients

Intercept:	0
Slope:	0.4183

Error Coefficients

Relative Standard Deviation:	16.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.020219	5.0	1095497.0	0.161753	N
2	IC 410-661633/8	0.25	0.04932	5.0	1050696.0	0.197279	N
3	IC 410-661633/7	1.25	0.310076	5.0	1113161.0	0.248061	N
4	IC 410-661633/6	3.75	1.232483	5.0	1225457.0	0.328662	Y
5	IC 410-661633/5	7.5	2.87122	5.0	1183610.0	0.382829	Y
6	ICIS 410-661633/2	12.5	5.402039	5.0	1134927.0	0.432163	Y
7	IC 410-661633/4	20.0	8.655054	5.0	1217175.0	0.432753	Y
8	IC 410-661633/3	30.0	15.45541	5.0	1092082.0	0.51518	Y



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Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

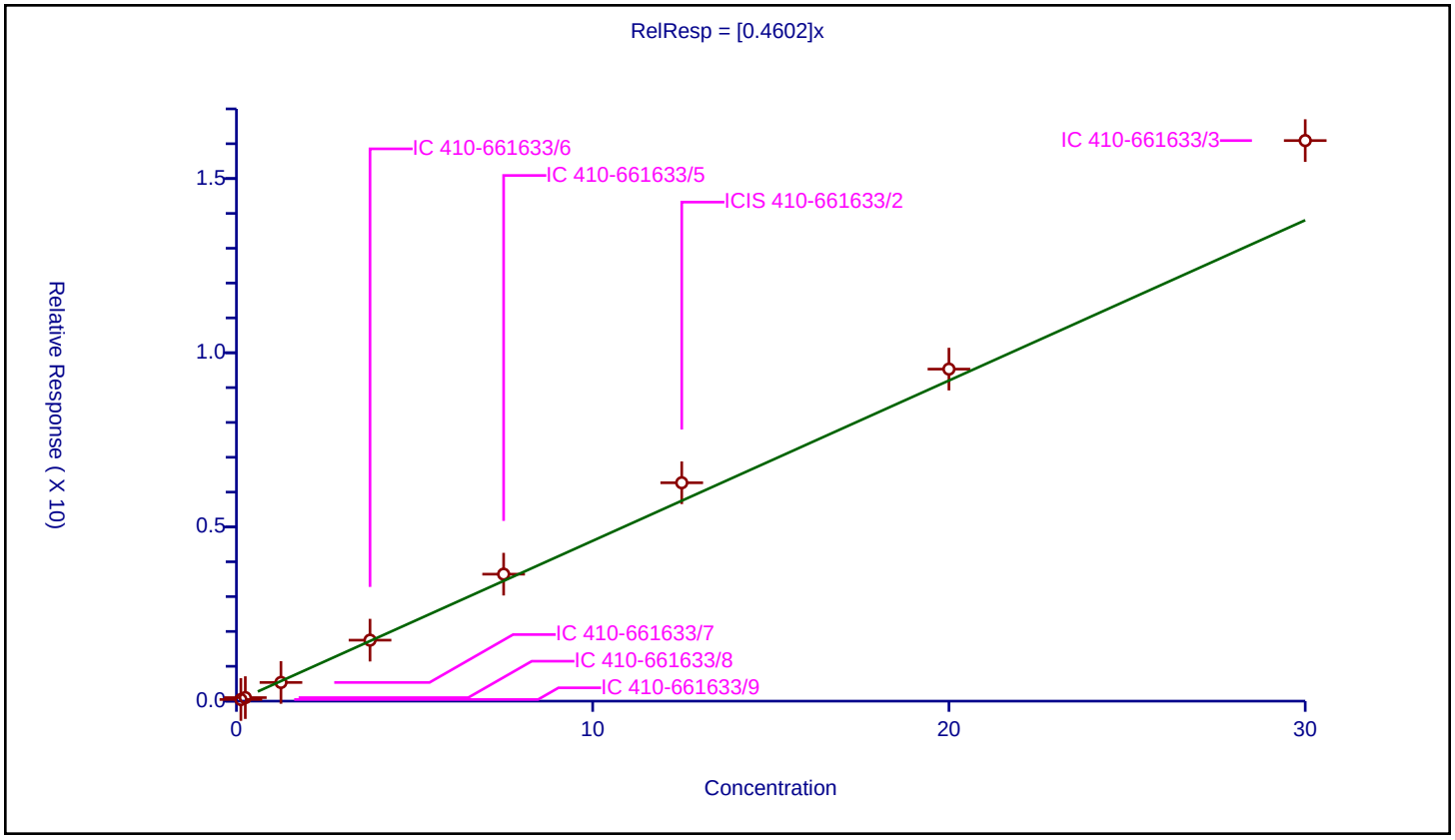
Curve Coefficients

Intercept:	0
Slope:	0.4602

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.047389	5.0	1095497.0	0.379116	Y
2	IC 410-661633/8	0.25	0.101542	5.0	1050696.0	0.406169	Y
3	IC 410-661633/7	1.25	0.53614	5.0	1113161.0	0.428912	Y
4	IC 410-661633/6	3.75	1.750657	5.0	1225457.0	0.466842	Y
5	IC 410-661633/5	7.5	3.644862	5.0	1183610.0	0.485982	Y
6	ICIS 410-661633/2	12.5	6.268372	5.0	1134927.0	0.50147	Y
7	IC 410-661633/4	20.0	9.530819	5.0	1217175.0	0.476541	Y
8	IC 410-661633/3	30.0	16.090042	5.0	1092082.0	0.536335	Y



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Calibration / 4,4'-Methylene bis(2-chloroaniline)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

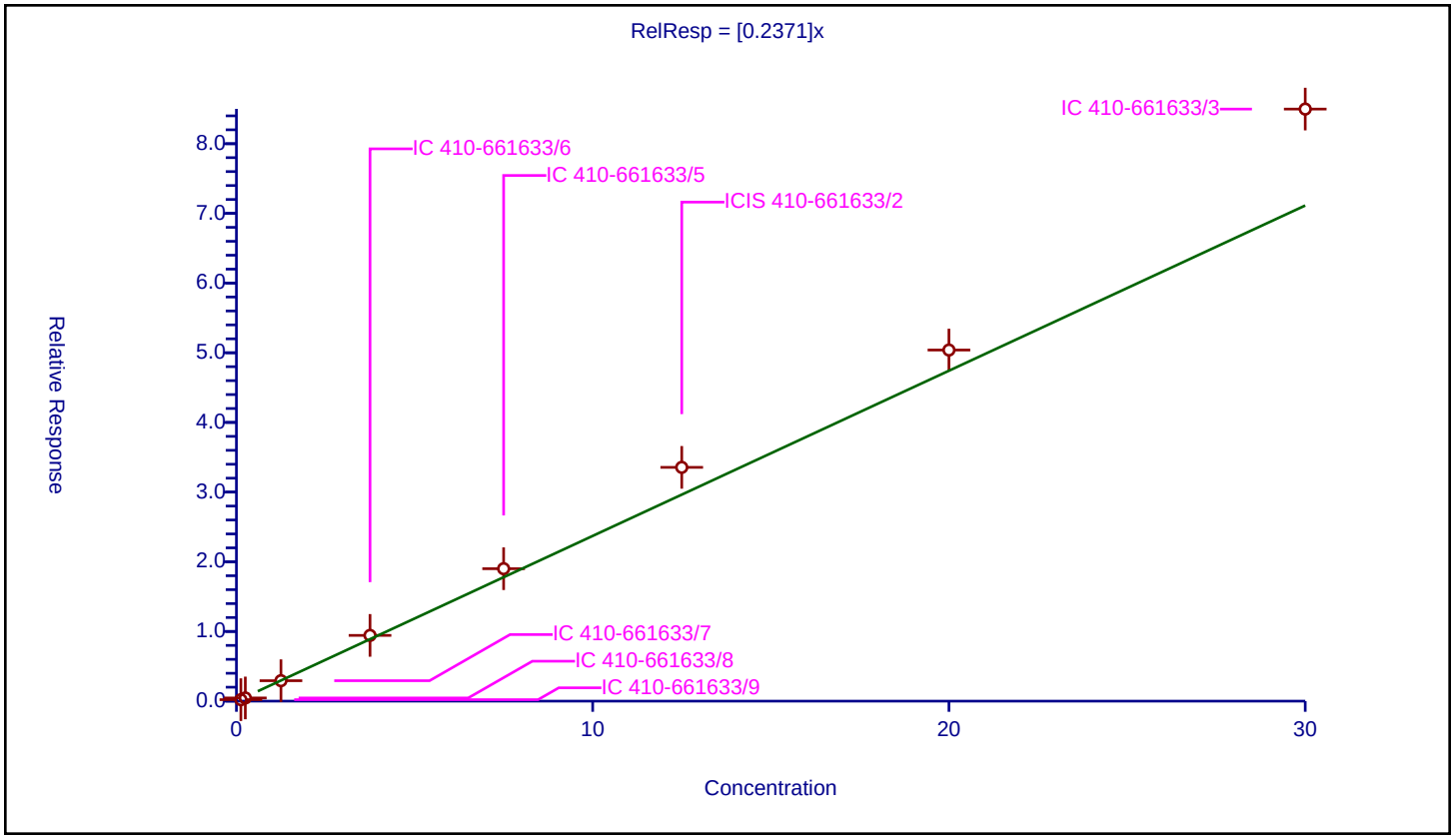
Curve Coefficients

Intercept:	0
Slope:	0.2371

Error Coefficients

Relative Standard Deviation:	16.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.02131	5.0	1095497.0	0.17048	Y
2	IC 410-661633/8	0.25	0.045751	5.0	1050696.0	0.183003	Y
3	IC 410-661633/7	1.25	0.293457	5.0	1113161.0	0.234766	Y
4	IC 410-661633/6	3.75	0.943432	5.0	1225457.0	0.251582	Y
5	IC 410-661633/5	7.5	1.900833	5.0	1183610.0	0.253444	Y
6	ICIS 410-661633/2	12.5	3.355251	5.0	1134927.0	0.26842	Y
7	IC 410-661633/4	20.0	5.039111	5.0	1217175.0	0.251956	Y
8	IC 410-661633/3	30.0	8.49721	5.0	1092082.0	0.28324	Y



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Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

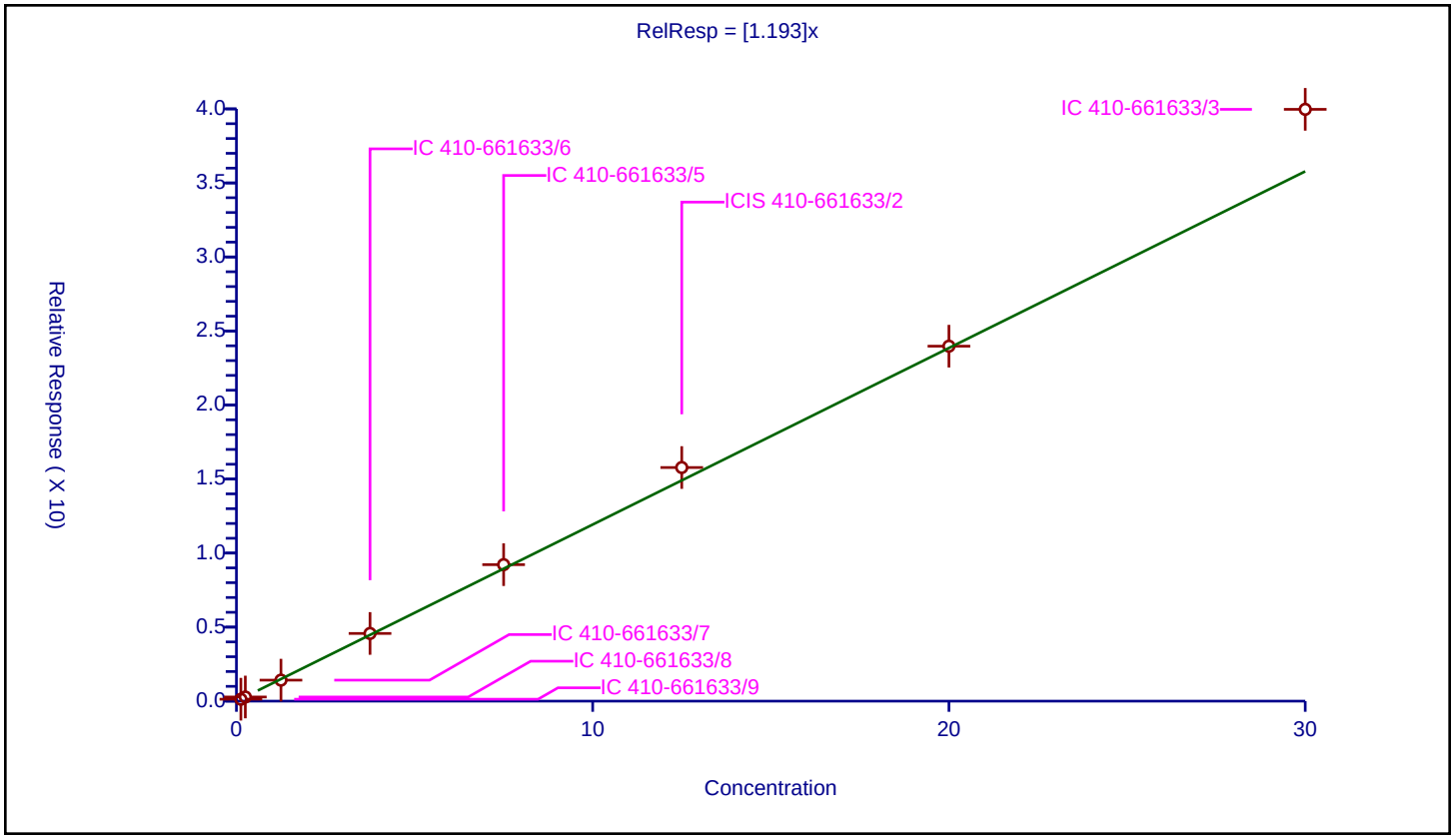
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.130411	5.0	1095497.0	1.043289	Y
2	IC 410-661633/8	0.25	0.280543	5.0	1050696.0	1.12217	Y
3	IC 410-661633/7	1.25	1.417728	5.0	1113161.0	1.134183	Y
4	IC 410-661633/6	3.75	4.571813	5.0	1225457.0	1.21915	Y
5	IC 410-661633/5	7.5	9.217669	5.0	1183610.0	1.229023	Y
6	ICIS 410-661633/2	12.5	15.778376	5.0	1134927.0	1.26227	Y
7	IC 410-661633/4	20.0	23.974215	5.0	1217175.0	1.198711	Y
8	IC 410-661633/3	30.0	39.968542	5.0	1092082.0	1.332285	Y



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Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

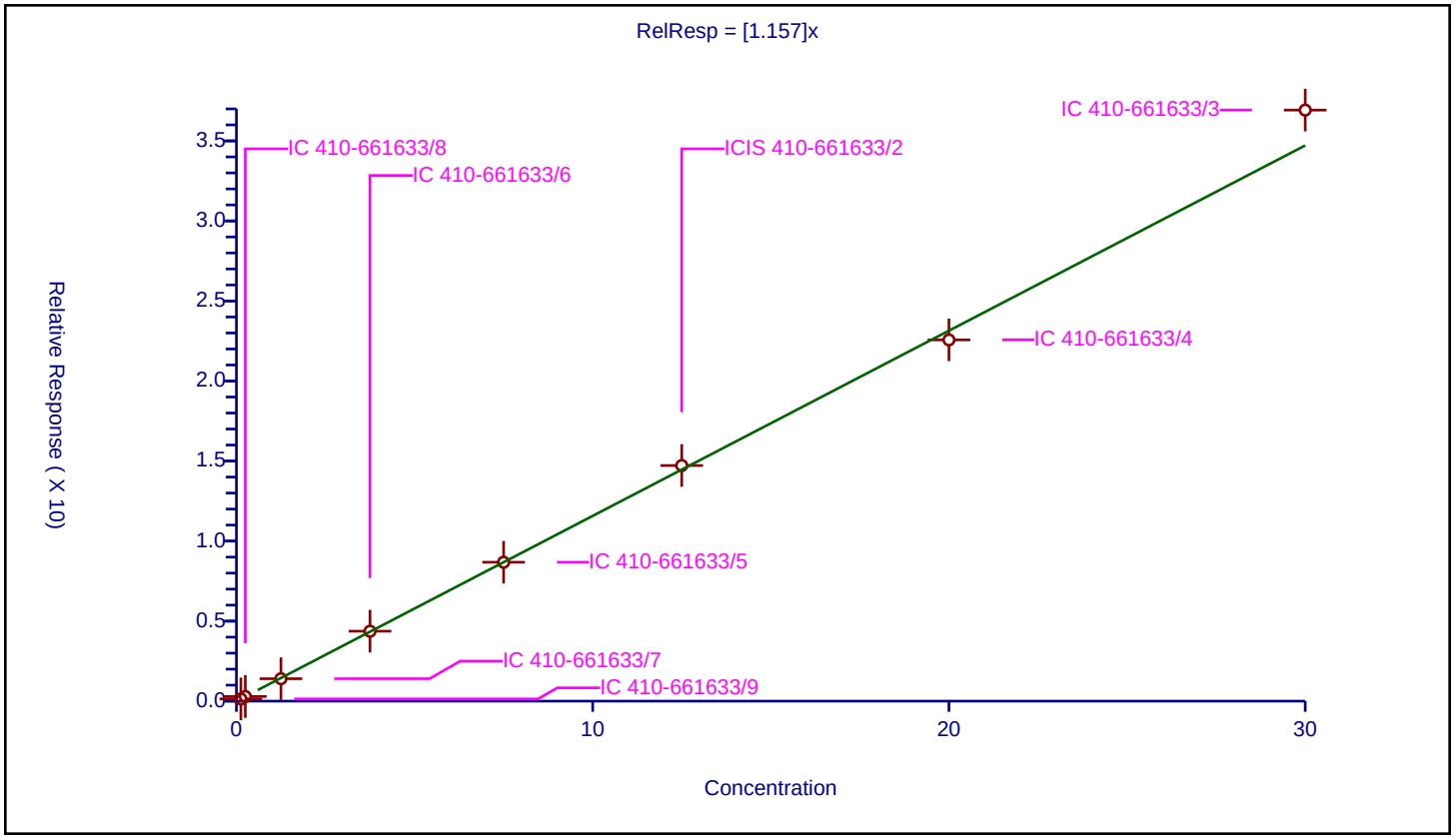
Curve Coefficients

Intercept:	0
Slope:	1.157

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.13906	5.0	1095497.0	1.112481	Y
2	IC 410-661633/8	0.25	0.290864	5.0	1050696.0	1.163457	Y
3	IC 410-661633/7	1.25	1.40265	5.0	1113161.0	1.12212	Y
4	IC 410-661633/6	3.75	4.369957	5.0	1225457.0	1.165322	Y
5	IC 410-661633/5	7.5	8.677685	5.0	1183610.0	1.157025	Y
6	ICIS 410-661633/2	12.5	14.719995	5.0	1134927.0	1.1776	Y
7	IC 410-661633/4	20.0	22.56848	5.0	1217175.0	1.128424	Y
8	IC 410-661633/3	30.0	36.923074	5.0	1092082.0	1.230769	Y



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Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

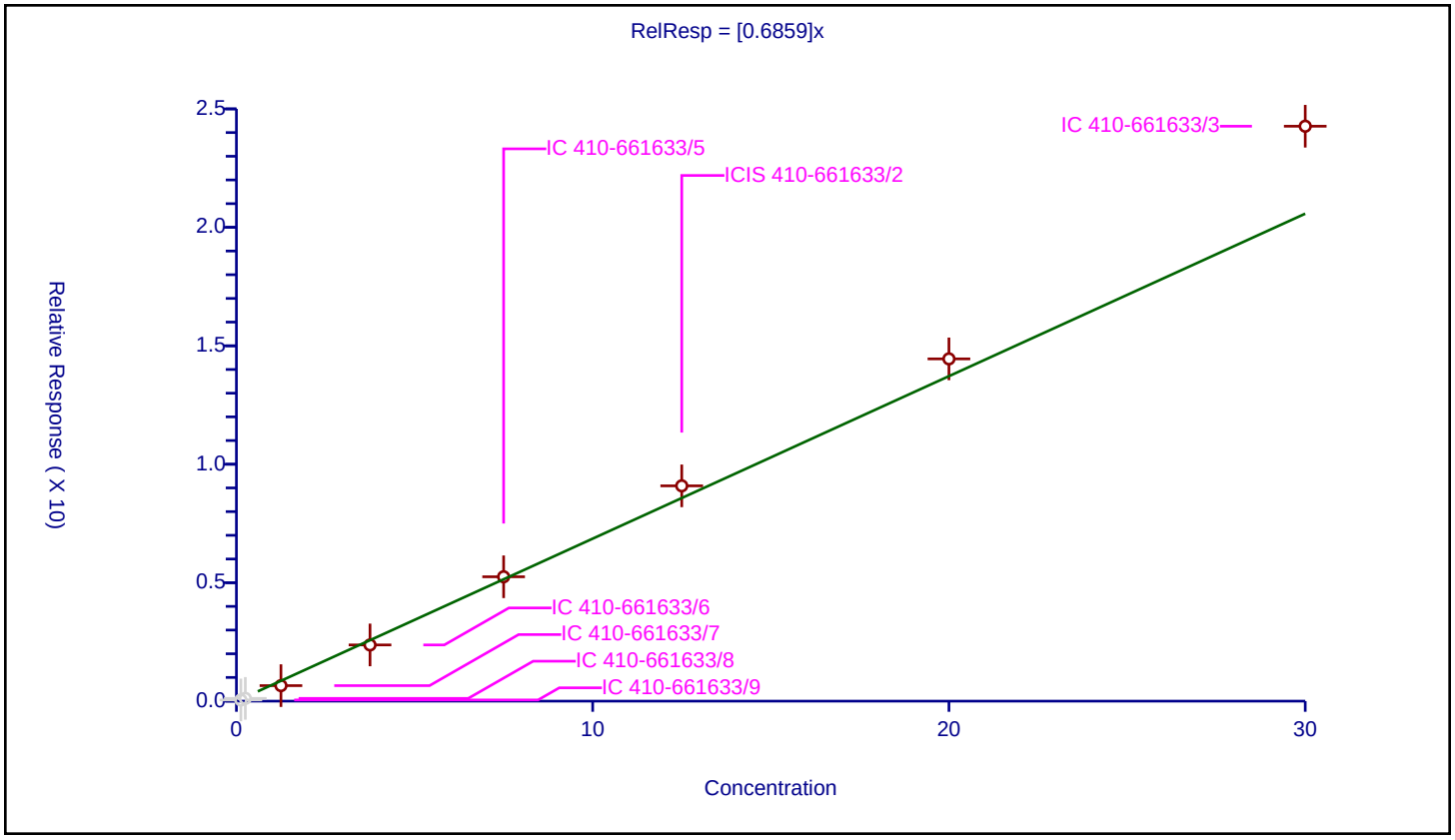
Curve Coefficients

Intercept:	0
Slope:	0.6859

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.050183	5.0	1095497.0	0.401462	N
2	IC 410-661633/8	0.25	0.11589	5.0	1050696.0	0.463559	N
3	IC 410-661633/7	1.25	0.655242	5.0	1113161.0	0.524194	Y
4	IC 410-661633/6	3.75	2.372572	5.0	1225457.0	0.632686	Y
5	IC 410-661633/5	7.5	5.250032	5.0	1183610.0	0.700004	Y
6	ICIS 410-661633/2	12.5	9.088457	5.0	1134927.0	0.727077	Y
7	IC 410-661633/4	20.0	14.447725	5.0	1217175.0	0.722386	Y
8	IC 410-661633/3	30.0	24.268361	5.0	1092082.0	0.808945	Y



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Calibration / 6-Methylchrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

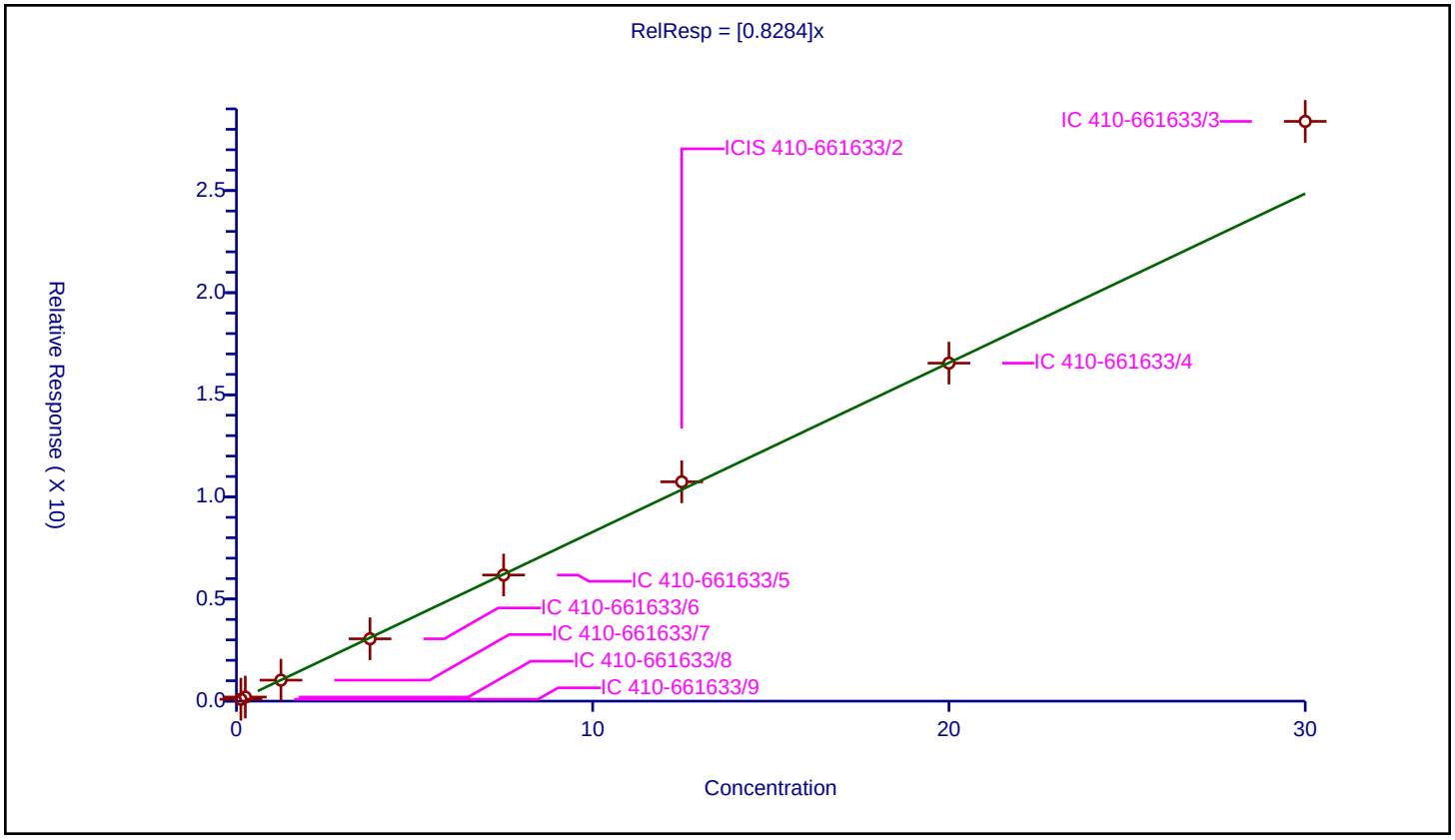
Curve Coefficients

Intercept:	0
Slope:	0.8284

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.091712	5.0	1095497.0	0.733694	Y
2	IC 410-661633/8	0.25	0.200025	5.0	1050696.0	0.800098	Y
3	IC 410-661633/7	1.25	1.028858	5.0	1113161.0	0.823087	Y
4	IC 410-661633/6	3.75	3.051992	5.0	1225457.0	0.813865	Y
5	IC 410-661633/5	7.5	6.176477	5.0	1183610.0	0.82353	Y
6	ICIS 410-661633/2	12.5	10.738536	5.0	1134927.0	0.859083	Y
7	IC 410-661633/4	20.0	16.549991	5.0	1217175.0	0.8275	Y
8	IC 410-661633/3	30.0	28.388079	5.0	1092082.0	0.946269	Y



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Calibration / Di-n-octyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

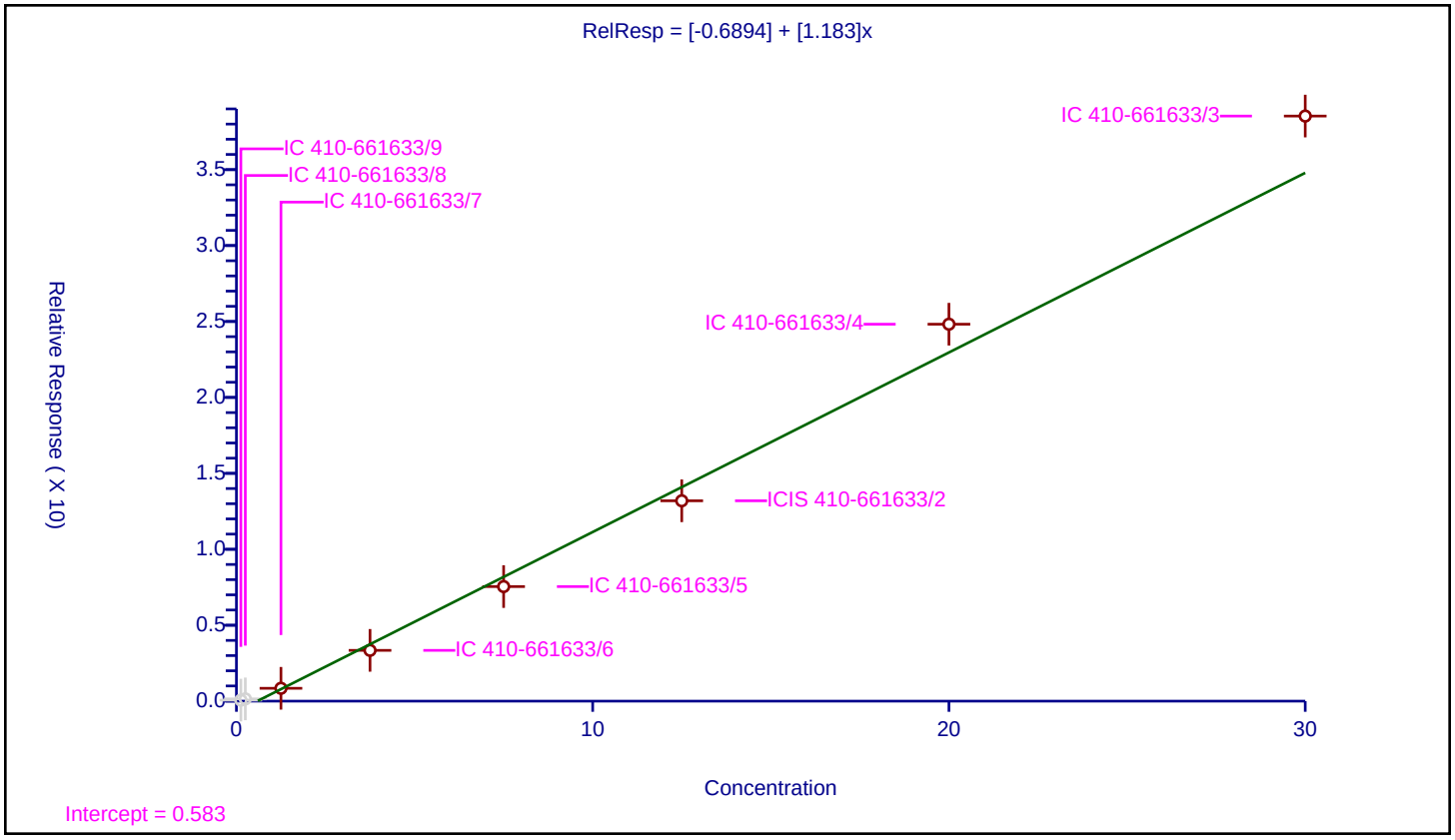
Curve Coefficients

Intercept:	-0.6894
Slope:	1.183

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.068249	5.0	960900.0	0.545988	N
2	IC 410-661633/8	0.25	0.148585	5.0	1045531.0	0.594339	N
3	IC 410-661633/7	1.25	0.846277	5.0	1097637.0	0.677022	Y
4	IC 410-661633/6	3.75	3.343205	5.0	1205602.0	0.891521	Y
5	IC 410-661633/5	7.5	7.544509	5.0	1208021.0	1.005934	Y
6	ICIS 410-661633/2	12.5	13.19414	5.0	1210811.0	1.055531	Y
7	IC 410-661633/4	20.0	24.821034	5.0	1084510.0	1.241052	Y
8	IC 410-661633/3	30.0	38.527574	5.0	1127133.0	1.284252	Y



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Calibration / 7,12-Dimethylbenz(a)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

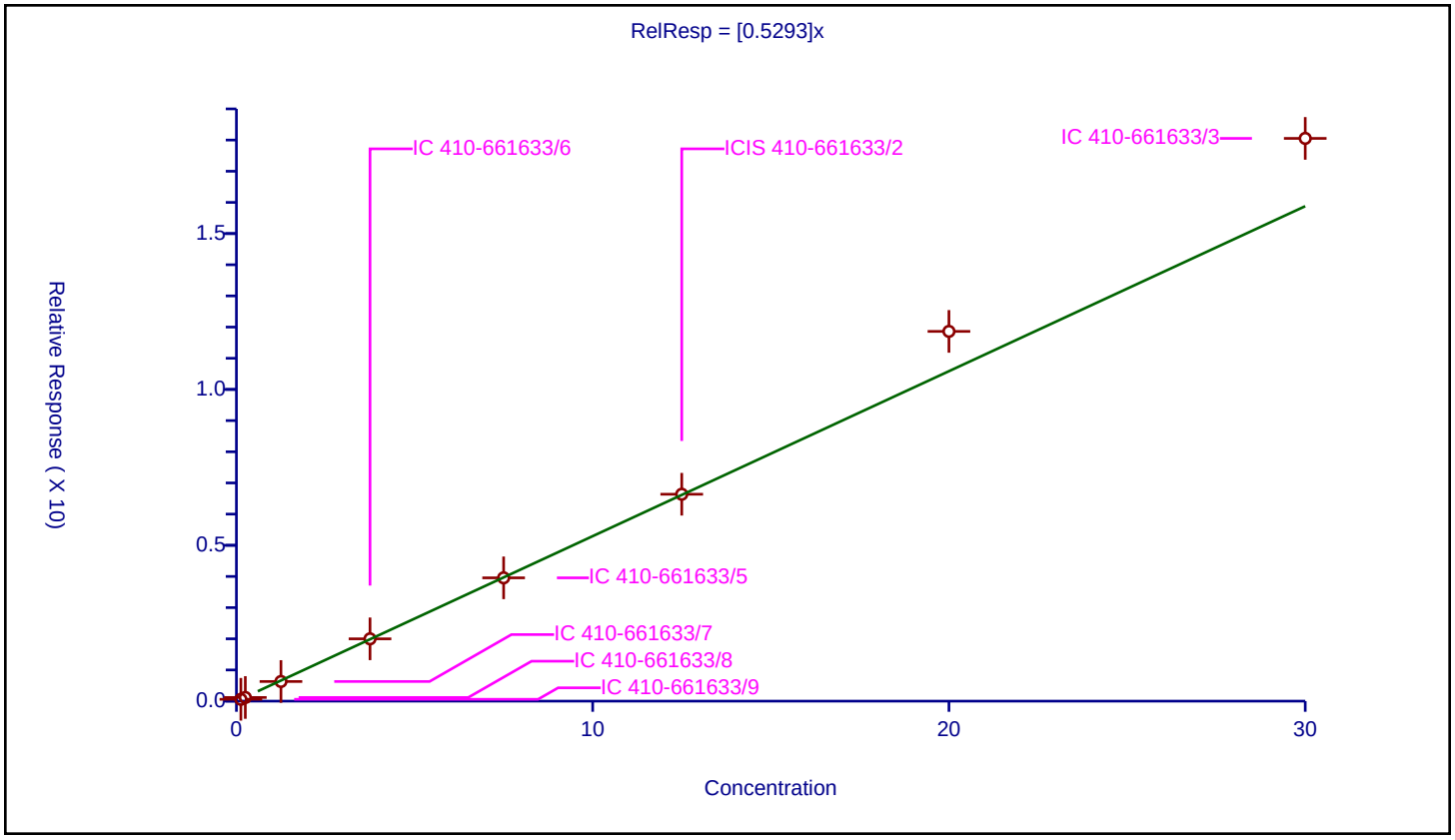
Curve Coefficients

Intercept:	0
Slope:	0.5293

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.059304	5.0	960900.0	0.47443	Y
2	IC 410-661633/8	0.25	0.117342	5.0	1045531.0	0.469369	Y
3	IC 410-661633/7	1.25	0.629858	5.0	1097637.0	0.503886	Y
4	IC 410-661633/6	3.75	1.999205	5.0	1205602.0	0.533121	Y
5	IC 410-661633/5	7.5	3.955949	5.0	1208021.0	0.52746	Y
6	ICIS 410-661633/2	12.5	6.637477	5.0	1210811.0	0.530998	Y
7	IC 410-661633/4	20.0	11.862256	5.0	1084510.0	0.593113	Y
8	IC 410-661633/3	30.0	18.053291	5.0	1127133.0	0.601776	Y



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Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

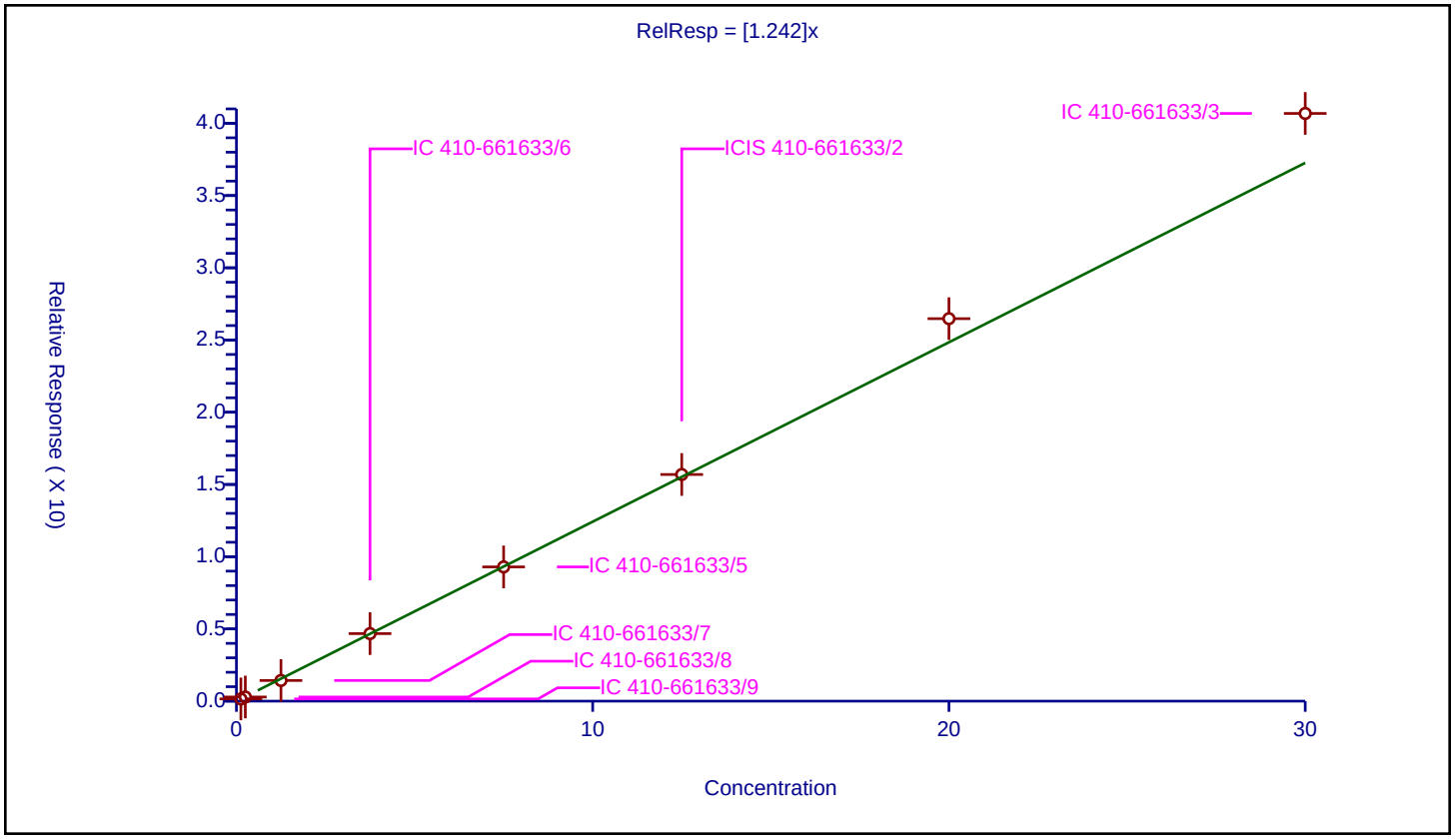
Curve Coefficients

Intercept:	0
Slope:	1.242

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.153367	5.0	960900.0	1.226933	Y
2	IC 410-661633/8	0.25	0.286338	5.0	1045531.0	1.145351	Y
3	IC 410-661633/7	1.25	1.430027	5.0	1097637.0	1.144021	Y
4	IC 410-661633/6	3.75	4.674532	5.0	1205602.0	1.246542	Y
5	IC 410-661633/5	7.5	9.291457	5.0	1208021.0	1.238861	Y
6	ICIS 410-661633/2	12.5	15.689108	5.0	1210811.0	1.255129	Y
7	IC 410-661633/4	20.0	26.478419	5.0	1084510.0	1.323921	Y
8	IC 410-661633/3	30.0	40.684161	5.0	1127133.0	1.356139	Y



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Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

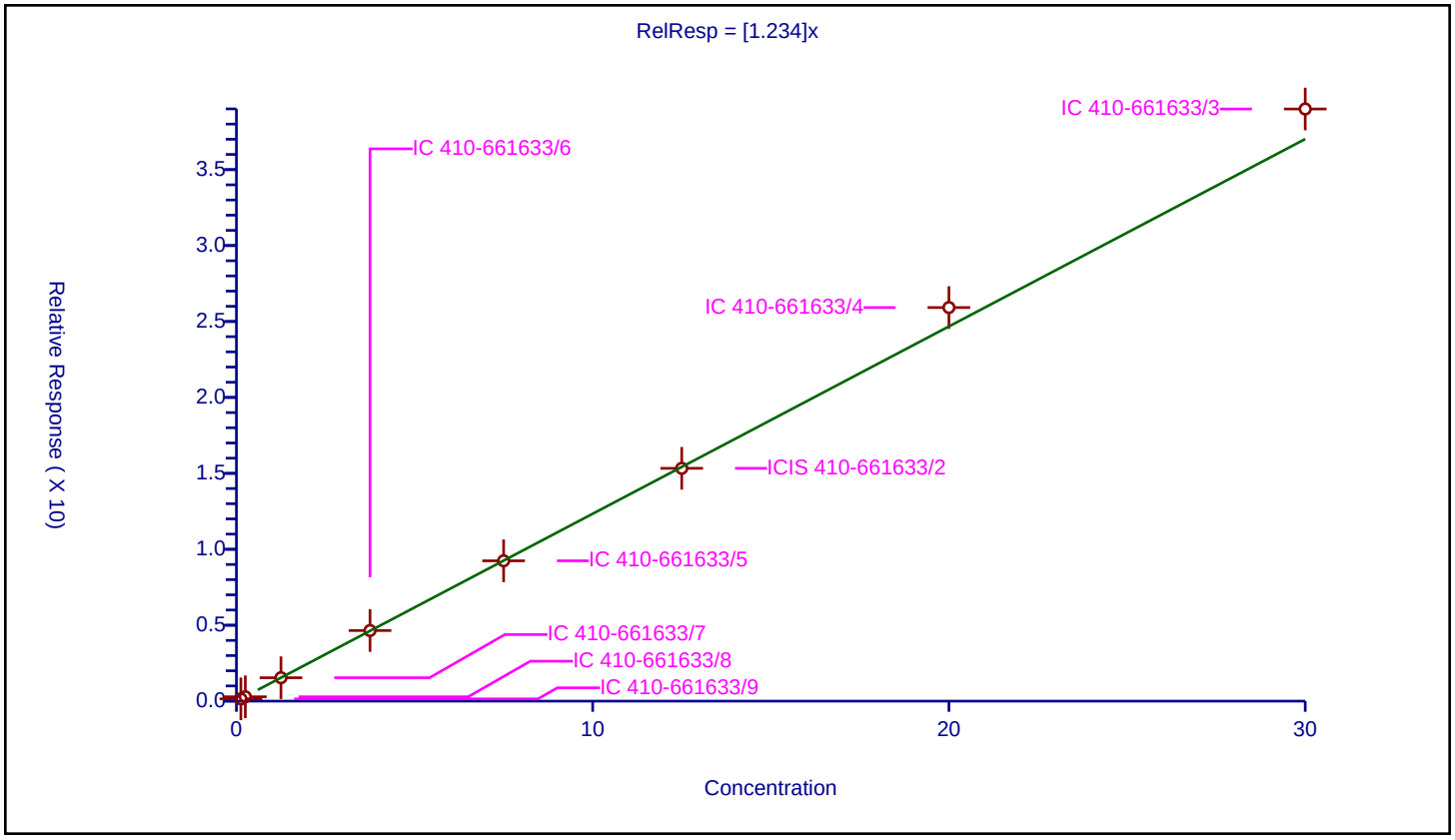
Curve Coefficients

Intercept:	0
Slope:	1.234

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.150036	5.0	960900.0	1.200291	Y
2	IC 410-661633/8	0.25	0.285912	5.0	1045531.0	1.143649	Y
3	IC 410-661633/7	1.25	1.540309	5.0	1097637.0	1.232247	Y
4	IC 410-661633/6	3.75	4.649486	5.0	1205602.0	1.239863	Y
5	IC 410-661633/5	7.5	9.241089	5.0	1208021.0	1.232145	Y
6	ICIS 410-661633/2	12.5	15.331154	5.0	1210811.0	1.226492	Y
7	IC 410-661633/4	20.0	25.917954	5.0	1084510.0	1.295898	Y
8	IC 410-661633/3	30.0	38.992444	5.0	1127133.0	1.299748	Y



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Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

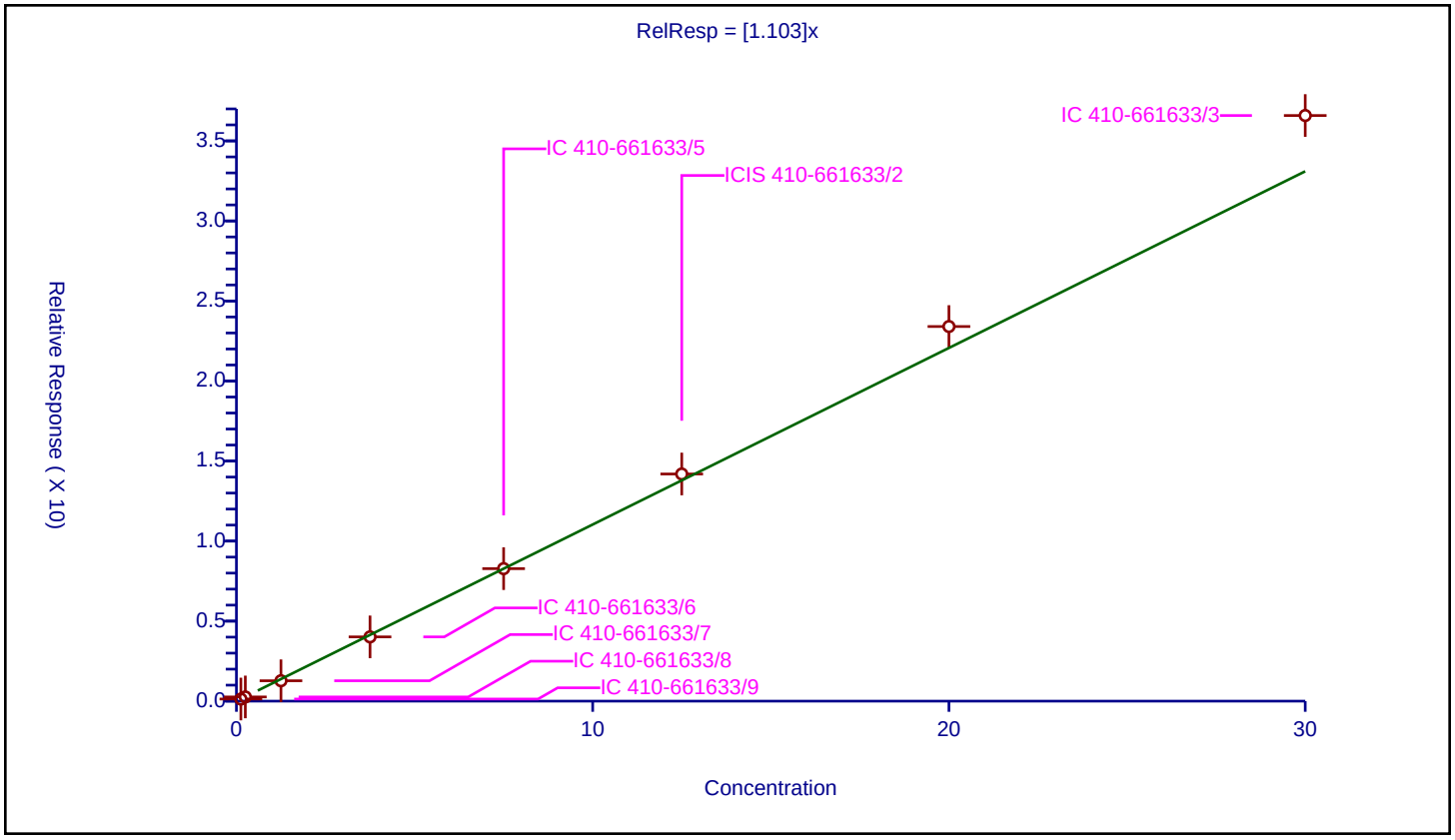
Curve Coefficients

Intercept:	0
Slope:	1.103

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.13222	5.0	960900.0	1.057758	Y
2	IC 410-661633/8	0.25	0.262862	5.0	1045531.0	1.051447	Y
3	IC 410-661633/7	1.25	1.273317	5.0	1097637.0	1.018654	Y
4	IC 410-661633/6	3.75	4.01341	5.0	1205602.0	1.070243	Y
5	IC 410-661633/5	7.5	8.276648	5.0	1208021.0	1.103553	Y
6	ICIS 410-661633/2	12.5	14.190481	5.0	1210811.0	1.135238	Y
7	IC 410-661633/4	20.0	23.403454	5.0	1084510.0	1.170173	Y
8	IC 410-661633/3	30.0	36.585918	5.0	1127133.0	1.219531	Y



Calibration / 3-Methylcholanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

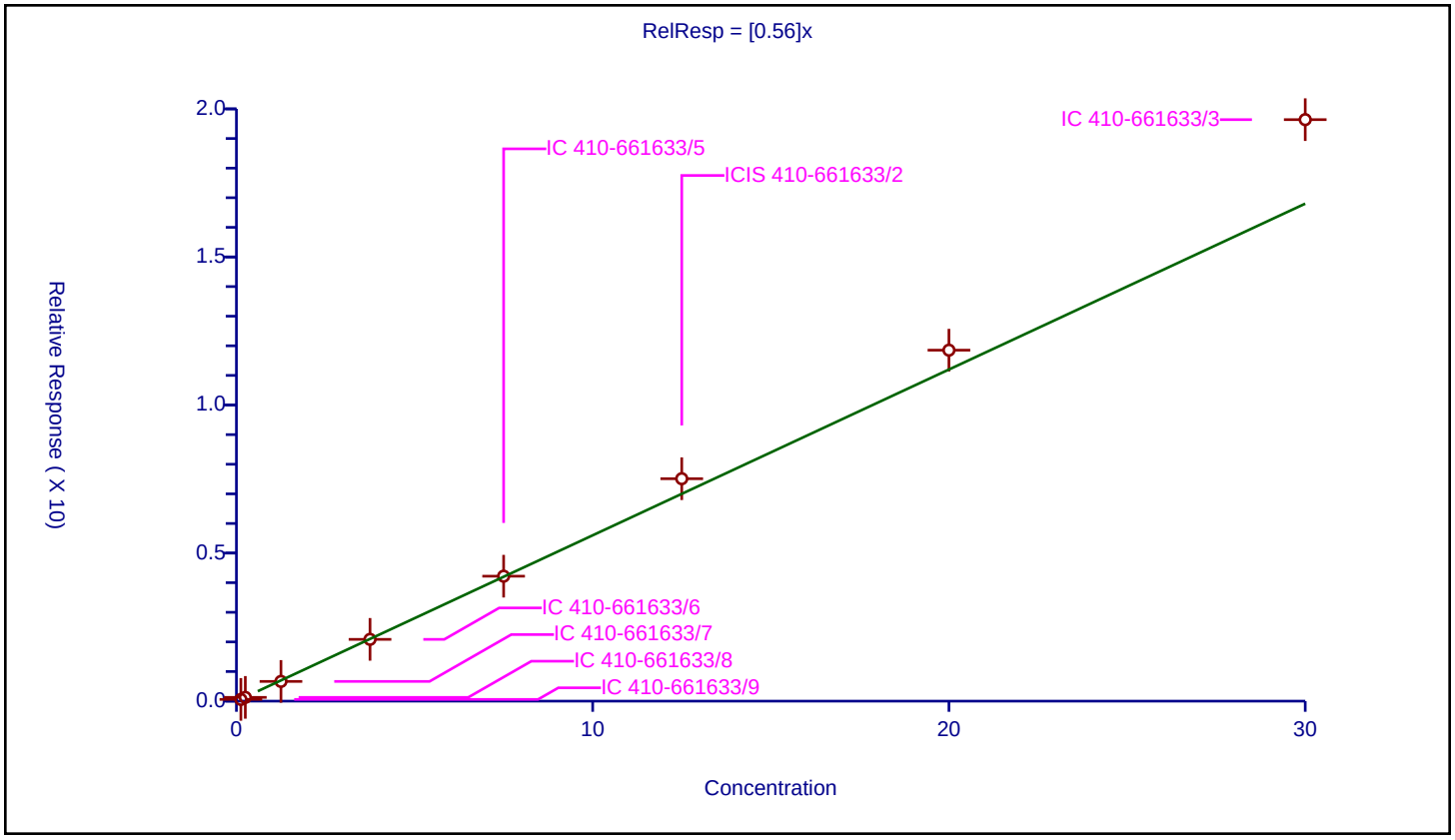
Curve Coefficients

Intercept:	0
Slope:	0.56

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.058872	5.0	960900.0	0.470975	Y
2	IC 410-661633/8	0.25	0.12727	5.0	1045531.0	0.509081	Y
3	IC 410-661633/7	1.25	0.665694	5.0	1097637.0	0.532555	Y
4	IC 410-661633/6	3.75	2.086547	5.0	1205602.0	0.556412	Y
5	IC 410-661633/5	7.5	4.219682	5.0	1208021.0	0.562624	Y
6	ICIS 410-661633/2	12.5	7.511593	5.0	1210811.0	0.600927	Y
7	IC 410-661633/4	20.0	11.851984	5.0	1084510.0	0.592599	Y
8	IC 410-661633/3	30.0	19.63699	5.0	1127133.0	0.654566	Y



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Calibration / Dibenz[a,h]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

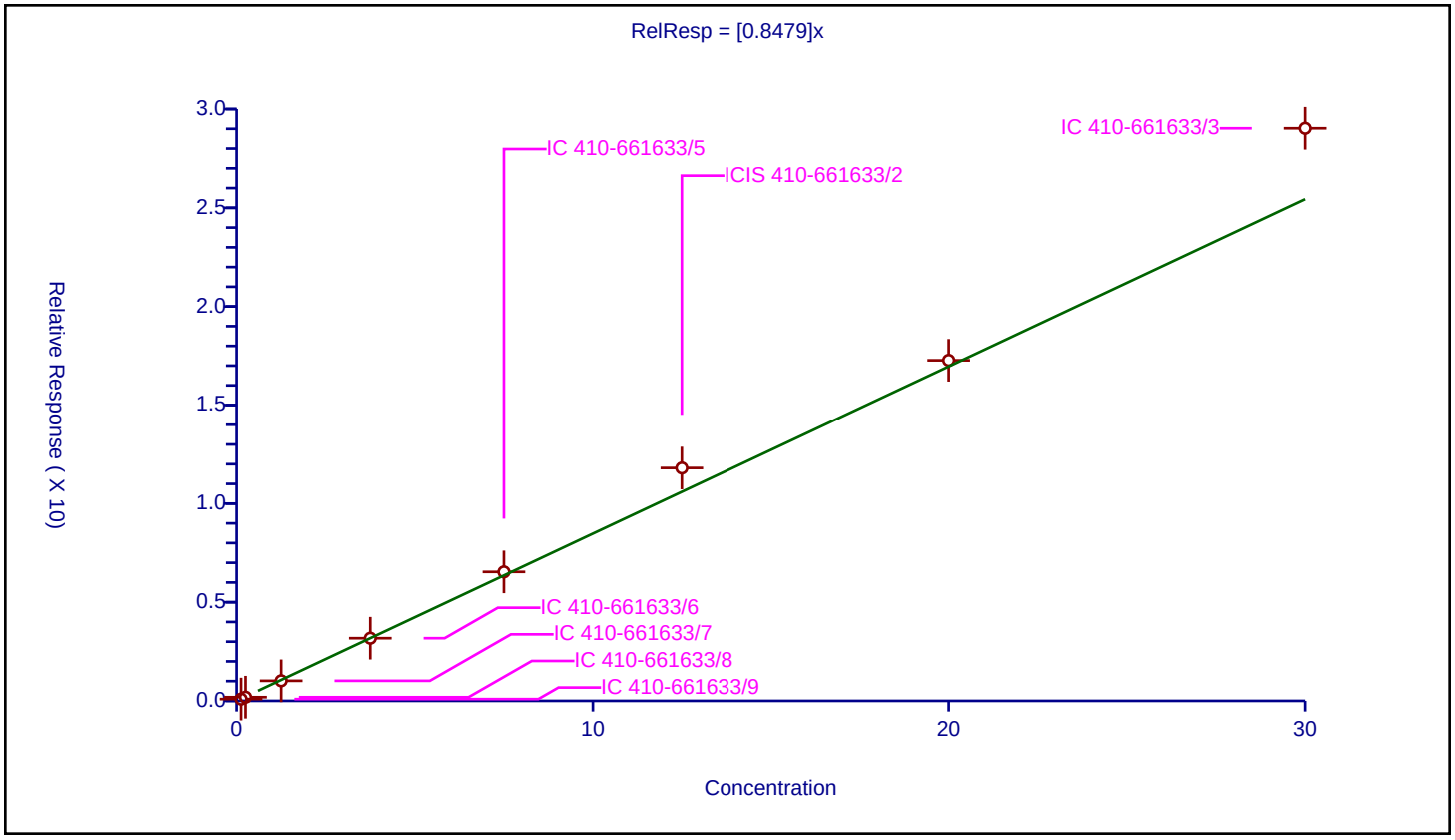
Curve Coefficients

Intercept:	0
Slope:	0.8479

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.091279	5.0	960900.0	0.730232	Y
2	IC 410-661633/8	0.25	0.186207	5.0	1045531.0	0.744827	Y
3	IC 410-661633/7	1.25	1.017035	5.0	1097637.0	0.813628	Y
4	IC 410-661633/6	3.75	3.176998	5.0	1205602.0	0.847199	Y
5	IC 410-661633/5	7.5	6.538036	5.0	1208021.0	0.871738	Y
6	ICIS 410-661633/2	12.5	11.805591	5.0	1210811.0	0.944447	Y
7	IC 410-661633/4	20.0	17.269661	5.0	1084510.0	0.863483	Y
8	IC 410-661633/3	30.0	29.027311	5.0	1127133.0	0.967577	Y



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Calibration / Dibenz[a,j]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

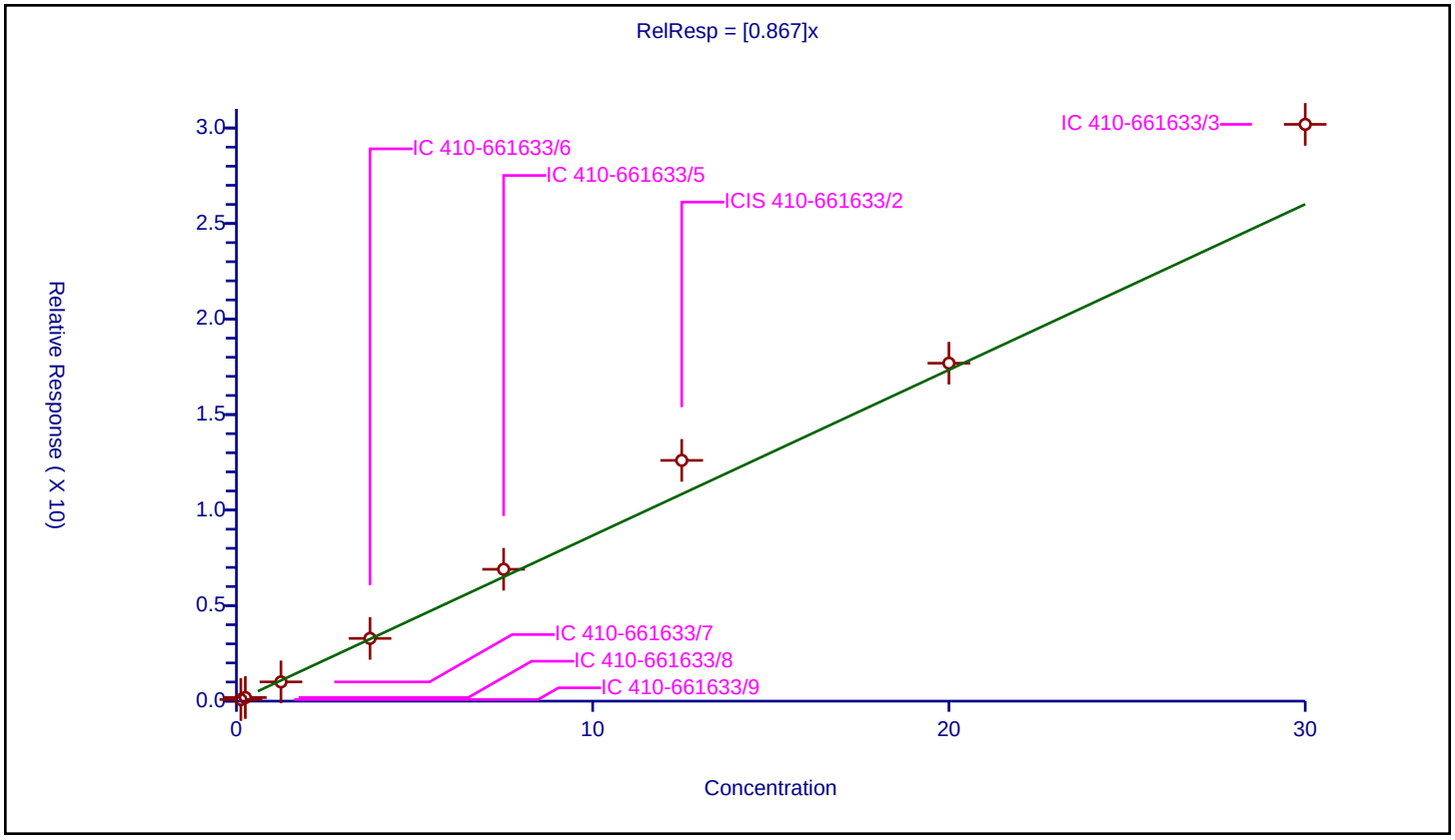
Curve Coefficients

Intercept:	0
Slope:	0.867

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.084926	5.0	960900.0	0.679405	Y
2	IC 410-661633/8	0.25	0.188746	5.0	1045531.0	0.754985	Y
3	IC 410-661633/7	1.25	1.007742	5.0	1097637.0	0.806194	Y
4	IC 410-661633/6	3.75	3.284148	5.0	1205602.0	0.875773	Y
5	IC 410-661633/5	7.5	6.902194	5.0	1208021.0	0.920293	Y
6	ICIS 410-661633/2	12.5	12.602495	5.0	1210811.0	1.0082	Y
7	IC 410-661633/4	20.0	17.689496	5.0	1084510.0	0.884475	Y
8	IC 410-661633/3	30.0	30.190097	5.0	1127133.0	1.006337	Y



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Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

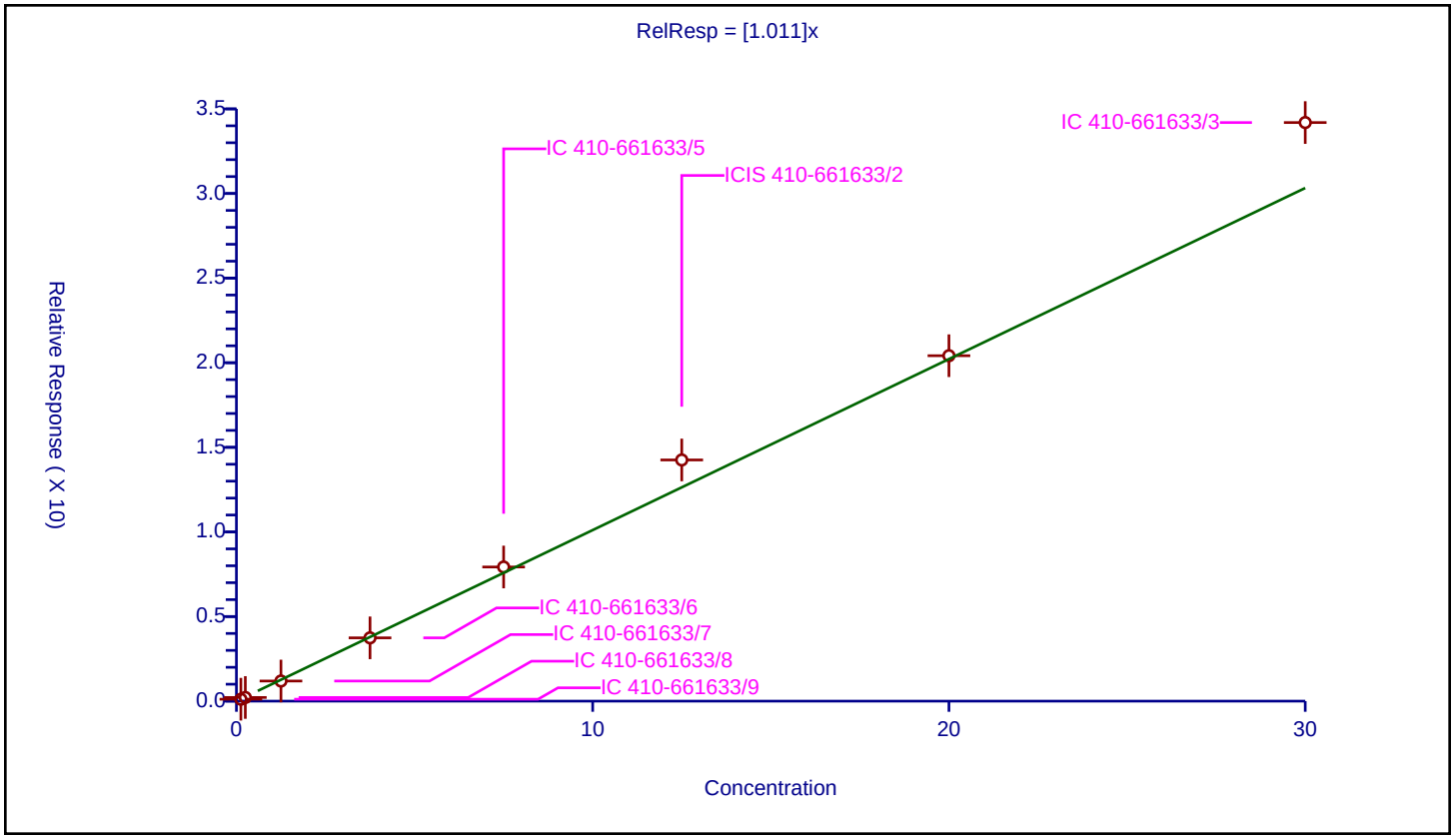
Curve Coefficients

Intercept:	0
Slope:	1.011

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.113836	5.0	960900.0	0.910688	Y
2	IC 410-661633/8	0.25	0.217134	5.0	1045531.0	0.868535	Y
3	IC 410-661633/7	1.25	1.189633	5.0	1097637.0	0.951706	Y
4	IC 410-661633/6	3.75	3.741218	5.0	1205602.0	0.997658	Y
5	IC 410-661633/5	7.5	7.926977	5.0	1208021.0	1.05693	Y
6	ICIS 410-661633/2	12.5	14.253942	5.0	1210811.0	1.140315	Y
7	IC 410-661633/4	20.0	20.413463	5.0	1084510.0	1.020673	Y
8	IC 410-661633/3	30.0	34.191795	5.0	1127133.0	1.139726	Y



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Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

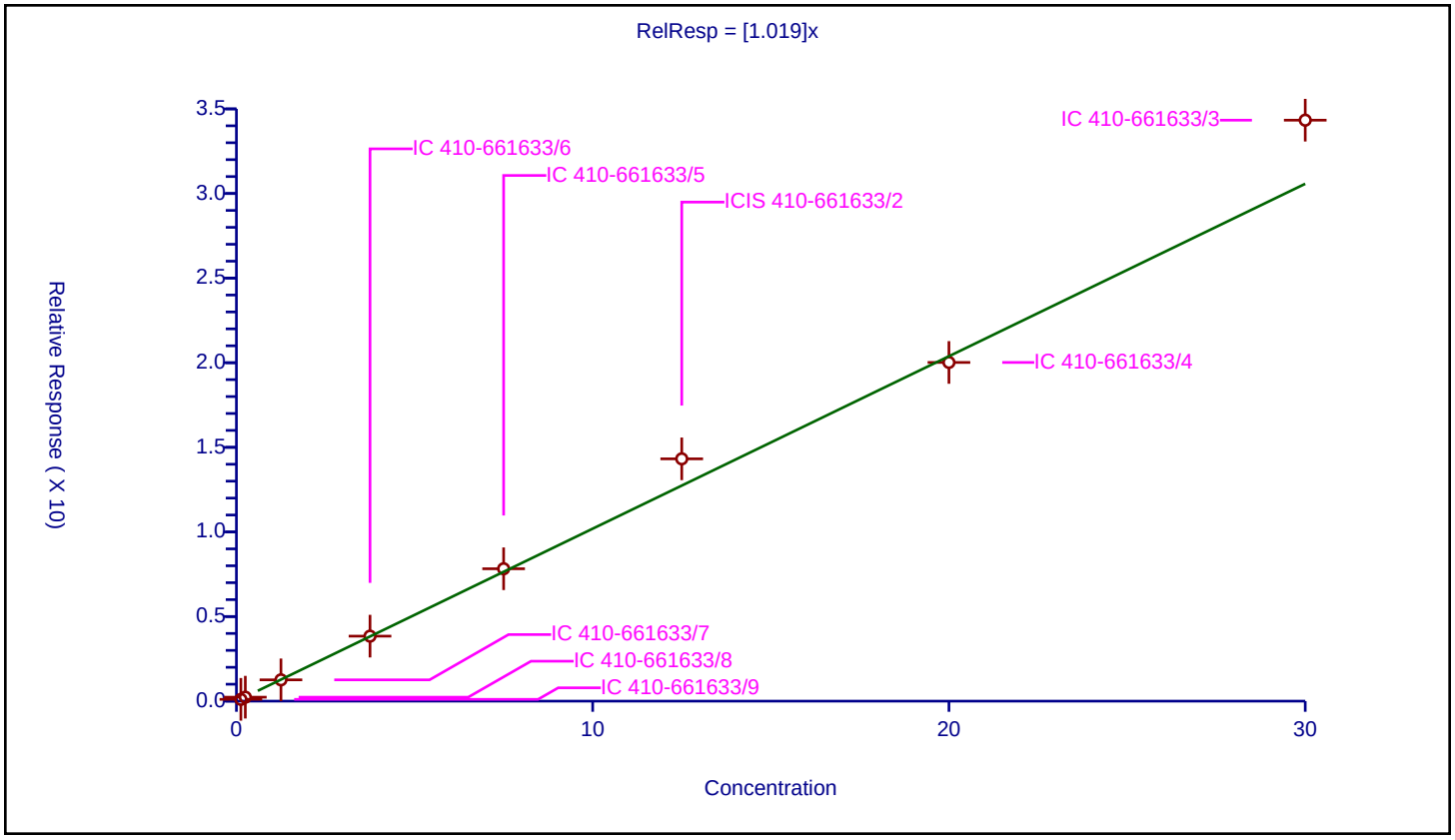
Curve Coefficients

Intercept:	0
Slope:	1.019

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.106239	5.0	960900.0	0.849912	Y
2	IC 410-661633/8	0.25	0.234316	5.0	1045531.0	0.937265	Y
3	IC 410-661633/7	1.25	1.2591	5.0	1097637.0	1.00728	Y
4	IC 410-661633/6	3.75	3.841558	5.0	1205602.0	1.024415	Y
5	IC 410-661633/5	7.5	7.82301	5.0	1208021.0	1.043068	Y
6	ICIS 410-661633/2	12.5	14.319873	5.0	1210811.0	1.14559	Y
7	IC 410-661633/4	20.0	20.015878	5.0	1084510.0	1.000794	Y
8	IC 410-661633/3	30.0	34.332701	5.0	1127133.0	1.144423	Y



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Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

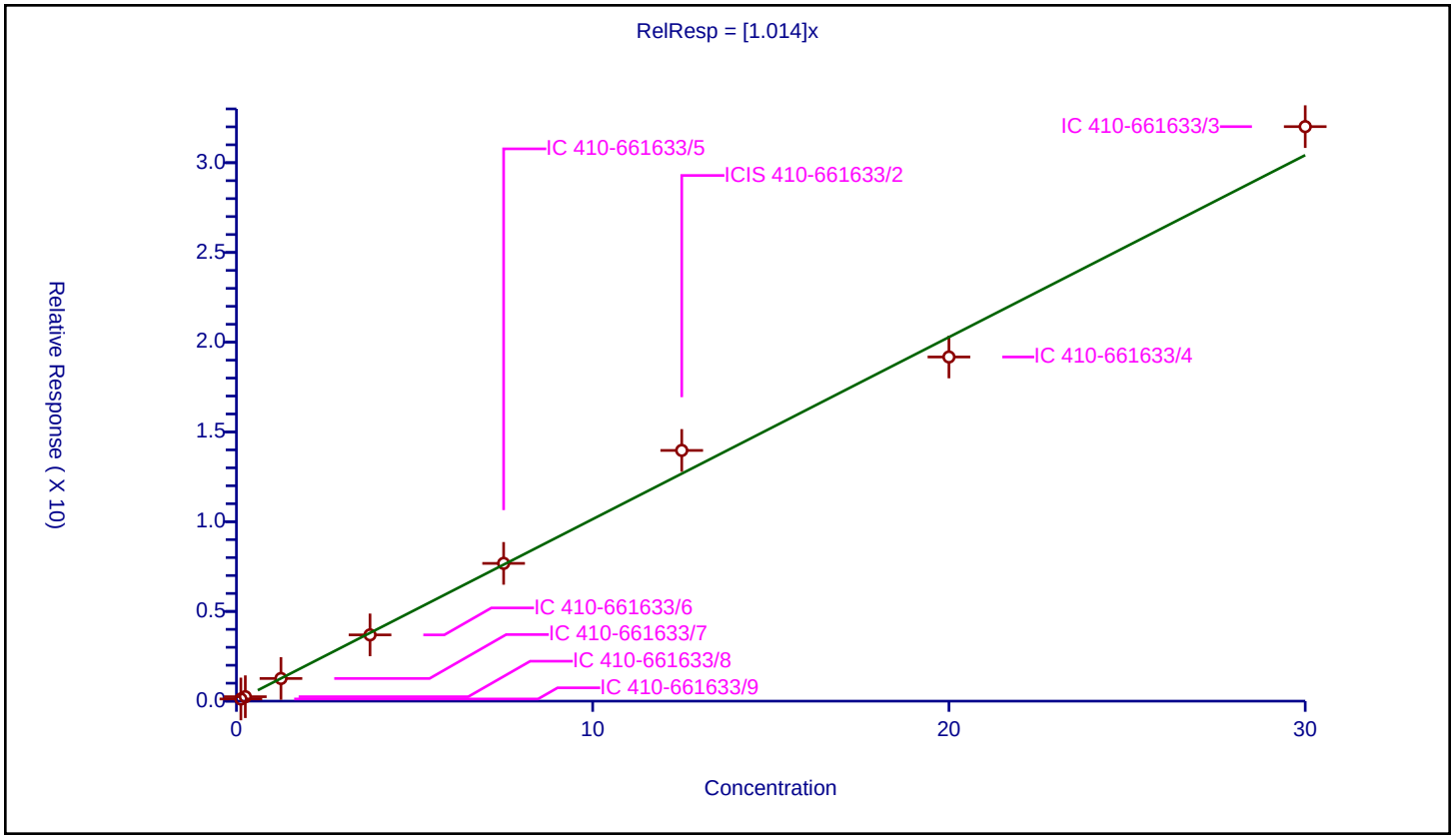
Curve Coefficients

Intercept:	0
Slope:	1.014

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.120486	5.0	960900.0	0.963888	Y
2	IC 410-661633/8	0.25	0.246855	5.0	1045531.0	0.987422	Y
3	IC 410-661633/7	1.25	1.26207	5.0	1097637.0	1.009656	Y
4	IC 410-661633/6	3.75	3.691749	5.0	1205602.0	0.984466	Y
5	IC 410-661633/5	7.5	7.676506	5.0	1208021.0	1.023534	Y
6	ICIS 410-661633/2	12.5	13.970541	5.0	1210811.0	1.117643	Y
7	IC 410-661633/4	20.0	19.175918	5.0	1084510.0	0.958796	Y
8	IC 410-661633/3	30.0	32.011817	5.0	1127133.0	1.067061	Y



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FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 05/02/2025 02:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 05/02/2025 04:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Indene	Ave	2.537	0.2394			12.5	-90.6*	30.0
Benzoic acid	Ave	0.1579	0.0113			12.5	-92.9*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

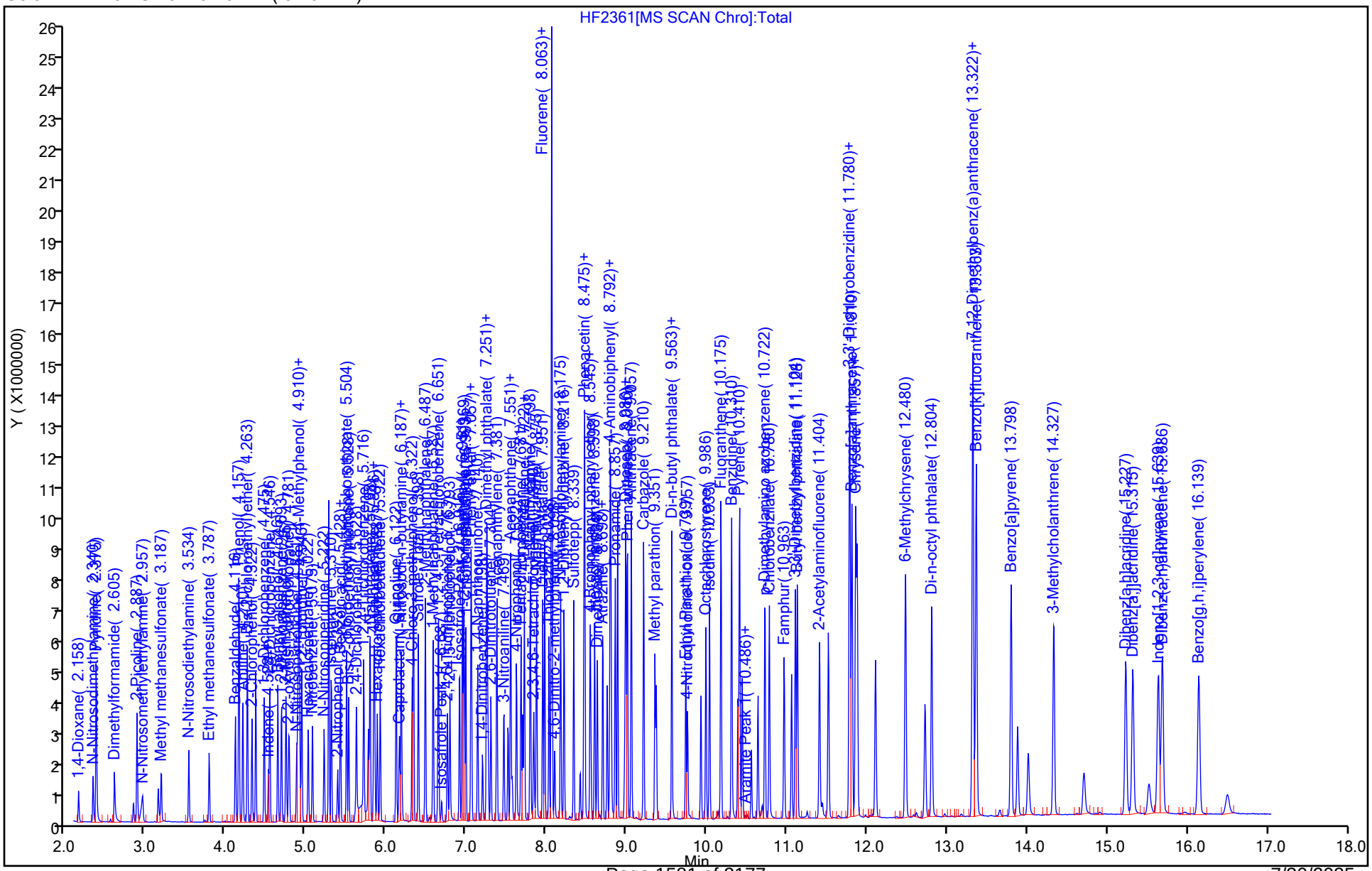
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 05/27/2025 21:33

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 05/27/2025 23:19

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Famphur	Ave	0.3356	0.0003			12.5	-99.9*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

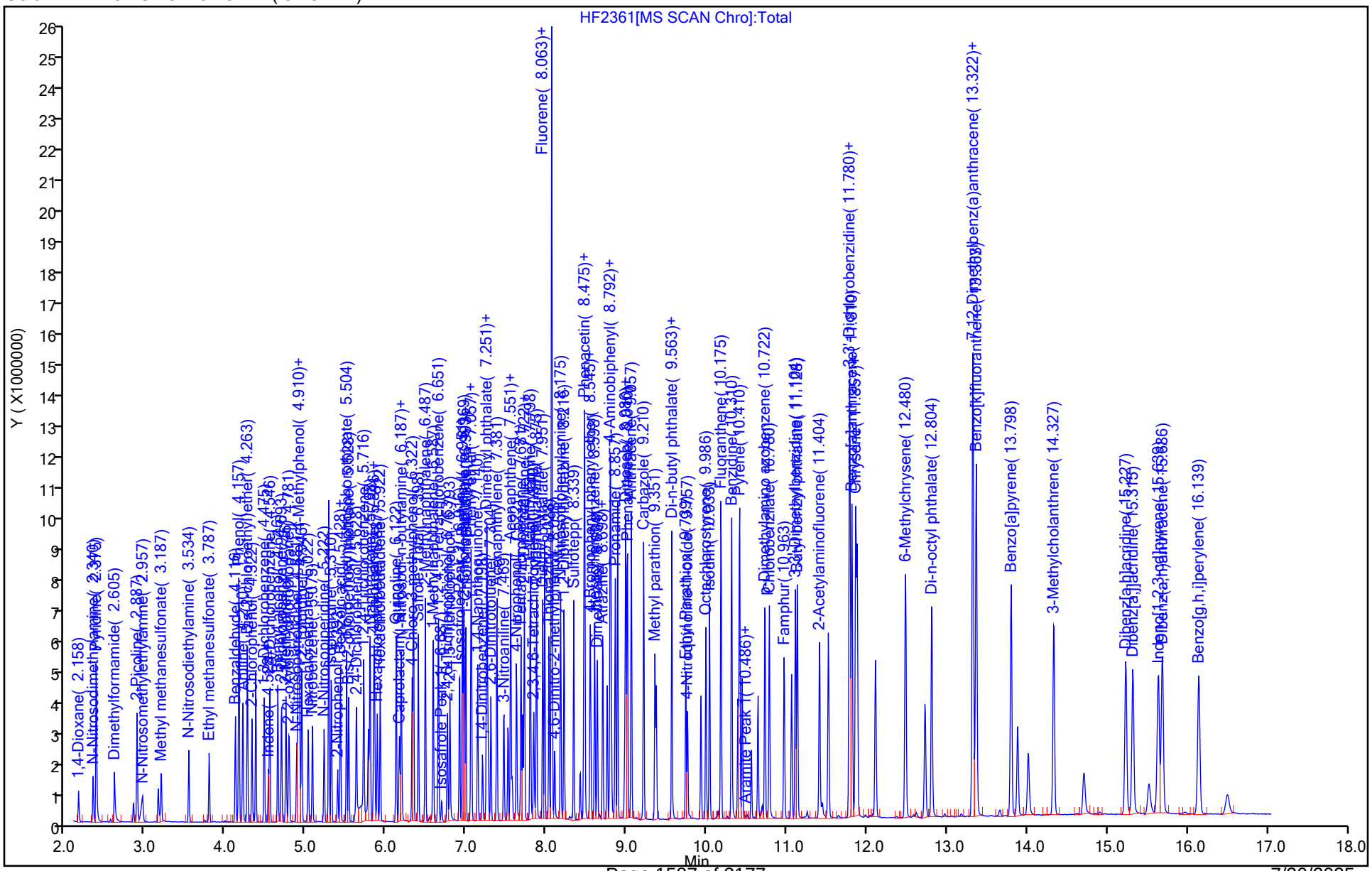
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 05/28/2025 22:54

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 05/28/2025 22:54

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Aramite Peak 1	Ave	0.0399	0.0188			1.25	-52.9*	30.0
Aramite Peak 2	Ave	0.0352	0.0188			1.25	-46.5*	30.0
Aramite Peak 3	Ave	0.1020	0.0047			5.00	-95.4*	30.0
Aramite Peak 4	Ave	0.1267	0.0047			5.00	-96.3*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

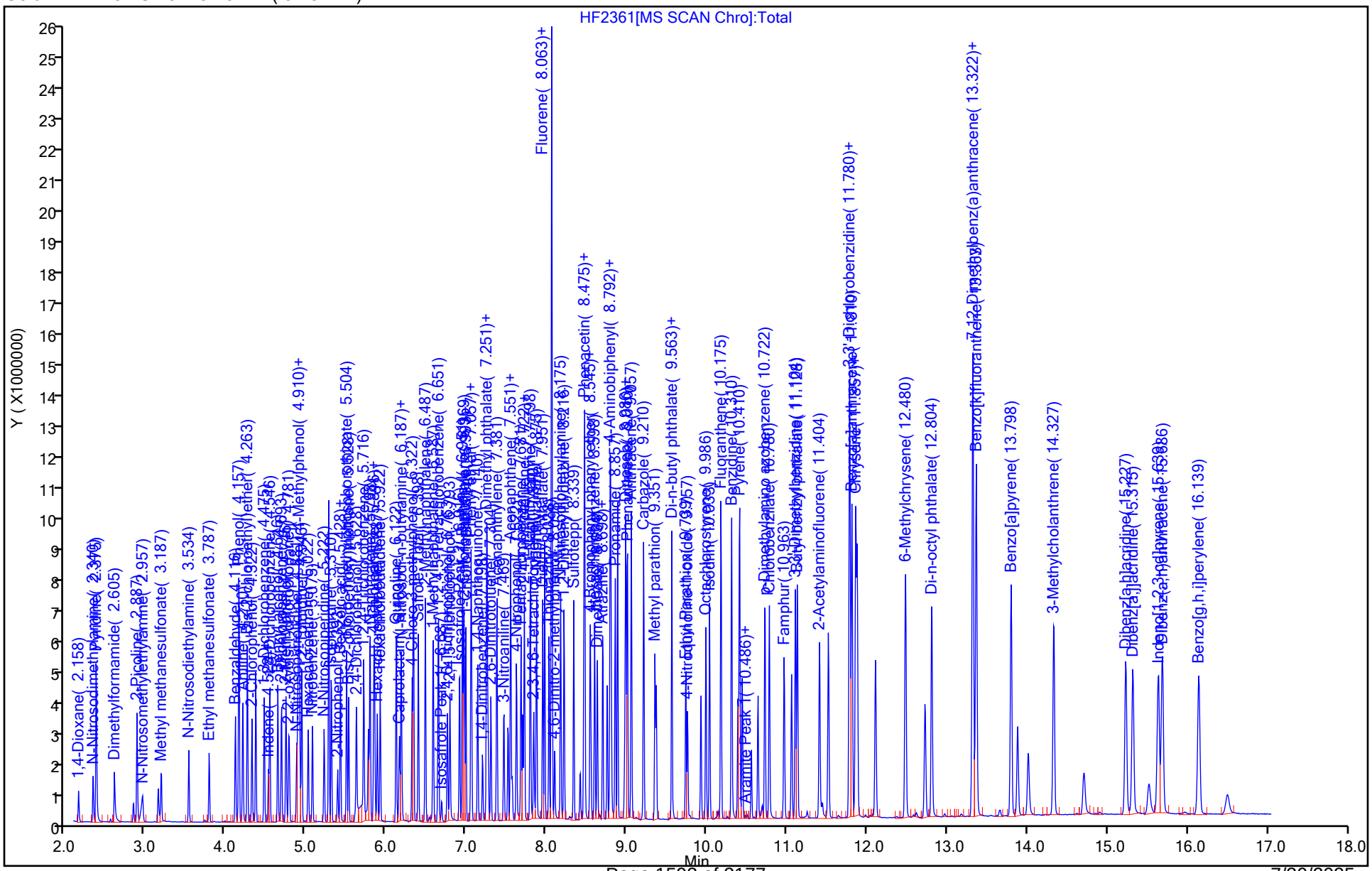
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.4641		11.1	12.5	-11.4	30.0
N-Nitrosodimethylamine	Ave	0.9111	0.8429		11.6	12.5	-7.5	30.0
Pyridine	Ave	1.449	1.332		23.0	25.0	-8.0	30.0
N,N-dimethylformamide	Ave	0.9936	0.9857			12.5	-0.8	30.0
2-Picoline	Ave	1.495	1.432		12.0	12.5	-4.2	30.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6187		11.4	12.5	-8.5	30.0
Methyl methanesulfonate	Ave	0.8412	0.8145		12.1	12.5	-3.2	30.0
N-Nitrosodiethylamine	Ave	0.6682	0.6476		12.1	12.5	-3.1	30.0
Ethyl methanesulfonate	Ave	0.7584	0.7039		11.6	12.5	-7.2	30.0
Benzaldehyde	Ave	1.272	1.024	0.0100	10.1	12.5	-19.5	30.0
Phenol	Ave	1.768	1.715	0.8000	12.1	12.5	-3.0	30.0
Aniline	Ave	2.205	2.144		12.2	12.5	-2.7	30.0
Bis(2-chloroethyl)ether	Ave	1.435	1.380	0.7000	12.0	12.5	-3.8	30.0
2-Chlorophenol	Ave	1.293	1.227	0.8000	11.9	12.5	-5.1	30.0
1,3-Dichlorobenzene	Ave	1.476	1.393		11.8	12.5	-5.6	30.0
1,4-Dichlorobenzene	Ave	1.533	1.423		11.6	12.5	-7.2	30.0
Benzyl alcohol	Ave	0.9501	0.9176		12.1	12.5	-3.4	30.0
1,2-Dichlorobenzene	Ave	1.451	1.379		11.9	12.5	-5.0	30.0
2-Methylphenol	Ave	1.284	1.248	0.7000	12.1	12.5	-2.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.186	0.0100	11.6	12.5	-7.6	30.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8121		12.6	12.5	0.9	30.0
3,4-Methylphenol	Ave	1.329	1.339	0.6000	12.6	12.5	0.7	30.0
Acetophenone	Ave	2.160	2.060	0.0100	11.9	12.5	-4.6	30.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.146	0.5000	11.7	12.5	-6.1	30.0
N-Nitrosomorpholine	Ave	1.146	1.066		11.6	12.5	-7.0	30.0
2-Toluidine	Ave	2.316	2.312		12.5	12.5	-0.2	30.0
Hexachloroethane	Ave	0.6187	0.5281	0.3000	10.7	12.5	-14.6	30.0
Nitrobenzene	Ave	0.3849	0.3408	0.2000	11.1	12.5	-11.5	30.0
N-Nitrosopiperidine	Ave	0.1890	0.1785		11.8	12.5	-5.5	30.0
Isophorone	Ave	0.7472	0.7044	0.4000	11.8	12.5	-5.7	30.0
2-Nitrophenol	Ave	0.1189	0.0996*	0.1000	10.5	12.5	-16.2	30.0
2,4-Dimethylphenol	Ave	0.3495	0.3400	0.2000	12.2	12.5	-2.7	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1910		12.1	12.5	-3.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4325	0.3000	11.7	12.5	-6.5	30.0
2,4-Dichlorophenol	Ave	0.2634	0.2686	0.2000	12.7	12.5	2.0	30.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3192		11.9	12.5	-5.2	30.0
Naphthalene	Ave	1.027	0.9761	0.7000	11.9	12.5	-4.9	30.0
4-Chloroaniline	Ave	0.4491	0.4549	0.0100	12.7	12.5	1.3	30.0
2,6-Dichlorophenol	Ave	0.2623	0.2690		12.8	12.5	2.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.2086	0.1939		11.6	12.5	-7.0	30.0
Hexachlorobutadiene	Ave	0.1985	0.1846	0.0100	11.6	12.5	-7.0	30.0
Quinoline	Ave	0.7634	0.7204		11.8	12.5	-5.6	30.0
Caprolactam	Ave	0.1121	0.1143	0.0100	12.7	12.5	1.9	30.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.2851		11.5	12.5	-7.7	30.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3041	0.2000	12.4	12.5	-0.8	30.0
Safrole, Total	Ave	0.2945	0.2855		12.1	12.5	-3.0	30.0
2-Methylnaphthalene	Ave	0.6681	0.6876	0.4000	12.9	12.5	2.9	30.0
1-Methylnaphthalene	Ave	0.6939	0.6440		11.6	12.5	-7.2	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5703	0.0100	12.0	12.5	-4.1	30.0
Isosafrole Peak 1	Ave	0.5631	0.5248		1.40	1.50	-6.8	30.0
2,4,6-Trichlorophenol	Ave	0.2995	0.2886	0.2000	12.0	12.5	-3.7	30.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4154	0.2000	13.3	12.5	6.8	30.0
Isosafrole Peak 2	Ave	0.5697	0.5702		11.0	11.0	0.0	30.0
1,1'-Biphenyl	Ave	1.473	1.452	0.0100	12.3	12.5	-1.4	30.0
2-Chloronaphthalene	Ave	1.212	1.187	0.8000	12.2	12.5	-2.1	30.0
1-Chloronaphthalene	Ave	1.070	1.076		12.6	12.5	0.6	30.0
Diphenyl ether	Ave	0.8444	0.7911		11.7	12.5	-6.3	30.0
2-Nitroaniline	Ave	0.3247	0.3335	0.0100	12.8	12.5	2.7	30.0
1,4-Naphthoquinone	Ave	0.4673	0.5148			12.5	10.2	30.0
1,4-Dinitrobenzene	Ave	0.1362	0.1303		12.0	12.5	-4.4	30.0
Dimethyl phthalate	Ave	1.394	1.387	0.0100	12.4	12.5	-0.5	30.0
1,3-Dinitrobenzene	Ave	0.1757	0.1717		12.2	12.5	-2.3	30.0
2,6-Dinitrotoluene	Ave	0.2673	0.2769	0.2000	13.0	12.5	3.6	30.0
Acenaphthylene	Ave	1.837	1.921	0.9000	13.1	12.5	4.6	30.0
3-Nitroaniline	Ave	0.3037	0.3233	0.0100	13.3	12.5	6.5	30.0
Acenaphthene	Ave	1.243	1.191	0.9000	12.0	12.5	-4.2	30.0
2,4-Dinitrophenol	Ave	0.0610	0.0536	0.0100	22.0	25.0	-12.2	30.0
4-Nitrophenol	Ave	0.1653	0.1583	0.0100	23.9	25.0	-4.2	30.0
Pentachlorobenzene	Ave	0.5739	0.5518		12.0	12.5	-3.9	30.0
2,4-Dinitrotoluene	Ave	0.3532	0.3726	0.2000	13.2	12.5	5.5	30.0
Dibenzofuran	Ave	1.746	1.697	0.8000	12.2	12.5	-2.8	30.0
1-Naphthylamine	Ave	1.227	1.138		11.6	12.5	-7.3	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3152	0.0100	11.8	12.5	-5.3	30.0
2-Naphthylamine	Ave	1.337	1.390		13.0	12.5	3.9	30.0
Diethyl phthalate	Ave	1.402	1.402	0.0100	12.5	12.5	-0.0	30.0
Thionazin	Ave	0.2174	0.2278		13.1	12.5	4.8	30.0
4-Chlorophenyl phenyl ether	Ave	0.7087	0.6686	0.4000	11.8	12.5	-5.7	30.0
5-Nitro-o-toluidine	Ave	0.3560	0.3825		13.4	12.5	7.5	30.0
Fluorene	Ave	1.439	1.408	0.9000	12.2	12.5	-2.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.3391	0.3596	0.0100	13.3	12.5	6.1	30.0
4,6-Dinitro-2-methylphenol	Qua2		0.0414	0.0100	21.2	25.0	-15.2	30.0
N-Nitrosodiphenylamine	Ave	0.5943	0.5931	0.0100	10.6	10.6	-0.2	30.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7210		12.2	12.5	-2.4	30.0
Sulfotepp	Ave	0.1209	0.1153		11.9	12.5	-4.7	30.0
1,3,5-Trinitrobenzene	Qua2		0.0450			12.5	-7.4	30.0
cis-Diallate	Ave	0.2849	0.3124		10.3	9.38	9.6	30.0
Phenacetin	Ave	0.3359	0.3522		13.1	12.5	4.9	30.0
Phorate	Ave	0.4442	0.4382		12.3	12.5	-1.4	30.0
4-Bromophenyl phenyl ether	Ave	0.2218	0.2169	0.1000	12.2	12.5	-2.2	30.0
trans-Diallate	Ave	0.3197	0.3032		2.96	3.13	-5.1	30.0
Hexachlorobenzene	Ave	0.2657	0.2464	0.1000	11.6	12.5	-7.2	30.0
Dimethoate	Lin1		0.2749		12.2	12.5	-2.5	30.0
Atrazine	Ave	0.2108	0.2056	0.0100	12.2	12.5	-2.5	30.0
Pentachlorophenol	Lin1		0.1016	0.0500	20.7	25.0	-17.2	30.0
4-Aminobiphenyl	Ave	0.8505	0.8020		11.8	12.5	-5.7	30.0
Pentachloronitrobenzene	Ave	0.0920	0.0887		12.0	12.5	-3.7	30.0
Pronamide	Ave	0.3380	0.3395		12.6	12.5	0.4	30.0
Dinoseb	Ave	0.0748	0.0654		10.9	12.5	-12.7	30.0
Disulfoton	Lin2		0.4349			12.5	-2.3	30.0
Phenanthrene	Ave	1.114	1.051	0.7000	11.8	12.5	-5.7	30.0
Anthracene	Ave	1.093	1.100	0.7000	12.6	12.5	0.6	30.0
Carbazole	Ave	1.023	1.029	0.0100	12.6	12.5	0.5	30.0
Methyl parathion	Ave	0.1925	0.2207		14.3	12.5	14.6	30.0
Di-n-butyl phthalate	Ave	1.096	1.217	0.0100	13.9	12.5	11.0	30.0
Parathion	Ave	0.1208	0.1309		13.5	12.5	8.3	30.0
4-Nitroquinoline-1-oxide	Qua2		0.0880			12.5	-2.0	30.0
Octachlorostyrene	Ave	0.1097	0.1087		12.4	12.5	-0.9	30.0
Isodrin	Ave	0.1396	0.1314		11.8	12.5	-5.9	30.0
Fluoranthene	Ave	1.244	1.294	0.6000	13.0	12.5	4.0	30.0
Benzidine	Ave	0.7336	1.006		17.1	12.5	37.2*	30.0
Pyrene	Ave	1.226	1.172	0.6000	12.0	12.5	-4.4	30.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2615		14.7	12.5	17.9	30.0
Chlorobenzilate	Ave	0.3103	0.3352		13.5	12.5	8.0	30.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.7464			12.5	1.3	30.0
Butyl benzyl phthalate	Ave	0.4497	0.4843	0.0100	13.5	12.5	7.7	30.0
2-Acetylaminofluorene	Ave	0.4183	0.4150		12.4	12.5	-0.8	30.0
3,3'-Dichlorobenzidine	Ave	0.4602	0.7039	0.0100	19.1	12.5	53.0*	30.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2634			12.5	11.1	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.193	1.244	0.8000	13.0	12.5	4.3	30.0
Chrysene	Ave	1.157	1.180	0.7000	12.7	12.5	2.0	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7063	0.0100	12.9	12.5	3.0	30.0
6-Methylchrysene	Ave	0.8284	0.8684		13.1	12.5	4.8	30.0
Di-n-octyl phthalate	Lin2		1.131	0.0100	12.5	12.5	0.3	30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5575		13.2	12.5	5.3	30.0
Benzo[b]fluoranthene	Ave	1.242	1.285	0.7000	12.9	12.5	3.5	30.0
Benzo[k]fluoranthene	Ave	1.234	1.204	0.7000	12.2	12.5	-2.4	30.0
Benzo[a]pyrene	Ave	1.103	1.134	0.7000	12.8	12.5	2.8	30.0
3-Methylcholanthrene	Ave	0.5600	0.5955		13.3	12.5	6.3	30.0
Dibenz[a,h]acridine	Ave	0.8479	0.9605		14.2	12.5	13.3	30.0
Dibenz[a,j]acridine	Ave	0.8670	0.9537		13.8	12.5	10.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.013	0.5000	12.5	12.5	0.3	30.0
Dibenz(a,h)anthracene	Ave	1.019	1.079	0.4000	13.2	12.5	5.9	30.0
Benzo[g,h,i]perylene	Ave	1.014	1.004	0.5000	12.4	12.5	-1.0	30.0
1,4-phenylenediamine	Ave	0.4225				12.5		
Hexachlorocyclopentadiene	Ave	0.3741				12.5		

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

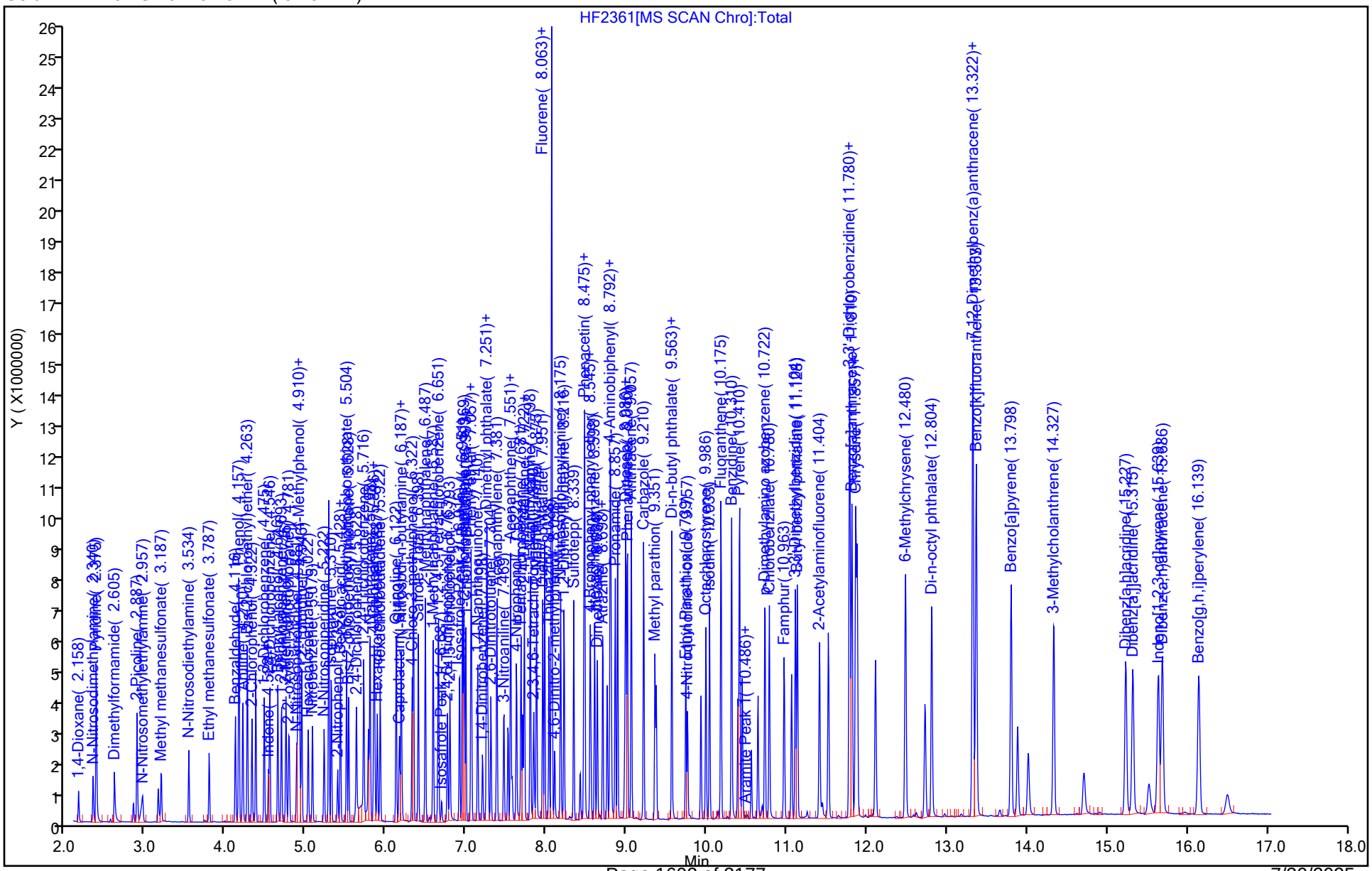
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)


HF2361[MS SCAN Chro]:Total
Y (X1000000)
Min
Fluorene(8.063)+
Benzo[b]fluoranthene(13.322)+
Benzo[k]fluoranthene(13.322)+
Benzo[a]pyrene(13.798)
Benzo[g,h,i]perylene(16.139)
3-Methylcholanthrene(14.327)
6-Methylchrysene(12.480)
Di-n-octyl phthalate(12.804)
2-Acetylaminofluorene(11.404)
Chrysene(11.106)
Benzo[a]anthracene(11.106)
3,3'-Dichlorobenzidine(11.780)+
Dibenz[a,h]acridine(15.227)
Dibenz[a,j]acridine(15.227)
Indeno[1,2,3-cd]pyrene(15.630)
Dibenz[a,h]anthracene(15.630)
Pyrene(10.470)
Fluoranthene(10.175)
Benzidine(10.722)
Famphur(10.963)
Aramite Peak 1(10.486)+
Carbazole(9.210)
Di-n-butyl phthalate(9.563)+
Methyl parathion(9.351)
Sulfotepp(8.339)
Phenacetin(8.475)+
4-Aminobiphenyl(8.792)+
Dimethoate(6.651)
Hexachlorophene(5.716)
Caprolactam(6.122)
Isosafrole Peak 1(6.793)
Isosafrole Peak 2(6.793)
Safrole(6.487)
Acenaphthene(7.551)+
1,4-Dinitrobenzene(7.251)+
3-Nitroaniline(7.469)
Dimethyl phthalate(7.381)
4-Nitroaniline(7.768)
2,3,4,6-Tetrachlorophenol(7.951)
4,6-Dinitro-2-methylphenol(7.951)
Diethyl phthalate(8.057)
Diphenylamine(8.218)
Azobenzene(8.218)
Diphenylamine(8.218)
Propanil(8.857)
Aniline(8.857)
Phenanthrene(8.969)
Anthracene(8.969)
Diallate(8.969)
Diallate(9.322)
Fluchloralin(9.322)
Hexachlorobenzene(6.322)
Hexachlorobenzene(6.322)
Hexachlorobenzene(6

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

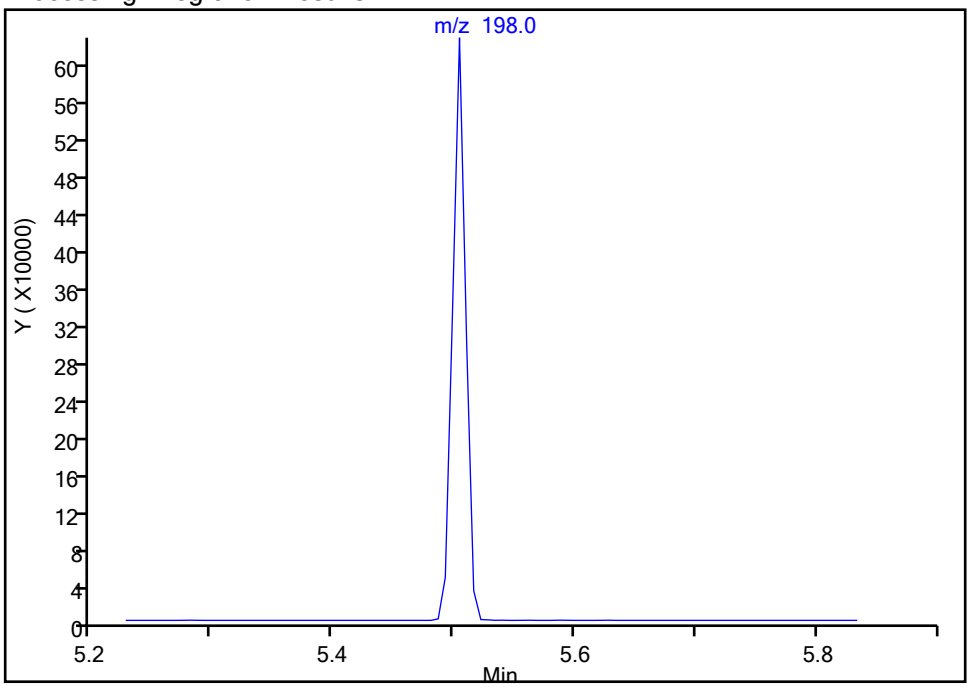
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

49 o,o',o''-Triethylphosphorothioat, CAS: 126-68-1

Signal: 1

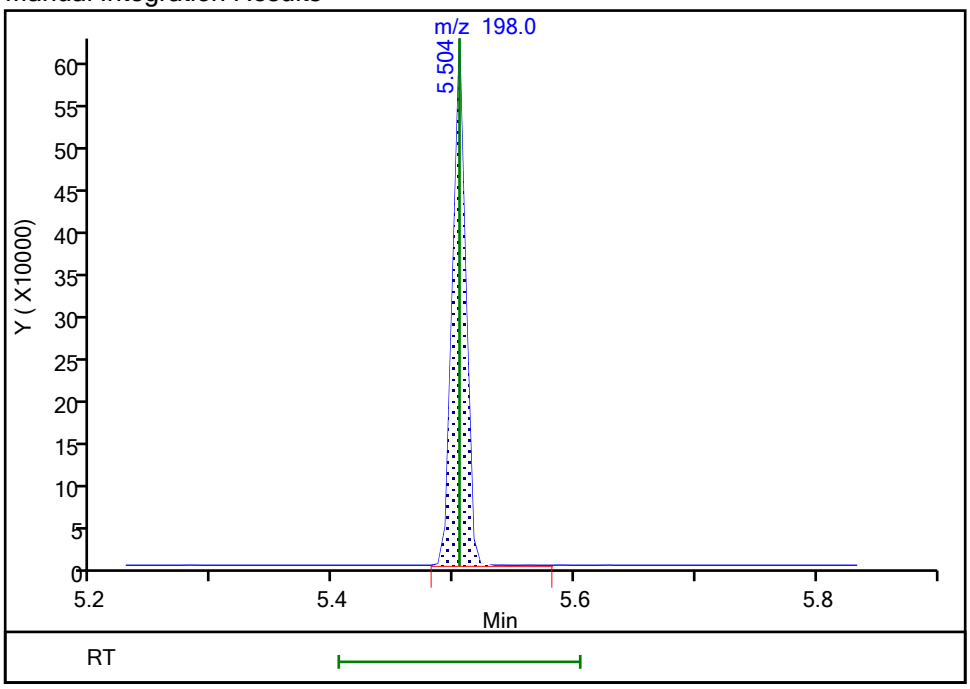
Not Detected
Expected RT: 5.50

Processing Integration Results



RT: 5.50
Area: 474141
Amount: 12.105236
Amount Units: ug/ml

Manual Integration Results



Reviewer: SJ89, 24-Jun-2025 09:37:43 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

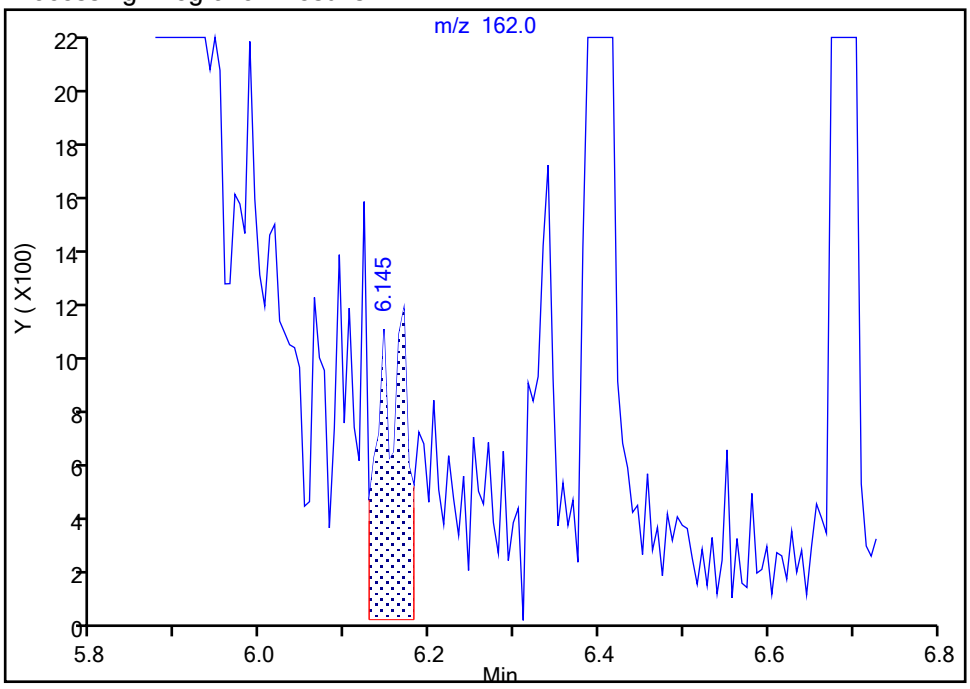
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

67 Safrole, Total, CAS: 94-59-7

Signal: 1

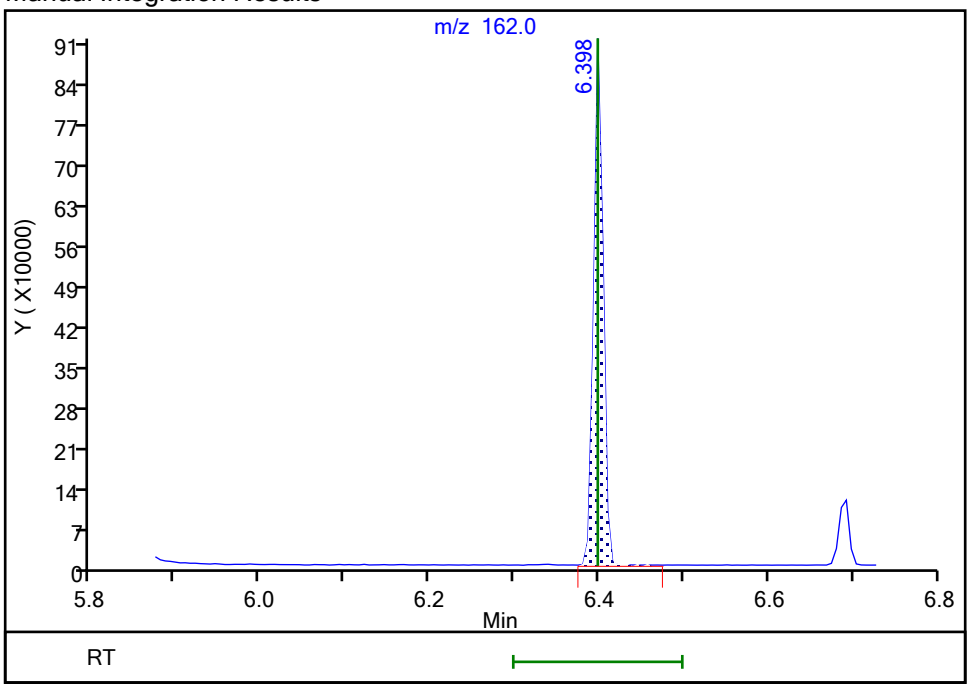
Processing Integration Results

RT: 6.15
Area: 2458
Amount: 0.042037
Amount Units: ug/ml



Manual Integration Results

RT: 6.40
Area: 708663
Amount: 12.119655
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:37:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

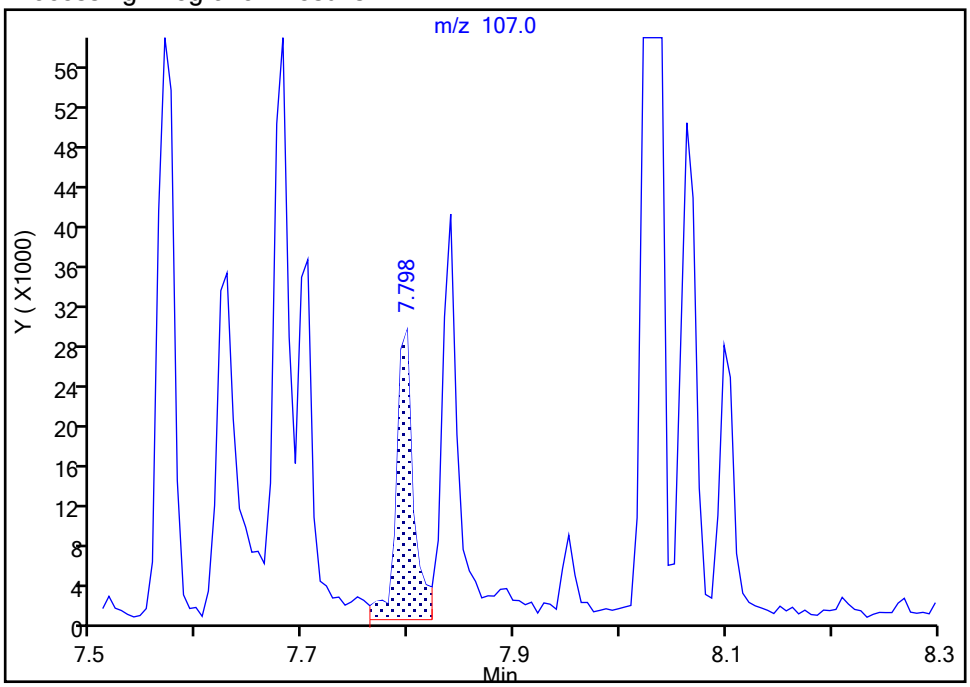
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

106 Thionazin, CAS: 297-97-2

Signal: 1

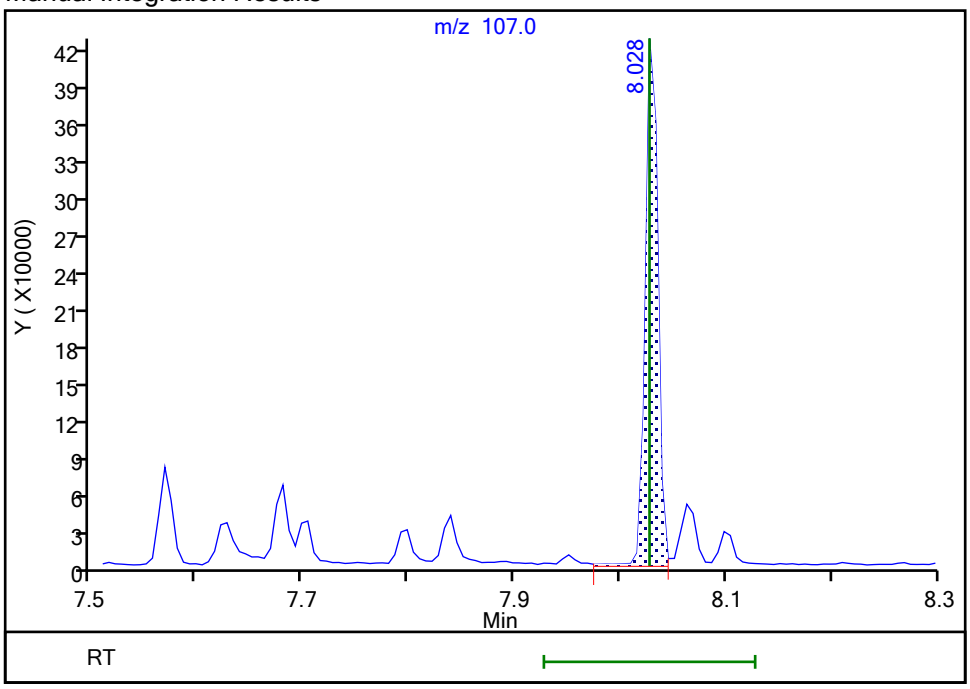
Processing Integration Results

RT: 7.80
Area: 32481
Amount: 1.206539
Amount Units: ug/ml



Manual Integration Results

RT: 8.03
Area: 352622
Amount: 13.098495
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:08 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

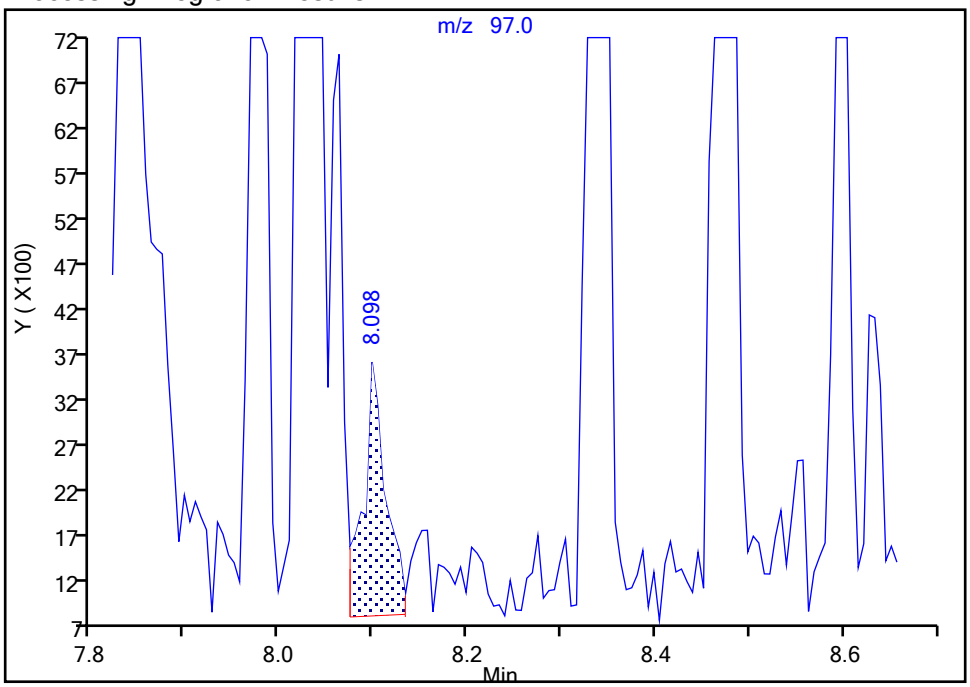
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

114 Sulfotepp, CAS: 3689-24-5

Signal: 1

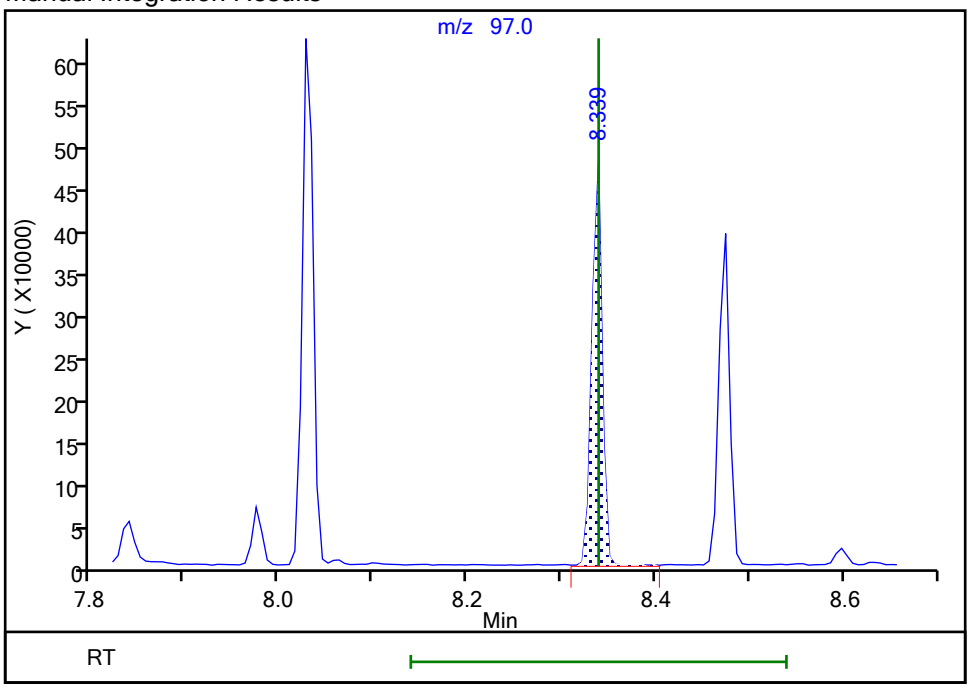
Processing Integration Results

RT: 8.10
Area: 4495
Amount: 0.146479
Amount Units: ug/ml



Manual Integration Results

RT: 8.34
Area: 365717
Amount: 11.917682
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:14 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

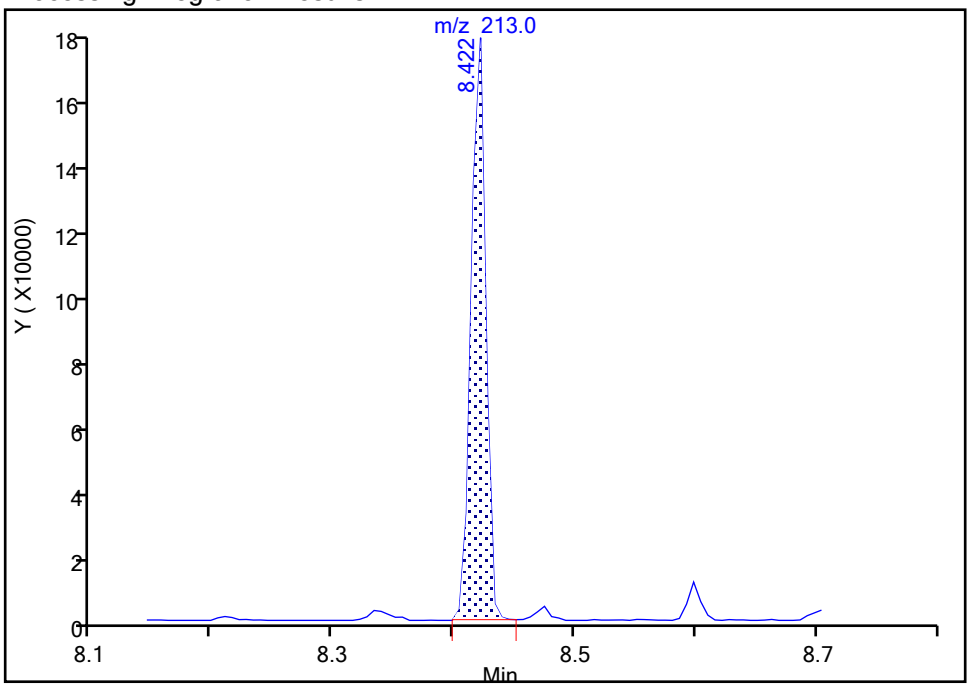
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

172 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

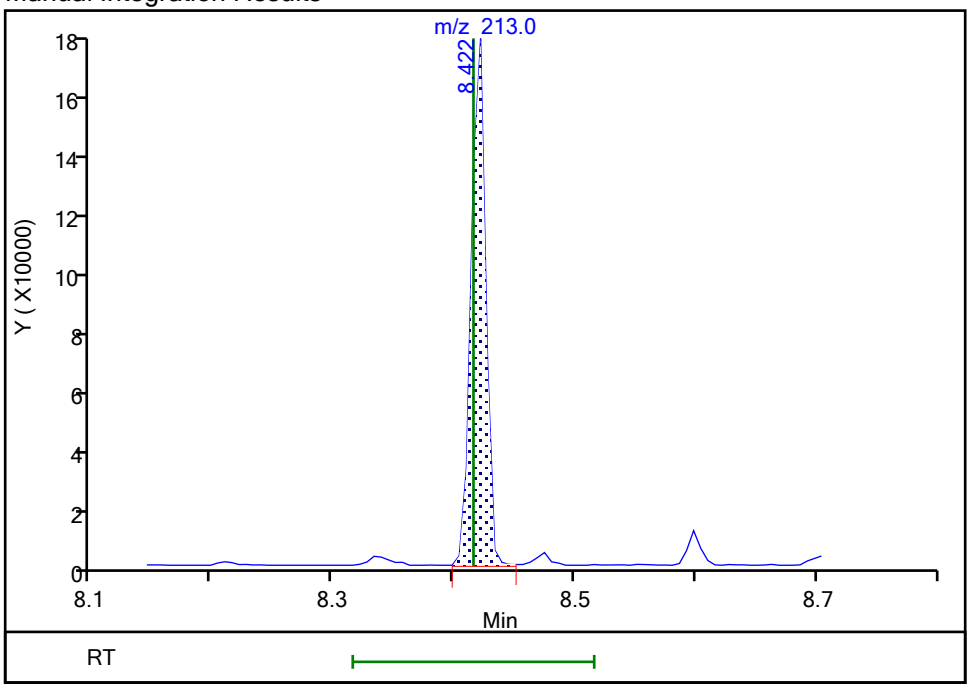
Processing Integration Results

RT: 8.42
Area: 142757
Amount: 11.573405
Amount Units: ug/ml



Manual Integration Results

RT: 8.42
Area: 142757
Amount: 11.573405
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:16 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

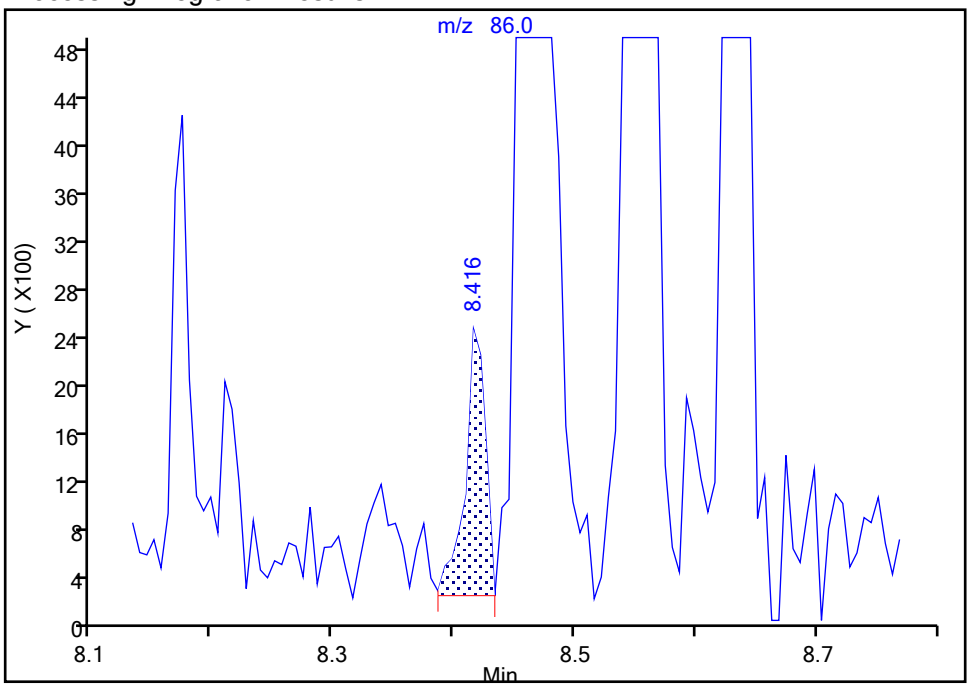
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

115 cis-Diallate, CAS: 17708-57-5

Signal: 1

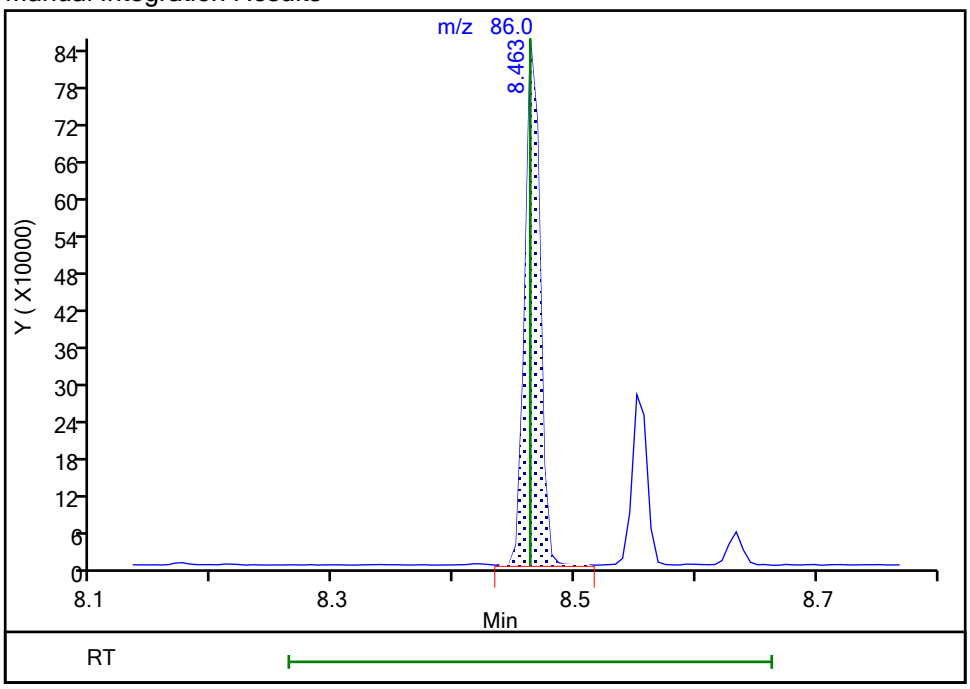
Processing Integration Results

RT: 8.42
Area: 2552
Amount: 0.035296
Amount Units: ug/ml



Manual Integration Results

RT: 8.46
Area: 743183
Amount: 10.278853
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

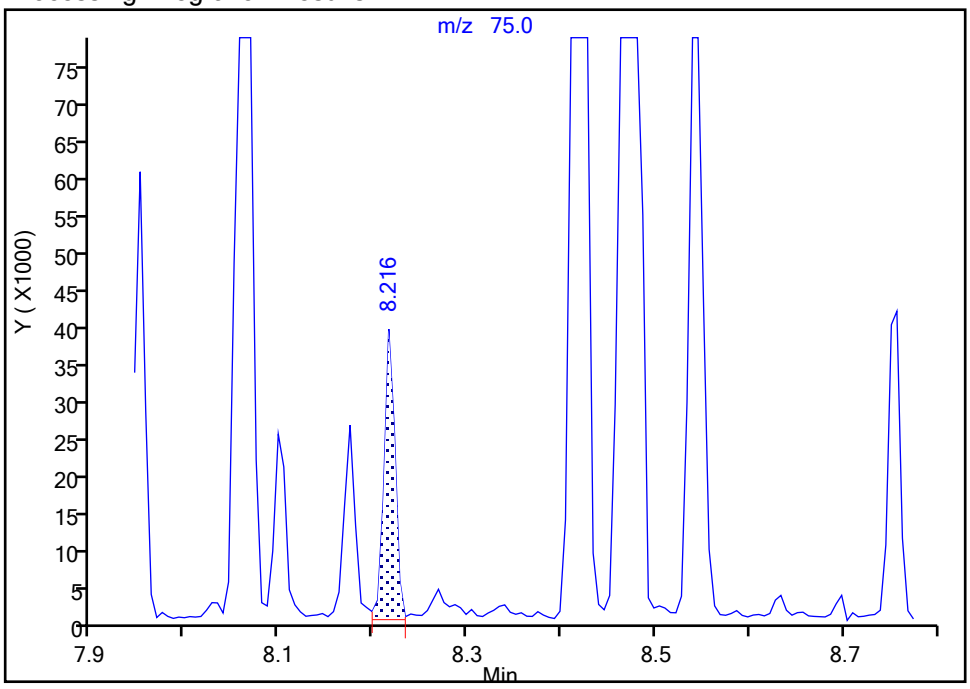
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

116 Phorate, CAS: 298-02-2

Signal: 1

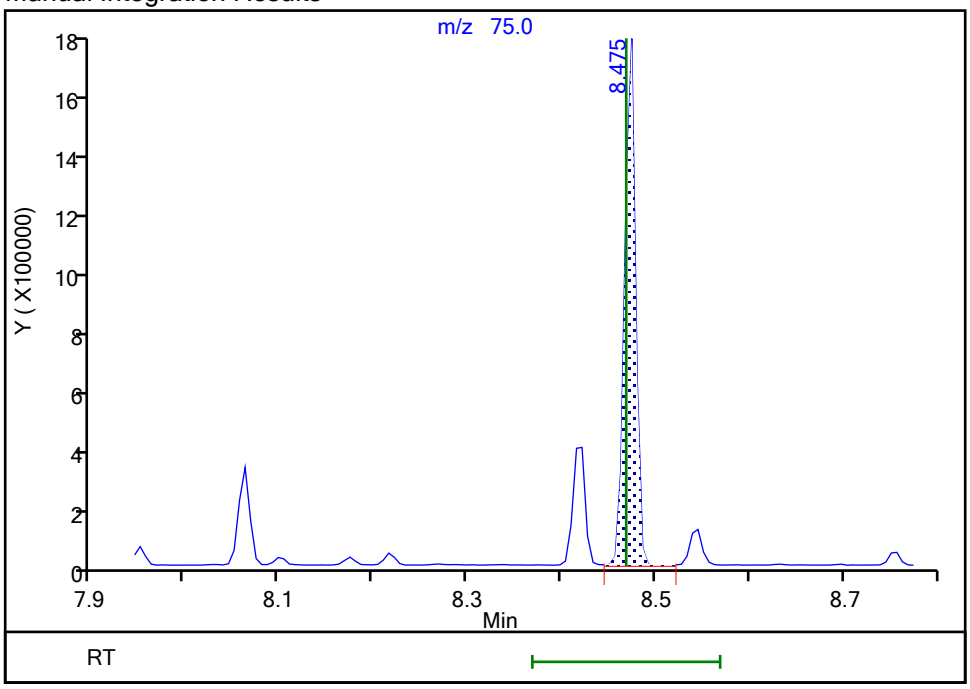
Processing Integration Results

RT: 8.22
Area: 31986
Amount: 0.283749
Amount Units: ug/ml



Manual Integration Results

RT: 8.47
Area: 1390013
Amount: 12.330846
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

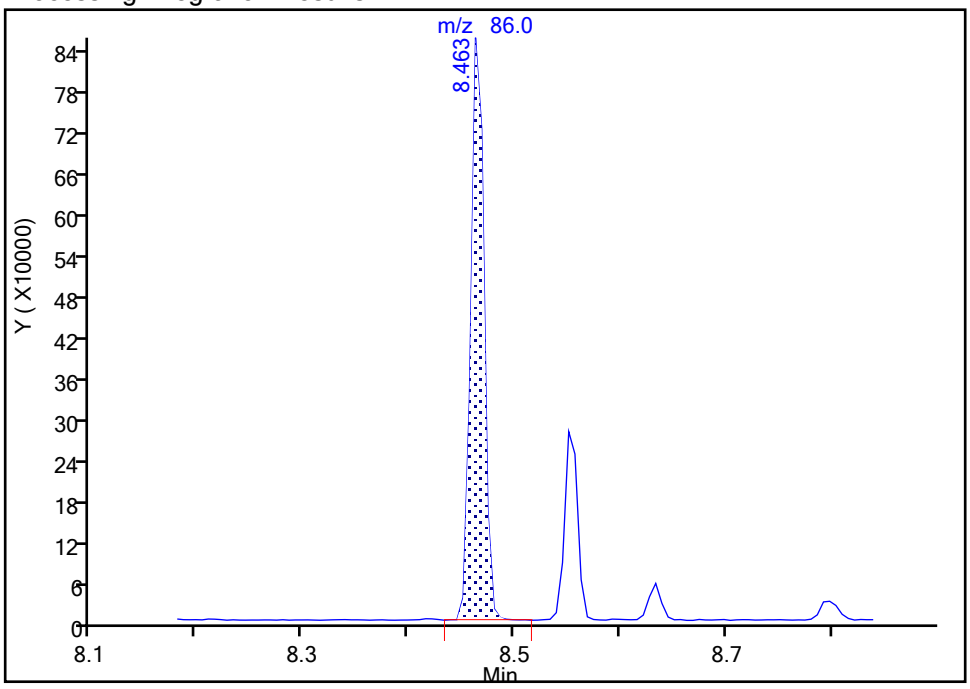
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

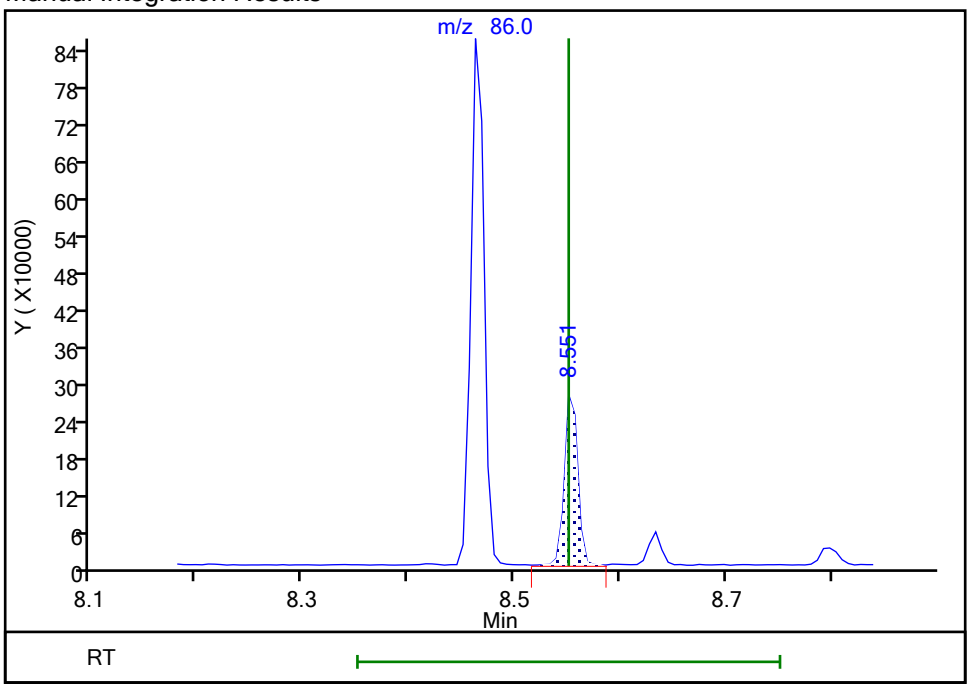
Processing Integration Results

RT: 8.46
Area: 743183
Amount: 9.162427
Amount Units: ug/ml



Manual Integration Results

RT: 8.55
Area: 240469
Amount: 2.964653
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

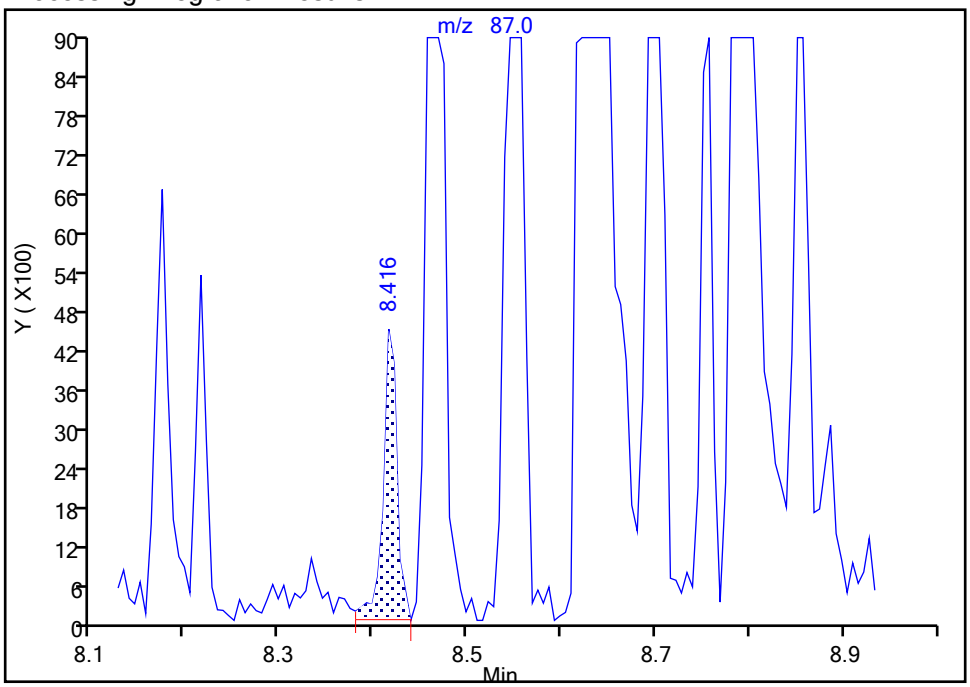
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

121 Dimethoate, CAS: 60-51-5

Signal: 1

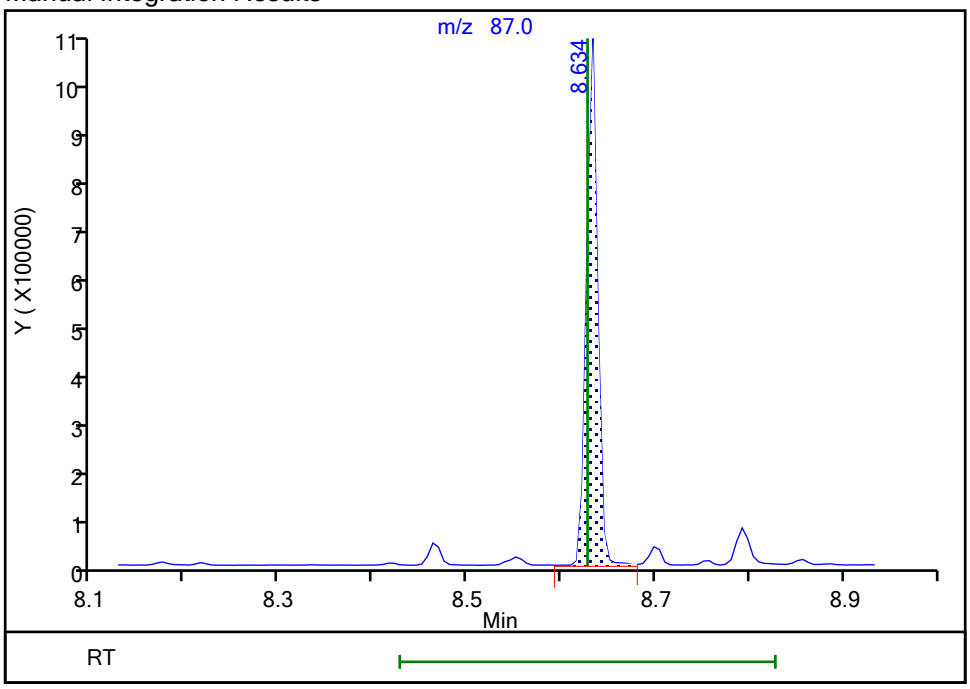
Processing Integration Results

RT: 8.42
Area: 4522
Amount: 0.154973
Amount Units: ug/ml



Manual Integration Results

RT: 8.63
Area: 871830
Amount: 12.192259
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:30 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

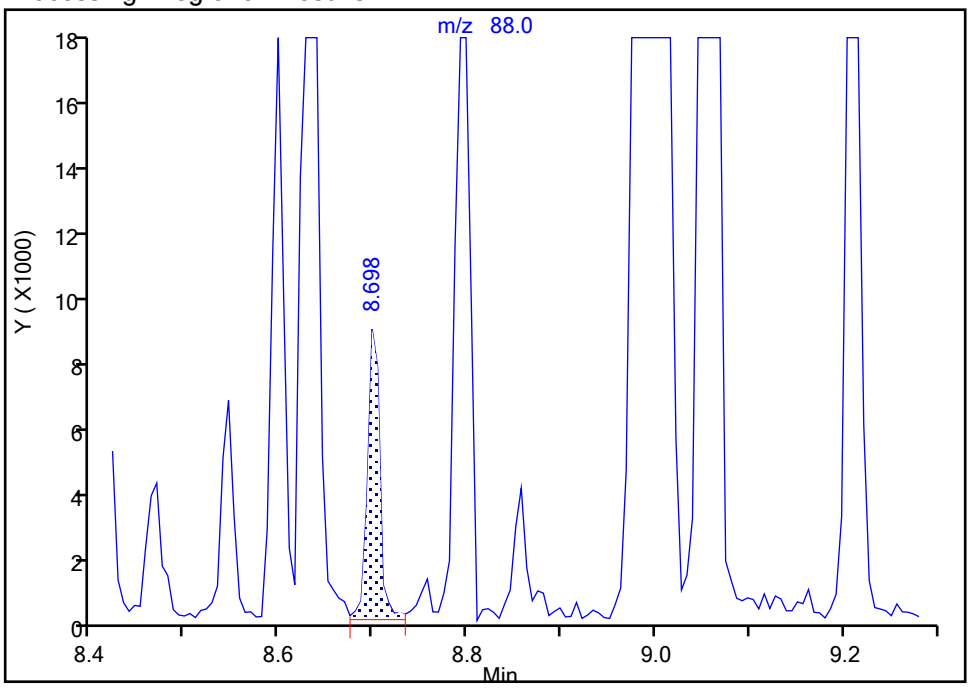
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

70 Disulfoton, CAS: 298-04-4

Signal: 1

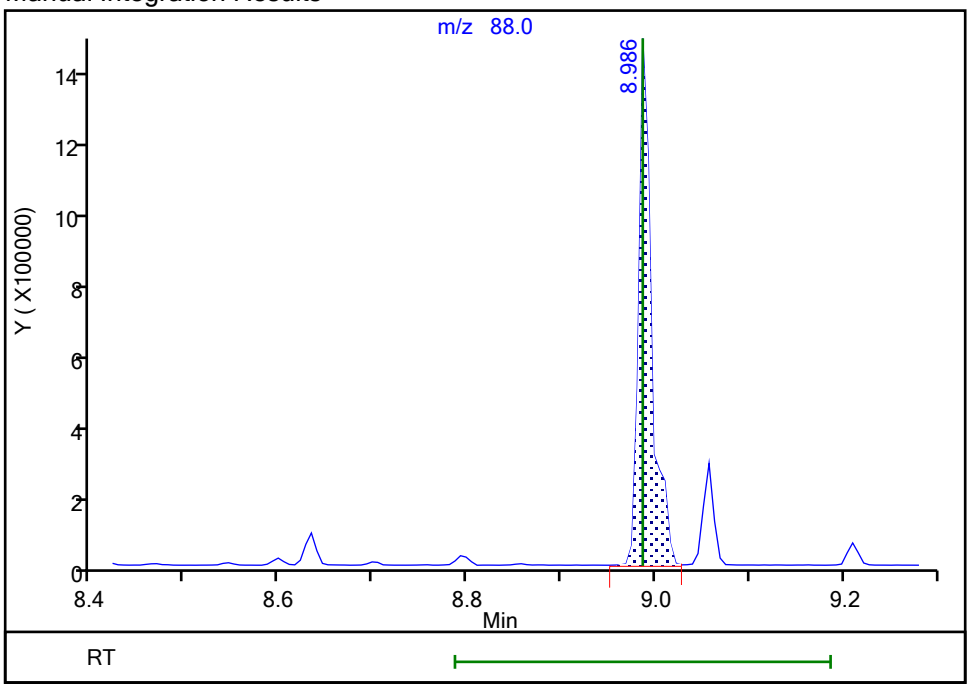
Processing Integration Results

RT: 8.70
Area: 8264
Amount: -0.027899
Amount Units: ug/ml



Manual Integration Results

RT: 8.99
Area: 1379568
Amount: 12.211939
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

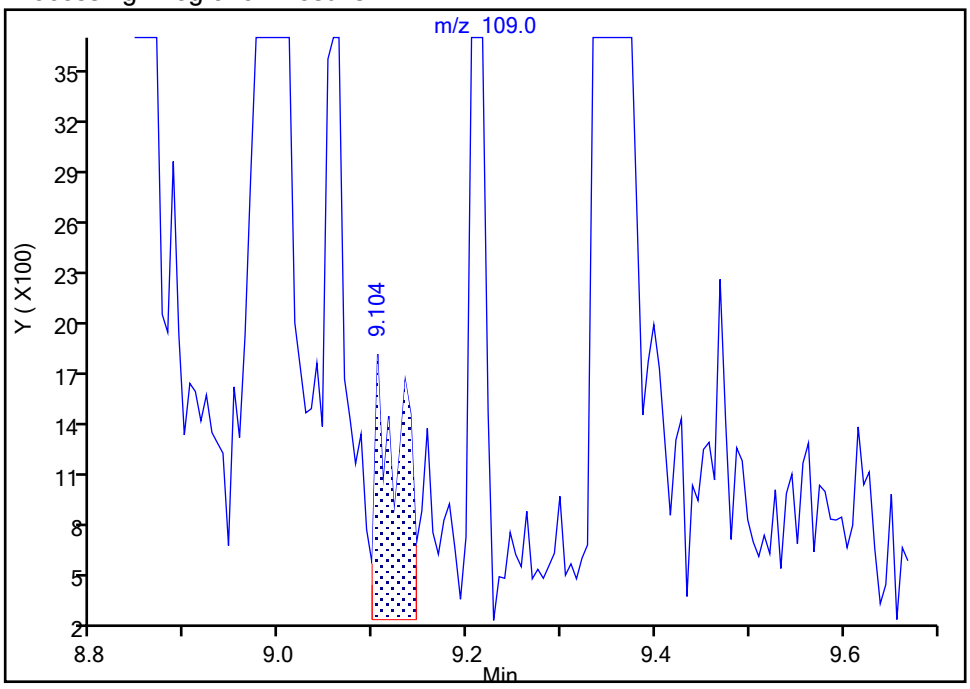
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

132 Methyl parathion, CAS: 298-00-0

Signal: 1

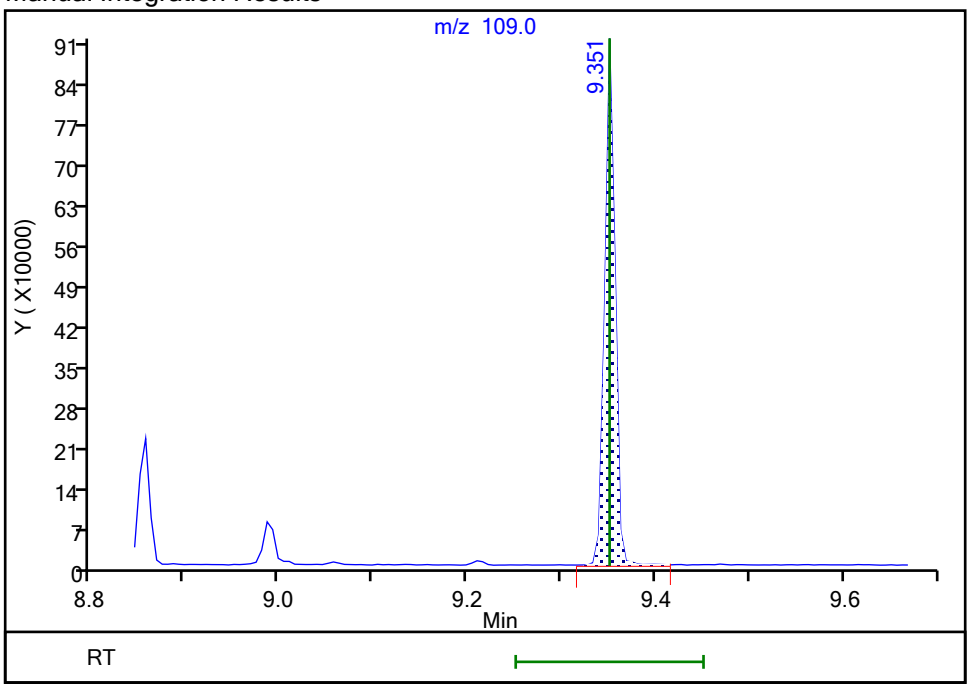
Processing Integration Results

RT: 9.10
Area: 2863
Amount: 0.058604
Amount Units: ug/ml



Manual Integration Results

RT: 9.35
Area: 699975
Amount: 14.328060
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

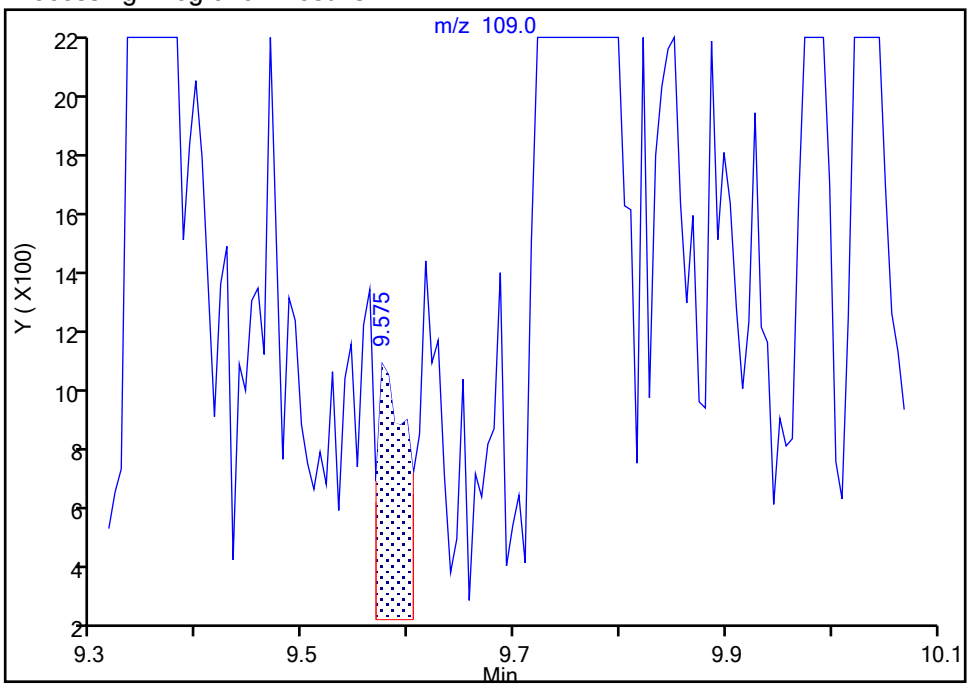
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

134 Ethyl Parathion, CAS: 56-38-2

Signal: 1

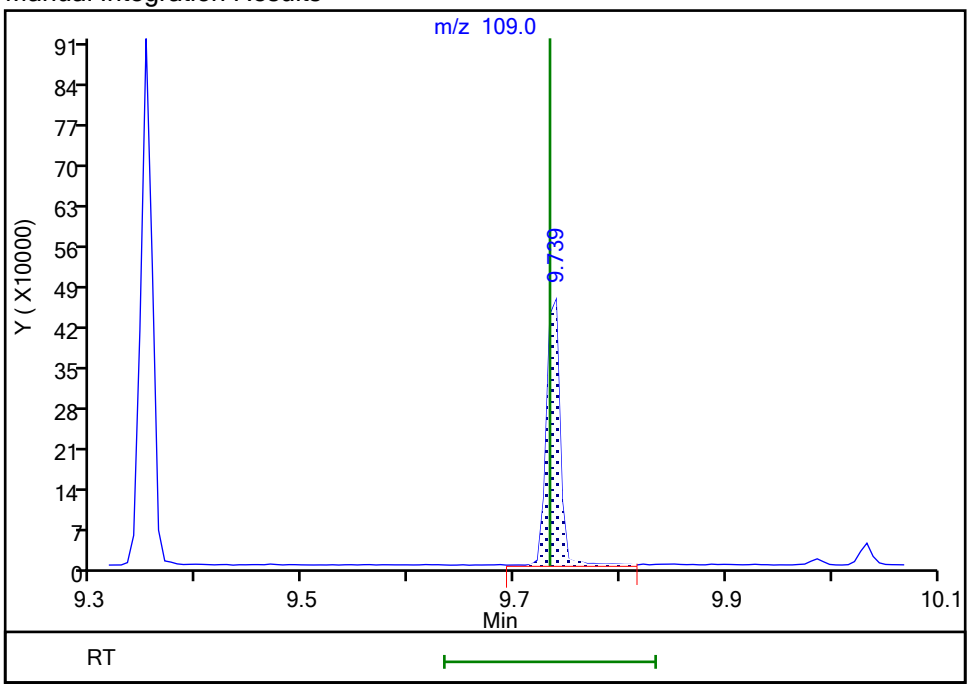
Processing Integration Results

RT: 9.57
Area: 1442
Amount: 0.047038
Amount Units: ug/ml



Manual Integration Results

RT: 9.74
Area: 415071
Amount: 13.539610
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:45 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

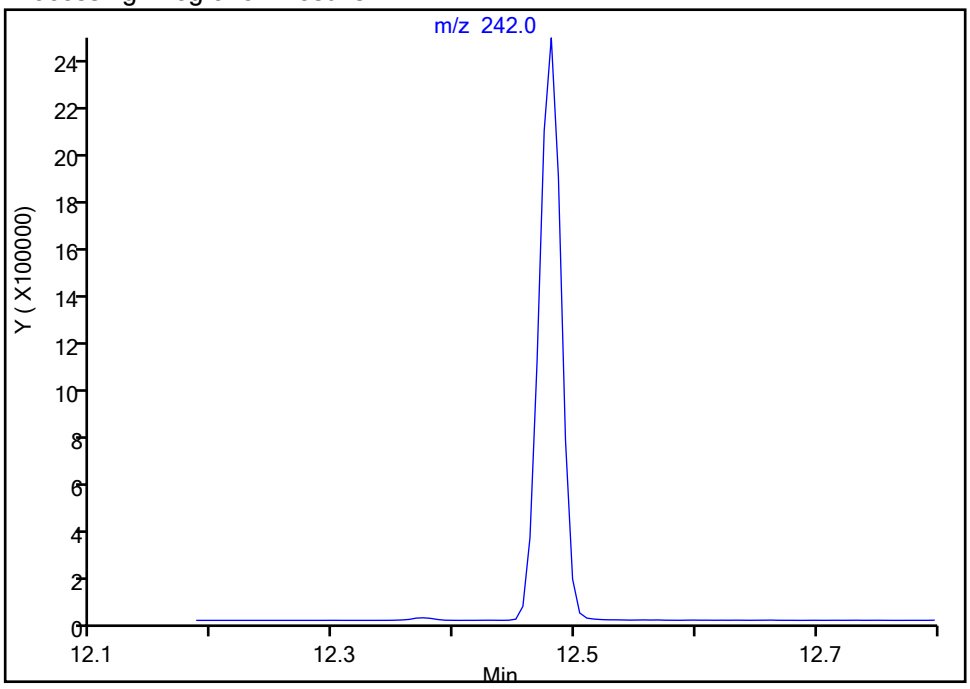
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

153 6-Methylchrysene, CAS: 1705-85-7

Signal: 1

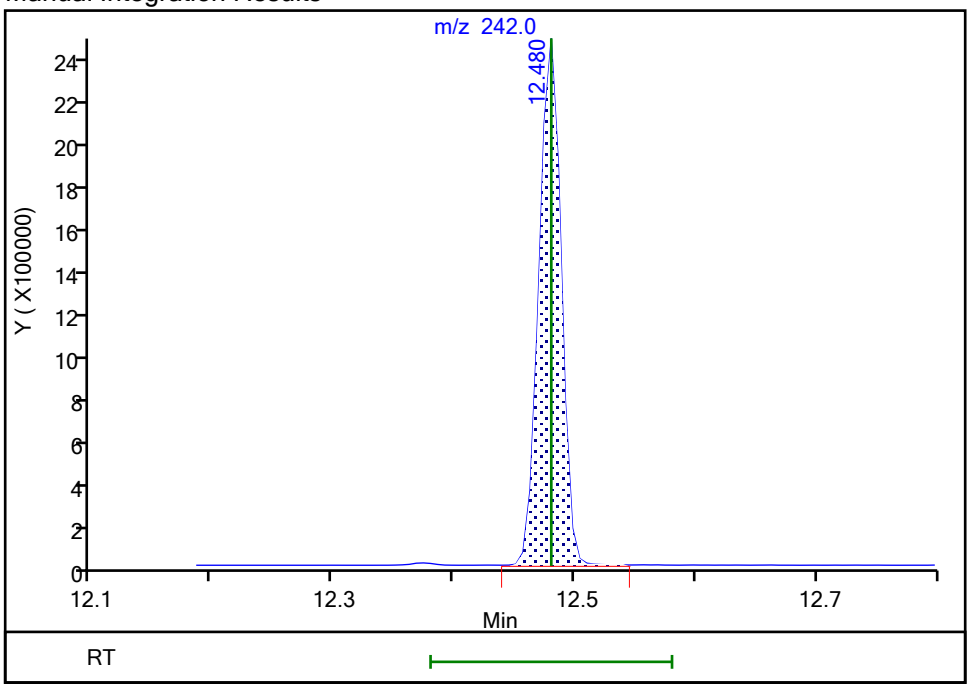
Not Detected
Expected RT: 12.48

Processing Integration Results



Manual Integration Results

RT: 12.48
Area: 3134354
Amount: 13.104405
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:39:00 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

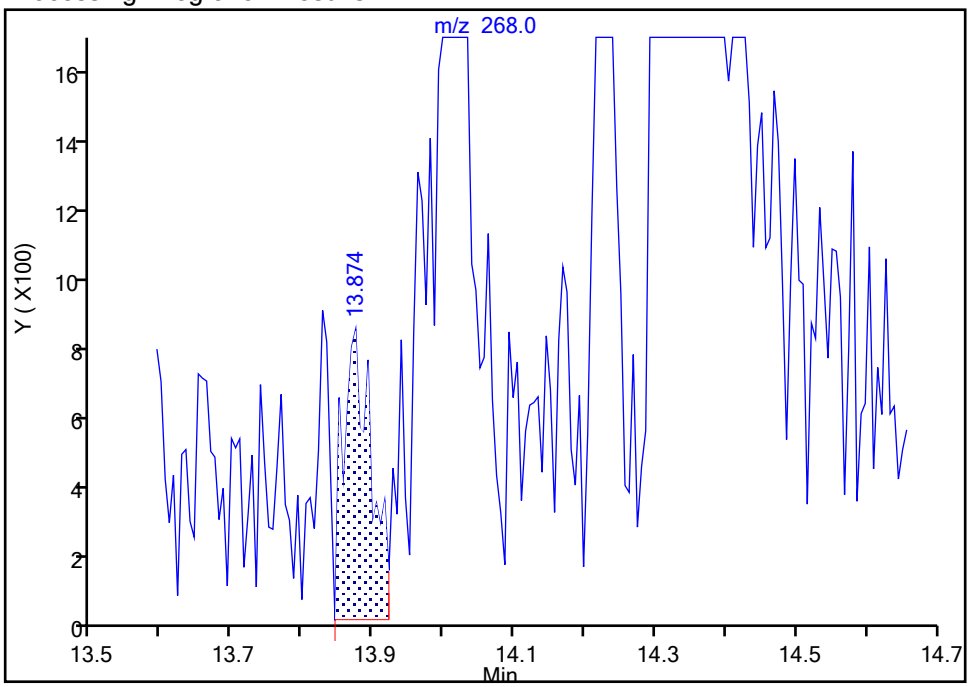
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

160 3-Methylcholanthrene, CAS: 56-49-5

Signal: 1

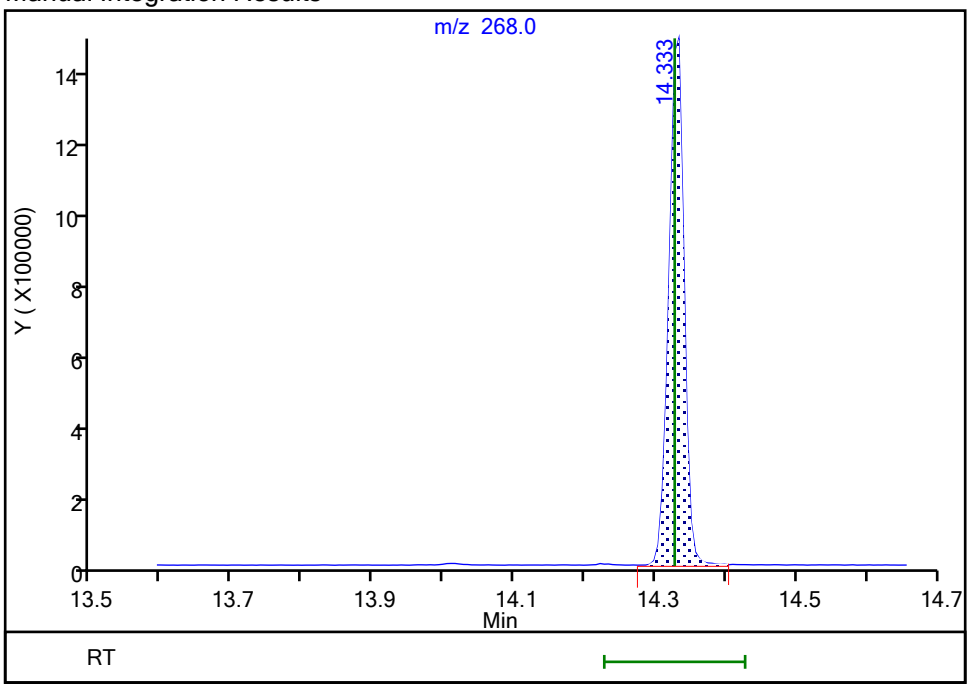
Processing Integration Results

RT: 13.87
Area: 2184
Amount: 0.013127
Amount Units: ug/ml



Manual Integration Results

RT: 14.33
Area: 2211742
Amount: 13.293286
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:39:04 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

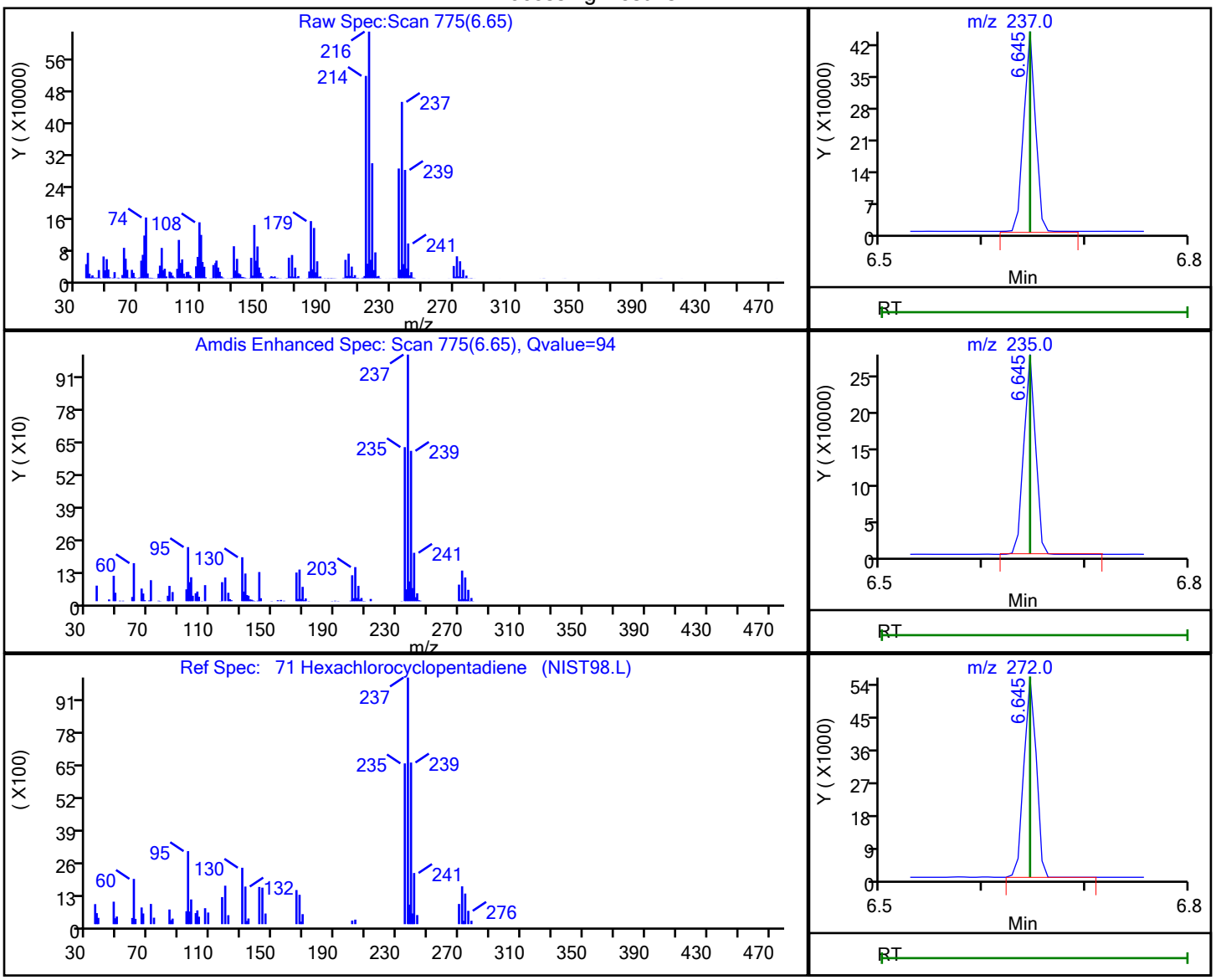
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

71 Hexachlorocyclopentadiene, CAS: 77-47-4

Processing Results



RT	Mass	Response	Amount
6.65	237.00	355865	7.683582
6.65	235.00	222276	
6.65	272.00	47047	

Reviewer: SJ89, 24-Jun-2025 09:46:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.4963		11.8	12.5	-5.3	20.0
N-Nitrosodimethylamine	Ave	0.9111	0.8685		11.9	12.5	-4.7	20.0
Pyridine	Ave	1.449	1.456		25.1	25.0	0.5	20.0
N,N-dimethylformamide	Ave	0.9936	1.116			12.5	12.3	20.0
2-Picoline	Ave	1.495	1.541		12.9	12.5	3.1	20.0
N-Nitrosomethylethylamine	Ave	0.6760	0.7294		13.5	12.5	7.9	20.0
Methyl methanesulfonate	Ave	0.8412	0.8920		13.3	12.5	6.0	20.0
N-Nitrosodiethylamine	Ave	0.6682	0.7033		13.2	12.5	5.3	20.0
Ethyl methanesulfonate	Ave	0.7584	0.8008		13.2	12.5	5.6	20.0
Benzaldehyde	Ave	1.272	1.144	0.0100	11.2	12.5	-10.0	20.0
Phenol	Ave	1.768	2.016	0.8000	14.3	12.5	14.0	20.0
Aniline	Ave	2.205	2.427		13.8	12.5	10.1	20.0
Bis(2-chloroethyl)ether	Ave	1.435	1.528	0.7000	13.3	12.5	6.5	20.0
2-Chlorophenol	Ave	1.293	1.393	0.8000	13.5	12.5	7.8	20.0
1,3-Dichlorobenzene	Ave	1.476	1.486		12.6	12.5	0.7	20.0
1,4-Dichlorobenzene	Ave	1.533	1.532		12.5	12.5	-0.0	20.0
Benzyl alcohol	Ave	0.9501	1.030		13.6	12.5	8.5	20.0
1,2-Dichlorobenzene	Ave	1.451	1.533		13.2	12.5	5.6	20.0
2-Methylphenol	Ave	1.284	1.402	0.7000	13.7	12.5	9.2	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.564	0.0100	13.6	12.5	8.4	20.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8964		13.9	12.5	11.4	20.0
3,4-Methylphenol	Ave	1.329	1.544	0.6000	14.5	12.5	16.1	20.0
Acetophenone	Ave	2.160	2.370	0.0100	13.7	12.5	9.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.363	0.5000	14.0	12.5	11.7	20.0
N-Nitrosomorpholine	Ave	1.146	1.247		13.6	12.5	8.8	20.0
2-Toluidine	Ave	2.316	2.481		13.4	12.5	7.1	20.0
Hexachloroethane	Ave	0.6187	0.6341	0.3000	12.8	12.5	2.5	20.0
Nitrobenzene	Ave	0.3849	0.3923	0.2000	12.7	12.5	1.9	20.0
N-Nitrosopiperidine	Ave	0.1890	0.1870		12.4	12.5	-1.1	20.0
Isophorone	Ave	0.7472	0.7808	0.4000	13.1	12.5	4.5	20.0
2-Nitrophenol	Ave	0.1189	0.1512	0.1000	15.9	12.5	27.1*	20.0
2,4-Dimethylphenol	Ave	0.3495	0.3739	0.2000	13.4	12.5	7.0	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1921		12.2	12.5	-2.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4830	0.3000	13.0	12.5	4.4	20.0
2,4-Dichlorophenol	Ave	0.2634	0.2822	0.2000	13.4	12.5	7.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3286		12.2	12.5	-2.4	20.0
Naphthalene	Ave	1.027	1.060	0.7000	12.9	12.5	3.2	20.0
a-Terpineol	Ave	0.3263	0.3571		13.7	12.5	9.4	20.0
4-Chloroaniline	Ave	0.4491	0.4789	0.0100	13.3	12.5	6.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2854		13.6	12.5	8.8	20.0
Hexachloropropene	Ave	0.2086	0.1909		11.4	12.5	-8.5	20.0
Hexachlorobutadiene	Ave	0.1985	0.1958	0.0100	12.3	12.5	-1.4	20.0
Quinoline	Ave	0.7634	0.7857		12.9	12.5	2.9	20.0
Caprolactam	Ave	0.1121	0.1197	0.0100	13.3	12.5	6.8	20.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.3114		12.6	12.5	0.8	20.0
1,4-phenylenediamine	Ave	0.4225	0.4384			12.5	3.8	20.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3458	0.2000	14.1	12.5	12.8	20.0
Safrole, Total	Ave	0.2945	0.2919		12.4	12.5	-0.9	20.0
2-Methylnaphthalene	Ave	0.6681	0.6977	0.4000	13.1	12.5	4.4	20.0
1-Methylnaphthalene	Ave	0.6939	0.7295		13.1	12.5	5.1	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3661	0.0500	12.2	12.5	-2.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5596	0.0100	11.8	12.5	-5.8	20.0
Isosafrole Peak 1	Ave	0.5631	0.4831		1.72	2.00	-14.2	20.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3344	0.2000	14.0	12.5	11.6	20.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4080	0.2000	13.1	12.5	4.9	20.0
Isosafrole Peak 2	Ave	0.5697	0.5420		9.99	10.5	-4.9	20.0
1,1'-Biphenyl	Ave	1.473	1.444	0.0100	12.3	12.5	-2.0	20.0
2-Chloronaphthalene	Ave	1.212	1.134	0.8000	11.7	12.5	-6.4	20.0
1-Chloronaphthalene	Ave	1.070	1.065		12.4	12.5	-0.5	20.0
Diphenyl ether	Ave	0.8444	0.8086		12.0	12.5	-4.2	20.0
2-Nitroaniline	Ave	0.3247	0.3615	0.0100	13.9	12.5	11.3	20.0
1,4-Naphthoquinone	Ave	0.4673	0.4685			12.5	0.3	20.0
1,4-Dinitrobenzene	Ave	0.1362	0.1819		16.7	12.5	33.6*	20.0
Dimethyl phthalate	Ave	1.394	1.469	0.0100	13.2	12.5	5.4	20.0
1,3-Dinitrobenzene	Ave	0.1757	0.2048		14.6	12.5	16.5	20.0
2,6-Dinitrotoluene	Ave	0.2673	0.2932	0.2000	13.7	12.5	9.7	20.0
Acenaphthylene	Ave	1.837	1.851	0.9000	12.6	12.5	0.7	20.0
3-Nitroaniline	Ave	0.3037	0.3453	0.0100	14.2	12.5	13.7	20.0
Acenaphthene	Ave	1.243	1.233	0.9000	12.4	12.5	-0.8	20.0
2,4-Dinitrophenol	Ave	0.0610	0.1376	0.0100	56.4	25.0	125.5*	20.0
4-Nitrophenol	Ave	0.1653	0.2110	0.0100	31.9	25.0	27.7*	20.0
Pentachlorobenzene	Ave	0.5739	0.5255		11.4	12.5	-8.4	20.0
2,4-Dinitrotoluene	Ave	0.3532	0.4171	0.2000	14.8	12.5	18.1	20.0
Dibenzofuran	Ave	1.746	1.766	0.8000	12.6	12.5	1.2	20.0
1-Naphthylamine	Ave	1.227	1.288		13.1	12.5	5.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3554	0.0100	13.3	12.5	6.7	20.0
2-Naphthylamine	Ave	1.337	1.334		12.5	12.5	-0.2	20.0
Diethyl phthalate	Ave	1.402	1.531	0.0100	13.7	12.5	9.2	20.0
Thionazin	Ave	0.2174	0.2267		13.0	12.5	4.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl phenyl ether	Ave	0.7087	0.7201	0.4000	12.7	12.5	1.6	20.0
Fluorene	Ave	1.439	1.474	0.9000	12.8	12.5	2.5	20.0
5-Nitro-o-toluidine	Ave	0.3560	0.3956		13.9	12.5	11.1	20.0
4-Nitroaniline	Ave	0.3391	0.4043	0.0100	14.9	12.5	19.2	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.1000	0.0100	43.7	25.0	74.6*	20.0
N-Nitrosodiphenylamine	Ave	0.5943	0.5869	0.0100	10.5	10.6	-1.2	20.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7511		12.7	12.5	1.7	20.0
Sulfotepp	Ave	0.1209	0.1176		12.2	12.5	-2.7	20.0
1,3,5-Trinitrobenzene	Qua2		0.0747			12.5	36.8*	20.0
cis-Diallate	Ave	0.2849	0.2847		9.24	9.25	-0.0	20.0
Phorate	Ave	0.4442	0.4614		13.0	12.5	3.9	20.0
Phenacetin	Ave	0.3359	0.3719		13.8	12.5	10.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2218	0.2090	0.1000	11.8	12.5	-5.7	20.0
trans-Diallate	Ave	0.3197	0.2883		2.93	3.25	-9.8	20.0
Hexachlorobenzene	Ave	0.2657	0.2499	0.1000	11.8	12.5	-5.9	20.0
Dimethoate	Lin1		0.2881		12.8	12.5	2.2	20.0
Atrazine	Ave	0.2108	0.2085	0.0100	12.4	12.5	-1.1	20.0
Pentachlorophenol	Lin1		0.1379	0.0500	27.8	25.0	11.1	20.0
4-Aminobiphenyl	Ave	0.8505	0.8384		12.3	12.5	-1.4	20.0
Pentachloronitrobenzene	Ave	0.0920	0.0934		12.7	12.5	1.5	20.0
Pronamide	Ave	0.3380	0.3330		12.3	12.5	-1.5	20.0
Dinoseb	Ave	0.0748	0.1351		22.6	12.5	80.5*	20.0
Disulfoton	Lin2		0.4459			12.5	0.2	20.0
Phenanthrene	Ave	1.114	1.085	0.7000	12.2	12.5	-2.7	20.0
Anthracene	Ave	1.093	1.106	0.7000	12.7	12.5	1.2	20.0
Carbazole	Ave	1.023	1.082	0.0100	13.2	12.5	5.7	20.0
Methyl parathion	Ave	0.1925	0.2275		14.8	12.5	18.1	20.0
Di-n-butyl phthalate	Ave	1.096	1.225	0.0100	14.0	12.5	11.8	20.0
Parathion	Ave	0.1208	0.1361		14.1	12.5	12.6	20.0
4-Nitroquinoline-1-oxide	Qua2		0.1074			12.5	15.0	20.0
Octachlorostyrene	Ave	0.1097	0.1046		11.9	12.5	-4.7	20.0
Isodrin	Ave	0.1396	0.1284		11.5	12.5	-8.0	20.0
Fluoranthene	Ave	1.244	1.302	0.6000	13.1	12.5	4.6	20.0
Benzidine	Ave	0.7336	0.9124		46.6	37.5	24.4*	20.0
Pyrene	Ave	1.226	1.211	0.6000	12.4	12.5	-1.2	20.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2311		13.0	12.5	4.2	20.0
Chlorobenzilate	Ave	0.3103	0.3196		12.9	12.5	3.0	20.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.7604			12.5	3.2	20.0
Butyl benzyl phthalate	Ave	0.4497	0.5275	0.0100	14.7	12.5	17.3	20.0
2-Acetylaminofluorene	Ave	0.4183	0.4469		13.4	12.5	6.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5635	0.0100	15.3	12.5	22.5*	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2669			12.5	12.5	20.0
Benzo[a]anthracene	Ave	1.193	1.311	0.8000	13.7	12.5	9.9	20.0
Chrysene	Ave	1.157	1.272	0.7000	13.7	12.5	10.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.8027	0.0100	14.6	12.5	17.0	20.0
6-Methylchrysene	Ave	0.8284	0.9080		13.7	12.5	9.6	20.0
Di-n-octyl phthalate	Lin2		1.095	0.0100	12.2	12.5	-2.8	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5133		12.1	12.5	-3.0	20.0
Benzo[b]fluoranthene	Ave	1.242	1.253	0.7000	12.6	12.5	0.9	20.0
Benzo[k]fluoranthene	Ave	1.234	1.303	0.7000	13.2	12.5	5.6	20.0
Benzo[a]pyrene	Ave	1.103	1.169	0.7000	13.2	12.5	6.0	20.0
3-Methylcholanthrene	Ave	0.5600	0.5968		13.3	12.5	6.6	20.0
Dibenz[a,h]acridine	Ave	0.8479	0.9379		13.8	12.5	10.6	20.0
Dibenz[a,j]acridine	Ave	0.8670	1.086		15.7	12.5	25.3*	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.190	0.5000	14.7	12.5	17.7	20.0
Dibenz(a,h)anthracene	Ave	1.019	1.218	0.4000	14.9	12.5	19.5	20.0
Benzo[g,h,i]perylene	Ave	1.014	1.219	0.5000	15.0	12.5	20.2*	20.0
2-Fluorophenol (Surr)	Ave	1.193	1.295		27.1	25.0	8.6	20.0
Phenol-d5 (Surr)	Ave	1.660	1.944		29.3	25.0	17.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.4013		28.1	25.0	12.5	20.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.394		25.8	25.0	3.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2433		29.0	25.0	16.1	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.8962		27.6	25.0	10.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Jul-2025 12:04:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 10:10:58 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1707

First Level Reviewer: RN6U Date: 03-Jul-2025 15:00:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.087	2.087	0.000	96	175474	12.5	11.8	
2 N-Nitrosodimethylamine	74	2.269	2.269	0.000	90	307034	12.5	11.9	M
3 Pyridine	79	2.310	2.310	0.000	88	1029415	25.0	25.1	
4 Dimethylformamide	73	2.540	2.540	0.000	93	394659	12.5	14.0	
5 2-Picoline	93	2.816	2.816	0.000	96	544863	12.5	12.9	
6 N-Nitrosomethylethylamine	88	2.881	2.881	0.000	94	257861	12.5	13.5	
9 Methyl methanesulfonate	80	3.116	3.116	0.000	86	315362	12.5	13.3	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	915938	25.0	27.1	
11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	248649	12.5	13.2	
13 Ethyl methanesulfonate	109	3.710	3.710	0.000	99	283115	12.5	13.2	
15 Benzaldehyde	77	4.034	4.034	0.000	94	404516	12.5	11.2	
$ 16 Phenol-d5	99	4.069	4.069	0.000	96	1374590	25.0	29.3	
17 Phenol	94	4.087	4.087	0.000	99	712846	12.5	14.3	
18 Aniline	93	4.128	4.128	0.000	96	857908	12.5	13.8	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	93	540294	12.5	13.3	
20 2-Chlorophenol	128	4.246	4.246	0.000	98	492647	12.5	13.5	
22 1,3-Dichlorobenzene	146	4.393	4.393	0.000	96	525204	12.5	12.6	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	141415	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	91	541677	12.5	12.5	
26 Benzyl alcohol	108	4.569	4.569	0.000	90	364320	12.5	13.6	
27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	96	541964	12.5	13.2	
30 2-Methylphenol	108	4.669	4.669	0.000	99	495656	12.5	13.7	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	906531	12.5	13.6	
33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	82	316927	12.5	13.9	
36 4-Methylphenol	108	4.822	4.822	0.000	95	545738	12.5	14.5	
34 Acetophenone	105	4.828	4.828	0.000	87	838000	12.5	13.7	
35 N-Nitrosodi-n-propylamine	70	4.828	4.828	0.000	82	481831	12.5	14.0	
37 N-Nitrosomorpholine	56	4.846	4.846	0.000	92	440876	12.5	13.6	
38 2-Toluidine	106	4.863	4.863	0.000	96	877084	12.5	13.4	
40 Hexachloroethane	117	4.940	4.940	0.000	94	224176	12.5	12.8	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1296034	25.0	28.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	42 Nitrobenzene	77	4.999	4.999	0.000	90	633385	12.5	12.7	
	43 N-Nitrosopiperidine	114	5.146	5.146	0.000	81	301877	12.5	12.4	
	45 Isophorone	82	5.234	5.234	0.000	99	1260765	12.5	13.1	
	46 2-Nitrophenol	139	5.310	5.310	0.000	96	244123	12.5	15.9	
	48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	603766	12.5	13.4	
	49 o,o',o''-Triethylphosphorothioat	198	5.428	5.428	0.000	85	310162	12.5	12.2	
	51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	779978	12.5	13.0	
	52 2,4-Dichlorophenol	162	5.551	5.551	0.000	95	455749	12.5	13.4	
	53 1,2,4-Trichlorobenzene	180	5.640	5.640	0.000	94	530587	12.5	12.2	
*	54 Naphthalene-d8	136	5.693	5.693	0.000	99	645881	5.00	5.00	
	55 Naphthalene	128	5.716	5.716	0.000	98	1711140	12.5	12.9	
	29 Alpha-Terpineol	59	5.728	5.728	0.000	93	576597	12.5	13.7	
	57 4-Chloroaniline	127	5.763	5.763	0.000	95	773232	12.5	13.3	
	58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	460806	12.5	13.6	
	59 Hexachloropropene	213	5.804	5.804	0.000	90	308318	12.5	11.4	
	60 Hexachlorobutadiene	225	5.846	5.846	0.000	95	316189	12.5	12.3	
	62 Quinoline	129	6.046	6.046	0.000	96	1268628	12.5	12.9	
	63 Caprolactam	113	6.087	6.087	0.000	74	193311	12.5	13.3	
	64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	502763	12.5	12.6	
	39 p-Phenylene diamine	108	6.116	6.116	0.000	95	707893	12.5	13.0	
	66 4-Chloro-3-methylphenol	107	6.246	6.246	0.000	97	558341	12.5	14.1	
	67 Safrole, Total	162	6.322	6.322	0.000	89	471257	12.5	12.4	
	68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	1126563	12.5	13.1	
	69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	1177943	12.5	13.1	
	71 Hexachlorocyclopentadiene	237	6.563	6.563	0.000	94	401337	12.5	12.2	
	72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	97	613468	12.5	11.8	
	73 Isosafrole Peak 1	162	6.610	6.610	0.000	88	84738	2.00	1.72	
	74 2,4,6-Trichlorophenol	196	6.681	6.681	0.000	78	366529	12.5	14.0	
	75 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	95	447208	12.5	13.1	
$	76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	3056140	25.0	25.8	
	77 Isosafrole Peak 2	162	6.834	6.834	0.000	91	499027	10.5	9.99	
	78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	1582584	12.5	12.3	
	79 2-Chloronaphthalene	162	6.887	6.887	0.000	97	1243277	12.5	11.7	
	80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	1167916	12.5	12.4	
	81 Phenyl ether	170	6.975	6.975	0.000	90	886389	12.5	12.0	
	82 2-Nitroaniline	138	6.987	6.987	0.000	86	396281	12.5	13.9	
	84 1,4-Naphthoquinone	158	7.063	7.063	0.000	89	513588	12.5	12.5	
	85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	199440	12.5	16.7	
	86 Dimethyl phthalate	163	7.175	7.175	0.000	99	1610752	12.5	13.2	
	87 1,3-Dinitrobenzene	168	7.193	7.193	0.000	83	224470	12.5	14.6	
	88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	321420	12.5	13.7	
	89 Acenaphthylene	152	7.298	7.298	0.000	98	2028501	12.5	12.6	
	90 3-Nitroaniline	138	7.387	7.387	0.000	93	378516	12.5	14.2	
*	91 Acenaphthene-d10	164	7.440	7.440	0.000	94	438474	5.00	5.00	
	93 Acenaphthene	153	7.469	7.469	0.000	96	1351395	12.5	12.4	
	94 2,4-Dinitrophenol	184	7.492	7.492	0.000	81	301704	25.0	56.4	
	95 4-Nitrophenol	109	7.551	7.551	0.000	97	462681	25.0	31.9	
	96 Pentachlorobenzene	250	7.598	7.598	0.000	98	576013	12.5	11.4	
	98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	92	457273	12.5	14.8	
	97 Dibenzofuran	168	7.640	7.640	0.000	96	1936386	12.5	12.6	
	99 1-Naphthylamine	143	7.716	7.716	0.000	99	1412066	12.5	13.1	
	101 2,3,4,6-Tetrachlorophenol	232	7.763	7.763	0.000	73	389565	12.5	13.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.792	7.792	0.000	96	1462812	12.5	12.5	
104 Diethyl phthalate	149	7.875	7.875	0.000	98	1678187	12.5	13.7	
106 Thionazin	107	7.951	7.951	0.000	80	248531	12.5	13.0	
105 Fluorene	166	7.981	7.981	0.000	93	1615830	12.5	12.8	
108 4-Chlorophenyl phenyl ether	204	7.981	7.981	0.000	89	789398	12.5	12.7	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	81	433656	12.5	13.9	
109 4-Nitroaniline	138	7.992	7.992	0.000	85	443218	12.5	14.9	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	0.000	82	466194	25.0	43.7	
111 N-Nitrosodiphenylamine	169	8.098	8.098	0.000	70	1163204	10.6	10.5	
112 1,2-Diphenylhydrazine	77	8.140	8.140	0.000	99	1751390	12.5	12.7	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	533305	25.0	29.0	
114 Sulfotepp	97	8.257	8.257	0.000	79	274247	12.5	12.2	
172 1,3,5-Trinitrobenzene	213	8.345	8.345	0.000	84	174098	12.5	17.1	
115 cis-Diallate	86	8.387	8.387	0.000	90	491198	9.25	9.24	
116 Phorate	75	8.392	8.392	0.000	95	1075912	12.5	13.0	
117 Phenacetin	108	8.398	8.398	0.000	94	867118	12.5	13.8	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	68	487439	12.5	11.8	
119 trans-Diallate	86	8.475	8.475	0.000	86	174805	3.25	2.93	
120 Hexachlorobenzene	284	8.522	8.522	0.000	96	582701	12.5	11.8	
121 Dimethoate	87	8.551	8.551	0.000	94	671839	12.5	12.8	
122 Atrazine	200	8.622	8.622	0.000	92	486090	12.5	12.4	
123 Pentachlorophenol	266	8.710	8.710	0.000	93	643227	25.0	27.8	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	1955027	12.5	12.3	
124 Pentachloronitrobenzene	237	8.728	8.728	0.000	85	217831	12.5	12.7	
126 Pronamide	173	8.781	8.781	0.000	91	776496	12.5	12.3	
128 Dinoseb	211	8.898	8.898	0.000	95	314944	12.5	22.6	
* 127 Phenanthrene-d10	188	8.904	8.904	0.000	98	932709	5.00	5.00	
70 Disulfoton	88	8.910	8.910	0.000	97	1039689	12.5	12.5	
129 Phenanthrene	178	8.922	8.922	0.000	97	2529104	12.5	12.2	
130 Anthracene	178	8.975	8.975	0.000	97	2579715	12.5	12.7	
S 56 Dinitrotoluene	165				0		25.0	28.5	
131 Carbazole	167	9.134	9.134	0.000	96	2522225	12.5	13.2	
132 Methyl parathion	109	9.275	9.275	0.000	96	530366	12.5	14.8	
133 Di-n-butyl phthalate	149	9.486	9.486	0.000	100	2856855	12.5	14.0	
S 65 Diallate	86				0		12.5	12.2	
134 Ethyl Parathion	109	9.657	9.657	0.000	85	317312	12.5	14.1	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	92	250318	12.5	14.4	
136 Octachlorostyrene	308	9.904	9.904	0.000	93	243824	12.5	11.9	
137 Isodrin	193	9.951	9.951	0.000	94	299473	12.5	11.5	
138 Fluoranthene	202	10.092	10.092	0.000	97	3035046	12.5	13.1	
139 Benzidine	184	10.228	10.228	0.000	99	7339016	37.5	46.6	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1072474	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	3247062	12.5	12.4	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	4805990	25.0	27.6	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	95	619751	12.5	13.0	
144 Chlorobenzilate	139	10.686	10.686	0.000	90	856814	12.5	12.9	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2038838	12.5	12.9	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	97	1414314	12.5	14.7	
147 2-Acetylaminofluorene	181	11.304	11.304	0.000	95	1198148	12.5	13.4	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	75	1510822	12.5	15.3	
150 4,4'-Methylene bis(2-chloroani	231	11.686	11.686	0.000	96	715512	12.5	14.1	
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	3514615	12.5	13.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.751	11.751	0.000	96	3411278	12.5	13.7	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	98	2152155	12.5	14.6	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	2434628	12.5	13.7	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	3250352	12.5	12.2	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	88	1523800	12.5	12.1	
155 Benzo[b]fluoranthene	252	13.198	13.198	0.000	97	3721019	12.5	12.6	
157 Benzo[k]fluoranthene	252	13.239	13.239	0.000	99	3868908	12.5	13.2	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	76	3470670	12.5	13.2	
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1187532	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	1771818	12.5	13.3	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	90	2784435	12.5	13.8	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	3224603	12.5	15.7	
163 Indeno[1,2,3-cd]pyrene	276	15.457	15.457	0.000	99	3532870	12.5	14.7	
164 Dibenz(a,h)anthracene	278	15.504	15.504	0.000	91	3615359	12.5	14.9	M
165 Benzo[g,h,i]perylene	276	15.945	15.945	0.000	98	3618878	12.5	15.0	
S 166 Isosafrole	162				0		12.5	11.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 07-Jul-2025 10:10:59 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D

Injection Date: 03-Jul-2025 12:04:30 Instrument ID: HP18831 Operator ID: EEA115318_KEL10217

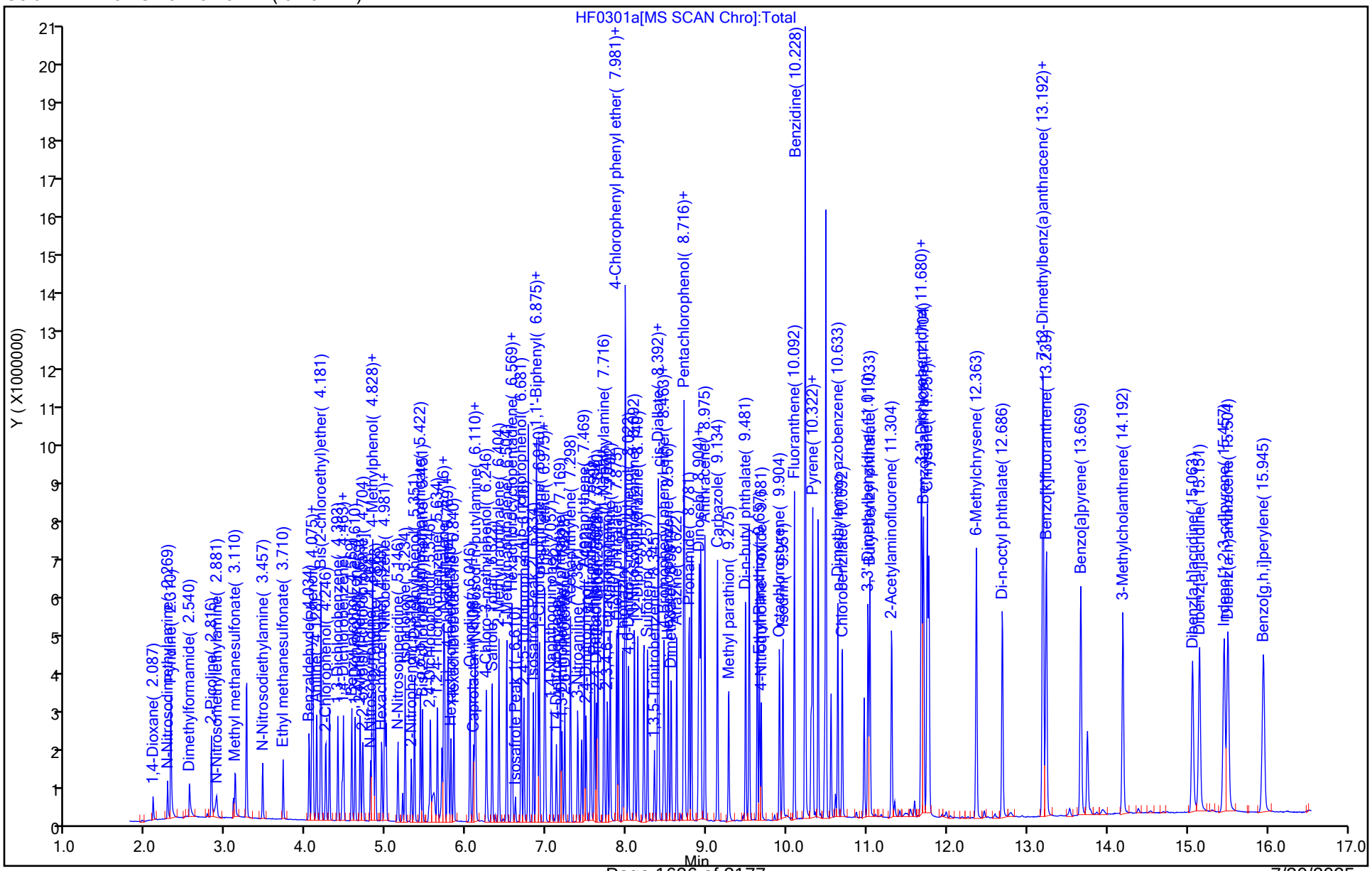
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

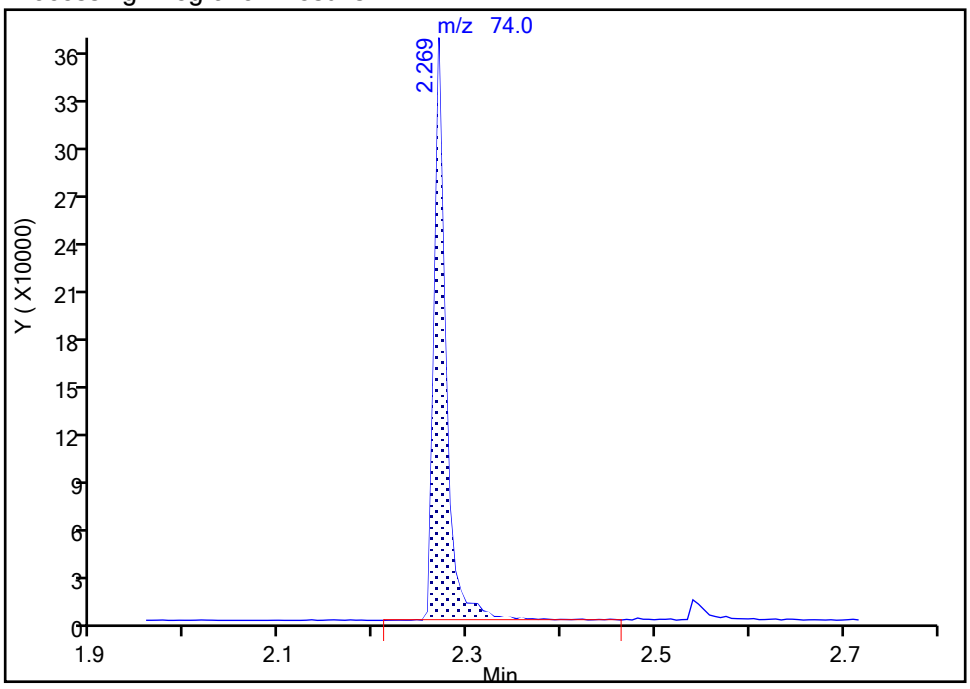
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D				
Injection Date:	03-Jul-2025 12:04:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

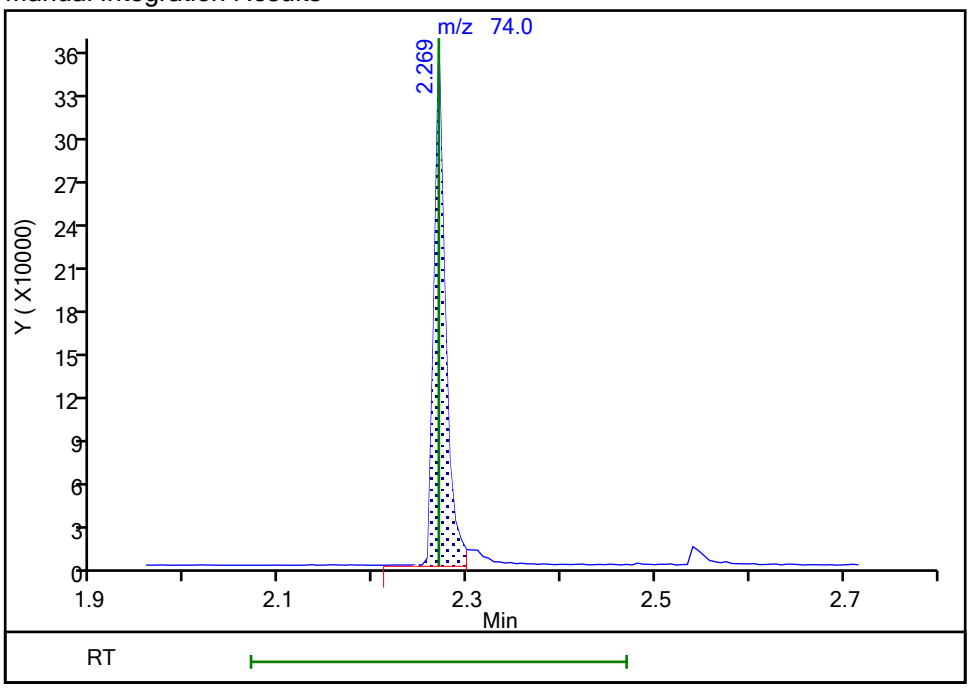
Processing Integration Results

RT: 2.27
Area: 327554
Amount: 12.711115
Amount Units: ug/ml



Manual Integration Results

RT: 2.27
Area: 307034
Amount: 11.914812
Amount Units: ug/ml



Reviewer: RN6U, 03-Jul-2025 12:38:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

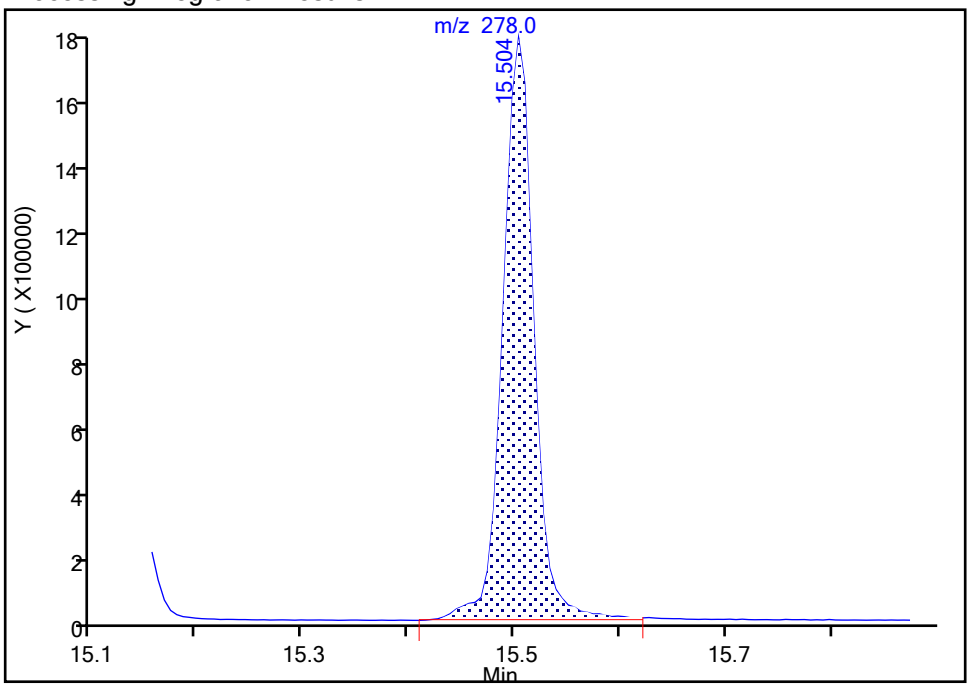
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D				
Injection Date:	03-Jul-2025 12:04:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

164 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

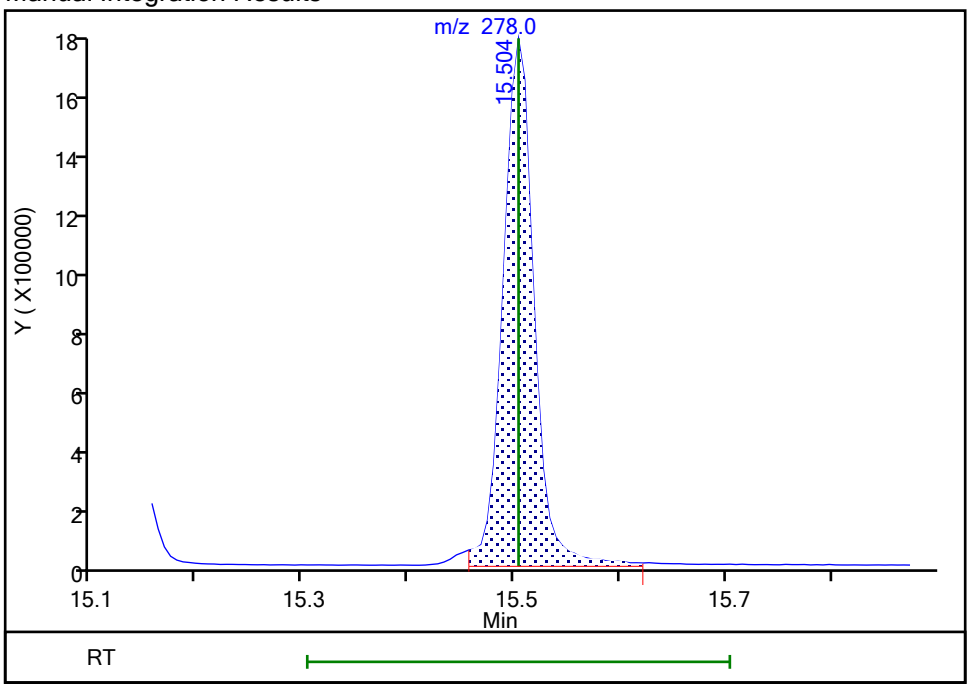
Processing Integration Results

RT: 15.50
Area: 3665965
Amount: 15.146036
Amount Units: ug/ml



Manual Integration Results

RT: 15.50
Area: 3615359
Amount: 14.936956
Amount Units: ug/ml



Reviewer: RN6U, 03-Jul-2025 12:37:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.5673		13.5	12.5	8.3	50.0
N-Nitrosodimethylamine	Ave	0.9111	0.9102		12.5	12.5	-0.1	50.0
Pyridine	Ave	1.449	1.437		24.8	25.0	-0.8	50.0
N,N-dimethylformamide	Ave	0.9936	1.064			12.5	7.1	50.0
2-Picoline	Ave	1.495	1.528		12.8	12.5	2.2	50.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6934		12.8	12.5	2.6	50.0
Methyl methanesulfonate	Ave	0.8412	0.8750		13.0	12.5	4.0	50.0
N-Nitrosodiethylamine	Ave	0.6682	0.6487		12.1	12.5	-2.9	50.0
Ethyl methanesulfonate	Ave	0.7584	0.7563		12.5	12.5	-0.3	50.0
Benzaldehyde	Ave	1.272	1.110	0.0100	10.9	12.5	-12.7	50.0
Phenol	Ave	1.768	1.952	0.8000	13.8	12.5	10.4	50.0
Aniline	Ave	2.205	2.325		13.2	12.5	5.4	50.0
Bis(2-chloroethyl)ether	Ave	1.435	1.499	0.7000	13.1	12.5	4.4	50.0
2-Chlorophenol	Ave	1.293	1.354	0.8000	13.1	12.5	4.7	50.0
1,3-Dichlorobenzene	Ave	1.476	1.498		12.7	12.5	1.5	50.0
1,4-Dichlorobenzene	Ave	1.533	1.507		12.3	12.5	-1.7	50.0
Benzyl alcohol	Ave	0.9501	0.9822		12.9	12.5	3.4	50.0
1,2-Dichlorobenzene	Ave	1.451	1.481		12.8	12.5	2.1	50.0
2-Methylphenol	Ave	1.284	1.367	0.7000	13.3	12.5	6.5	50.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.481	0.0100	13.1	12.5	4.9	50.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8323		12.9	12.5	3.5	50.0
3,4-Methylphenol	Ave	1.329	1.483	0.6000	13.9	12.5	11.6	50.0
Acetophenone	Ave	2.160	2.269	0.0100	13.1	12.5	5.1	50.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.264	0.5000	12.9	12.5	3.6	50.0
N-Nitrosomorpholine	Ave	1.146	1.164		12.7	12.5	1.6	50.0
2-Toluidine	Ave	2.316	2.364		12.8	12.5	2.1	50.0
Hexachloroethane	Ave	0.6187	0.6087	0.3000	12.3	12.5	-1.6	50.0
Nitrobenzene	Ave	0.3849	0.3834	0.2000	12.5	12.5	-0.4	50.0
N-Nitrosopiperidine	Ave	0.1890	0.1869		12.4	12.5	-1.1	50.0
Isophorone	Ave	0.7472	0.7616	0.4000	12.7	12.5	1.9	50.0
2-Nitrophenol	Ave	0.1189	0.1419	0.1000	14.9	12.5	19.3	50.0
2,4-Dimethylphenol	Ave	0.3495	0.3689	0.2000	13.2	12.5	5.5	50.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1903		12.1	12.5	-3.5	50.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4691	0.3000	12.7	12.5	1.4	50.0
2,4-Dichlorophenol	Ave	0.2634	0.2829	0.2000	13.4	12.5	7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3334		12.4	12.5	-1.0	50.0
Naphthalene	Ave	1.027	1.067	0.7000	13.0	12.5	3.9	50.0
a-Terpineol	Ave	0.3263	0.3439		13.2	12.5	5.4	50.0
4-Chloroaniline	Ave	0.4491	0.4808	0.0100	13.4	12.5	7.1	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2813		13.4	12.5	7.2	50.0
Hexachloropropene	Ave	0.2086	0.1893		11.3	12.5	-9.2	50.0
Hexachlorobutadiene	Ave	0.1985	0.1913	0.0100	12.0	12.5	-3.7	50.0
Quinoline	Ave	0.7634	0.7585		12.4	12.5	-0.6	50.0
Caprolactam	Ave	0.1121	0.1141	0.0100	12.7	12.5	1.8	50.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.3009		12.2	12.5	-2.6	50.0
1,4-phenylenediamine	Ave	0.4225	0.4168			12.5	-1.4	50.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3379	0.2000	13.8	12.5	10.2	50.0
Safrole, Total	Ave	0.2945	0.2902		12.3	12.5	-1.5	50.0
2-Methylnaphthalene	Ave	0.6681	0.6810	0.4000	12.7	12.5	1.9	50.0
1-Methylnaphthalene	Ave	0.6939	0.7263		13.1	12.5	4.7	50.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3502	0.0500	11.7	12.5	-6.4	50.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5531	0.0100	11.6	12.5	-6.9	50.0
Isosafrole Peak 1	Ave	0.5631	0.4845		1.72	2.00	-14.0	50.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3195	0.2000	13.3	12.5	6.7	50.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4011	0.2000	12.9	12.5	3.1	50.0
Isosafrole Peak 2	Ave	0.5697	0.5467		10.1	10.5	-4.0	50.0
1,1'-Biphenyl	Ave	1.473	1.433	0.0100	12.2	12.5	-2.7	50.0
2-Chloronaphthalene	Ave	1.212	1.142	0.8000	11.8	12.5	-5.8	50.0
1-Chloronaphthalene	Ave	1.070	1.057		12.3	12.5	-1.2	50.0
Diphenyl ether	Ave	0.8444	0.8181		12.1	12.5	-3.1	50.0
2-Nitroaniline	Ave	0.3247	0.3513	0.0100	13.5	12.5	8.2	50.0
1,4-Naphthoquinone	Ave	0.4673	0.4592			12.5	-1.7	50.0
1,4-Dinitrobenzene	Ave	0.1362	0.1683		15.4	12.5	23.6	50.0
Dimethyl phthalate	Ave	1.394	1.410	0.0100	12.6	12.5	1.2	50.0
1,3-Dinitrobenzene	Ave	0.1757	0.1962		14.0	12.5	11.7	50.0
2,6-Dinitrotoluene	Ave	0.2673	0.2768	0.2000	12.9	12.5	3.5	50.0
Acenaphthylene	Ave	1.837	1.825	0.9000	12.4	12.5	-0.6	50.0
3-Nitroaniline	Ave	0.3037	0.3298	0.0100	13.6	12.5	8.6	50.0
Acenaphthene	Ave	1.243	1.197	0.9000	12.0	12.5	-3.7	50.0
2,4-Dinitrophenol	Ave	0.0610	0.1169	0.0100	47.9	25.0	91.7*	50.0
4-Nitrophenol	Ave	0.1653	0.1998	0.0100	30.2	25.0	20.9	50.0
Pentachlorobenzene	Ave	0.5739	0.5292		11.5	12.5	-7.8	50.0
2,4-Dinitrotoluene	Ave	0.3532	0.3979	0.2000	14.1	12.5	12.7	50.0
Dibenzofuran	Ave	1.746	1.717	0.8000	12.3	12.5	-1.7	50.0
1-Naphthylamine	Ave	1.227	1.255		12.8	12.5	2.2	50.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3341	0.0100	12.5	12.5	0.4	50.0
2-Naphthylamine	Ave	1.337	1.324		12.4	12.5	-1.0	50.0
Diethyl phthalate	Ave	1.402	1.444	0.0100	12.9	12.5	3.0	50.0
Thionazin	Ave	0.2174	0.2125		12.2	12.5	-2.3	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl phenyl ether	Ave	0.7087	0.7079	0.4000	12.5	12.5	-0.1	50.0
Fluorene	Ave	1.439	1.444	0.9000	12.5	12.5	0.3	50.0
4-Nitroaniline	Ave	0.3391	0.3852	0.0100	14.2	12.5	13.6	50.0
5-Nitro-o-toluidine	Ave	0.3560	0.3807		13.4	12.5	6.9	50.0
4,6-Dinitro-2-methylphenol	Qua2		0.0953	0.0100	42.0	25.0	68.2*	50.0
N-Nitrosodiphenylamine	Ave	0.5943	0.6049	0.0100	10.8	10.6	1.8	50.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7491		12.7	12.5	1.4	50.0
Sulfotepp	Ave	0.1209	0.1146		11.8	12.5	-5.2	50.0
1,3,5-Trinitrobenzene	Qua2		0.0713			12.5	32.2	50.0
cis-Diallate	Ave	0.2849	0.2790		9.06	9.25	-2.1	50.0
Phorate	Ave	0.4442	0.4479		12.6	12.5	0.8	50.0
Phenacetin	Ave	0.3359	0.3525		13.1	12.5	5.0	50.0
4-Bromophenyl phenyl ether	Ave	0.2218	0.2106	0.1000	11.9	12.5	-5.1	50.0
trans-Diallate	Ave	0.3197	0.2777		2.82	3.25	-13.1	50.0
Hexachlorobenzene	Ave	0.2657	0.2501	0.1000	11.8	12.5	-5.9	50.0
Dimethoate	Lin1		0.2826		12.5	12.5	0.2	50.0
Atrazine	Ave	0.2108	0.2036	0.0100	12.1	12.5	-3.4	50.0
Pentachlorophenol	Lin1		0.1332	0.0500	26.9	25.0	7.4	50.0
4-Aminobiphenyl	Ave	0.8505	0.8290		12.2	12.5	-2.5	50.0
Pentachloronitrobenzene	Ave	0.0920	0.0914		12.4	12.5	-0.7	50.0
Pronamide	Ave	0.3380	0.3316		12.3	12.5	-1.9	50.0
Dinoseb	Ave	0.0748	0.1278		21.3	12.5	70.7*	50.0
Disulfoton	Lin2		0.4327			12.5	-2.8	50.0
Phenanthrene	Ave	1.114	1.076	0.7000	12.1	12.5	-3.4	50.0
Anthracene	Ave	1.093	1.112	0.7000	12.7	12.5	1.7	50.0
Carbazole	Ave	1.023	1.075	0.0100	13.1	12.5	5.1	50.0
Methyl parathion	Ave	0.1925	0.2200		14.3	12.5	14.3	50.0
Di-n-butyl phthalate	Ave	1.096	1.178	0.0100	13.4	12.5	7.4	50.0
Parathion	Ave	0.1208	0.1275		13.2	12.5	5.6	50.0
4-Nitroquinoline-1-oxide	Qua2		0.1023			12.5	10.7	50.0
Octachlorostyrene	Ave	0.1097	0.1056		12.0	12.5	-3.8	50.0
Isodrin	Ave	0.1396	0.1240		11.1	12.5	-11.2	50.0
Fluoranthene	Ave	1.244	1.278	0.6000	12.8	12.5	2.7	50.0
Benzidine	Ave	0.7336	0.9038		46.2	37.5	23.2	50.0
Pyrene	Ave	1.226	1.211	0.6000	12.3	12.5	-1.2	50.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2302		13.0	12.5	3.8	50.0
Chlorobenzilate	Ave	0.3103	0.3183		12.8	12.5	2.6	50.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.7585			12.5	2.9	50.0
Butyl benzyl phthalate	Ave	0.4497	0.5300	0.0100	14.7	12.5	17.9	50.0
2-Acetylaminofluorene	Ave	0.4183	0.4477		13.4	12.5	7.0	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5631	0.0100	15.3	12.5	22.4	50.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2645			12.5	11.6	50.0
Benzo[a]anthracene	Ave	1.193	1.335	0.8000	14.0	12.5	11.9	50.0
Chrysene	Ave	1.157	1.282	0.7000	13.9	12.5	10.8	50.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7741	0.0100	14.1	12.5	12.9	50.0
6-Methylchrysene	Ave	0.8284	0.9165		13.8	12.5	10.6	50.0
Di-n-octyl phthalate	Lin2		1.076	0.0100	12.0	12.5	-4.3	50.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5263		12.4	12.5	-0.6	50.0
Benzo[b]fluoranthene	Ave	1.242	1.252	0.7000	12.6	12.5	0.8	50.0
Benzo[k]fluoranthene	Ave	1.234	1.315	0.7000	13.3	12.5	6.5	50.0
Benzo[a]pyrene	Ave	1.103	1.200	0.7000	13.6	12.5	8.8	50.0
3-Methylcholanthrene	Ave	0.5600	0.5955		13.3	12.5	6.3	50.0
Dibenz[a,h]acridine	Ave	0.8479	0.9292		13.7	12.5	9.6	50.0
Dibenz[a,j]acridine	Ave	0.8670	1.093		15.8	12.5	26.1	50.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.158	0.5000	14.3	12.5	14.6	50.0
Dibenz(a,h)anthracene	Ave	1.019	1.240	0.4000	15.2	12.5	21.6	50.0
Benzo[g,h,i]perylene	Ave	1.014	1.218	0.5000	15.0	12.5	20.1	50.0
2-Fluorophenol (Surr)	Ave	1.193	1.277		26.8	25.0	7.0	50.0
Phenol-d5 (Surr)	Ave	1.660	1.892		28.5	25.0	14.0	50.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.3928		27.5	25.0	10.1	50.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.385		25.7	25.0	2.7	50.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2370		28.3	25.0	13.1	50.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.9052		27.9	25.0	11.5	50.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0321.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 03-Jul-2025 20:11:30 ALS Bottle#: 2 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVC
Misc. Info.: 410-0152352-019
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:24:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.093	2.087	0.006	98	224579	12.5	13.5	
2 N-Nitrosodimethylamine	74	2.275	2.269	0.006	90	360308	12.5	12.5	
3 Pyridine	79	2.310	2.310	0.000	89	1137905	25.0	24.8	
4 Dimethylformamide	73	2.546	2.540	0.006	93	421096	12.5	13.4	
5 2-Picoline	93	2.822	2.816	0.006	96	604858	12.5	12.8	
6 N-Nitrosomethylethylamine	88	2.887	2.881	0.006	93	274516	12.5	12.8	
9 Methyl methanesulfonate	80	3.116	3.116	0.000	87	346405	12.5	13.0	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	1011037	25.0	26.8	
11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	256791	12.5	12.1	
13 Ethyl methanesulfonate	109	3.716	3.710	0.006	99	299391	12.5	12.5	
15 Benzaldehyde	77	4.040	4.034	0.006	94	439369	12.5	10.9	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	1497961	25.0	28.5	
17 Phenol	94	4.087	4.087	0.000	99	772665	12.5	13.8	
18 Aniline	93	4.134	4.128	0.006	96	920288	12.5	13.2	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	93	593262	12.5	13.1	
20 2-Chlorophenol	128	4.246	4.251	0.000	98	535972	12.5	13.1	
22 1,3-Dichlorobenzene	146	4.399	4.393	0.006	97	593047	12.5	12.7	
* 23 1,4-Dichlorobenzene-d4	152	4.452	4.446	0.006	95	158351	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.469	4.463	0.006	92	596781	12.5	12.3	
26 Benzyl alcohol	108	4.569	4.569	0.000	91	388827	12.5	12.9	
27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	586377	12.5	12.8	
30 2-Methylphenol	108	4.675	4.675	0.006	98	541351	12.5	13.3	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	982092	12.5	13.1	
33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	84	329508	12.5	12.9	
36 4-Methylphenol	108	4.822	4.822	0.000	96	587028	12.5	13.9	
34 Acetophenone	105	4.834	4.828	0.006	88	898269	12.5	13.1	
35 N-Nitrosodi-n-propylamine	70	4.834	4.828	0.006	81	500236	12.5	12.9	
37 N-Nitrosomorpholine	56	4.846	4.846	0.000	92	460951	12.5	12.7	
38 2-Toluidine	106	4.863	4.863	0.000	96	935940	12.5	12.8	
40 Hexachloroethane	117	4.946	4.946	0.006	93	240969	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1352840	25.0	27.5	
42 Nitrobenzene	77	4.999	4.999	0.000	91	660290	12.5	12.5	
43 N-Nitrosopiperidine	114	5.146	5.146	0.000	82	321806	12.5	12.4	
45 Isophorone	82	5.234	5.234	0.000	99	1311617	12.5	12.7	
46 2-Nitrophenol	139	5.316	5.310	0.006	96	244325	12.5	14.9	
48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	635220	12.5	13.2	
49 o,o',o''-Triethylphosphorothioat	198	5.428	5.428	0.000	85	327697	12.5	12.1	
51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	807829	12.5	12.7	
52 2,4-Dichlorophenol	162	5.551	5.551	0.000	95	487265	12.5	13.4	
53 1,2,4-Trichlorobenzene	180	5.640	5.640	0.000	94	574120	12.5	12.4	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	99	688856	5.00	5.00	
55 Naphthalene	128	5.716	5.716	0.000	98	1837255	12.5	13.0	
29 Alpha-Terpineol	59	5.728	5.728	0.000	93	592166	12.5	13.2	
57 4-Chloroaniline	127	5.763	5.763	0.000	95	828025	12.5	13.4	
58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	484434	12.5	13.4	
59 Hexachloropropene	213	5.804	5.804	0.000	90	325981	12.5	11.3	
60 Hexachlorobutadiene	225	5.846	5.845	0.000	96	329360	12.5	12.0	
62 Quinoline	129	6.046	6.046	0.000	96	1306225	12.5	12.4	
63 Caprolactam	113	6.087	6.087	0.000	75	196537	12.5	12.7	
64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	518174	12.5	12.2	
39 p-Phenylene diamine	108	6.116	6.116	0.000	95	717778	12.5	12.3	
66 4-Chloro-3-methylphenol	107	6.246	6.246	0.000	97	581939	12.5	13.8	
67 Safrole, Total	162	6.322	6.322	0.000	89	499749	12.5	12.3	
68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	1172758	12.5	12.7	
69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	1250711	12.5	13.1	
71 Hexachlorocyclopentadiene	237	6.563	6.558	0.000	95	404063	12.5	11.7	
72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	97	638138	12.5	11.6	
73 Isosafrole Peak 1	162	6.610	6.610	0.000	88	89437	2.00	1.72	
74 2,4,6-Trichlorophenol	196	6.681	6.675	0.000	77	368582	12.5	13.3	
75 2,4,5-Trichlorophenol	196	6.716	6.711	0.000	95	462819	12.5	12.9	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	3196838	25.0	25.7	
77 Isosafrole Peak 2	162	6.834	6.834	0.000	92	529826	10.5	10.1	
78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	1652841	12.5	12.2	
79 2-Chloronaphthalene	162	6.887	6.881	0.000	97	1317185	12.5	11.8	
80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	1219615	12.5	12.3	
81 Phenyl ether	170	6.975	6.975	0.000	91	943897	12.5	12.1	
82 2-Nitroaniline	138	6.987	6.981	0.000	87	405323	12.5	13.5	
84 1,4-Naphthoquinone	158	7.063	7.063	0.000	90	529827	12.5	12.3	
85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	194172	12.5	15.4	
86 Dimethyl phthalate	163	7.175	7.175	0.000	99	1626581	12.5	12.6	
87 1,3-Dinitrobenzene	168	7.193	7.193	0.001	82	226368	12.5	14.0	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	94	319312	12.5	12.9	
89 Acenaphthylene	152	7.298	7.293	0.000	98	2106066	12.5	12.4	
90 3-Nitroaniline	138	7.387	7.387	0.000	92	380530	12.5	13.6	
* 91 Acenaphthene-d10	164	7.440	7.440	0.000	94	461504	5.00	5.00	
93 Acenaphthene	153	7.469	7.463	0.000	96	1381558	12.5	12.0	
94 2,4-Dinitrophenol	184	7.493	7.487	0.000	81	269836	25.0	47.9	
95 4-Nitrophenol	109	7.551	7.551	0.000	97	460934	25.0	30.2	
96 Pentachlorobenzene	250	7.598	7.598	0.000	98	610544	12.5	11.5	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	94	459120	12.5	14.1	
97 Dibenzofuran	168	7.640	7.633	0.000	96	1980939	12.5	12.3	
99 1-Naphthylamine	143	7.716	7.716	0.000	99	1447493	12.5	12.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.757	7.763	-0.006	73	385481	12.5	12.5	
103 2-Naphthylamine	143	7.792	7.792	0.000	97	1527615	12.5	12.4	
104 Diethyl phthalate	149	7.875	7.868	0.000	98	1666110	12.5	12.9	
106 Thionazin	107	7.951	7.951	0.000	80	245152	12.5	12.2	
105 Fluorene	166	7.981	7.974	0.000	92	1665523	12.5	12.5	
108 4-Chlorophenyl phenyl ether	204	7.981	7.974	0.000	90	816801	12.5	12.5	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	88	439249	12.5	13.4	
109 4-Nitroaniline	138	7.987	7.986	-0.005	84	444409	12.5	14.2	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	0.000	82	452275	25.0	42.0	
111 N-Nitrosodiphenylamine	169	8.092	8.098	-0.006	64	1219932	10.6	10.8	
112 1,2-Diphenylhydrazine	77	8.134	8.140	-0.006	100	1777330	12.5	12.7	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	94	546845	25.0	28.3	
114 Sulfotepp	97	8.257	8.257	0.000	80	271923	12.5	11.8	
172 1,3,5-Trinitrobenzene	213	8.345	8.345	0.000	84	169204	12.5	16.5	
115 cis-Diallate	86	8.387	8.387	0.000	91	489819	9.25	9.06	
116 Phorate	75	8.392	8.392	0.000	96	1062764	12.5	12.6	
117 Phenacetin	108	8.398	8.398	0.000	94	836358	12.5	13.1	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	72	499584	12.5	11.9	
119 trans-Diallate	86	8.475	8.475	0.000	87	171275	3.25	2.82	
120 Hexachlorobenzene	284	8.516	8.516	-0.006	96	593331	12.5	11.8	
121 Dimethoate	87	8.551	8.551	0.000	95	670381	12.5	12.5	
122 Atrazine	200	8.622	8.616	0.000	91	483051	12.5	12.1	
123 Pentachlorophenol	266	8.710	8.704	0.000	93	631913	25.0	26.9	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	1966913	12.5	12.2	
124 Pentachloronitrobenzene	237	8.722	8.728	-0.006	87	216819	12.5	12.4	
126 Pronamide	173	8.775	8.781	-0.006	91	786798	12.5	12.3	
128 Dinoseb	211	8.892	8.898	-0.006	96	303184	12.5	21.3	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	98	949020	5.00	5.00	
70 Disulfoton	88	8.904	8.910	-0.006	97	1026615	12.5	12.1	
129 Phenanthrene	178	8.922	8.922	0.000	98	2553857	12.5	12.1	
130 Anthracene	178	8.975	8.975	0.000	97	2637598	12.5	12.7	
S 56 Dinitrotoluene	165				0		25.0	27.0	
131 Carbazole	167	9.134	9.134	0.000	96	2550762	12.5	13.1	
132 Methyl parathion	109	9.269	9.275	-0.006	95	521948	12.5	14.3	
133 Di-n-butyl phthalate	149	9.481	9.486	-0.005	100	2794168	12.5	13.4	
S 65 Diallate	86				0		12.5	11.9	
134 Ethyl Parathion	109	9.657	9.657	0.000	85	302556	12.5	13.2	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	92	242824	12.5	13.8	
136 Octachlorostyrene	308	9.904	9.904	0.000	93	250561	12.5	12.0	
137 Isodrin	193	9.951	9.951	0.000	92	294157	12.5	11.1	
138 Fluoranthene	202	10.092	10.086	0.000	97	3032080	12.5	12.8	
139 Benzidine	184	10.228	10.228	0.000	99	7236170	37.5	46.2	e
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1067538	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	3231328	12.5	12.3	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	4831666	25.0	27.9	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	95	614419	12.5	13.0	
144 Chlorobenzilate	139	10.686	10.686	0.000	90	849396	12.5	12.8	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2024434	12.5	12.9	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	98	1414574	12.5	14.7	
147 2-Acetylaminofluorene	181	11.304	11.304	0.000	94	1194928	12.5	13.4	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	75	1502796	12.5	15.3	
150 4,4'-Methylene bis(2-chloroani	231	11.680	11.686	-0.006	95	705984	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	3563189	12.5	14.0	
151 Chrysene	228	11.751	11.751	0.000	96	3422303	12.5	13.9	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	98	2065891	12.5	14.1	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	2446109	12.5	13.8	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	3183695	12.5	12.0	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	88	1557412	12.5	12.4	
155 Benzo[b]fluoranthene	252	13.192	13.198	-0.006	97	3705659	12.5	12.6	
157 Benzo[k]fluoranthene	252	13.233	13.239	-0.006	99	3889493	12.5	13.3	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	76	3550824	12.5	13.6	
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1183565	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	1762021	12.5	13.3	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	90	2749428	12.5	13.7	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	3233587	12.5	15.8	
163 Indeno[1,2,3-cd]pyrene	276	15.451	15.451	-0.006	99	3426036	12.5	14.3	M
164 Dibenz(a,h)anthracene	278	15.504	15.497	0.000	91	3667687	12.5	15.2	
165 Benzo[g,h,i]perylene	276	15.945	15.938	0.000	98	3604295	12.5	15.0	
S 166 Isosafrole	162				0		12.5	11.8	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 07-Jul-2025 11:29:15 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0321.D

Injection Date: 03-Jul-2025 20:11:30 Instrument ID: HP18831 Operator ID: EEA115318_KEL10217

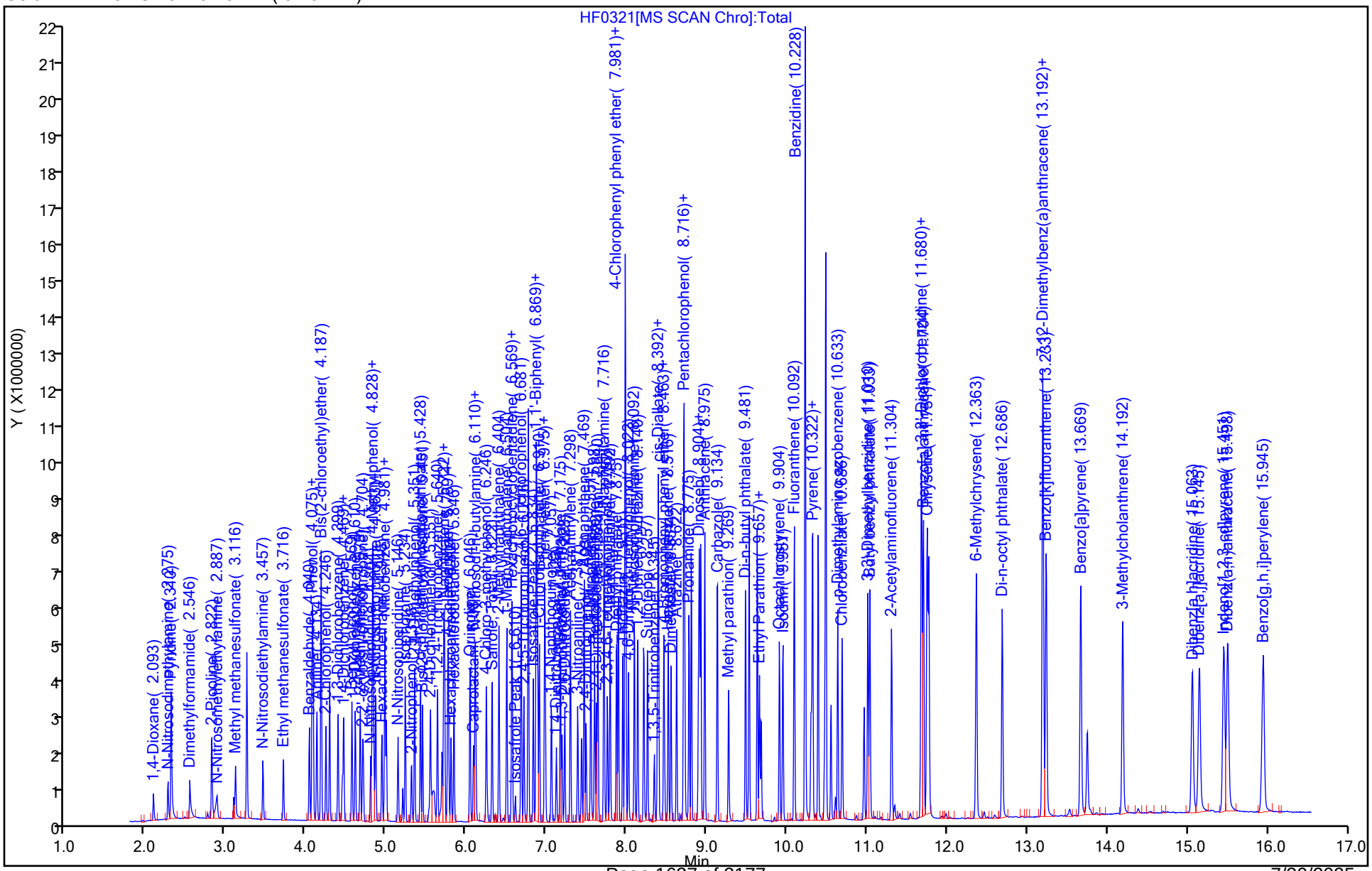
Lims ID: CCVC Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

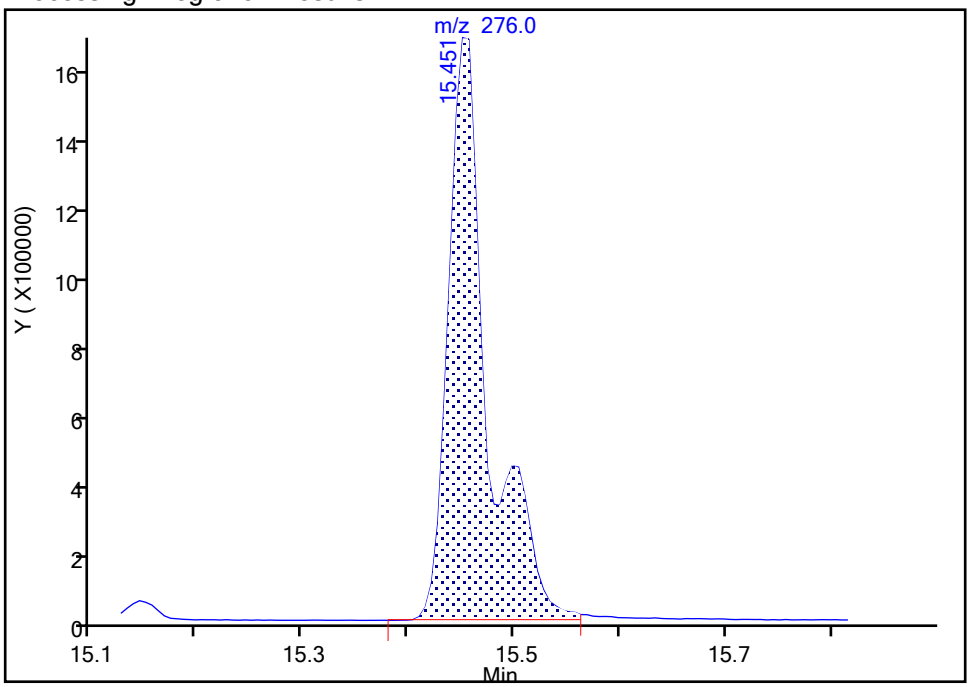
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0321.D				
Injection Date:	03-Jul-2025 20:11:30	Instrument ID:	HP18831		
Lims ID:	CCVC				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	2	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

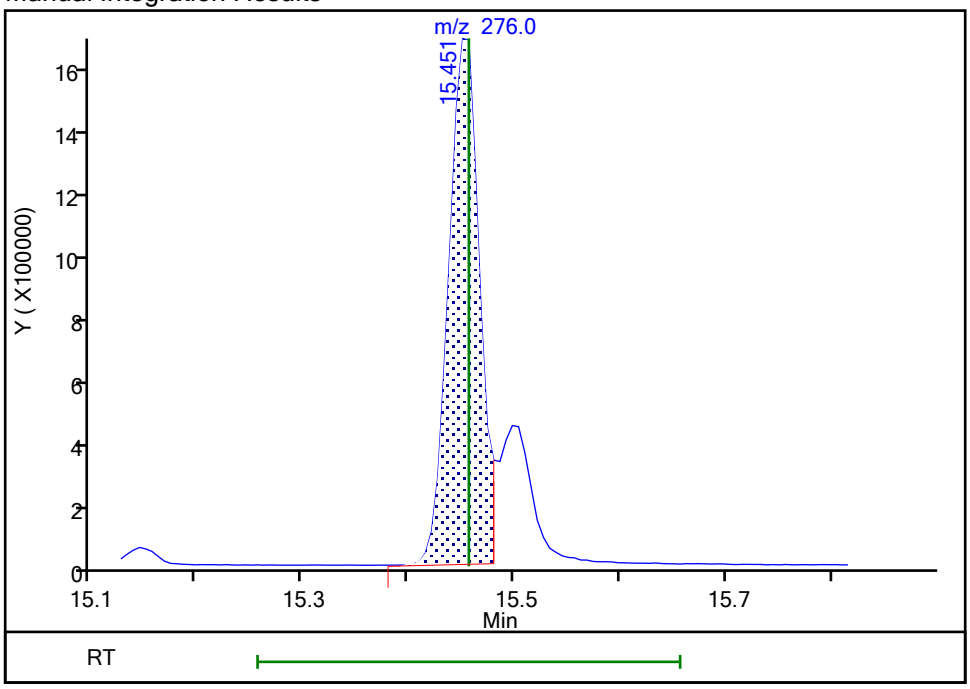
Processing Integration Results

RT: 15.45
Area: 4419690
Amount: 18.471981
Amount Units: ug/ml



Manual Integration Results

RT: 15.45
Area: 3426036
Amount: 14.319029
Amount Units: ug/ml



Reviewer: W6ZA, 07-Jul-2025 11:24:32 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.5112		12.2	12.5	-2.4	20.0
N-Nitrosodimethylamine	Ave	0.9111	0.8851		12.1	12.5	-2.9	20.0
Pyridine	Ave	1.449	1.409		24.3	25.0	-2.7	20.0
N,N-dimethylformamide	Ave	0.9936	1.063			12.5	6.9	20.0
2-Picoline	Ave	1.495	1.511		12.6	12.5	1.1	20.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6996		12.9	12.5	3.5	20.0
Methyl methanesulfonate	Ave	0.8412	0.8805		13.1	12.5	4.7	20.0
N-Nitrosodiethylamine	Ave	0.6682	0.6759		12.6	12.5	1.2	20.0
Ethyl methanesulfonate	Ave	0.7584	0.7747		12.8	12.5	2.1	20.0
Benzaldehyde	Ave	1.272	1.113	0.0100	10.9	12.5	-12.5	20.0
Phenol	Ave	1.768	1.982	0.8000	14.0	12.5	12.1	20.0
Aniline	Ave	2.205	2.372		13.5	12.5	7.6	20.0
Bis(2-chloroethyl)ether	Ave	1.435	1.518	0.7000	13.2	12.5	5.8	20.0
2-Chlorophenol	Ave	1.293	1.376	0.8000	13.3	12.5	6.4	20.0
1,3-Dichlorobenzene	Ave	1.476	1.509		12.8	12.5	2.2	20.0
1,4-Dichlorobenzene	Ave	1.533	1.538		12.5	12.5	0.3	20.0
Benzyl alcohol	Ave	0.9501	0.9806		12.9	12.5	3.2	20.0
1,2-Dichlorobenzene	Ave	1.451	1.494		12.9	12.5	3.0	20.0
2-Methylphenol	Ave	1.284	1.437	0.7000	14.0	12.5	11.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.474	0.0100	13.1	12.5	4.6	20.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8565		13.3	12.5	6.5	20.0
3,4-Methylphenol	Ave	1.329	1.531	0.6000	14.4	12.5	15.2	20.0
Acetophenone	Ave	2.160	2.350	0.0100	13.6	12.5	8.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.312	0.5000	13.4	12.5	7.5	20.0
N-Nitrosomorpholine	Ave	1.146	1.203		13.1	12.5	5.0	20.0
2-Toluidine	Ave	2.316	2.453		13.2	12.5	5.9	20.0
Hexachloroethane	Ave	0.6187	0.6306	0.3000	12.7	12.5	1.9	20.0
Nitrobenzene	Ave	0.3849	0.3808	0.2000	12.4	12.5	-1.1	20.0
N-Nitrosopiperidine	Ave	0.1890	0.1810		12.0	12.5	-4.2	20.0
Isophorone	Ave	0.7472	0.7447	0.4000	12.5	12.5	-0.3	20.0
2-Nitrophenol	Ave	0.1189	0.1402	0.1000	14.7	12.5	17.9	20.0
2,4-Dimethylphenol	Ave	0.3495	0.3670	0.2000	13.1	12.5	5.0	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1908		12.1	12.5	-3.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4642	0.3000	12.5	12.5	0.3	20.0
2,4-Dichlorophenol	Ave	0.2634	0.2837	0.2000	13.5	12.5	7.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3314		12.3	12.5	-1.5	20.0
Naphthalene	Ave	1.027	1.057	0.7000	12.9	12.5	3.0	20.0
a-Terpineol	Ave	0.3263	0.3498		13.4	12.5	7.2	20.0
4-Chloroaniline	Ave	0.4491	0.4769	0.0100	13.3	12.5	6.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2829		13.5	12.5	7.8	20.0
Hexachloropropene	Ave	0.2086	0.1919		11.5	12.5	-8.0	20.0
Hexachlorobutadiene	Ave	0.1985	0.1993	0.0100	12.5	12.5	0.4	20.0
Quinoline	Ave	0.7634	0.7438		12.2	12.5	-2.6	20.0
Caprolactam	Ave	0.1121	0.1152	0.0100	12.8	12.5	2.8	20.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.2977		12.1	12.5	-3.6	20.0
1,4-phenylenediamine	Ave	0.4225	0.3774			12.5	-10.7	20.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3468	0.2000	14.1	12.5	13.1	20.0
Safrole, Total	Ave	0.2945	0.2880		12.2	12.5	-2.2	20.0
2-Methylnaphthalene	Ave	0.6681	0.6895	0.4000	12.9	12.5	3.2	20.0
1-Methylnaphthalene	Ave	0.6939	0.7238		13.0	12.5	4.3	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3287	0.0500	11.0	12.5	-12.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5569	0.0100	11.7	12.5	-6.3	20.0
Isosafrole Peak 1	Ave	0.5631	0.4695		1.67	2.00	-16.6	20.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3239	0.2000	13.5	12.5	8.1	20.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4021	0.2000	12.9	12.5	3.4	20.0
Isosafrole Peak 2	Ave	0.5697	0.5402		9.96	10.5	-5.2	20.0
1,1'-Biphenyl	Ave	1.473	1.446	0.0100	12.3	12.5	-1.8	20.0
2-Chloronaphthalene	Ave	1.212	1.145	0.8000	11.8	12.5	-5.6	20.0
1-Chloronaphthalene	Ave	1.070	1.055		12.3	12.5	-1.4	20.0
Diphenyl ether	Ave	0.8444	0.8136		12.0	12.5	-3.6	20.0
2-Nitroaniline	Ave	0.3247	0.3563	0.0100	13.7	12.5	9.7	20.0
1,4-Naphthoquinone	Ave	0.4673	0.4563			12.5	-2.3	20.0
1,4-Dinitrobenzene	Ave	0.1362	0.1699		15.6	12.5	24.8*	20.0
Dimethyl phthalate	Ave	1.394	1.423	0.0100	12.8	12.5	2.1	20.0
1,3-Dinitrobenzene	Ave	0.1757	0.2033		14.5	12.5	15.7	20.0
2,6-Dinitrotoluene	Ave	0.2673	0.2876	0.2000	13.5	12.5	7.6	20.0
Acenaphthylene	Ave	1.837	1.828	0.9000	12.4	12.5	-0.5	20.0
3-Nitroaniline	Ave	0.3037	0.3427	0.0100	14.1	12.5	12.9	20.0
Acenaphthene	Ave	1.243	1.212	0.9000	12.2	12.5	-2.5	20.0
2,4-Dinitrophenol	Ave	0.0610	0.1098	0.0100	45.0	25.0	80.0*	20.0
4-Nitrophenol	Ave	0.1653	0.2102	0.0100	31.8	25.0	27.2*	20.0
Pentachlorobenzene	Ave	0.5739	0.5295		11.5	12.5	-7.7	20.0
2,4-Dinitrotoluene	Ave	0.3532	0.4035	0.2000	14.3	12.5	14.3	20.0
Dibenzofuran	Ave	1.746	1.725	0.8000	12.4	12.5	-1.2	20.0
1-Naphthylamine	Ave	1.227	1.246		12.7	12.5	1.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3432	0.0100	12.9	12.5	3.1	20.0
2-Naphthylamine	Ave	1.337	1.299		12.1	12.5	-2.9	20.0
Diethyl phthalate	Ave	1.402	1.472	0.0100	13.1	12.5	5.0	20.0
Thionazin	Ave	0.2174	0.2224		12.8	12.5	2.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl phenyl ether	Ave	0.7087	0.7070	0.4000	12.5	12.5	-0.2	20.0
Fluorene	Ave	1.439	1.456	0.9000	12.6	12.5	1.2	20.0
5-Nitro-o-toluidine	Ave	0.3560	0.3834		13.5	12.5	7.7	20.0
4-Nitroaniline	Ave	0.3391	0.4005	0.0100	14.8	12.5	18.1	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.0952	0.0100	42.0	25.0	68.1*	20.0
N-Nitrosodiphenylamine	Ave	0.5943	0.6107	0.0100	10.9	10.6	2.8	20.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7581		12.8	12.5	2.6	20.0
Sulfotepp	Ave	0.1209	0.1218		12.6	12.5	0.8	20.0
1,3,5-Trinitrobenzene	Qua2		0.0737			12.5	35.5*	20.0
cis-Diallate	Ave	0.2849	0.2845		9.24	9.25	-0.1	20.0
Phorate	Ave	0.4442	0.4551		12.8	12.5	2.4	20.0
Phenacetin	Ave	0.3359	0.3671		13.7	12.5	9.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2218	0.2142	0.1000	12.1	12.5	-3.4	20.0
trans-Diallate	Ave	0.3197	0.2828		2.88	3.25	-11.5	20.0
Hexachlorobenzene	Ave	0.2657	0.2544	0.1000	12.0	12.5	-4.2	20.0
Dimethoate	Lin1		0.2822		12.5	12.5	0.1	20.0
Atrazine	Ave	0.2108	0.2070	0.0100	12.3	12.5	-1.8	20.0
4-Aminobiphenyl	Ave	0.8505	0.7990		11.7	12.5	-6.1	20.0
Pentachlorophenol	Lin1		0.1337	0.0500	26.9	25.0	7.8	20.0
Pentachloronitrobenzene	Ave	0.0920	0.0941		12.8	12.5	2.3	20.0
Pronamide	Ave	0.3380	0.3426		12.7	12.5	1.4	20.0
Dinoseb	Ave	0.0748	0.1268		21.2	12.5	69.4*	20.0
Disulfoton	Lin2		0.4450			12.5	-0.0	20.0
Phenanthrene	Ave	1.114	1.106	0.7000	12.4	12.5	-0.7	20.0
Anthracene	Ave	1.093	1.127	0.7000	12.9	12.5	3.1	20.0
Carbazole	Ave	1.023	1.103	0.0100	13.5	12.5	7.8	20.0
Methyl parathion	Ave	0.1925	0.2236		14.5	12.5	16.1	20.0
Di-n-butyl phthalate	Ave	1.096	1.215	0.0100	13.9	12.5	10.9	20.0
Parathion	Ave	0.1208	0.1369		14.2	12.5	13.3	20.0
4-Nitroquinoline-1-oxide	Qua2		0.1062			12.5	14.0	20.0
Octachlorostyrene	Ave	0.1097	0.1096		12.5	12.5	-0.0	20.0
Isodrin	Ave	0.1396	0.1332		11.9	12.5	-4.6	20.0
Fluoranthene	Ave	1.244	1.320	0.6000	13.3	12.5	6.1	20.0
Benzidine	Ave	0.7336	0.8454		43.2	37.5	15.3	20.0
Pyrene	Ave	1.226	1.202	0.6000	12.3	12.5	-2.0	20.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2287		12.9	12.5	3.1	20.0
Chlorobenzilate	Ave	0.3103	0.3321		13.4	12.5	7.0	20.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.6956			12.5	-5.6	20.0
Butyl benzyl phthalate	Ave	0.4497	0.5331	0.0100	14.8	12.5	18.5	20.0
2-Acetylaminofluorene	Ave	0.4183	0.4497		13.4	12.5	7.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5519	0.0100	15.0	12.5	19.9	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2555			12.5	7.7	20.0
Benzo[a]anthracene	Ave	1.193	1.326	0.8000	13.9	12.5	11.2	20.0
Chrysene	Ave	1.157	1.267	0.7000	13.7	12.5	9.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7967	0.0100	14.5	12.5	16.2	20.0
6-Methylchrysene	Ave	0.8284	0.9024		13.6	12.5	8.9	20.0
Di-n-octyl phthalate	Lin2		1.125	0.0100	12.5	12.5	-0.2	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5134		12.1	12.5	-3.0	20.0
Benzo[b]fluoranthene	Ave	1.242	1.290	0.7000	13.0	12.5	3.8	20.0
Benzo[k]fluoranthene	Ave	1.234	1.327	0.7000	13.4	12.5	7.6	20.0
Benzo[a]pyrene	Ave	1.103	1.187	0.7000	13.5	12.5	7.6	20.0
3-Methylcholanthrene	Ave	0.5600	0.5938		13.3	12.5	6.0	20.0
Dibenz[a,h]acridine	Ave	0.8479	0.9269		13.7	12.5	9.3	20.0
Dibenz[a,j]acridine	Ave	0.8670	1.068		15.4	12.5	23.2*	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.148	0.5000	14.2	12.5	13.5	20.0
Dibenz(a,h)anthracene	Ave	1.019	1.229	0.4000	15.1	12.5	20.6*	20.0
Benzo[g,h,i]perylene	Ave	1.014	1.180	0.5000	14.5	12.5	16.4	20.0
2-Fluorophenol (Surr)	Ave	1.193	1.297		27.2	25.0	8.7	20.0
Phenol-d5 (Surr)	Ave	1.660	1.951		29.4	25.0	17.5	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.3927		27.5	25.0	10.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.388		25.7	25.0	2.8	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2497		29.8	25.0	19.1	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.8964		27.6	25.0	10.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0851.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jul-2025 20:38:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: kel10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Jul-2025 21:33:45 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1718

First Level Reviewer: SJ89 Date: 08-Jul-2025 21:33:22

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.087	2.087	0.000	98	204385	12.5	12.2	
	2 N-Nitrosodimethylamine	74	2.269	2.269	0.000	89	353894	12.5	12.1	
	3 Pyridine	79	2.310	2.310	0.000	90	1126979	25.0	24.3	
	4 Dimethylformamide	73	2.540	2.540	0.000	95	424881	12.5	13.4	
	5 2-Picoline	93	2.816	2.816	0.000	96	604241	12.5	12.6	
	6 N-Nitrosomethylethylamine	88	2.881	2.881	0.000	94	279724	12.5	12.9	
	9 Methyl methanesulfonate	80	3.116	3.116	0.000	87	352070	12.5	13.1	
$	10 2-Fluorophenol	112	3.257	3.257	0.000	95	1037280	25.0	27.2	
	11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	270252	12.5	12.6	
	13 Ethyl methanesulfonate	109	3.710	3.710	0.000	99	309735	12.5	12.8	
	15 Benzaldehyde	77	4.034	4.034	0.000	94	445184	12.5	10.9	
$	16 Phenol-d5	99	4.075	4.075	0.000	97	1560307	25.0	29.4	
	17 Phenol	94	4.087	4.087	0.000	98	792392	12.5	14.0	
	18 Aniline	93	4.128	4.128	0.000	96	948571	12.5	13.5	
	19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	92	607075	12.5	13.2	
	20 2-Chlorophenol	128	4.246	4.246	0.000	97	550266	12.5	13.3	
	22 1,3-Dichlorobenzene	146	4.393	4.393	0.000	97	603284	12.5	12.8	
*	23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	159935	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	92	614994	12.5	12.5	
	26 Benzyl alcohol	108	4.569	4.569	0.000	90	392075	12.5	12.9	
	27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	597497	12.5	12.9	
	30 2-Methylphenol	108	4.675	4.675	0.000	97	574440	12.5	14.0	
	32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	989351	12.5	13.1	
	33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	85	342476	12.5	13.3	
	36 4-Methylphenol	108	4.822	4.822	0.000	95	612054	12.5	14.4	
	34 Acetophenone	105	4.828	4.828	0.000	89	939430	12.5	13.6	
	35 N-Nitrosodi-n-propylamine	70	4.828	4.828	0.000	80	524458	12.5	13.4	
	37 N-Nitrosomorpholine	56	4.846	4.846	0.000	93	481118	12.5	13.1	
	38 2-Toluidine	106	4.863	4.863	0.000	96	980895	12.5	13.2	
	40 Hexachloroethane	117	4.940	4.940	0.000	94	252141	12.5	12.7	
$	41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1439011	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
42 Nitrobenzene	77	4.999	4.999	0.000	91	697641	12.5	12.4	
43 N-Nitrosopiperidine	114	5.146	5.146	0.000	80	331578	12.5	12.0	
45 Isophorone	82	5.234	5.234	0.000	99	1364402	12.5	12.5	
46 2-Nitrophenol	139	5.310	5.310	0.000	96	256865	12.5	14.7	
48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	672424	12.5	13.1	
49 o,o',o''-Triethylphosphorothioat	198	5.422	5.422	0.000	89	349515	12.5	12.1	
51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	850530	12.5	12.5	
52 2,4-Dichlorophenol	162	5.551	5.551	0.000	95	519877	12.5	13.5	
53 1,2,4-Trichlorobenzene	180	5.640	5.640	0.000	94	607282	12.5	12.3	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	732906	5.00	5.00	
55 Naphthalene	128	5.716	5.716	0.000	98	1936766	12.5	12.9	
29 Alpha-Terpineol	59	5.728	5.728	0.000	94	640907	12.5	13.4	
57 4-Chloroaniline	127	5.763	5.763	0.000	95	873883	12.5	13.3	
58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	518262	12.5	13.5	
59 Hexachloropropene	213	5.804	5.804	0.000	89	351556	12.5	11.5	
60 Hexachlorobutadiene	225	5.840	5.840	0.000	95	365082	12.5	12.5	
62 Quinoline	129	6.045	6.045	0.000	96	1362776	12.5	12.2	
63 Caprolactam	113	6.087	6.087	0.000	75	211151	12.5	12.8	
64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	545442	12.5	12.1	
39 p-Phenylene diamine	108	6.116	6.116	0.000	95	691478	12.5	11.2	
66 4-Chloro-3-methylphenol	107	6.251	6.251	0.000	97	635486	12.5	14.1	
67 Safrole, Total	162	6.322	6.322	0.000	90	527759	12.5	12.2	
68 2-Methylnaphthalene	142	6.404	6.404	0.000	91	1263304	12.5	12.9	
69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	1326118	12.5	13.0	
71 Hexachlorocyclopentadiene	237	6.563	6.563	0.000	95	407079	12.5	11.0	
72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	98	689730	12.5	11.7	
73 Isosafrole Peak 1	162	6.610	6.610	0.000	89	93034	2.00	1.67	
74 2,4,6-Trichlorophenol	196	6.681	6.681	0.000	76	401145	12.5	13.5	
75 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	95	498042	12.5	12.9	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	3437939	25.0	25.7	
77 Isosafrole Peak 2	162	6.834	6.834	0.000	91	561983	10.5	9.96	
78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	1790679	12.5	12.3	
79 2-Chloronaphthalene	162	6.887	6.887	0.000	97	1417553	12.5	11.8	
80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	1306678	12.5	12.3	
81 Phenyl ether	170	6.975	6.975	0.000	90	1007724	12.5	12.0	
82 2-Nitroaniline	138	6.987	6.987	0.000	87	441248	12.5	13.7	
84 1,4-Naphthoquinone	158	7.063	7.063	0.000	90	565169	12.5	12.2	
85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	210458	12.5	15.6	
86 Dimethyl phthalate	163	7.175	7.175	0.000	99	1762657	12.5	12.8	
87 1,3-Dinitrobenzene	168	7.192	7.192	0.000	83	251741	12.5	14.5	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	94	356203	12.5	13.5	
89 Acenaphthylene	152	7.298	7.298	0.000	98	2264619	12.5	12.4	
90 3-Nitroaniline	138	7.392	7.392	0.000	94	424490	12.5	14.1	
* 91 Acenaphthene-d10	164	7.440	7.440	0.000	94	495411	5.00	5.00	
93 Acenaphthene	153	7.469	7.469	0.000	96	1500775	12.5	12.2	
94 2,4-Dinitrophenol	184	7.492	7.492	0.000	83	271970	25.0	45.0	
95 4-Nitrophenol	109	7.557	7.557	0.000	96	520660	25.0	31.8	
96 Pentachlorobenzene	250	7.598	7.598	0.000	98	655846	12.5	11.5	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	499764	12.5	14.3	
97 Dibenzofuran	168	7.640	7.640	0.000	96	2136624	12.5	12.4	
99 1-Naphthylamine	143	7.716	7.716	0.000	99	1543768	12.5	12.7	
101 2,3,4,6-Tetrachlorophenol	232	7.763	7.763	0.000	73	425087	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.792	7.792	0.000	97	1608291	12.5	12.1	
104 Diethyl phthalate	149	7.875	7.875	0.000	98	1823262	12.5	13.1	
106 Thionazin	107	7.951	7.951	0.000	80	275491	12.5	12.8	
105 Fluorene	166	7.981	7.981	0.000	93	1803009	12.5	12.6	
108 4-Chlorophenyl phenyl ether	204	7.981	7.981	0.000	86	875641	12.5	12.5	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	88	474811	12.5	13.5	
109 4-Nitroaniline	138	7.992	7.992	0.000	82	496023	12.5	14.8	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	0.000	81	484537	25.0	42.0	
111 N-Nitrosodiphenylamine	169	8.098	8.098	0.000	64	1320261	10.6	10.9	
112 1,2-Diphenylhydrazine	77	8.139	8.139	0.000	99	1928148	12.5	12.8	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	618531	25.0	29.8	
114 Sulfotepp	97	8.257	8.257	0.000	80	309921	12.5	12.6	
172 1,3,5-Trinitrobenzene	213	8.345	8.345	0.000	85	187440	12.5	16.9	
115 cis-Diallate	86	8.387	8.387	0.000	94	535563	9.25	9.24	
116 Phorate	75	8.392	8.392	0.000	95	1157595	12.5	12.8	
117 Phenacetin	108	8.398	8.398	0.000	94	933688	12.5	13.7	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	67	544874	12.5	12.1	
119 trans-Diallate	86	8.475	8.475	0.000	88	187050	3.25	2.88	
120 Hexachlorobenzene	284	8.516	8.516	0.000	96	647172	12.5	12.0	
121 Dimethoate	87	8.551	8.551	0.000	95	717732	12.5	12.5	
122 Atrazine	200	8.622	8.622	0.000	92	526434	12.5	12.3	
123 Pentachlorophenol	266	8.716	8.716	0.000	93	679916	25.0	26.9	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	2032331	12.5	11.7	
124 Pentachloronitrobenzene	237	8.728	8.728	0.000	87	239444	12.5	12.8	
126 Pronamide	173	8.775	8.775	0.000	91	871516	12.5	12.7	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	1017418	5.00	5.00	
128 Dinoseb	211	8.898	8.898	0.000	96	322446	12.5	21.2	
70 Disulfoton	88	8.910	8.910	0.000	97	1131922	12.5	12.5	
129 Phenanthrene	178	8.922	8.922	0.000	98	2813042	12.5	12.4	
130 Anthracene	178	8.975	8.975	0.000	97	2866419	12.5	12.9	
S 56 Dinitrotoluene	165				0		25.0	27.7	
131 Carbazole	167	9.134	9.134	0.000	96	2805640	12.5	13.5	
132 Methyl parathion	109	9.269	9.269	0.000	94	568773	12.5	14.5	
133 Di-n-butyl phthalate	149	9.481	9.481	0.000	100	3090815	12.5	13.9	
S 65 Diallate	86				0		12.5	12.1	
134 Ethyl Parathion	109	9.657	9.657	0.000	85	348228	12.5	14.2	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	93	270121	12.5	14.2	
136 Octachlorostyrene	308	9.904	9.904	0.000	92	278875	12.5	12.5	
137 Isodrin	193	9.945	9.945	0.000	93	338810	12.5	11.9	
138 Fluoranthene	202	10.092	10.092	0.000	97	3357939	12.5	13.3	
139 Benzidine	184	10.228	10.228	0.000	99	7544743	37.5	43.2	e
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1189888	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	3574524	12.5	12.3	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	5333179	25.0	27.6	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	94	680171	12.5	12.9	
144 Chlorobenzilate	139	10.686	10.686	0.000	90	987776	12.5	13.4	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2069144	12.5	11.8	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	98	1585788	12.5	14.8	
147 2-Acetylaminofluorene	181	11.304	11.304	0.000	94	1337816	12.5	13.4	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	76	1641762	12.5	15.0	
150 4,4'-Methylene bis(2-chloroani	231	11.680	11.680	0.000	96	759918	12.5	13.5	
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	3943476	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.751	11.751	0.000	96	3768091	12.5	13.7	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	97	2370039	12.5	14.5	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	2684530	12.5	13.6	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	3640951	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	88	1661122	12.5	12.1	
155 Benzo[b]fluoranthene	252	13.198	13.198	0.000	97	4173160	12.5	13.0	
157 Benzo[k]fluoranthene	252	13.233	13.233	0.000	99	4294061	12.5	13.4	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	76	3841922	12.5	13.5	
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1294254	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	1921418	12.5	13.3	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	89	2999135	12.5	13.7	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	3454810	12.5	15.4	
163 Indeno[1,2,3-cd]pyrene	276	15.451	15.451	0.000	98	3713197	12.5	14.2	M
164 Dibenz(a,h)anthracene	278	15.504	15.504	0.000	92	3975417	12.5	15.1	
165 Benzo[g,h,i]perylene	276	15.945	15.945	0.000	98	3818639	12.5	14.5	
S 166 Isosafrole	162				0		12.5	11.6	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 08-Jul-2025 21:33:46 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0851.D

Injection Date: 08-Jul-2025 20:38:30 Instrument ID: HP18831 Operator ID: kel10217

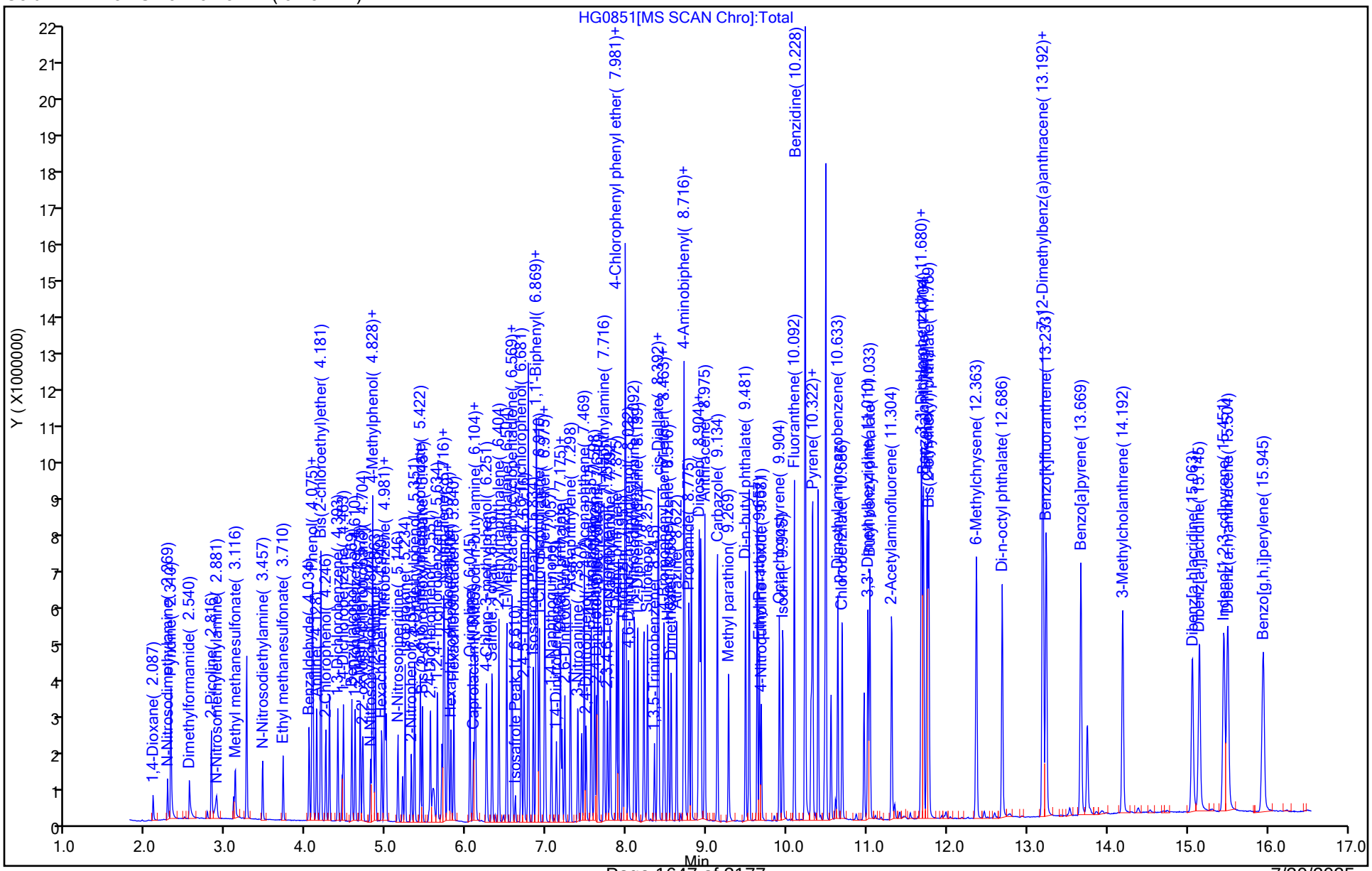
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

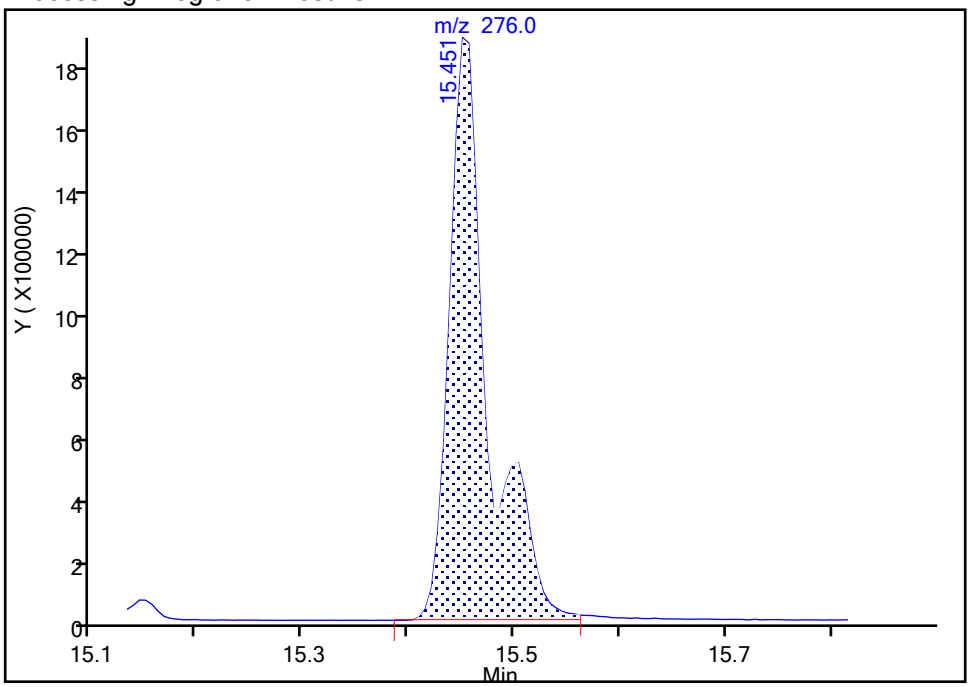
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0851.D				
Injection Date:	08-Jul-2025 20:38:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

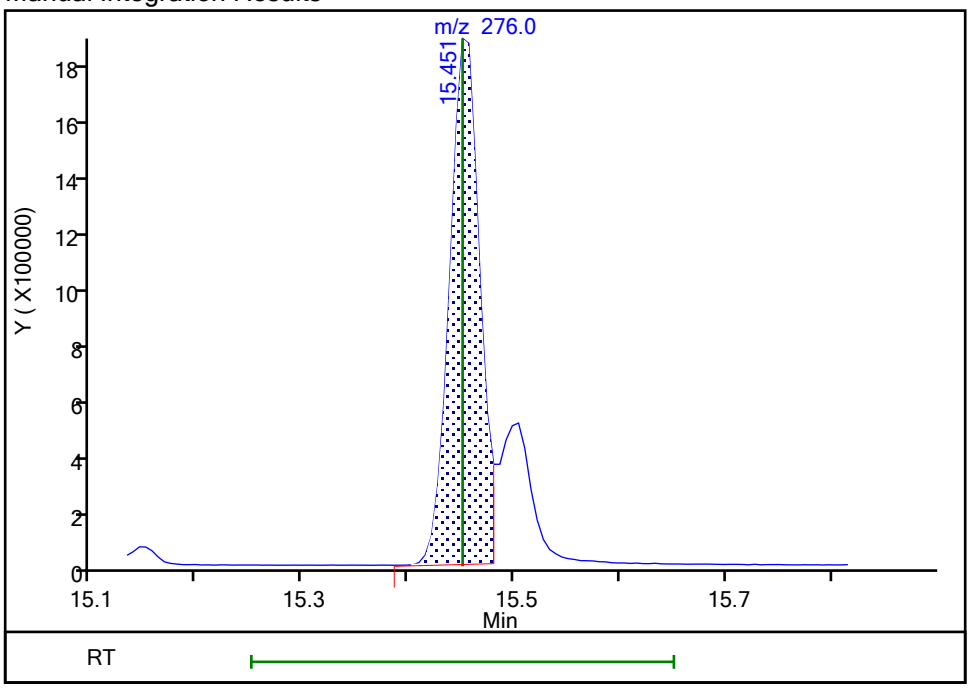
Processing Integration Results

RT: 15.45
Area: 4807989
Amount: 18.376285
Amount Units: ug/ml



Manual Integration Results

RT: 15.45
Area: 3713197
Amount: 14.191956
Amount Units: ug/ml



Reviewer: SJ89, 08-Jul-2025 20:59:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.5352		12.8	12.5	2.2	20.0
N-Nitrosodimethylamine	Ave	0.9111	0.8906		12.2	12.5	-2.3	20.0
Pyridine	Ave	1.449	1.417		24.5	25.0	-2.2	20.0
N,N-dimethylformamide	Ave	0.9936	1.081			12.5	8.8	20.0
2-Picoline	Ave	1.495	1.594		13.3	12.5	6.6	20.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6576		12.2	12.5	-2.7	20.0
Methyl methanesulfonate	Ave	0.8412	0.8432		12.5	12.5	0.2	20.0
N-Nitrosodiethylamine	Ave	0.6682	0.6762		12.6	12.5	1.2	20.0
Ethyl methanesulfonate	Ave	0.7584	0.7389		12.2	12.5	-2.6	20.0
Benzaldehyde	Ave	1.272	1.009	0.0100	9.92	12.5	-20.7*	20.0
Phenol	Ave	1.768	1.911	0.8000	13.5	12.5	8.0	20.0
Aniline	Ave	2.205	2.341		13.3	12.5	6.2	20.0
Bis(2-chloroethyl)ether	Ave	1.435	1.500	0.7000	13.1	12.5	4.5	20.0
2-Chlorophenol	Ave	1.293	1.386	0.8000	13.4	12.5	7.2	20.0
1,3-Dichlorobenzene	Ave	1.476	1.489		12.6	12.5	0.9	20.0
1,4-Dichlorobenzene	Ave	1.533	1.516		12.4	12.5	-1.1	20.0
Benzyl alcohol	Ave	0.9501	0.9809		12.9	12.5	3.2	20.0
1,2-Dichlorobenzene	Ave	1.451	1.496		12.9	12.5	3.1	20.0
2-Methylphenol	Ave	1.284	1.386	0.7000	13.5	12.5	8.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.563	0.0100	13.5	12.5	8.4	20.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8222		12.8	12.5	2.2	20.0
3,4-Methylphenol	Ave	1.329	1.481	0.6000	13.9	12.5	11.4	20.0
Acetophenone	Ave	2.160	2.270	0.0100	13.1	12.5	5.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.285	0.5000	13.2	12.5	5.3	20.0
N-Nitrosomorpholine	Ave	1.146	1.193		13.0	12.5	4.1	20.0
2-Toluidine	Ave	2.316	2.350		12.7	12.5	1.5	20.0
Hexachloroethane	Ave	0.6187	0.6256	0.3000	12.6	12.5	1.1	20.0
Nitrobenzene	Ave	0.3849	0.4030	0.2000	13.1	12.5	4.7	20.0
N-Nitrosopiperidine	Ave	0.1890	0.1868		12.4	12.5	-1.1	20.0
Isophorone	Ave	0.7472	0.7679	0.4000	12.8	12.5	2.8	20.0
2-Nitrophenol	Ave	0.1189	0.1630	0.1000	17.1	12.5	37.1*	20.0
2,4-Dimethylphenol	Ave	0.3495	0.3701	0.2000	13.2	12.5	5.9	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1974		12.5	12.5	0.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4796	0.3000	13.0	12.5	3.6	20.0
2,4-Dichlorophenol	Ave	0.2634	0.2924	0.2000	13.9	12.5	11.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3338		12.4	12.5	-0.9	20.0
Naphthalene	Ave	1.027	1.050	0.7000	12.8	12.5	2.3	20.0
a-Terpineol	Ave	0.3263	0.3693		14.1	12.5	13.2	20.0
4-Chloroaniline	Ave	0.4491	0.4771	0.0100	13.3	12.5	6.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2896		13.8	12.5	10.4	20.0
Hexachloropropene	Ave	0.2086	0.1997		12.0	12.5	-4.2	20.0
Hexachlorobutadiene	Ave	0.1985	0.1965	0.0100	12.4	12.5	-1.0	20.0
Quinoline	Ave	0.7634	0.7400		12.1	12.5	-3.1	20.0
Caprolactam	Ave	0.1121	0.1150	0.0100	12.8	12.5	2.5	20.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.3673		14.9	12.5	19.0	20.0
1,4-phenylenediamine	Ave	0.4225	0.3422			12.5	-19.0	20.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3430	0.2000	14.0	12.5	11.9	20.0
Safrole, Total	Ave	0.2945	0.2871		12.2	12.5	-2.5	20.0
2-Methylnaphthalene	Ave	0.6681	0.6841	0.4000	12.8	12.5	2.4	20.0
1-Methylnaphthalene	Ave	0.6939	0.7038		12.7	12.5	1.4	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3597	0.0500	12.0	12.5	-3.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5636	0.0100	11.9	12.5	-5.2	20.0
Isosafrole Peak 1	Ave	0.5631	0.4905		1.74	2.00	-12.9	20.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3486	0.2000	14.5	12.5	16.4	20.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4127	0.2000	13.3	12.5	6.1	20.0
Isosafrole Peak 2	Ave	0.5697	0.5413		9.98	10.5	-5.0	20.0
1,1'-Biphenyl	Ave	1.473	1.437	0.0100	12.2	12.5	-2.4	20.0
2-Chloronaphthalene	Ave	1.212	1.116	0.8000	11.5	12.5	-8.0	20.0
1-Chloronaphthalene	Ave	1.070	1.051		12.3	12.5	-1.8	20.0
Diphenyl ether	Ave	0.8444	0.8157		12.1	12.5	-3.4	20.0
2-Nitroaniline	Ave	0.3247	0.3686	0.0100	14.2	12.5	13.5	20.0
1,4-Naphthoquinone	Ave	0.4673	0.4558			12.5	-2.5	20.0
1,4-Dinitrobenzene	Ave	0.1362	0.1846		16.9	12.5	35.5*	20.0
Dimethyl phthalate	Ave	1.394	1.440	0.0100	12.9	12.5	3.3	20.0
1,3-Dinitrobenzene	Ave	0.1757	0.2158		15.4	12.5	22.8*	20.0
2,6-Dinitrotoluene	Ave	0.2673	0.2993	0.2000	14.0	12.5	12.0	20.0
Acenaphthylene	Ave	1.837	1.832	0.9000	12.5	12.5	-0.3	20.0
3-Nitroaniline	Ave	0.3037	0.3413	0.0100	14.0	12.5	12.4	20.0
Acenaphthene	Ave	1.243	1.193	0.9000	12.0	12.5	-4.0	20.0
2,4-Dinitrophenol	Ave	0.0610	0.1438	0.0100	58.9	25.0	135.7*	20.0
4-Nitrophenol	Ave	0.1653	0.1915	0.0100	29.0	25.0	15.9	20.0
Pentachlorobenzene	Ave	0.5739	0.5264		11.5	12.5	-8.3	20.0
2,4-Dinitrotoluene	Ave	0.3532	0.4213	0.2000	14.9	12.5	19.3	20.0
Dibenzofuran	Ave	1.746	1.714	0.8000	12.3	12.5	-1.8	20.0
1-Naphthylamine	Ave	1.227	1.227		12.5	12.5	-0.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3414	0.0100	12.8	12.5	2.5	20.0
2-Naphthylamine	Ave	1.337	1.237		11.6	12.5	-7.5	20.0
Diethyl phthalate	Ave	1.402	1.494	0.0100	13.3	12.5	6.6	20.0
Thionazin	Ave	0.2174	0.2201		12.7	12.5	1.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl phenyl ether	Ave	0.7087	0.6889	0.4000	12.1	12.5	-2.8	20.0
Fluorene	Ave	1.439	1.431	0.9000	12.4	12.5	-0.5	20.0
5-Nitro-o-toluidine	Ave	0.3560	0.3855		13.5	12.5	8.3	20.0
4-Nitroaniline	Ave	0.3391	0.3792	0.0100	14.0	12.5	11.8	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.1090	0.0100	46.7	25.0	86.8*	20.0
N-Nitrosodiphenylamine	Ave	0.5943	0.6019	0.0100	10.8	10.6	1.3	20.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7642		12.9	12.5	3.5	20.0
Sulfotepp	Ave	0.1209	0.1227		12.7	12.5	1.5	20.0
1,3,5-Trinitrobenzene	Qua2		0.0738			12.5	35.6*	20.0
cis-Diallate	Ave	0.2849	0.2925		9.50	9.25	2.7	20.0
Phorate	Ave	0.4442	0.4786		13.5	12.5	7.7	20.0
Phenacetin	Ave	0.3359	0.3595		13.4	12.5	7.0	20.0
4-Bromophenyl phenyl ether	Ave	0.2218	0.2129	0.1000	12.0	12.5	-4.0	20.0
trans-Diallate	Ave	0.3197	0.2960		3.01	3.25	-7.4	20.0
Hexachlorobenzene	Ave	0.2657	0.2449	0.1000	11.5	12.5	-7.8	20.0
Dimethoate	Lin1		0.2864		12.7	12.5	1.6	20.0
Atrazine	Ave	0.2108	0.2067	0.0100	12.3	12.5	-2.0	20.0
4-Aminobiphenyl	Ave	0.8505	0.7798		11.5	12.5	-8.3	20.0
Pentachlorophenol	Lin1		0.1353	0.0500	27.3	25.0	9.0	20.0
Pentachloronitrobenzene	Ave	0.0920	0.0959		13.0	12.5	4.2	20.0
Pronamide	Ave	0.3380	0.3366		12.4	12.5	-0.4	20.0
Dinoseb	Ave	0.0748	0.1505		25.1	12.5	101.1*	20.0
Disulfoton	Lin2		0.4575			12.5	2.8	20.0
Phenanthrene	Ave	1.114	1.062	0.7000	11.9	12.5	-4.7	20.0
Anthracene	Ave	1.093	1.093	0.7000	12.5	12.5	-0.0	20.0
Carbazole	Ave	1.023	1.036	0.0100	12.6	12.5	1.2	20.0
Methyl parathion	Ave	0.1925	0.2351		15.3	12.5	22.1*	20.0
Di-n-butyl phthalate	Ave	1.096	1.212	0.0100	13.8	12.5	10.6	20.0
Parathion	Ave	0.1208	0.1396		14.4	12.5	15.5	20.0
4-Nitroquinoline-1-oxide	Qua2		0.1089			12.5	16.3	20.0
Octachlorostyrene	Ave	0.1097	0.1044		11.9	12.5	-4.9	20.0
Isodrin	Ave	0.1396	0.1260		11.3	12.5	-9.7	20.0
Fluoranthene	Ave	1.244	1.244	0.6000	12.5	12.5	0.0	20.0
Benzidine	Ave	0.7336	0.7350		37.6	37.5	0.2	20.0
Pyrene	Ave	1.226	1.210	0.6000	12.3	12.5	-1.3	20.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2321		13.1	12.5	4.6	20.0
Chlorobenzilate	Ave	0.3103	0.3356		13.5	12.5	8.1	20.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.6443			12.5	-12.6	20.0
Butyl benzyl phthalate	Ave	0.4497	0.5255	0.0100	14.6	12.5	16.8	20.0
2-Acetylaminofluorene	Ave	0.4183	0.4228		12.6	12.5	1.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5228	0.0100	14.2	12.5	13.6	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2402			12.5	1.3	20.0
Benzo[a]anthracene	Ave	1.193	1.262	0.8000	13.2	12.5	5.8	20.0
Chrysene	Ave	1.157	1.211	0.7000	13.1	12.5	4.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7836	0.0100	14.3	12.5	14.3	20.0
6-Methylchrysene	Ave	0.8284	0.8708		13.1	12.5	5.1	20.0
Di-n-octyl phthalate	Lin2		1.197	0.0100	13.2	12.5	5.9	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5356		12.6	12.5	1.2	20.0
Benzo[b]fluoranthene	Ave	1.242	1.244	0.7000	12.5	12.5	0.2	20.0
Benzo[k]fluoranthene	Ave	1.234	1.349	0.7000	13.7	12.5	9.4	20.0
Benzo[a]pyrene	Ave	1.103	1.152	0.7000	13.0	12.5	4.4	20.0
3-Methylcholanthrene	Ave	0.5600	0.6029		13.5	12.5	7.7	20.0
Dibenz[a,h]acridine	Ave	0.8479	0.8891		13.1	12.5	4.9	20.0
Dibenz[a,j]acridine	Ave	0.8670	0.9913		14.3	12.5	14.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.107	0.5000	13.7	12.5	9.5	20.0
Dibenz(a,h)anthracene	Ave	1.019	1.122	0.4000	13.8	12.5	10.1	20.0
Benzo[g,h,i]perylene	Ave	1.014	1.100	0.5000	13.6	12.5	8.5	20.0
2-Fluorophenol (Surr)	Ave	1.193	1.317		27.6	25.0	10.4	20.0
Phenol-d5 (Surr)	Ave	1.660	1.907		28.7	25.0	14.9	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.4114		28.8	25.0	15.4	20.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.385		25.7	25.0	2.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2459		29.3	25.0	17.3	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.8813		27.1	25.0	8.5	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jul-2025 09:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: eea115318_kel10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:15:47 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: RN6U Date: 09-Jul-2025 10:11:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.093	2.093	0.000	98	355600	12.5	12.8	
	2 N-Nitrosodimethylamine	74	2.269	2.269	0.000	90	591749	12.5	12.2	M
	3 Pyridine	79	2.310	2.310	0.000	89	1882857	25.0	24.5	
	4 Dimethylformamide	73	2.540	2.540	0.000	94	718028	12.5	13.6	
	5 2-Picoline	93	2.816	2.816	0.000	96	1058953	12.5	13.3	
	6 N-Nitrosomethylethylamine	88	2.881	2.881	0.000	95	436906	12.5	12.2	
	9 Methyl methanesulfonate	80	3.116	3.116	0.000	87	560248	12.5	12.5	
$	10 2-Fluorophenol	112	3.257	3.257	0.000	95	1750680	25.0	27.6	
	11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	449299	12.5	12.6	
	13 Ethyl methanesulfonate	109	3.710	3.710	0.000	98	490978	12.5	12.2	
	15 Benzaldehyde	77	4.034	4.034	0.000	94	670370	12.5	9.92	
$	16 Phenol-d5	99	4.075	4.075	0.000	97	2534536	25.0	28.7	
	17 Phenol	94	4.087	4.087	0.000	99	1269451	12.5	13.5	
	18 Aniline	93	4.128	4.128	0.000	96	1555730	12.5	13.3	
	19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	92	996410	12.5	13.1	
	20 2-Chlorophenol	128	4.246	4.246	0.000	98	920733	12.5	13.4	
	22 1,3-Dichlorobenzene	146	4.393	4.393	0.000	97	989556	12.5	12.6	
*	23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	265771	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	91	1007397	12.5	12.4	
	26 Benzyl alcohol	108	4.569	4.569	0.000	90	651719	12.5	12.9	
	27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	994044	12.5	12.9	
	30 2-Methylphenol	108	4.675	4.675	0.000	97	920925	12.5	13.5	a
	32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	1703146	12.5	13.5	
	33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	85	546284	12.5	12.8	
	36 4-Methylphenol	108	4.822	4.822	0.000	97	983772	12.5	13.9	a
	34 Acetophenone	105	4.834	4.834	0.000	88	1508459	12.5	13.1	
	35 N-Nitrosodi-n-propylamine	70	4.834	4.834	0.000	91	854000	12.5	13.2	
	37 N-Nitrosomorpholine	56	4.846	4.846	0.000	93	792818	12.5	13.0	
	38 2-Toluidine	106	4.863	4.863	0.000	96	1561564	12.5	12.7	
	40 Hexachloroethane	117	4.940	4.940	0.000	95	415660	12.5	12.6	
$	41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	2361742	25.0	28.8	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	42 Nitrobenzene	77	4.999	4.999	0.000	91	1156744	12.5	13.1	
	43 N-Nitrosopiperidine	114	5.146	5.146	0.000	81	536334	12.5	12.4	
	45 Isophorone	82	5.234	5.234	0.000	99	2204244	12.5	12.8	
	46 2-Nitrophenol	139	5.310	5.310	0.000	96	468020	12.5	17.1	
	48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	1062521	12.5	13.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.428	5.428	0.000	84	566569	12.5	12.5	
	51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	1376681	12.5	13.0	
	52 2,4-Dichlorophenol	162	5.551	5.551	0.000	96	839416	12.5	13.9	
	53 1,2,4-Trichlorobenzene	180	5.634	5.634	0.000	94	958102	12.5	12.4	
*	54 Naphthalene-d8	136	5.693	5.693	0.000	99	1148231	5.00	5.00	
	55 Naphthalene	128	5.716	5.716	0.000	98	3013797	12.5	12.8	
	29 Alpha-Terpineol	59	5.728	5.728	0.000	93	1059976	12.5	14.1	
	57 4-Chloroaniline	127	5.763	5.763	0.000	96	1369452	12.5	13.3	
	58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	831310	12.5	13.8	
	59 Hexachloropropene	213	5.804	5.804	0.000	89	573292	12.5	12.0	
	60 Hexachlorobutadiene	225	5.840	5.840	0.000	96	564044	12.5	12.4	
	62 Quinoline	129	6.046	6.046	0.000	96	2124122	12.5	12.1	
	63 Caprolactam	113	6.093	6.093	0.000	72	329977	12.5	12.8	
	64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	1054494	12.5	14.9	
	39 p-Phenylene diamine	108	6.116	6.116	0.000	95	982213	12.5	10.1	
	66 4-Chloro-3-methylphenol	107	6.251	6.251	0.000	97	984590	12.5	14.0	
	67 Safrole, Total	162	6.322	6.322	0.000	91	824232	12.5	12.2	
	68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	1963749	12.5	12.8	
	69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	2020312	12.5	12.7	
	71 Hexachlorocyclopentadiene	237	6.563	6.563	0.000	95	685100	12.5	12.0	
	72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	97	1073477	12.5	11.9	
	73 Isosafrole Peak 1	162	6.610	6.610	0.000	90	149494	2.00	1.74	
	74 2,4,6-Trichlorophenol	196	6.681	6.681	0.000	92	663939	12.5	14.5	
	75 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	95	786041	12.5	13.3	
$	76 2-Fluorobiphenyl (Surr)	172	6.775	6.775	0.000	100	5276357	25.0	25.7	
	77 Isosafrole Peak 2	162	6.834	6.834	0.000	91	866132	10.5	9.98	
	78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	2736556	12.5	12.2	
	79 2-Chloronaphthalene	162	6.887	6.887	0.000	97	2124744	12.5	11.5	
	80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	2000963	12.5	12.3	
	81 Phenyl ether	170	6.975	6.975	0.000	91	1553745	12.5	12.1	
	82 2-Nitroaniline	138	6.987	6.987	0.000	80	702125	12.5	14.2	
	84 1,4-Naphthoquinone	158	7.063	7.063	0.000	90	868198	12.5	12.2	
	85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	351544	12.5	16.9	
	86 Dimethyl phthalate	163	7.175	7.175	0.000	99	2742374	12.5	12.9	
	87 1,3-Dinitrobenzene	168	7.193	7.193	0.000	84	411103	12.5	15.4	
	88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	570028	12.5	14.0	
	89 Acenaphthylene	152	7.298	7.298	0.000	98	3489315	12.5	12.5	
	90 3-Nitroaniline	138	7.393	7.393	0.000	93	650165	12.5	14.0	
*	91 Acenaphthene-d10	164	7.440	7.440	0.000	94	761884	5.00	5.00	
	93 Acenaphthene	153	7.469	7.469	0.000	95	2272580	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.492	7.492	0.000	82	547917	25.0	58.9	
	95 4-Nitrophenol	109	7.557	7.557	0.000	97	729496	25.0	29.0	
	96 Pentachlorobenzene	250	7.598	7.598	0.000	98	1002724	12.5	11.5	
	98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	802408	12.5	14.9	
	97 Dibenzofuran	168	7.640	7.640	0.000	96	3263787	12.5	12.3	
	99 1-Naphthylamine	143	7.716	7.716	0.000	99	2336785	12.5	12.5	
	101 2,3,4,6-Tetrachlorophenol	232	7.763	7.763	0.000	73	650285	12.5	12.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.792	7.792	0.000	97	2356098	12.5	11.6	
104 Diethyl phthalate	149	7.875	7.875	0.000	98	2846349	12.5	13.3	
106 Thionazin	107	7.951	7.951	0.000	80	419282	12.5	12.7	
105 Fluorene	166	7.981	7.981	0.000	93	2725077	12.5	12.4	
108 4-Chlorophenyl phenyl ether	204	7.981	7.981	0.000	91	1312080	12.5	12.1	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	93	734338	12.5	13.5	
109 4-Nitroaniline	138	7.992	7.992	0.000	80	722338	12.5	14.0	
110 4,6-Dinitro-2-methylphenol	198	8.028	8.028	0.000	87	842480	25.0	46.7	
111 N-Nitrosodiphenylamine	169	8.098	8.098	0.000	64	1977276	10.6	10.8	
112 1,2-Diphenylhydrazine	77	8.134	8.134	0.000	100	2953350	12.5	12.9	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	936727	25.0	29.3	
114 Sulfotepp	97	8.257	8.257	0.000	78	474260	12.5	12.7	
172 1,3,5-Trinitrobenzene	213	8.351	8.351	0.000	84	285052	12.5	16.9	
115 cis-Diallate	86	8.387	8.387	0.000	85	836550	9.25	9.50	
116 Phorate	75	8.392	8.392	0.000	96	1849766	12.5	13.5	
117 Phenacetin	108	8.398	8.398	0.000	93	1389453	12.5	13.4	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	69	822665	12.5	12.0	
119 trans-Diallate	86	8.475	8.475	0.000	87	297417	3.25	3.01	
120 Hexachlorobenzene	284	8.516	8.516	0.000	96	946617	12.5	11.5	
121 Dimethoate	87	8.557	8.557	0.000	95	1106778	12.5	12.7	
122 Atrazine	200	8.628	8.628	0.000	92	798729	12.5	12.3	
123 Pentachlorophenol	266	8.716	8.716	0.000	93	1045533	25.0	27.3	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	3013805	12.5	11.5	
124 Pentachloronitrobenzene	237	8.728	8.728	0.000	87	370528	12.5	13.0	
126 Pronamide	173	8.781	8.781	0.000	91	1300711	12.5	12.4	
128 Dinoseb	211	8.892	8.892	0.000	96	581806	12.5	25.1	
* 127 Phenanthrene-d10	188	8.904	8.904	0.000	97	1545877	5.00	5.00	
70 Disulfoton	88	8.910	8.910	0.000	97	1768050	12.5	12.9	
129 Phenanthrene	178	8.922	8.922	0.000	97	4103081	12.5	11.9	
130 Anthracene	178	8.975	8.975	0.000	97	4223454	12.5	12.5	
S 56 Dinitrotoluene	165				0		25.0	28.9	
131 Carbazole	167	9.134	9.134	0.000	96	4002286	12.5	12.6	
132 Methyl parathion	109	9.275	9.275	0.000	96	908748	12.5	15.3	
133 Di-n-butyl phthalate	149	9.481	9.481	0.000	100	4685008	12.5	13.8	
S 65 Diallate	86				0		12.5	12.5	
134 Ethyl Parathion	109	9.657	9.657	0.000	84	539488	12.5	14.4	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	94	421043	12.5	14.5	
136 Octachlorostyrene	308	9.904	9.904	0.000	93	403402	12.5	11.9	
137 Isodrin	193	9.951	9.951	0.000	94	486882	12.5	11.3	
138 Fluoranthene	202	10.092	10.092	0.000	98	4809208	12.5	12.5	
139 Benzidine	184	10.233	10.233	0.000	99	9210392	37.5	37.6	e
* 140 Pyrene-d10 (IS)	212	10.304	10.304	0.000	99	1670919	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	97	5052600	12.5	12.3	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	7362800	25.0	27.1	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	95	969469	12.5	13.1	
144 Chlorobenzilate	139	10.686	10.686	0.000	92	1402030	12.5	13.5	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2691389	12.5	10.9	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	98	2195227	12.5	14.6	
147 2-Acetylaminofluorene	181	11.310	11.310	0.000	94	1766053	12.5	12.6	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	76	2183735	12.5	14.2	
150 4,4'-Methylene bis(2-chloroani	231	11.686	11.686	0.000	95	1003325	12.5	12.7	
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	5273422	12.5	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.751	11.751	0.000	96	5058888	12.5	13.1	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	98	3273434	12.5	14.3	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	3637538	12.5	13.1	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	4993571	12.5	13.2	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	89	2233625	12.5	12.6	
155 Benzo[b]fluoranthene	252	13.198	13.198	0.000	97	5188338	12.5	12.5	
157 Benzo[k]fluoranthene	252	13.239	13.239	0.000	99	5627477	12.5	13.7	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	77	4802845	12.5	13.0	M
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1668151	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	2514486	12.5	13.5	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	90	3707710	12.5	13.1	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	4134095	12.5	14.3	
163 Indeno[1,2,3-cd]pyrene	276	15.457	15.457	0.000	99	4616002	12.5	13.7	M
164 Dibenz(a,h)anthracene	278	15.504	15.504	0.000	90	4679162	12.5	13.8	M
165 Benzo[g,h,i]perylene	276	15.945	15.945	0.000	98	4587823	12.5	13.6	
S 166 Isosafrole	162				0		12.5	11.7	

QC Flag Legend

Processing Flags
- e - Potential Peak Saturated

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

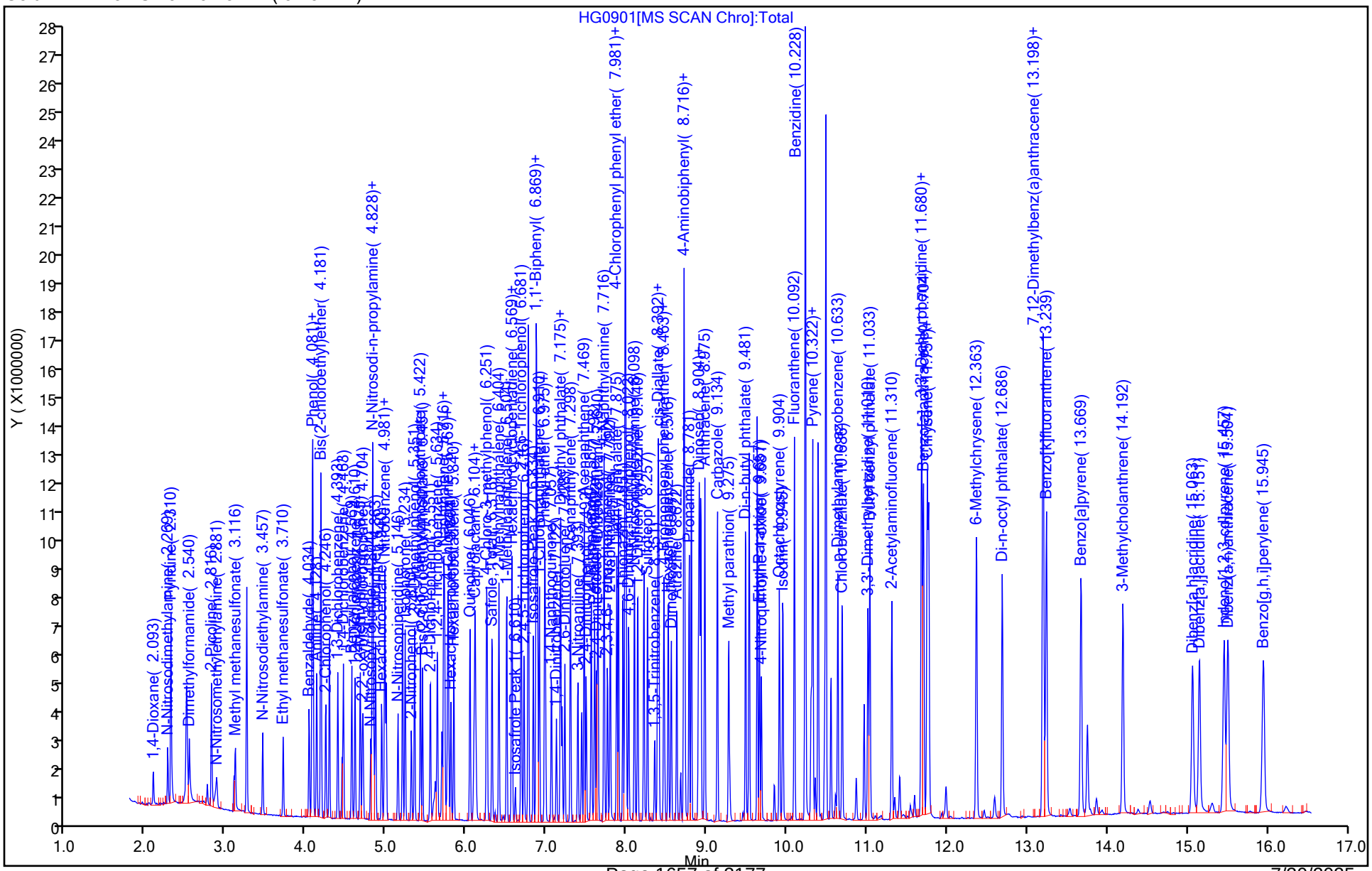
Report Date: 10-Jul-2025 13:15:48 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D

Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

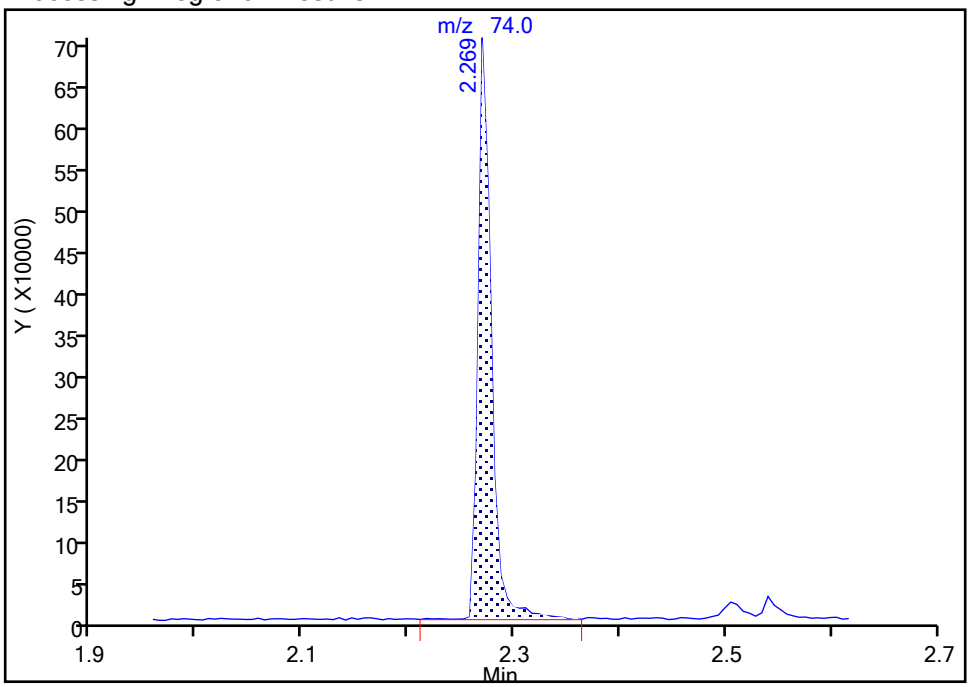
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

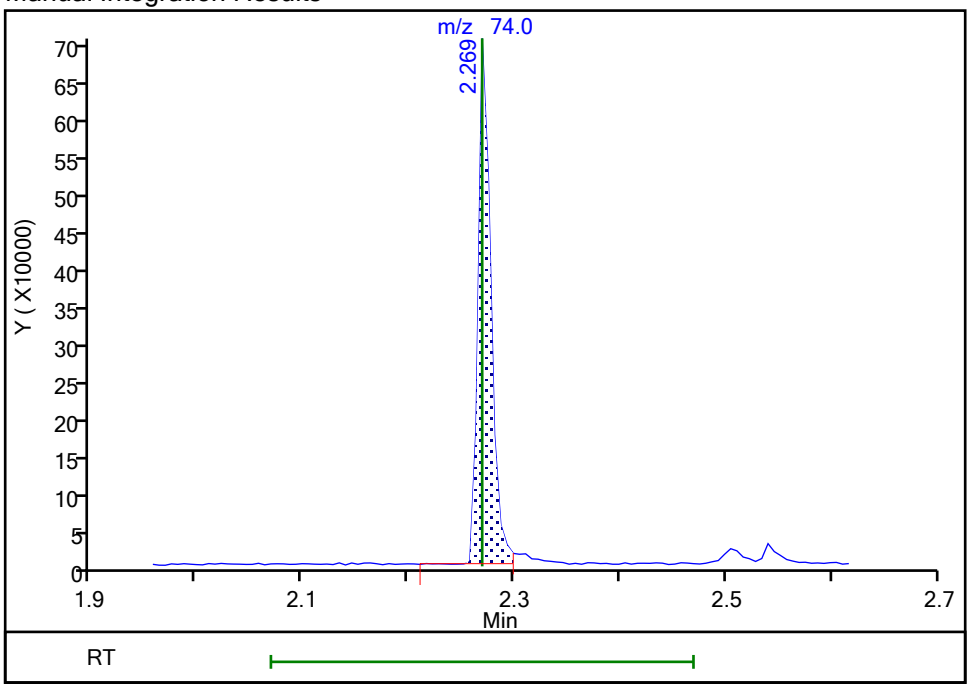
Processing Integration Results

RT: 2.27
Area: 617444
Amount: 12.749296
Amount Units: ug/ml



Manual Integration Results

RT: 2.27
Area: 591749
Amount: 12.218732
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 09:56:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

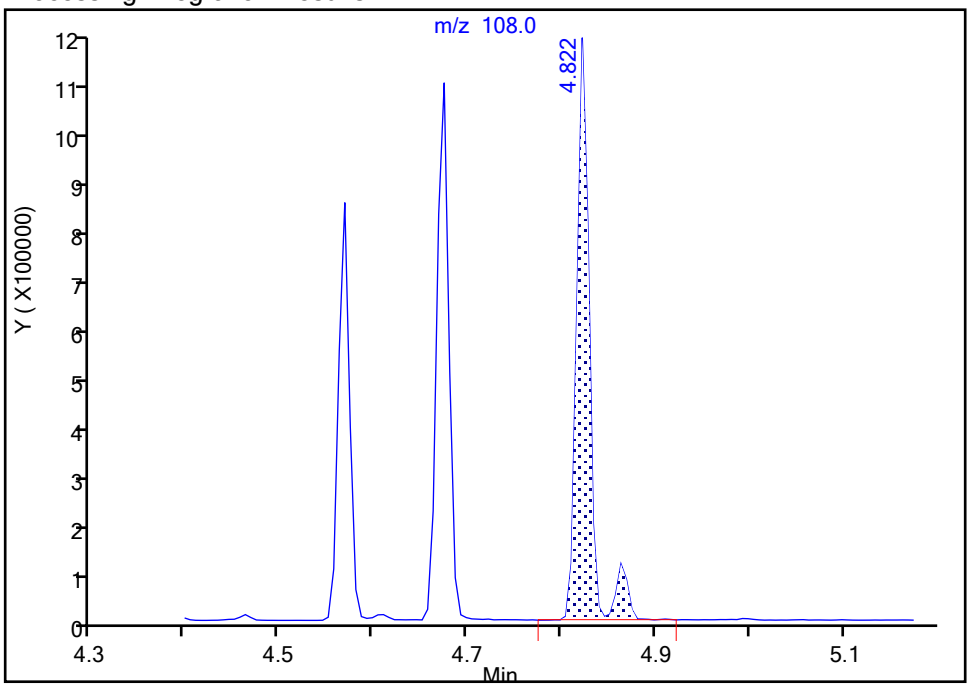
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 2-Methylphenol, CAS: 95-48-7

Signal: 1

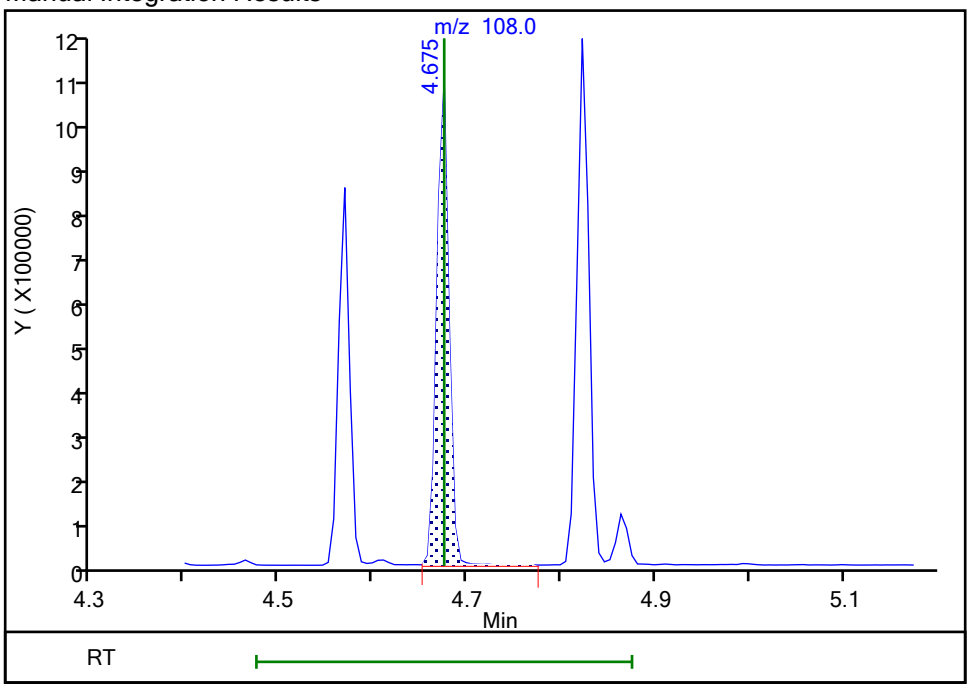
Processing Integration Results

RT: 4.82
Area: 1083924
Amount: 15.885740
Amount Units: ug/ml



Manual Integration Results

RT: 4.68
Area: 920925
Amount: 13.496864
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 09:57:58 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

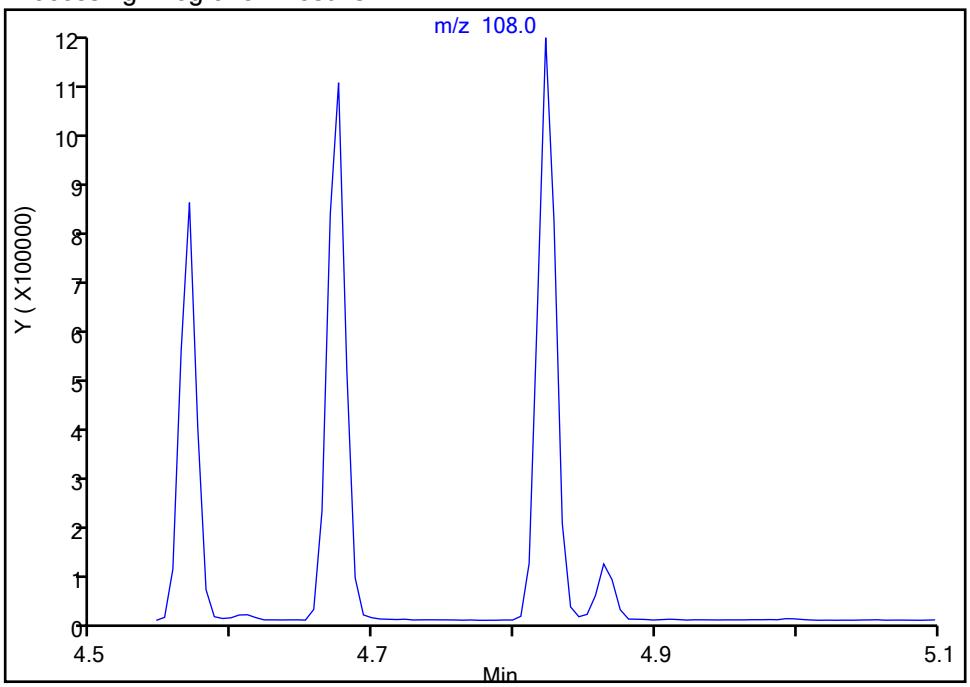
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

36 4-Methylphenol, CAS: 106-44-5

Signal: 1

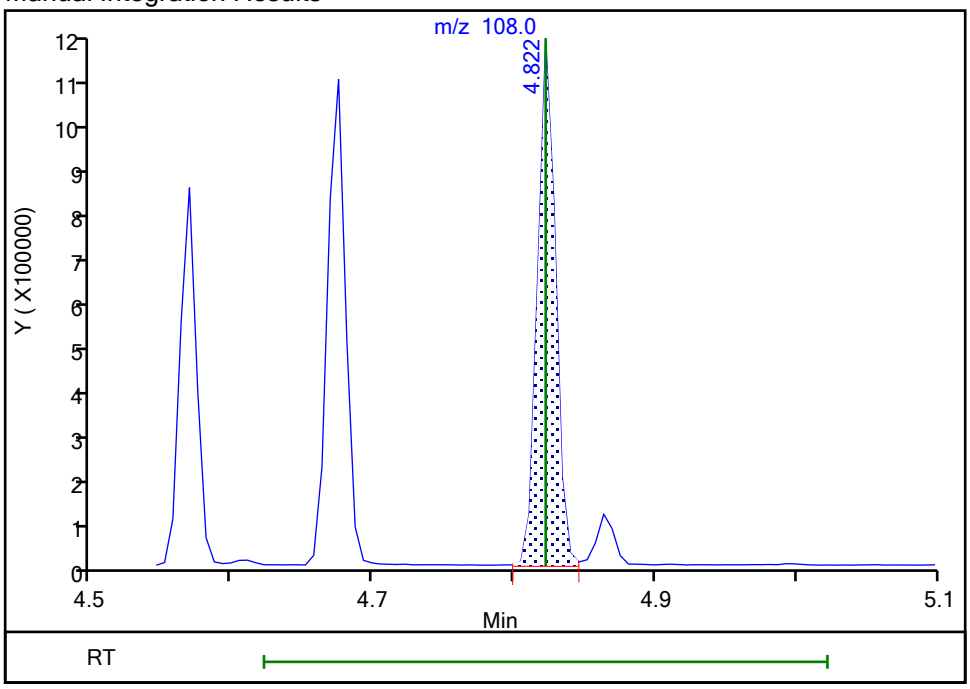
Not Detected
Expected RT: 4.82

Processing Integration Results



Manual Integration Results

RT: 4.82
Area: 983772
Amount: 13.925032
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 09:58:05 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

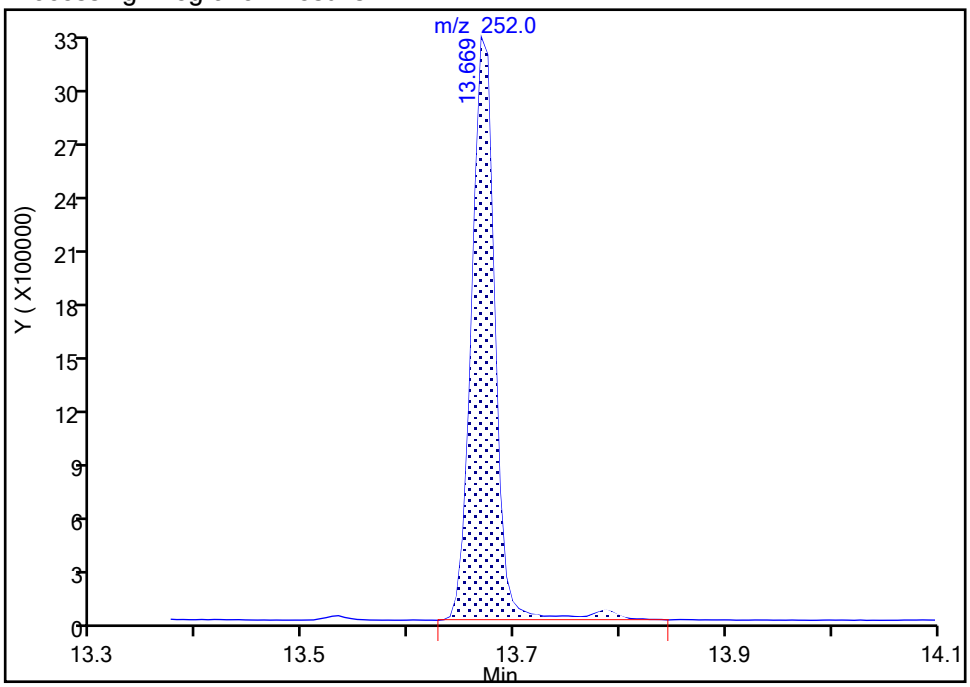
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

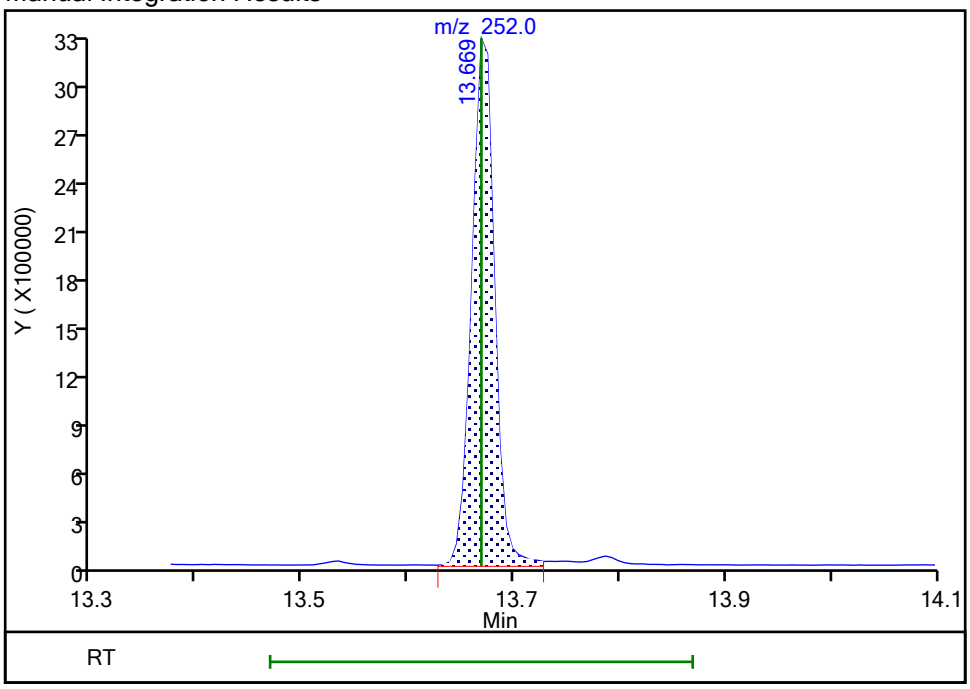
Processing Integration Results

RT: 13.67
Area: 4956536
Amount: 13.465102
Amount Units: ug/ml



Manual Integration Results

RT: 13.67
Area: 4802845
Amount: 13.047579
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 10:03:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

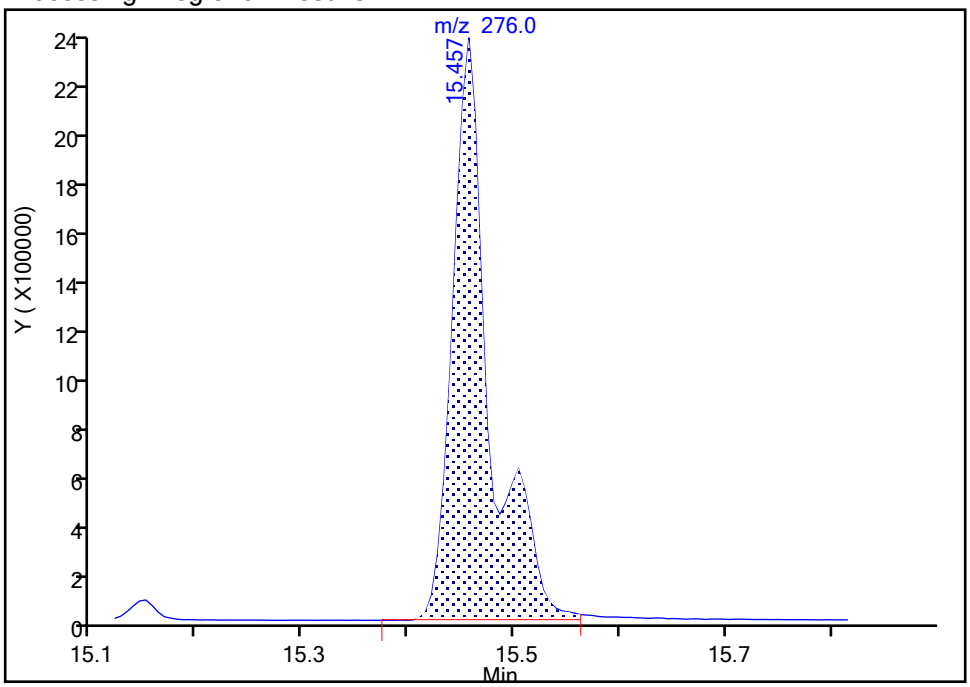
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

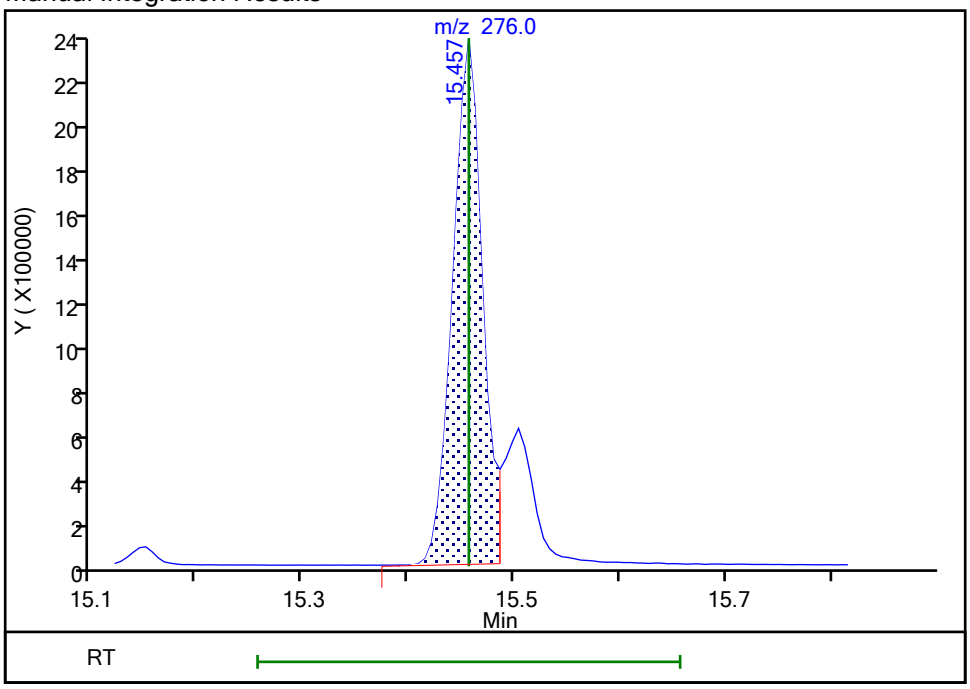
Processing Integration Results

RT: 15.46
Area: 5803977
Amount: 17.210920
Amount Units: ug/ml



Manual Integration Results

RT: 15.46
Area: 4616002
Amount: 13.688139
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 10:03:59 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

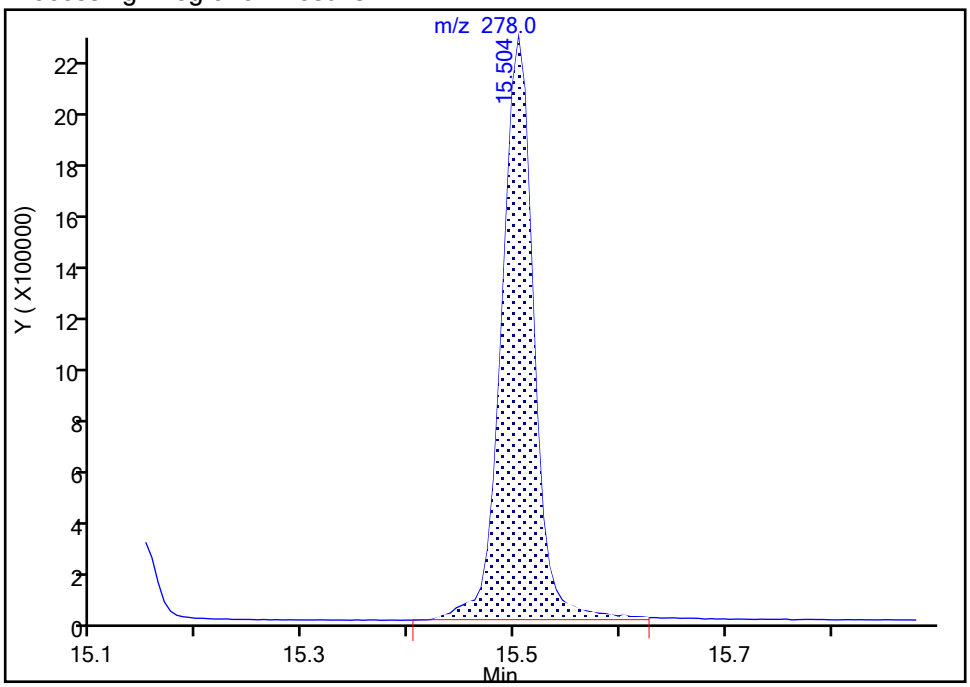
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

164 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

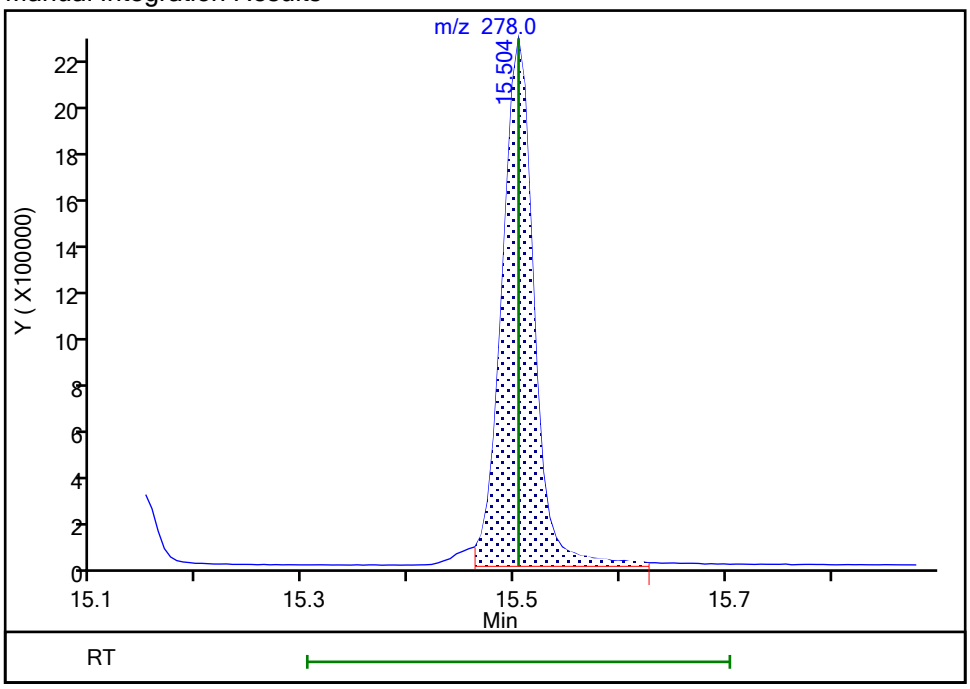
Processing Integration Results

RT: 15.50
Area: 4778304
Amount: 14.053821
Amount Units: ug/ml



Manual Integration Results

RT: 15.50
Area: 4679162
Amount: 13.762227
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 10:04:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 23-Jun-2025 19:52:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: IR93211 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:14:11 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: N5QU Date: 23-Jun-2025 21:10:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.886	4.886	0.000	93	219319	NR	NR	
14 Benzidine_T	184	6.140	6.140	0.000	99	2058806	NR	NR	
178 DFTPP									
180 4,4'-DDE	246	6.296	6.296	0.000	23	2099		NR	
179 4,4'-DDD	235	6.602	6.602	0.000	11	2747		NR	
181 4,4'-DDT	235	6.821	6.821	0.000	98	961767	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

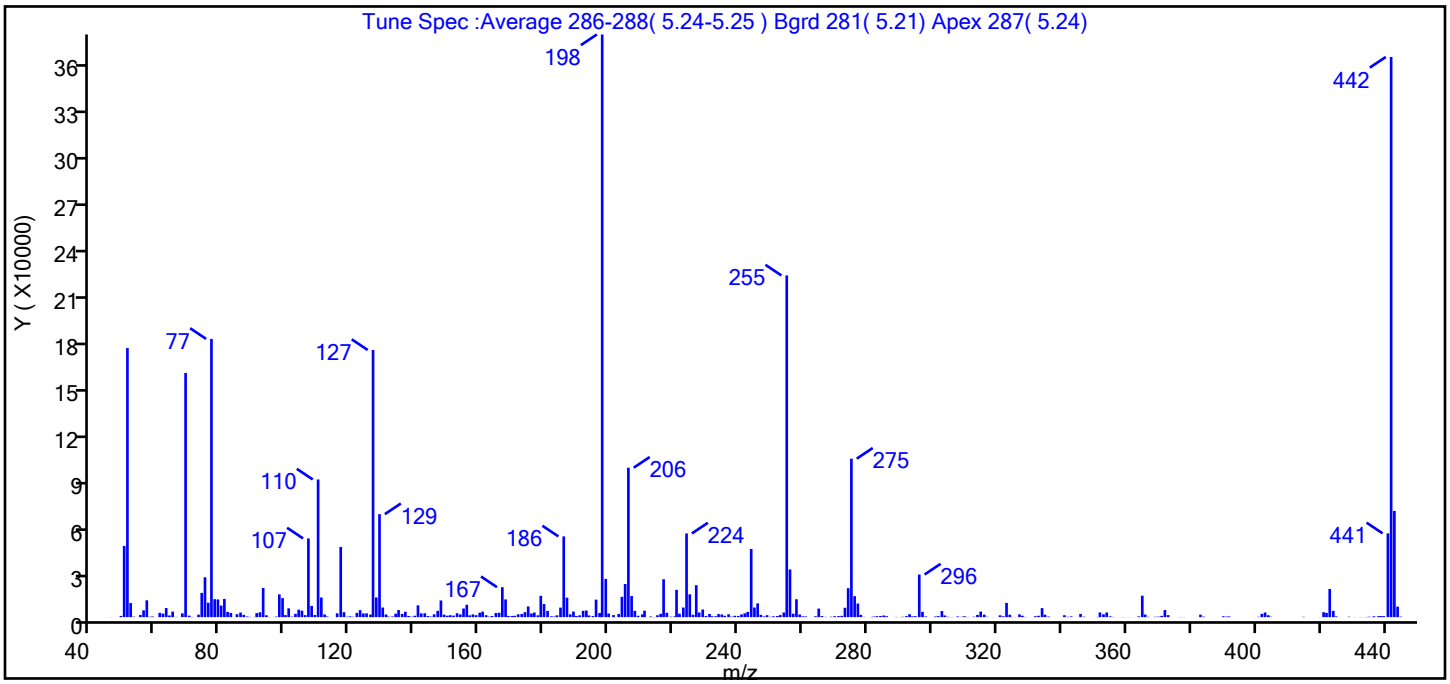
MSS_RVDFTPP_00017 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (104.0)
51	10-80% of the base peak	46.2
68	<2% of mass 69	0.6 (1.5)
69	Present	41.9
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	45.9
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.6
275	10-60% of the base peak	27.2
365	>1% of mass 198	3.7
441	present but <24% of mass 442	14.4 (15.0)
442	base peak, or >50% of 198	96.1
443	15-24% of mass 442	18.2 (19.0)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 23-Jun-2025 19:52:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 281(5.21) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	71	137.00	3471	219.00	287	310.00	575
49.00	797	138.00	725	220.00	433	311.00	132
50.00	45616	139.00	290	221.00	17456	313.00	278
51.00	172352	140.00	878	222.00	2211	314.00	1438
52.00	9035	141.00	7569	223.00	6144	315.00	3570
53.00	315	142.00	2411	224.00	53616	316.00	1603
55.00	1400	143.00	2490	225.00	14630	317.00	244
56.00	4373	144.00	754	226.00	1516	319.00	57
57.00	10802	145.00	329	227.00	20480	321.00	1179
58.00	270	146.00	1783	228.00	2972	322.00	552
59.00	402	147.00	4051	229.00	4902	323.00	9127
61.00	2753	148.00	10684	230.00	715	324.00	1550
62.00	2288	149.00	1572	231.00	2018	325.00	128
63.00	5832	150.00	914	232.00	591	326.00	52
64.00	1056	151.00	1239	233.00	589	327.00	1781
65.00	3536	152.00	984	234.00	1950	328.00	896
66.00	169	153.00	2496	235.00	1704	329.00	147
68.00	2421	154.00	1718	236.00	865	332.00	599
69.00	156416	155.00	5542	237.00	1821	333.00	877
70.00	965	156.00	7941	238.00	311	334.00	5784
71.00	166	157.00	1150	239.00	853	335.00	1547
73.00	1582	158.00	1751	240.00	766	336.00	413
74.00	15538	159.00	1245	241.00	1750	341.00	1218
75.00	25560	160.00	2848	242.00	2397	342.00	251
76.00	9228	161.00	3541	243.00	3369	343.00	465
77.00	178240	162.00	1220	244.00	43672	346.00	2061
78.00	11510	163.00	315	245.00	6156	347.00	297
79.00	11323	164.00	730	246.00	8815	351.00	130
80.00	7420	165.00	2663	247.00	1469	352.00	3024
81.00	11682	166.00	2851	248.00	439	353.00	1850
82.00	3348	167.00	19200	249.00	1240	354.00	3005
83.00	2676	168.00	11361	250.00	232	355.00	506
85.00	1897	169.00	773	251.00	557	356.00	161

Report Date: 24-Jun-2025 10:14:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 23-Jun-2025 19:52:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 281(5.21) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	2944	170.00	751	252.00	720	359.00	101
87.00	1441	171.00	877	253.00	1336	360.00	52
88.00	378	172.00	1793	254.00	2982	361.00	81
89.00	197	173.00	2016	255.00	218880	364.00	481
90.00	121	174.00	3184	256.00	30536	365.00	13748
91.00	2576	175.00	6869	257.00	2179	366.00	1674
92.00	3079	176.00	2363	258.00	11458	367.00	209
93.00	18672	177.00	2963	259.00	1703	369.00	237
94.00	1193	178.00	1183	260.00	513	370.00	305
95.00	129	179.00	13677	261.00	433	371.00	819
97.00	342	180.00	8404	264.00	554	372.00	4557
98.00	14598	181.00	3992	265.00	5487	373.00	1309
99.00	12212	182.00	531	266.00	705	377.00	99
100.00	1295	183.00	333	267.00	164	378.00	78
101.00	5664	184.00	1169	269.00	271	383.00	1587
102.00	339	185.00	6115	270.00	602	384.00	338
103.00	2099	186.00	51712	271.00	691	390.00	583
104.00	4771	187.00	12466	272.00	829	391.00	390
105.00	4167	188.00	1765	273.00	5994	392.00	426
106.00	1278	189.00	3584	274.00	18560	401.00	223
107.00	50424	190.00	745	275.00	101512	402.00	2118
108.00	7216	191.00	1160	276.00	13436	403.00	2980
109.00	1388	192.00	4087	277.00	8704	404.00	1207
110.00	88184	193.00	4236	278.00	1446	405.00	244
111.00	12581	194.00	1094	279.00	193	415.00	219
112.00	1697	195.00	699	281.00	137	420.00	75
113.00	428	196.00	11220	282.00	367	421.00	3136
114.00	58	197.00	2683	283.00	639	422.00	2739
116.00	2426	198.00	373248	284.00	743	423.00	18032
117.00	44960	199.00	24496	285.00	1061	424.00	4018
118.00	3191	200.00	2307	286.00	602	425.00	487
119.00	268	201.00	1335	289.00	142	429.00	265
120.00	505	202.00	88	290.00	60	431.00	53
121.00	243	203.00	2048	291.00	246	432.00	67

Report Date: 24-Jun-2025 10:14:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 23-Jun-2025 19:52:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 281(5.21) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	2765	204.00	13010	292.00	662	433.00	81
123.00	4499	205.00	21240	293.00	1873	434.00	124
124.00	2376	206.00	95736	294.00	507	435.00	271
125.00	2421	207.00	13551	295.00	618	436.00	136
126.00	1657	208.00	4024	296.00	27312	437.00	535
127.00	171136	209.00	898	297.00	3376	438.00	656
128.00	12621	210.00	1742	298.00	439	439.00	679
129.00	65968	211.00	4131	301.00	403	440.00	670
130.00	6166	212.00	66	302.00	661	441.00	53680
131.00	1706	213.00	428	303.00	3912	442.00	358848
132.00	353	214.00	119	304.00	1101	443.00	68032
133.00	429	215.00	1226	305.00	264	444.00	6745
134.00	2208	216.00	2159	306.00	118	445.00	306
135.00	4558	217.00	24280	308.00	437		
136.00	2033	218.00	2784	309.00	250		

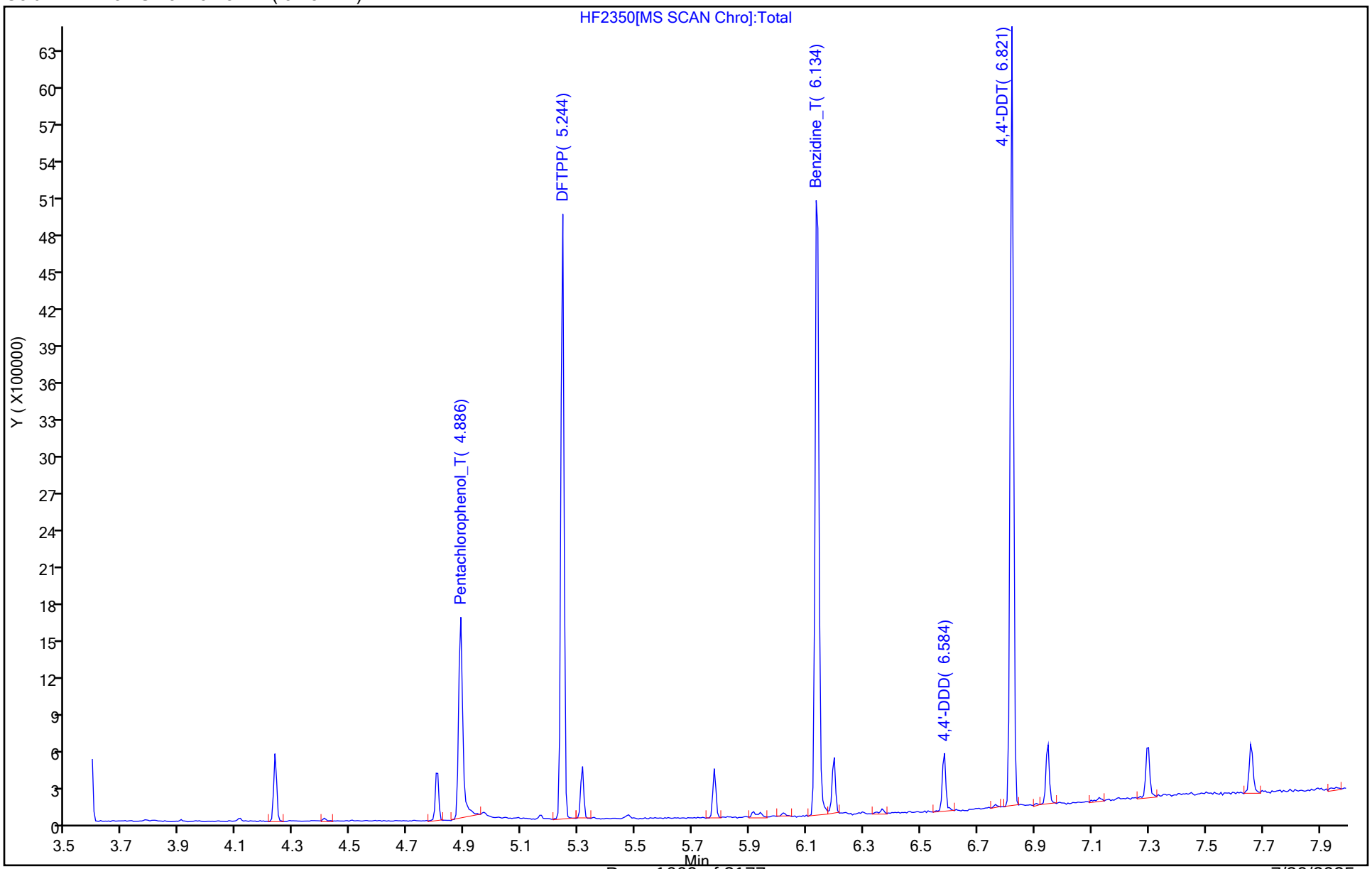
Report Date: 24-Jun-2025 10:14:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D

Injection Date:	23-Jun-2025 19:52:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

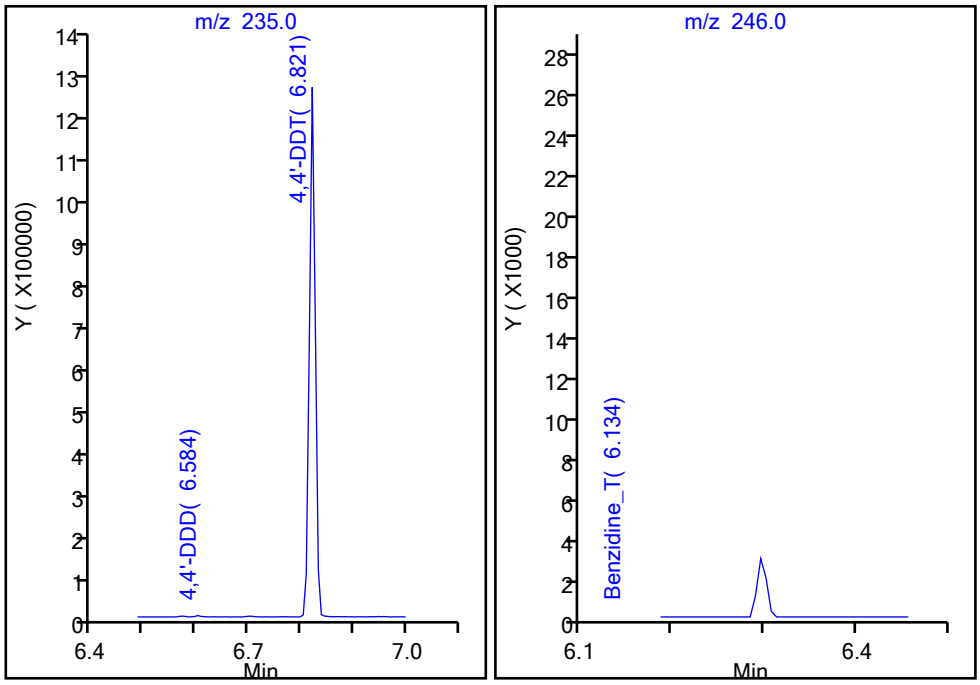
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 961767
179 4,4'-DDD, Area = 2747
180 4,4'-DDE, Area = 2099

%Breakdown: 0.50%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

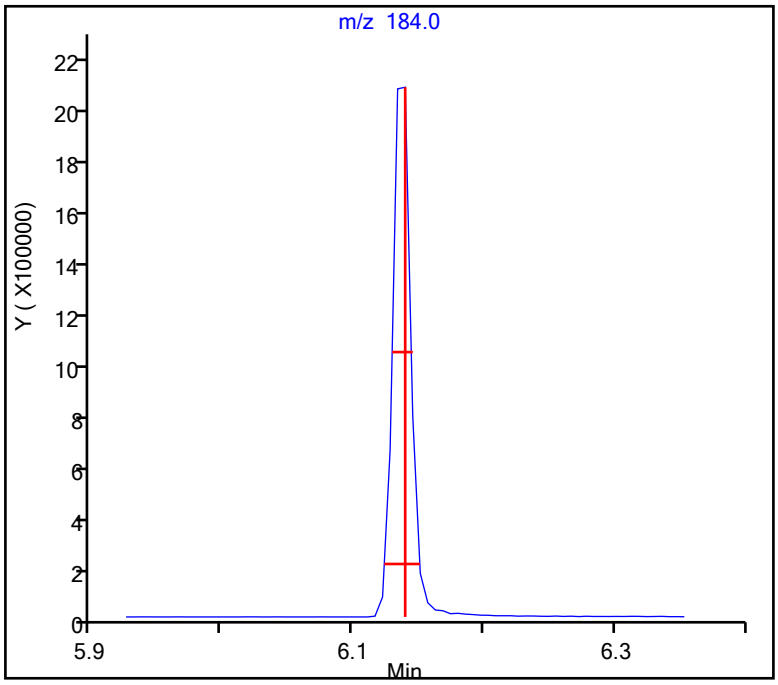
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

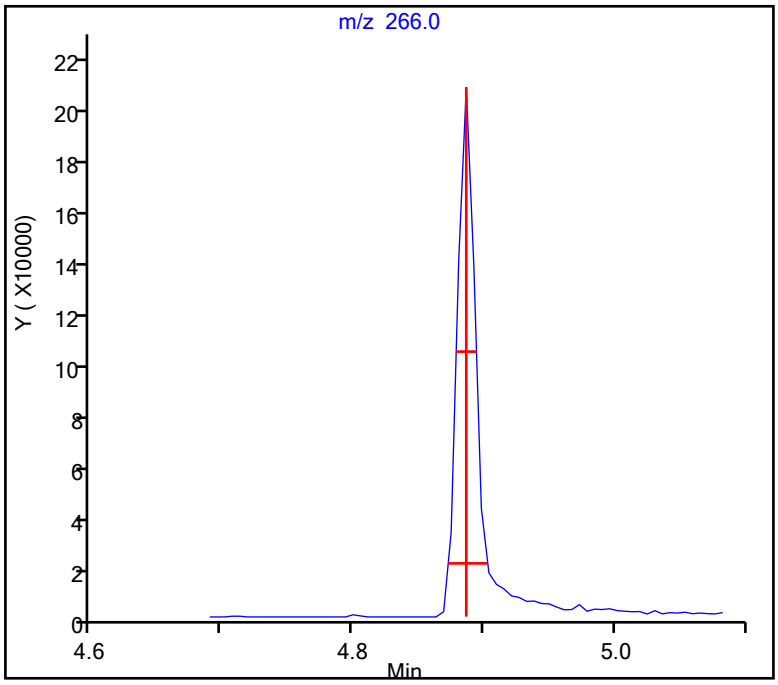
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.14, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 24-Jun-2025 09:59:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 13:04:30 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:18:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.886	4.886	0.000	92	149512	NR	NR	
14 Benzidine_T	184	6.139	6.139	0.000	99	1600299	NR	NR	
178 DFTPP									
180 4,4'-DDE	246	6.295	6.295	0.000	51	1680		NR	
179 4,4'-DDD	235	6.573	6.573	0.000	53	3656		NR	
181 4,4'-DDT	235	6.821	6.821	0.000	98	728917	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

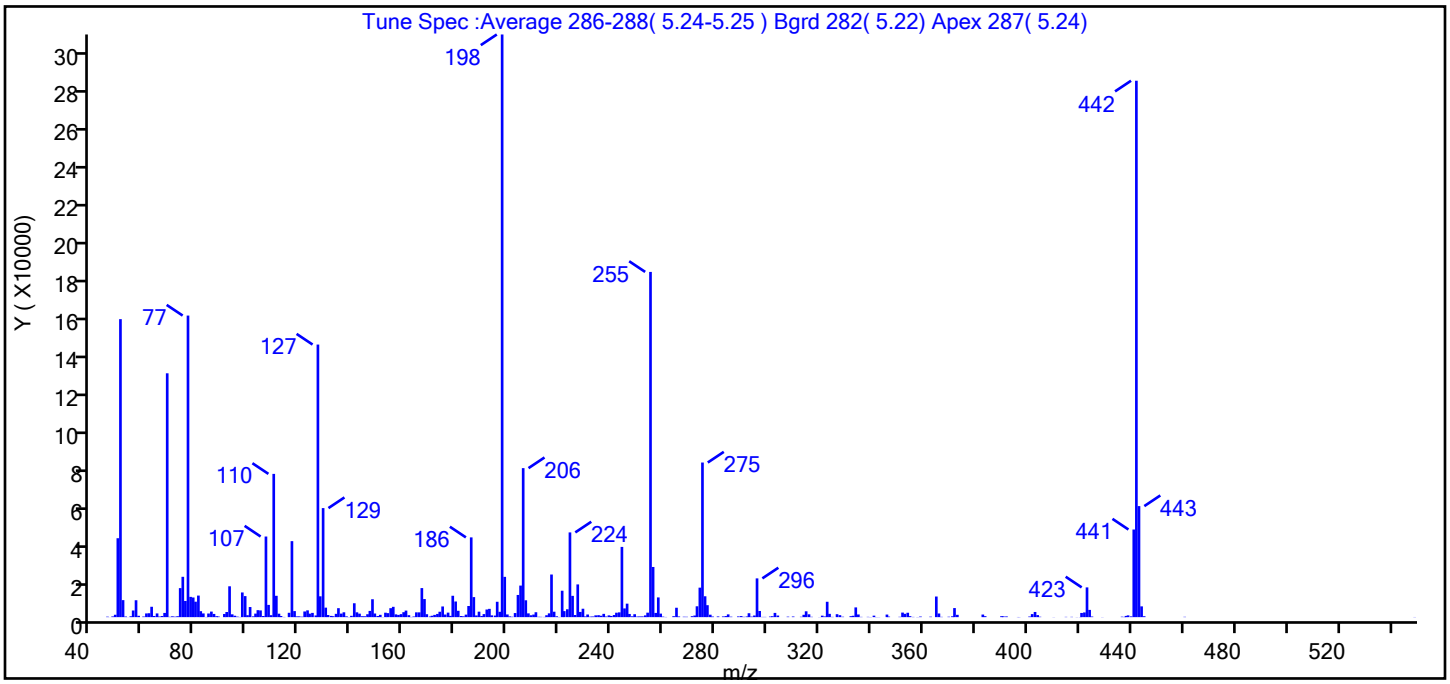
MSS_RVDFTPP_00017 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (108.6)
51	10-80% of the base peak	51.1
68	<2% of mass 69	0.7 (1.7)
69	Present	41.9
70	<2% of mass 69	0.1 (0.1)
127	10-80% of the base peak	46.8
197	<2% of mass 198	0.9
199	5-9% of mass 198	6.9
275	10-60% of the base peak	26.5
365	>1% of mass 198	3.5
441	present but <24% of mass 442	15.0 (16.3)
442	base peak, or >50% of 198	92.1
443	15-24% of mass 442	19.1 (20.7)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 24-Jun-2025 09:59:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 282(5.22) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	245	131.00	1109	213.00	151	304.00	827
47.00	28	132.00	645	214.00	116	308.00	256
48.00	376	133.00	469	215.00	984	310.00	330
49.00	1236	134.00	1712	216.00	1964	313.00	194
50.00	40952	135.00	4653	217.00	22120	314.00	1223
51.00	154624	136.00	1845	218.00	2817	315.00	3031
52.00	8827	137.00	2519	219.00	436	316.00	1462
53.00	322	138.00	398	220.00	90	317.00	174
54.00	36	139.00	78	221.00	13704	320.00	58
55.00	465	140.00	688	222.00	3120	321.00	765
56.00	3453	141.00	7204	223.00	4092	322.00	357
57.00	8771	142.00	2505	224.00	43968	323.00	7977
58.00	698	143.00	1809	225.00	11040	324.00	1711
60.00	319	144.00	479	226.00	1108	325.00	139
61.00	1924	145.00	456	227.00	16984	327.00	1525
62.00	2028	146.00	1511	228.00	2705	328.00	1018
63.00	5379	147.00	3232	229.00	4365	329.00	221
64.00	604	148.00	9292	230.00	379	332.00	504
65.00	1928	149.00	1882	231.00	1368	333.00	711
66.00	320	150.00	597	232.00	281	334.00	5050
67.00	594	151.00	1198	233.00	352	335.00	1382
68.00	2188	152.00	74	234.00	925	336.00	140
69.00	126528	153.00	2303	235.00	1011	339.00	150
70.00	175	154.00	2077	236.00	730	340.00	77
71.00	429	155.00	4658	237.00	1706	341.00	772
72.00	259	156.00	5352	238.00	330	342.00	76
73.00	469	157.00	1442	239.00	917	343.00	62
74.00	15059	158.00	1156	240.00	603	346.00	1339
75.00	20928	159.00	1562	241.00	1098	347.00	294
76.00	8391	160.00	2568	242.00	2301	351.00	177
77.00	156480	161.00	3394	243.00	2478	352.00	2364
78.00	10514	162.00	1015	244.00	36440	353.00	1730
79.00	10201	163.00	97	245.00	4525	354.00	2280

Report Date: 24-Jun-2025 13:04:30 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 24-Jun-2025 09:59:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 282(5.22) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	8016	164.00	330	246.00	6995	355.00	506
81.00	11190	165.00	2491	247.00	1655	356.00	121
82.00	3088	166.00	2476	248.00	437	358.00	76
83.00	1923	167.00	15077	249.00	1525	359.00	309
84.00	104	168.00	9386	250.00	319	363.00	248
85.00	1882	169.00	1516	251.00	367	365.00	10702
86.00	2884	170.00	318	252.00	387	366.00	1893
87.00	1668	171.00	719	253.00	904	367.00	150
88.00	484	172.00	1173	254.00	2322	370.00	216
89.00	345	173.00	1662	255.00	179136	371.00	441
91.00	1643	174.00	2805	256.00	26032	372.00	4710
92.00	2658	175.00	5540	257.00	2198	373.00	1204
93.00	16012	176.00	1348	258.00	10234	383.00	1350
94.00	1459	177.00	2341	259.00	1833	384.00	499
95.00	728	178.00	663	260.00	270	390.00	505
96.00	275	179.00	11093	261.00	97	391.00	435
97.00	101	180.00	8121	264.00	490	392.00	374
98.00	12807	181.00	3296	265.00	4876	396.00	86
99.00	10913	182.00	588	266.00	357	397.00	52
100.00	1008	183.00	429	268.00	212	401.00	323
101.00	5249	184.00	1310	269.00	189	402.00	1569
102.00	406	185.00	5777	271.00	499	403.00	2685
103.00	1834	186.00	41384	272.00	827	404.00	1060
104.00	3626	187.00	10395	273.00	5636	405.00	208
105.00	3481	188.00	874	274.00	15300	410.00	57
106.00	584	189.00	2841	275.00	80232	415.00	145
107.00	41832	190.00	609	276.00	10833	417.00	151
108.00	6353	191.00	1586	277.00	6205	419.00	59
109.00	1007	192.00	3965	278.00	1270	420.00	66
110.00	74336	193.00	4299	279.00	315	421.00	2176
111.00	11075	194.00	918	281.00	358	422.00	2440
112.00	1788	195.00	808	283.00	372	423.00	15438
113.00	600	196.00	7978	284.00	562	424.00	3761
114.00	98	197.00	2765	285.00	1431	425.00	317

Report Date: 24-Jun-2025 13:04:30 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 24-Jun-2025 09:59:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 282(5.22) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	2259	198.00	302336	286.00	243	429.00	61
117.00	39432	199.00	20904	289.00	369	436.00	238
118.00	3134	200.00	1397	290.00	551	438.00	83
119.00	388	201.00	390	291.00	171	438.00	632
120.00	397	202.00	220	292.00	343	439.00	908
121.00	243	203.00	2123	293.00	2031	440.00	388
122.00	2946	204.00	11511	294.00	286	441.00	45464
123.00	3524	205.00	16376	295.00	847	442.00	278336
124.00	1811	206.00	77320	296.00	20112	443.00	57616
125.00	2208	207.00	8751	297.00	3201	444.00	5590
126.00	869	208.00	1955	298.00	123	445.00	471
127.00	141440	209.00	978	299.00	127	461.00	165
128.00	10813	210.00	1324	301.00	314	549.00	81
129.00	56584	211.00	2547	302.00	476		
130.00	4929	212.00	188	303.00	2200		

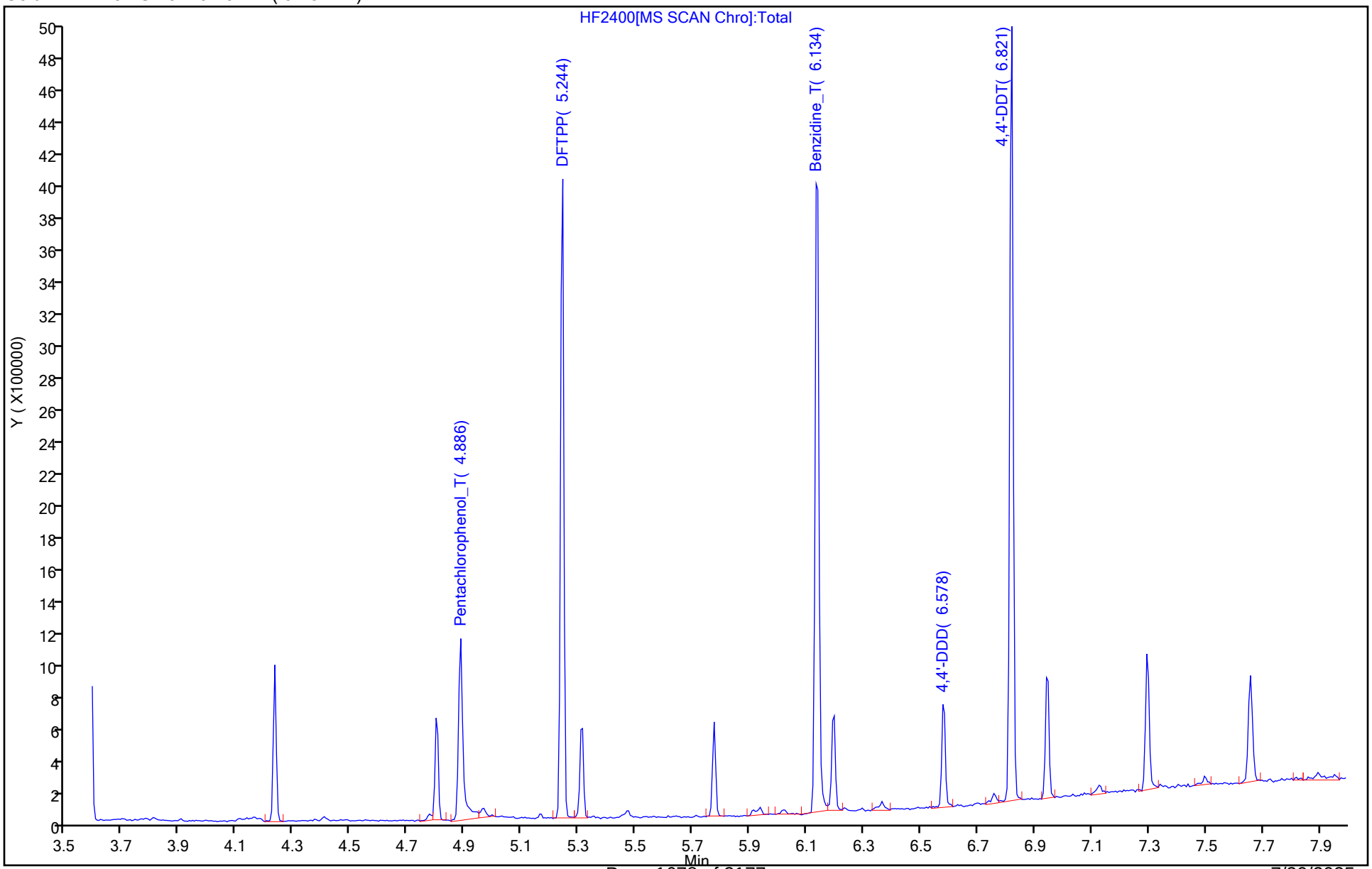
Report Date: 24-Jun-2025 13:04:30 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D

Injection Date:	24-Jun-2025 09:59:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

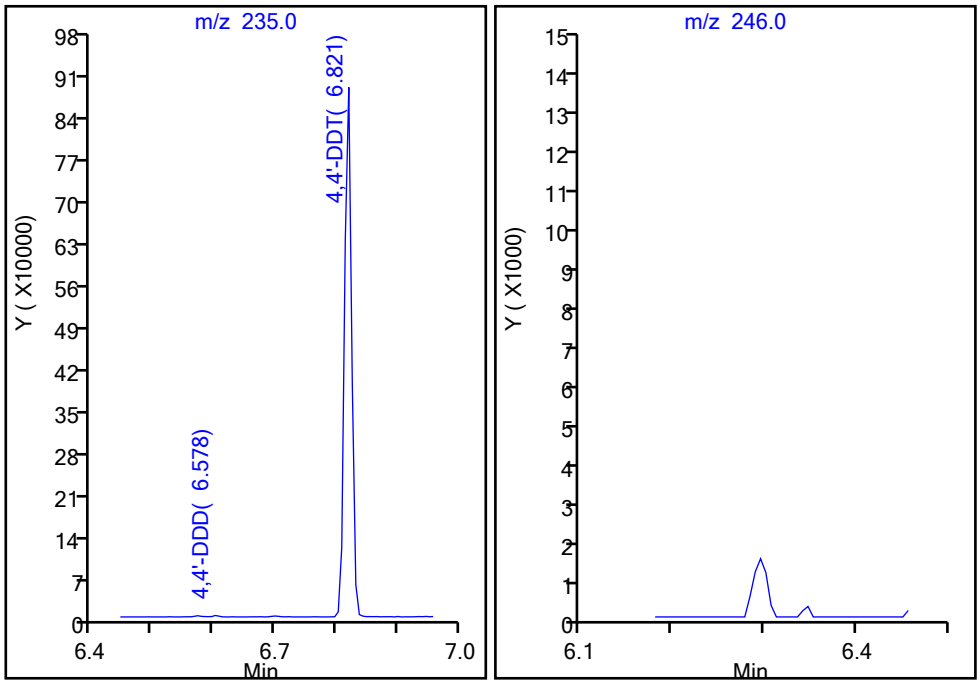
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 728917
179 4,4'-DDD, Area = 3656
180 4,4'-DDE, Area = 1680

%Breakdown: 0.73%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

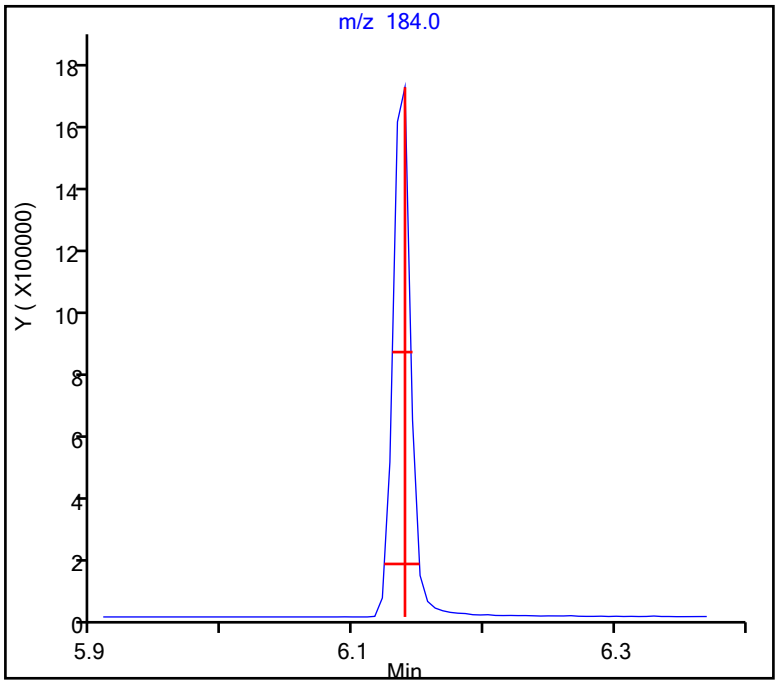
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

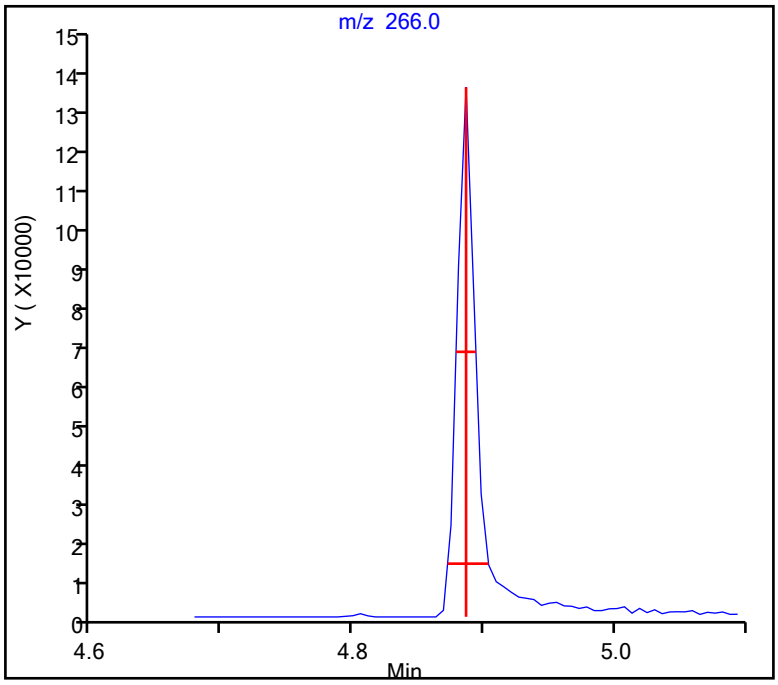
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.21, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 03-Jul-2025 11:39:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 10:10:55 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1707

First Level Reviewer: RN6U Date: 03-Jul-2025 12:32:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.805	4.805	0.000	92	317882	NR	NR	
14 Benzidine_T	184	6.059	6.059	0.000	99	2192852	NR	NR	
178 DFTPP									
180 4,4'-DDE	246		6.215					ND	U
179 4,4'-DDD	235		6.740					ND	U
181 4,4'-DDT	235	6.740	6.740	0.000	98	1126284	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

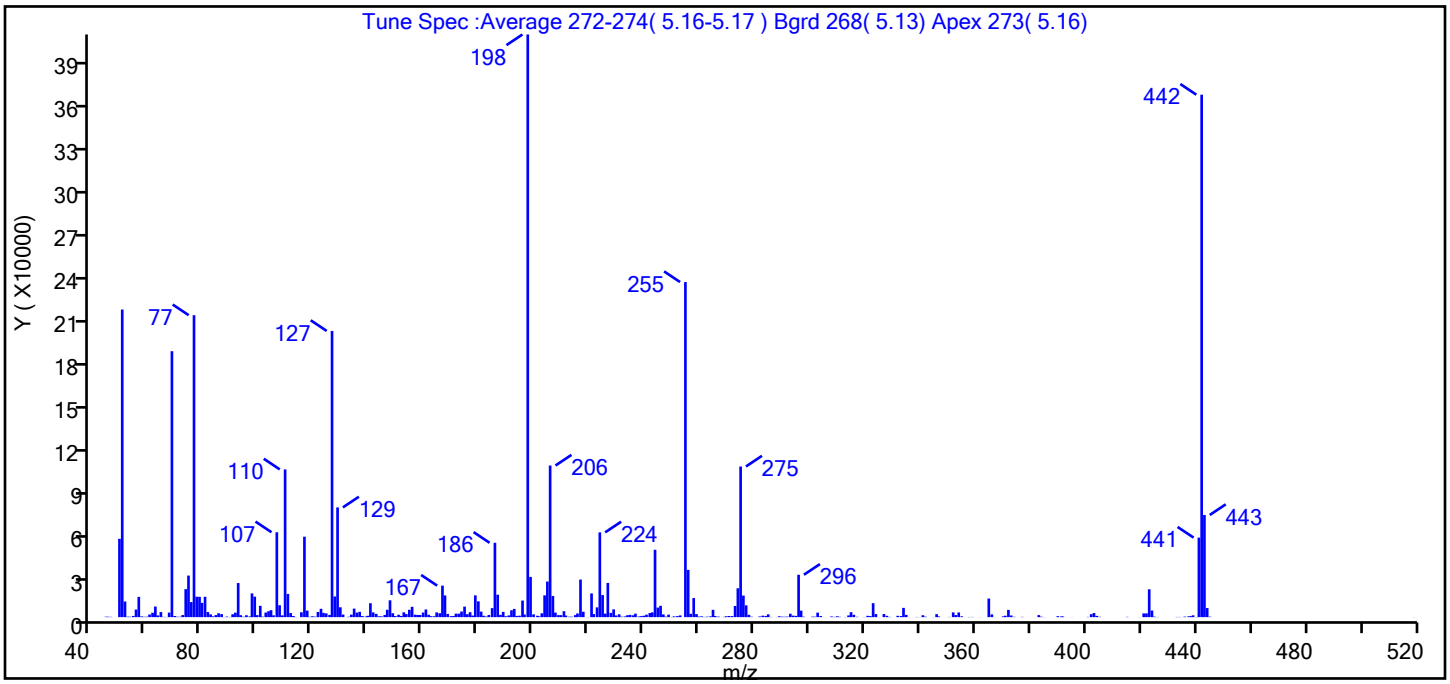
MSS_RVDFTPP_00018 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Injection Date: 03-Jul-2025 11:39:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: EEA115318_KEL10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (111.5)
51	10-80% of the base peak	52.8
68	<2% of mass 69	0.8 (1.7)
69	Present	45.6
70	<2% of mass 69	0.2 (0.4)
127	10-80% of the base peak	49.1
197	<2% of mass 198	0.5
199	5-9% of mass 198	6.9
275	10-60% of the base peak	25.9
365	>1% of mass 198	3.2
441	present but <24% of mass 442	13.6 (15.2)
442	base peak, or >50% of 198	89.7
443	15-24% of mass 442	17.5 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D\MSSemi_HP18831.rslt\spectra
Injection Date: 03-Jul-2025 11:39:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	303	131.00	1793	215.00	1373	308.00	461
46.00	284	132.00	16	216.00	2524	309.00	193
47.00	199	133.00	270	217.00	25920	310.00	613
50.00	54024	134.00	1747	218.00	3716	311.00	231
51.00	212160	135.00	5887	219.00	20	313.00	124
52.00	10787	136.00	3135	220.00	62	314.00	1184
53.00	314	137.00	3673	221.00	16361	315.00	3419
54.00	272	138.00	756	222.00	2097	316.00	1604
55.00	832	139.00	407	223.00	6736	317.00	224
56.00	5242	140.00	927	224.00	58480	320.00	88
57.00	13982	141.00	9605	225.00	15218	321.00	920
58.00	529	142.00	3280	226.00	2411	322.00	726
59.00	247	143.00	2243	227.00	23600	323.00	9633
60.00	312	144.00	600	228.00	2915	324.00	2120
61.00	1842	145.00	540	229.00	5374	325.00	68
62.00	3029	146.00	1520	230.00	1161	327.00	2144
63.00	7308	147.00	5079	231.00	1947	328.00	929
64.00	1208	148.00	11619	232.00	317	329.00	153
65.00	3499	149.00	2696	233.00	498	332.00	920
66.00	201	150.00	774	234.00	1321	333.00	751
67.00	142	151.00	1653	235.00	1579	334.00	6394
68.00	3124	152.00	850	236.00	1275	335.00	1550
69.00	183424	153.00	3336	237.00	2403	336.00	66
70.00	786	154.00	2078	238.00	426	339.00	143
71.00	309	155.00	5066	239.00	699	340.00	78
72.00	298	156.00	7136	240.00	969	341.00	1308
73.00	1435	157.00	1689	241.00	1719	342.00	324
74.00	19328	158.00	1505	242.00	2792	345.00	55
75.00	28664	159.00	1461	243.00	3299	346.00	2051
76.00	10387	160.00	3179	244.00	46456	347.00	497
77.00	208256	161.00	5301	245.00	6583	350.00	150
78.00	14090	162.00	1621	246.00	7800	352.00	3280
79.00	13999	163.00	666	247.00	1892	353.00	1427

Report Date: 07-Jul-2025 10:10:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D\MSSemi_HP18831.rslt\spectra
Injection Date: 03-Jul-2025 11:39:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	9854	164.00	613	248.00	362	354.00	3231
81.00	14052	165.00	3265	249.00	1707	355.00	589
82.00	3527	166.00	2705	250.00	115	358.00	144
83.00	1938	167.00	21736	251.00	562	359.00	165
84.00	538	168.00	14972	252.00	728	362.00	70
85.00	1424	169.00	2208	253.00	1196	365.00	12828
86.00	2701	170.00	709	255.00	231104	366.00	1910
87.00	2086	171.00	826	256.00	32592	367.00	56
88.00	106	172.00	2407	257.00	2305	370.00	530
89.00	395	173.00	2377	258.00	13160	371.00	973
90.00	151	174.00	3893	259.00	2103	372.00	4994
91.00	2005	175.00	7259	260.00	405	373.00	1150
92.00	3098	176.00	2019	261.00	544	374.00	235
93.00	23520	177.00	3400	262.00	150	377.00	196
94.00	1349	178.00	1097	263.00	338	383.00	1413
95.00	304	179.00	15013	264.00	568	384.00	321
96.00	1310	180.00	10905	265.00	5062	385.00	59
97.00	493	181.00	3821	266.00	782	390.00	691
98.00	16384	182.00	966	267.00	371	391.00	460
99.00	14139	183.00	431	269.00	218	392.00	455
100.00	1393	184.00	1502	270.00	613	395.00	60
101.00	7792	185.00	6219	271.00	783	401.00	182
102.00	327	186.00	51280	272.00	725	402.00	2045
103.00	3169	187.00	15471	273.00	7686	403.00	2838
104.00	4084	188.00	1582	274.00	19944	404.00	874
105.00	4817	189.00	3633	275.00	103896	405.00	250
106.00	1264	190.00	626	276.00	14868	415.00	194
107.00	58552	191.00	1174	277.00	8148	419.00	68
108.00	8214	192.00	4738	278.00	1589	421.00	2581
109.00	1215	193.00	5692	279.00	278	422.00	2590
110.00	101896	194.00	859	282.00	467	423.00	19216
111.00	16005	195.00	1016	283.00	1012	424.00	4547
112.00	2823	196.00	11437	284.00	835	425.00	342
113.00	821	197.00	1827	285.00	1920	426.00	123

Report Date: 07-Jul-2025 10:10:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D\MSSemi_HP18831.rslt\spectra
Injection Date: 03-Jul-2025 11:39:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	112	198.00	401856	286.00	139	433.00	145
115.00	14	199.00	27744	288.00	80	434.00	137
116.00	3366	200.00	1931	289.00	600	435.00	51
117.00	55496	201.00	958	290.00	351	436.00	360
118.00	4500	202.00	510	291.00	275	437.00	597
119.00	231	203.00	2651	292.00	366	438.00	682
120.00	621	204.00	15029	293.00	2326	439.00	1244
121.00	343	205.00	24560	294.00	1057	440.00	122
122.00	3580	206.00	104568	295.00	870	441.00	54848
123.00	5758	207.00	14614	296.00	29240	442.00	360320
124.00	2950	208.00	3127	297.00	4471	443.00	70464
125.00	2589	209.00	1391	298.00	311	444.00	6271
126.00	1536	210.00	1376	301.00	317	445.00	315
127.00	197376	211.00	4100	302.00	329	519.00	64
128.00	14245	212.00	1069	303.00	3105		
129.00	75696	213.00	301	304.00	750		
130.00	6800	214.00	309	305.00	58		

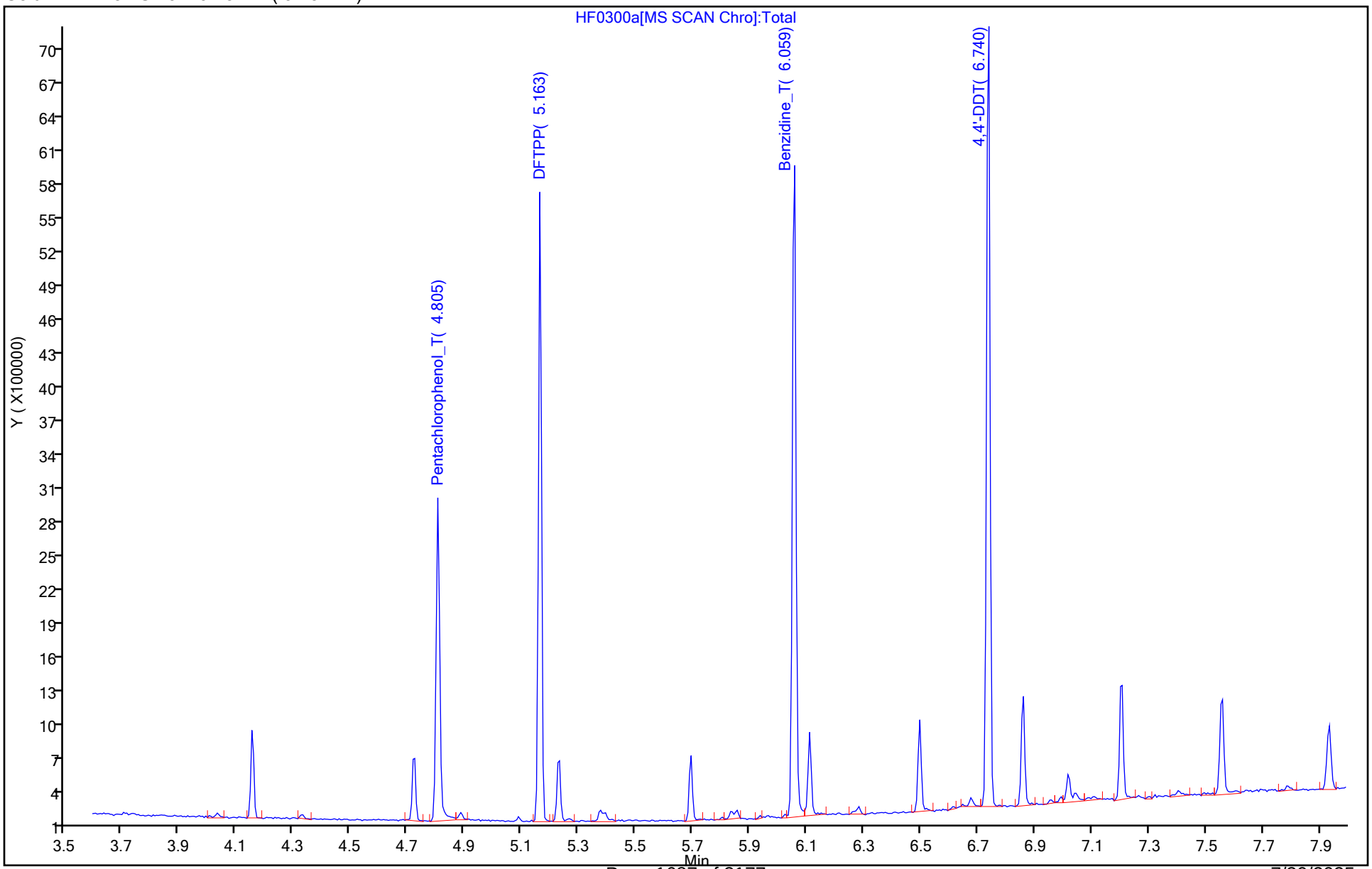
Report Date: 07-Jul-2025 10:10:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D

Injection Date:	03-Jul-2025 11:39:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D				
Injection Date:	03-Jul-2025 11:39:30	Instrument ID:	HP18831		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

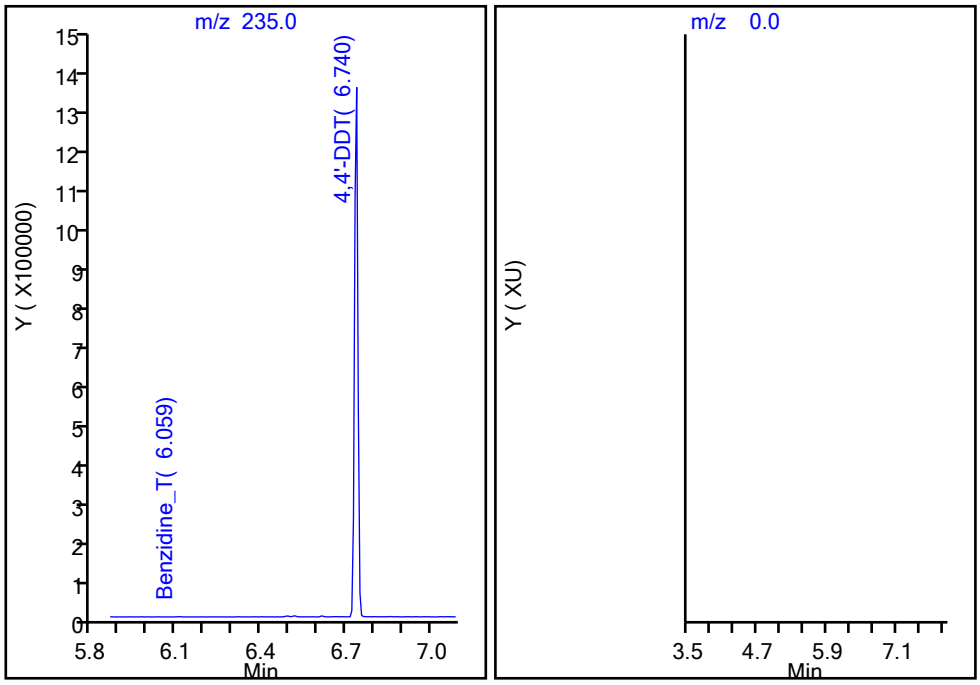
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 1126284
179 4,4'-DDD, Area = 0
180 4,4'-DDE, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

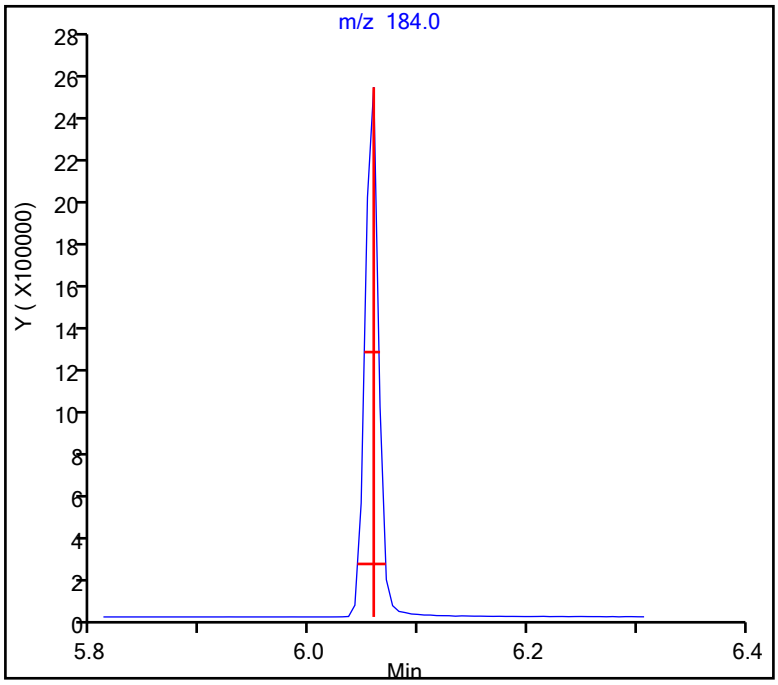
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Injection Date: 03-Jul-2025 11:39:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: EEA115318_KEL10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.73, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

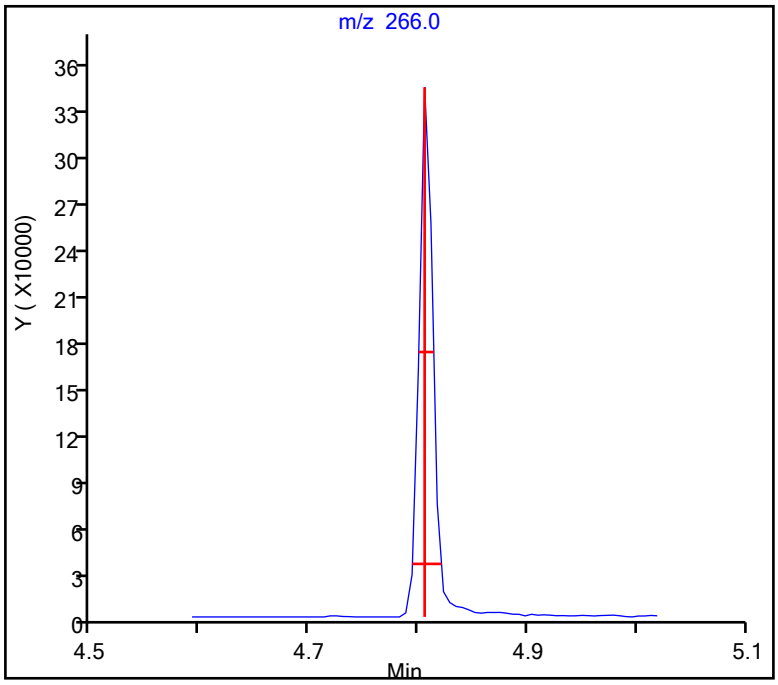
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Injection Date: 03-Jul-2025 11:39:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: EEA115318_KEL10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.45, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Jul-2025 20:14:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Jul-2025 21:34:27 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1718

First Level Reviewer: SJ89 Date: 08-Jul-2025 20:34:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.806	4.806	0.000	92	221661	NR	NR	
14 Benzidine_T	184	6.053	6.053	0.000	99	1505160	NR	NR	
178 DFTPP									
180 4,4'-DDE	246	6.215	6.215	0.000	90	5012		NR	
179 4,4'-DDD	235	6.492	6.492	0.000	54	12589		NR	a
181 4,4'-DDT	235	6.740	6.740	0.000	98	852210	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

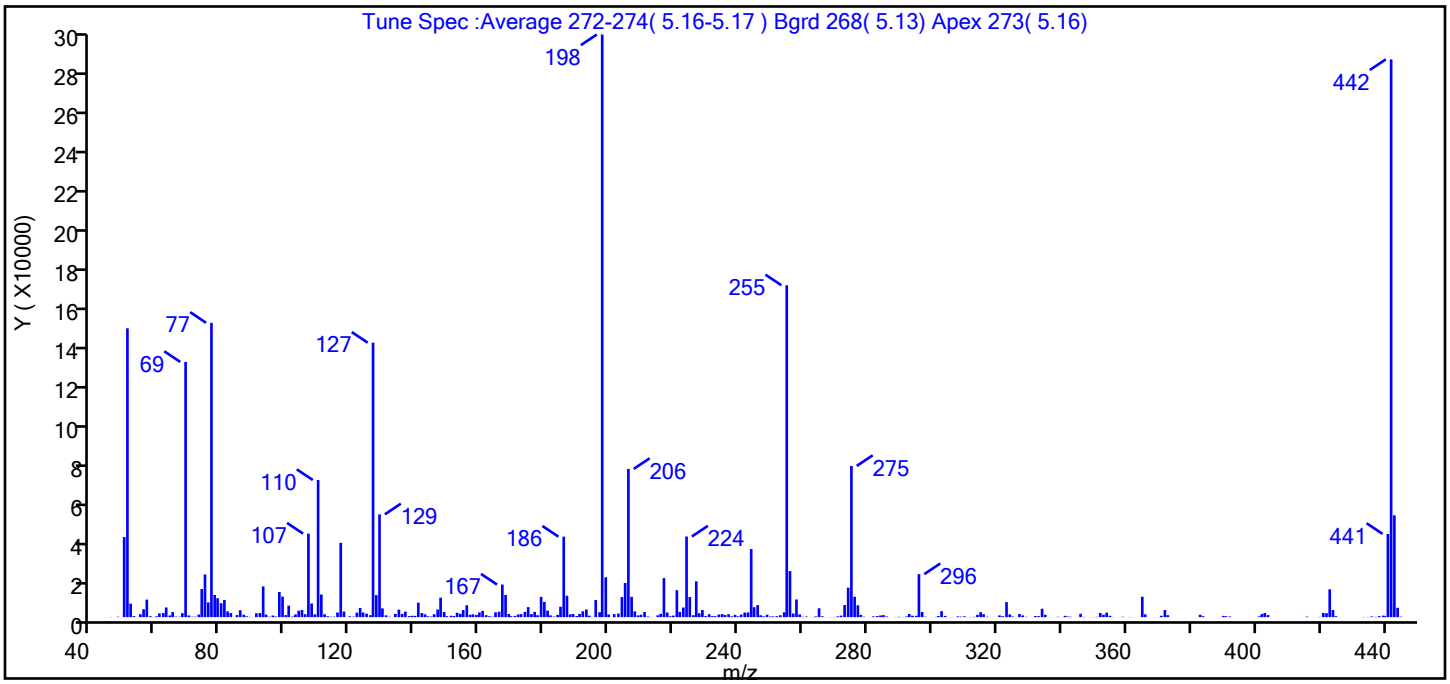
MSS_RVDFTPP_00018 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (104.5)
51	10-80% of the base peak	49.6
68	<2% of mass 69	0.7 (1.6)
69	Present	43.8
70	<2% of mass 69	0.3 (0.7)
127	10-80% of the base peak	47.1
197	<2% of mass 198	0.9
199	5-9% of mass 198	6.8
275	10-60% of the base peak	25.9
365	>1% of mass 198	3.5
441	present but <24% of mass 442	14.3 (14.9)
442	base peak, or >50% of 198	95.7
443	15-24% of mass 442	17.5 (18.2)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D\MSSemi_HP18831.rslt\spectra
Injection Date: 08-Jul-2025 20:14:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	94	131.00	929	213.00	104	303.00	3062
48.00	222	132.00	196	215.00	926	304.00	646
50.00	40968	134.00	1651	216.00	1697	306.00	69
51.00	147776	135.00	3855	217.00	19976	308.00	379
52.00	6888	136.00	1618	218.00	2368	309.00	274
53.00	548	137.00	2847	219.00	431	310.00	436
55.00	1475	138.00	561	220.00	788	311.00	70
56.00	4025	139.00	700	221.00	13818	312.00	119
57.00	8965	140.00	666	222.00	2667	313.00	158
58.00	468	141.00	7393	223.00	4917	314.00	1182
59.00	88	142.00	2116	224.00	41264	315.00	2539
60.00	421	143.00	1441	225.00	10278	316.00	1490
61.00	1897	144.00	426	226.00	966	317.00	203
62.00	2087	145.00	310	227.00	18328	321.00	886
63.00	4954	146.00	1475	228.00	1980	322.00	494
64.00	865	147.00	3903	229.00	3638	323.00	7698
65.00	2601	148.00	9966	230.00	563	324.00	1397
66.00	272	149.00	2658	231.00	1480	325.00	304
67.00	208	150.00	501	232.00	519	326.00	63
68.00	2046	151.00	729	233.00	478	327.00	1606
69.00	130576	152.00	595	234.00	1350	328.00	881
70.00	873	153.00	2262	235.00	1548	329.00	160
71.00	212	154.00	1714	236.00	1160	332.00	603
72.00	231	155.00	3618	237.00	1514	333.00	524
73.00	1340	156.00	6091	238.00	413	334.00	4316
74.00	14376	157.00	1203	239.00	1152	335.00	1204
75.00	21840	158.00	1444	240.00	424	336.00	62
76.00	7530	159.00	1142	241.00	1321	339.00	170
77.00	150592	160.00	2403	242.00	2346	341.00	673
78.00	11313	161.00	3203	243.00	2406	342.00	322
79.00	9677	162.00	993	244.00	34840	343.00	183
80.00	7133	163.00	468	245.00	5082	346.00	1718
81.00	8807	164.00	231	246.00	6161	347.00	151

Report Date: 08-Jul-2025 21:34:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D\MSSemi_HP18831.rslt\spectra
Injection Date: 08-Jul-2025 20:14:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2967	165.00	2457	247.00	982	350.00	81
83.00	2086	166.00	2789	248.00	412	351.00	166
85.00	1058	167.00	16672	249.00	1266	352.00	2151
86.00	3527	168.00	11366	250.00	302	353.00	1232
87.00	1248	169.00	1600	251.00	387	354.00	2299
88.00	424	170.00	488	252.00	498	355.00	652
89.00	131	171.00	626	253.00	978	356.00	76
90.00	56	172.00	1363	254.00	2461	359.00	204
91.00	2026	173.00	1525	255.00	169792	361.00	75
92.00	2079	174.00	2671	256.00	23568	362.00	78
93.00	15733	175.00	5140	257.00	1877	365.00	10430
94.00	1277	176.00	1575	258.00	9045	366.00	1443
95.00	222	177.00	2677	259.00	1412	370.00	54
96.00	827	178.00	958	260.00	187	371.00	711
97.00	319	179.00	10374	261.00	302	372.00	3645
98.00	12873	180.00	7790	263.00	78	373.00	1007
99.00	10486	181.00	3350	264.00	345	383.00	1230
100.00	1042	182.00	899	265.00	4544	384.00	481
101.00	5878	183.00	303	266.00	460	390.00	647
102.00	305	184.00	1150	268.00	65	391.00	462
103.00	1383	185.00	5343	269.00	69	392.00	336
104.00	3282	186.00	41184	270.00	119	401.00	391
105.00	3672	187.00	10954	271.00	410	402.00	1561
106.00	1473	188.00	1415	272.00	776	403.00	2126
107.00	42728	189.00	1601	273.00	6196	404.00	1057
108.00	6956	190.00	571	274.00	15077	416.00	294
109.00	1422	191.00	1626	275.00	77360	420.00	123
110.00	70176	192.00	2985	276.00	10430	421.00	2150
111.00	11595	193.00	3923	277.00	6065	422.00	2031
112.00	1431	194.00	759	278.00	1160	423.00	14246
113.00	463	195.00	105	279.00	203	424.00	3659
114.00	221	196.00	8750	282.00	399	425.00	488
115.00	222	197.00	2534	283.00	569	433.00	64
116.00	2388	198.00	298112	284.00	863	434.00	68

Report Date: 08-Jul-2025 21:34:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D\MSSemi_HP18831.rslt\spectra
Injection Date: 08-Jul-2025 20:14:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	38016	199.00	20416	285.00	1038	435.00	131
118.00	2886	200.00	1379	286.00	352	436.00	356
119.00	27	202.00	1564	289.00	112	437.00	132
120.00	419	202.00	100	290.00	178	438.00	519
121.00	253	203.00	1837	291.00	100	440.00	775
122.00	2319	204.00	10262	292.00	349	440.00	494
123.00	4723	205.00	17472	293.00	1623	441.00	42592
124.00	2406	206.00	75840	294.00	720	442.00	285376
125.00	1762	207.00	10350	295.00	706	443.00	52080
126.00	1023	208.00	2948	296.00	22000	444.00	4777
127.00	140416	209.00	867	297.00	2660	445.00	238
128.00	11293	210.00	1223	298.00	212		
129.00	52592	211.00	2647	301.00	89		
130.00	4496	212.00	338	302.00	587		

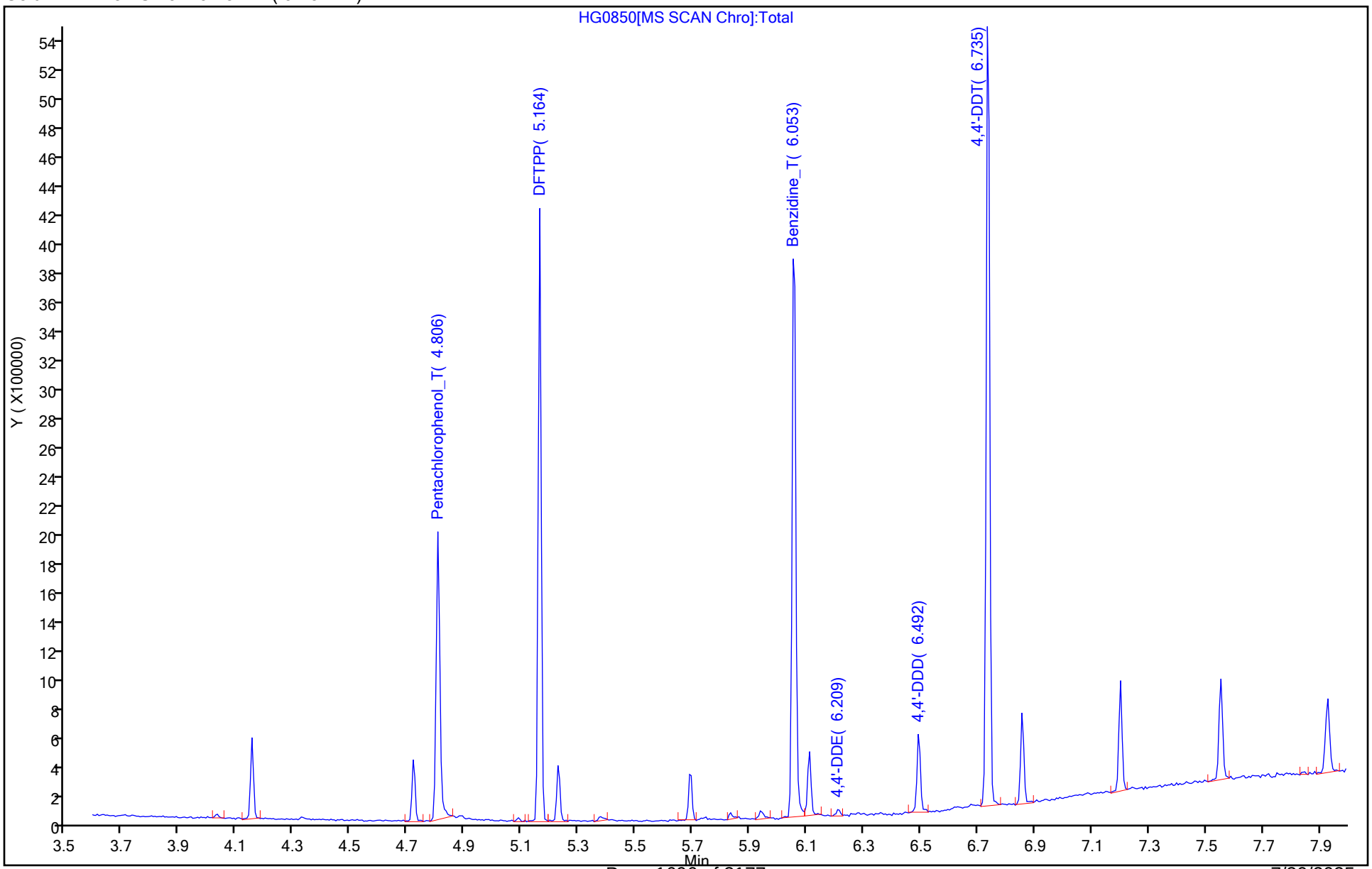
Report Date: 08-Jul-2025 21:34:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D

Injection Date:	08-Jul-2025 20:14:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

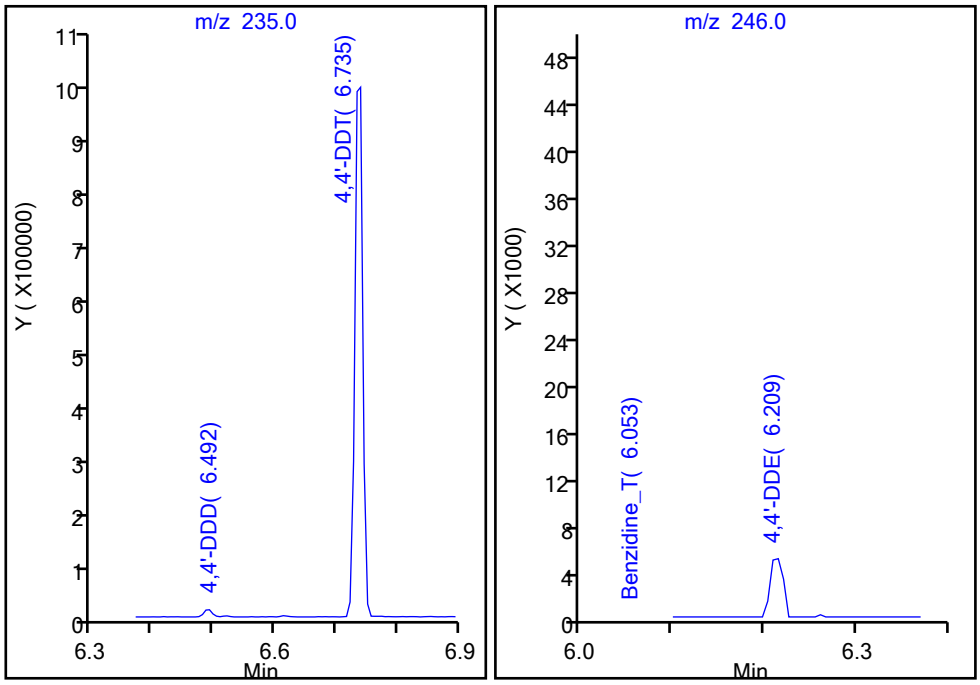
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 852210
179 4,4'-DDD, Area = 12589
180 4,4'-DDE, Area = 5012

%Breakdown: 2.02%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

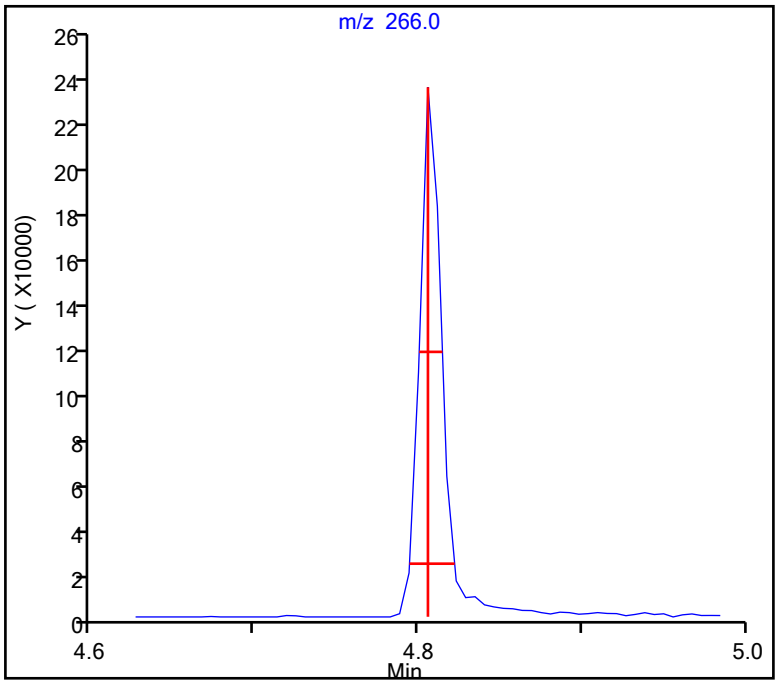
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.45, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

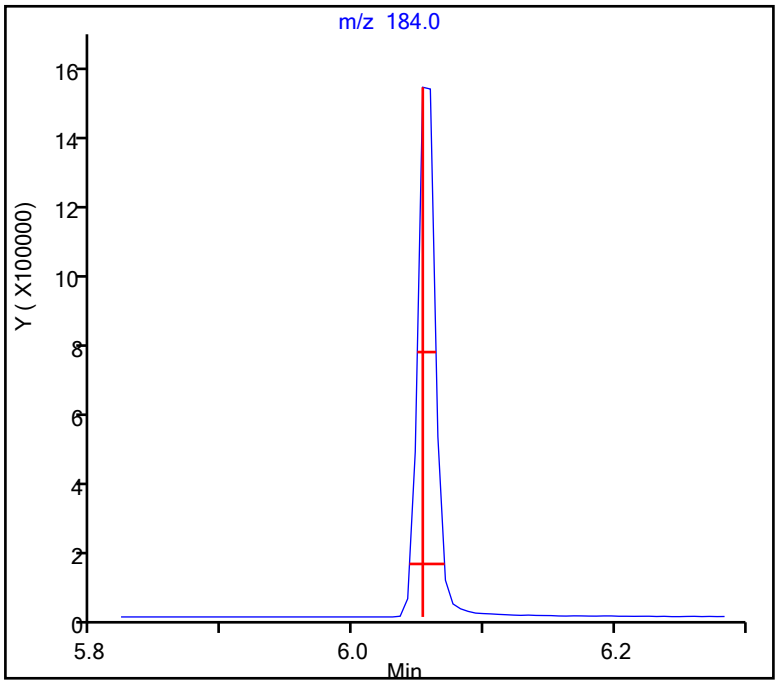
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.70, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Jul-2025 09:05:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:15:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: RN6U Date: 09-Jul-2025 09:55:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.806	4.806	0.000	92	309617	NR	NR	
14 Benzidine_T	184	6.053	6.053	0.000	99	1726113	NR	NR	
178 DFTPP									
180 4,4'-DDE	246		6.209					ND	U
179 4,4'-DDD	235		6.486					ND	U
181 4,4'-DDT	235	6.734	6.734	0.000	98	980488	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

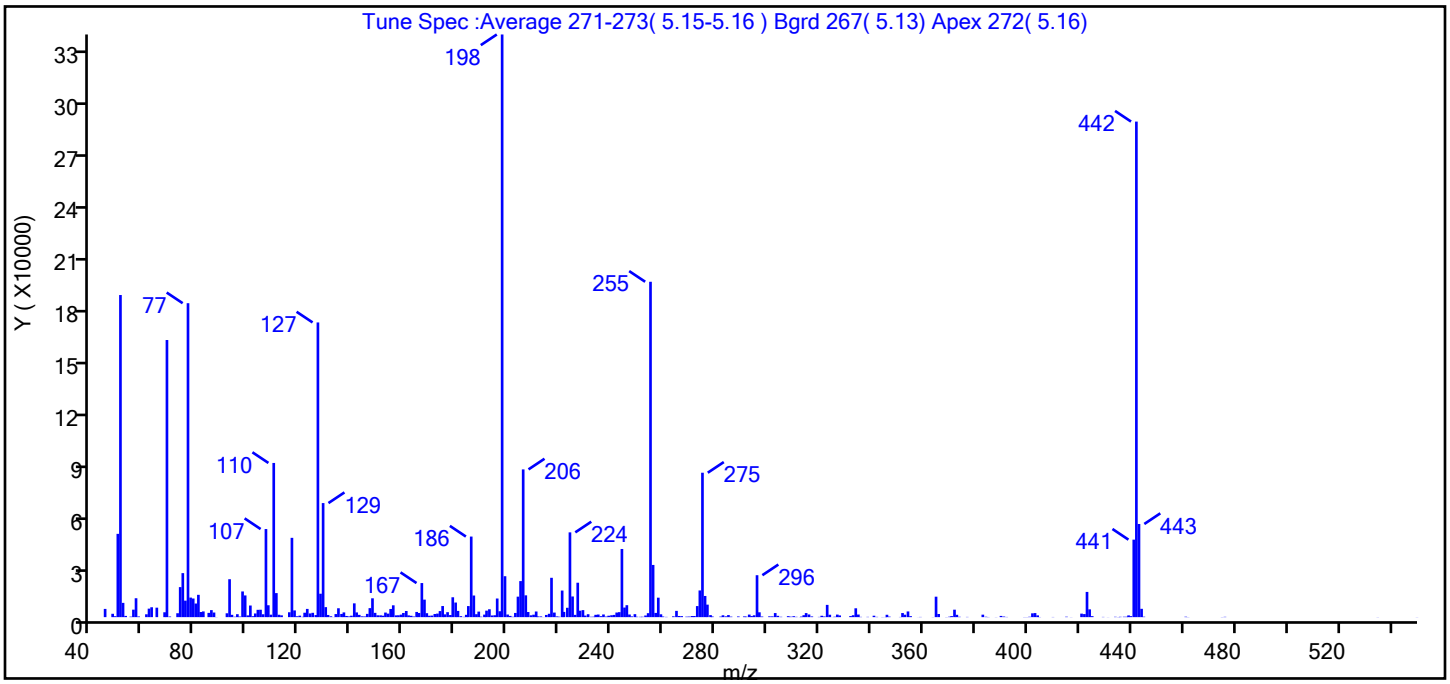
MSS_RVDFTPP_00018 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (117.6)
51	10-80% of the base peak	55.3
68	<2% of mass 69	0.8 (1.8)
69	Present	47.6
70	<2% of mass 69	0.1 (0.2)
127	10-80% of the base peak	50.6
197	<2% of mass 198	1.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	24.8
365	>1% of mass 198	3.5
441	present but <24% of mass 442	13.3 (15.6)
442	base peak, or >50% of 198	85.1
443	15-24% of mass 442	16.0 (18.8)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D\MSSemi_HP18831.rslt\spectra
Injection Date: 09-Jul-2025 09:05:30
Spectrum: Tune Spec :Average 271-273(5.15-5.16) Bgrd 267(5.13) Apex 272(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	4768	143.00	1321	225.00	11967	321.00	792
48.00	1944	144.00	470	226.00	1318	322.00	369
49.00	536	145.00	397	227.00	19928	323.00	7098
50.00	48224	146.00	1891	228.00	3737	324.00	1387
51.00	186496	147.00	5218	229.00	4062	325.00	36
52.00	8262	148.00	10910	230.00	905	326.00	250
53.00	717	149.00	2482	231.00	1686	327.00	1476
55.00	296	150.00	1065	232.00	232	328.00	988
56.00	4338	151.00	1038	233.00	296	332.00	628
57.00	10949	152.00	831	234.00	1349	333.00	1103
58.00	397	153.00	2643	235.00	1513	334.00	5127
61.00	1655	154.00	2037	236.00	567	335.00	1506
62.00	4925	155.00	4734	237.00	1543	336.00	160
63.00	5720	156.00	6851	238.00	329	339.00	162
65.00	5482	157.00	1034	239.00	822	341.00	825
68.00	2824	158.00	1078	240.00	1099	342.00	161
69.00	160448	159.00	1441	241.00	1290	344.00	89
70.00	361	160.00	2409	242.00	2668	346.00	104
73.00	2263	161.00	3560	243.00	2887	346.00	1375
74.00	17384	162.00	1025	244.00	39464	347.00	304
75.00	25488	163.00	786	245.00	5551	351.00	114
76.00	9546	164.00	374	246.00	6914	352.00	2371
77.00	181760	165.00	3010	247.00	1527	353.00	1415
78.00	11316	166.00	2416	248.00	435	354.00	3299
79.00	10788	167.00	19736	249.00	1730	355.00	569
80.00	7883	168.00	10140	250.00	231	358.00	31
81.00	12923	169.00	2282	251.00	189	359.00	123
82.00	2973	170.00	816	252.00	229	364.00	70
83.00	3308	171.00	909	253.00	949	365.00	11845
85.00	2467	172.00	1823	254.00	2295	366.00	1826
86.00	4066	173.00	2045	255.00	194176	369.00	80
87.00	2674	174.00	3504	256.00	30224	370.00	272
88.00	66	175.00	6430	257.00	2456	371.00	592

Report Date: 10-Jul-2025 13:15:45 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D\MSSemi_HP18831.rslt\spectra
Injection Date: 09-Jul-2025 09:05:30
Spectrum: Tune Spec :Average 271-273(5.15-5.16) Bgrd 267(5.13) Apex 272(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	2240	176.00	1616	258.00	11268	372.00	4319
93.00	21960	177.00	2872	259.00	1648	373.00	1347
94.00	1343	178.00	1224	260.00	366	374.00	207
95.00	256	179.00	11505	261.00	141	377.00	133
96.00	1706	180.00	8454	264.00	475	383.00	1438
97.00	348	181.00	3608	265.00	3630	384.00	224
98.00	14875	182.00	564	266.00	669	385.00	93
99.00	12568	183.00	165	267.00	573	388.00	61
100.00	1015	184.00	1344	269.00	273	390.00	710
101.00	6732	185.00	6403	270.00	335	391.00	346
102.00	545	186.00	46656	271.00	650	392.00	116
103.00	2120	187.00	12517	272.00	651	399.00	83
104.00	4240	188.00	1698	273.00	6402	400.00	78
105.00	4289	189.00	3209	274.00	15454	401.00	230
106.00	1672	190.00	259	275.00	83616	402.00	2208
107.00	51000	191.00	1467	276.00	12260	403.00	2351
108.00	6885	192.00	3761	277.00	7235	404.00	1018
109.00	1426	193.00	4572	278.00	1175	405.00	91
110.00	89272	194.00	970	279.00	384	410.00	104
111.00	13921	195.00	1097	282.00	319	415.00	254
112.00	1378	196.00	10790	283.00	1080	417.00	57
113.00	1036	197.00	3404	284.00	456	421.00	2028
116.00	2821	198.00	337344	285.00	1198	422.00	1774
117.00	45920	199.00	23696	286.00	302	423.00	14602
118.00	3887	200.00	1516	289.00	394	424.00	4507
119.00	524	201.00	724	291.00	412	425.00	574
120.00	864	202.00	215	292.00	312	429.00	132
121.00	200	203.00	2429	293.00	1484	431.00	50
122.00	2554	204.00	11864	294.00	622	434.00	206
123.00	4767	205.00	20872	295.00	1062	435.00	85
124.00	2146	206.00	85536	296.00	24280	436.00	200
125.00	2510	207.00	12623	297.00	2804	437.00	243
126.00	1200	208.00	2966	298.00	359	438.00	250
127.00	170624	209.00	1056	301.00	467	439.00	1004

Report Date: 10-Jul-2025 13:15:45 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D\MSSemi_HP18831.rslt\spectra
Injection Date: 09-Jul-2025 09:05:30
Spectrum: Tune Spec :Average 271-273(5.15-5.16) Bgrd 267(5.13) Apex 272(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
128.00	13557	210.00	1413	302.00	446	440.00	573
129.00	66040	211.00	3269	303.00	2362	441.00	44864
130.00	5797	212.00	410	304.00	763	442.00	286912
131.00	1263	213.00	408	305.00	207	443.00	53936
132.00	498	214.00	53	308.00	563	444.00	4824
133.00	54	215.00	1270	309.00	287	445.00	259
134.00	1782	216.00	1943	310.00	546	461.00	246
135.00	5144	217.00	22784	311.00	194	462.00	73
136.00	1851	218.00	2649	313.00	54	475.00	80
137.00	2739	219.00	421	313.00	341	476.00	179
138.00	683	220.00	248	314.00	1121	535.00	61
139.00	410	221.00	15395	315.00	2351	550.00	54
140.00	831	222.00	3038	316.00	1534		
141.00	7984	223.00	5421	317.00	402		
142.00	2736	224.00	49088	320.00	143		

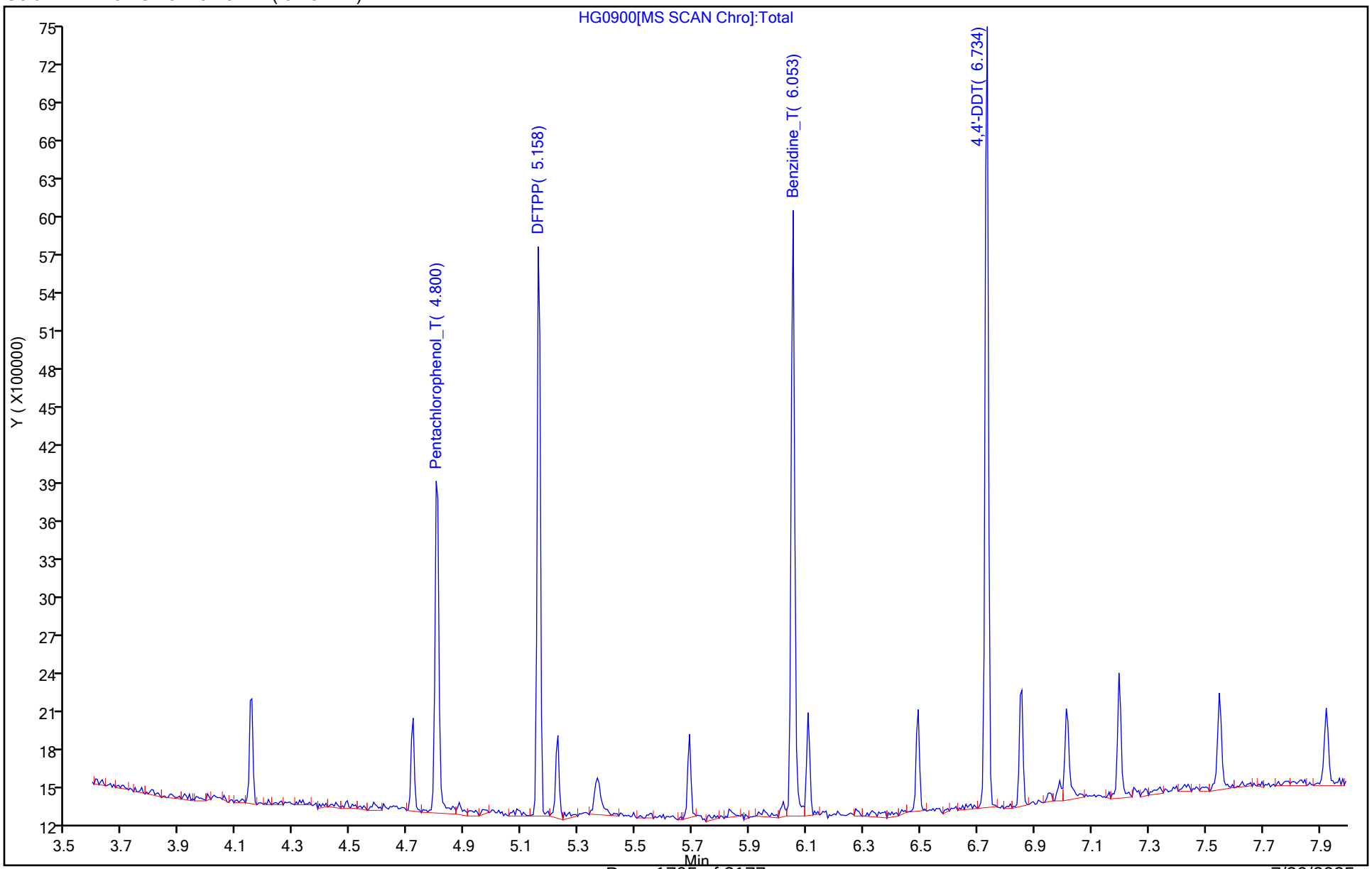
Report Date: 10-Jul-2025 13:15:45 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D

Injection Date:	09-Jul-2025 09:05:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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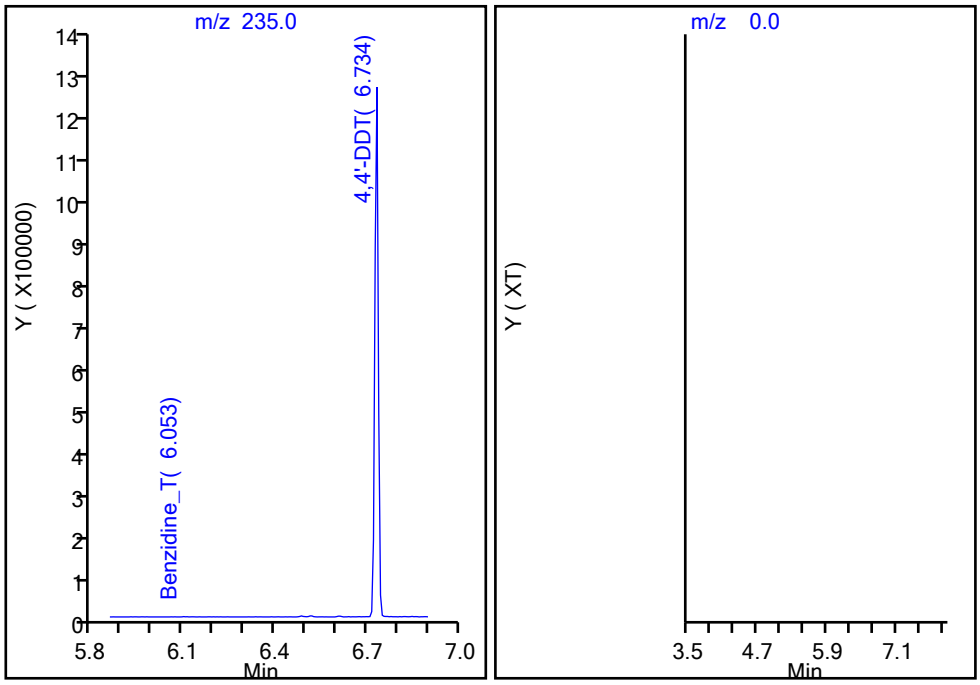
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

181 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 980488
179 4,4'-DDD, Area = 0
180 4,4'-DDE, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed

Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

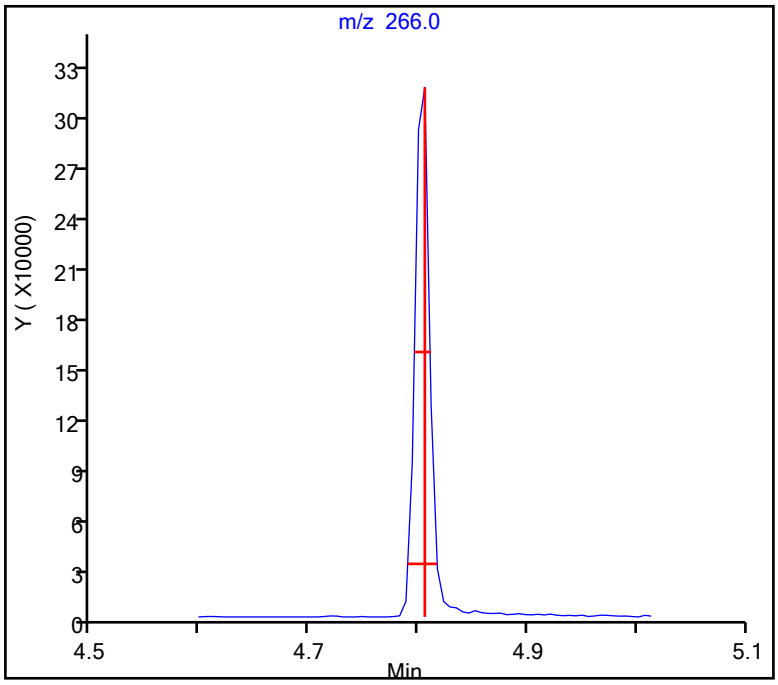
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

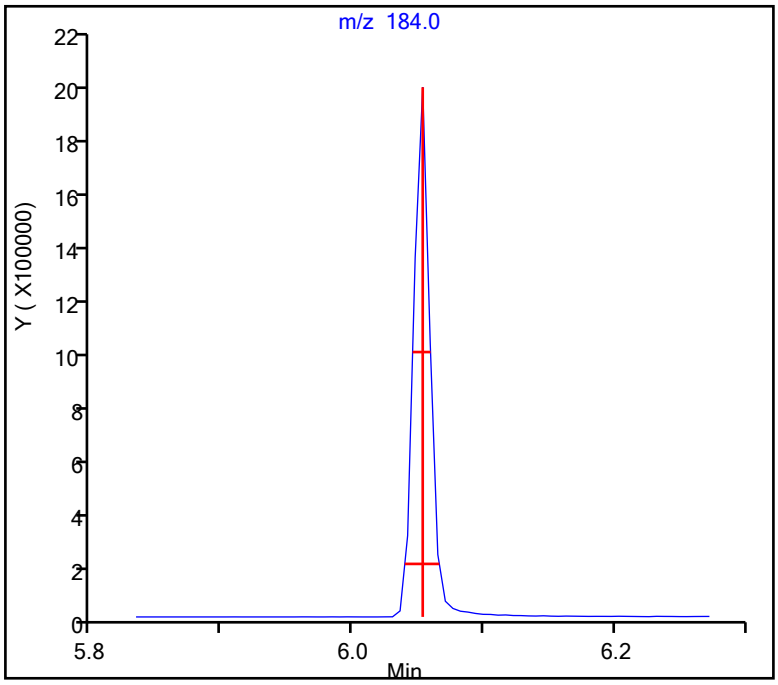
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.93, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-666257/1-A

Matrix: Water
Lab File ID: HF0305.D

Analysis Method: 8270E
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 250(mL)
Date Analyzed: 07/03/2025 14:27

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	63		13-134
321-60-8	2-Fluorobiphenyl (Surr)	73		45-120
367-12-4	2-Fluorophenol (Surr)	50		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	78		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	105		26-123
4165-62-2	Phenol-d5 (Surr)	35		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0305.D
Lims ID: MB 410-666257/1-A
Client ID:
Sample Type: MB
Inject. Date: 03-Jul-2025 14:27:30 ALS Bottle#: 6 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-666257/1-A
Misc. Info.: 410-0152352-020
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	307083	25.0	12.6	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	296509	25.0	8.74	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	98	102177	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	590953	25.0	19.4	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	427292	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1440745	25.0	18.3	
88 2,6-Dinitrotoluene	165		7.228					ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	93	291164	5.00	5.00	
98 2,4-Dinitrotoluene	165		7.622					ND	
104 Diethyl phthalate	149		7.875					ND	7
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	96	191515	25.0	15.7	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	98	606362	5.00	5.00	
129 Phenanthrene	178		8.922					ND	7
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	685407	5.00	5.00	
141 Pyrene	202		10.322					ND	7
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	2933609	25.0	26.4	
151 Chrysene	228		11.751					ND	7
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	751874	5.00	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

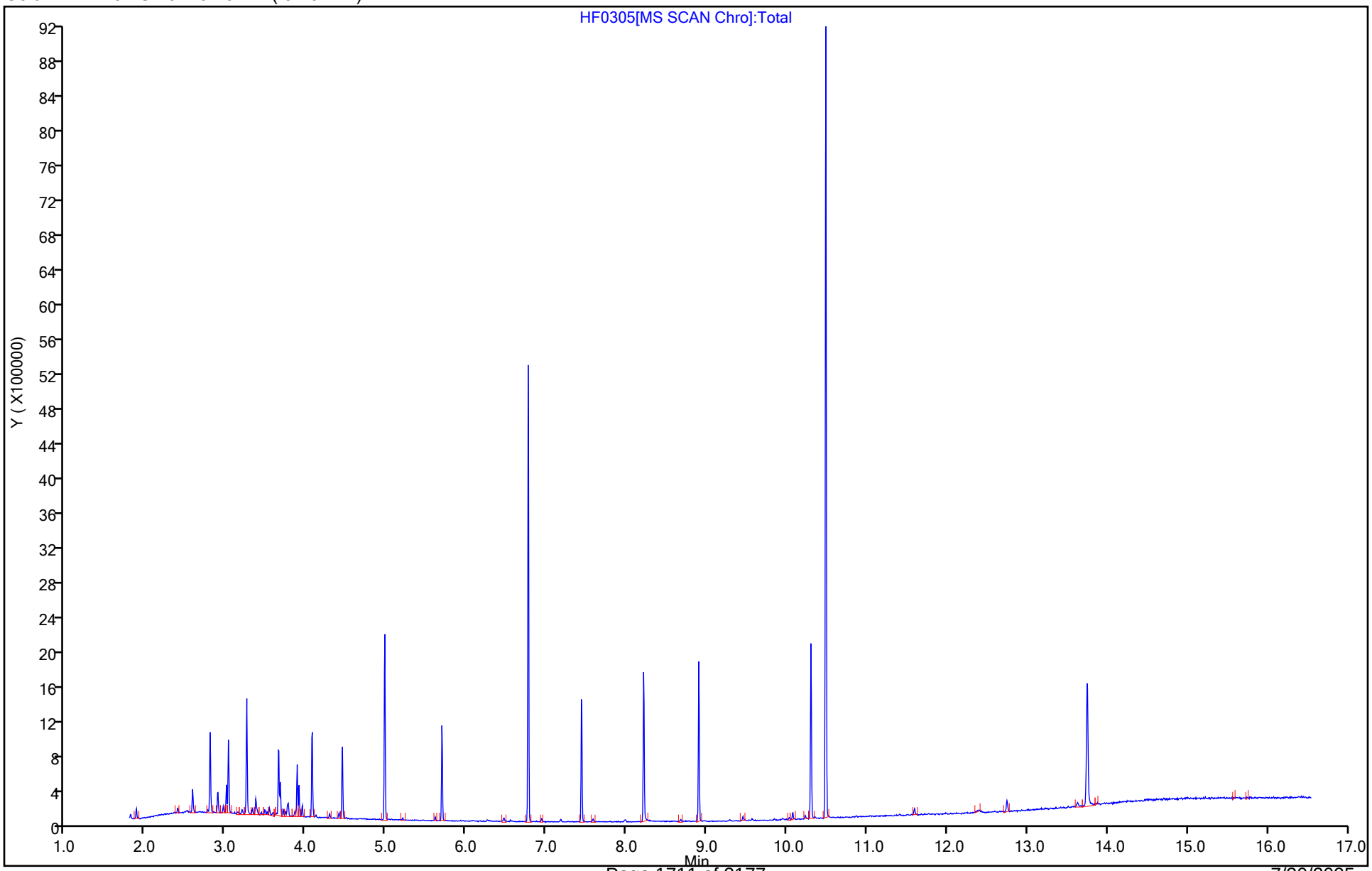
Report Date: 07-Jul-2025 11:28:21 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0305.D

Injection Date:	03-Jul-2025 14:27:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	MB 410-666257/1-A			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0305.D				
Lims ID:	MB 410-666257/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	03-Jul-2025 14:27:30	ALS Bottle#:	6	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-666257/1-A				
Misc. Info.:	410-0152352-020				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:27:34	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.6	50.38
$ 16 Phenol-d5	25.0	8.74	34.96
$ 41 Nitrobenzene-d5	25.0	19.4	77.57
$ 76 2-Fluorobiphenyl (Surr)	25.0	18.3	73.33
$ 113 2,4,6-Tribromophenol	25.0	15.7	62.77
$ 142 p-Terphenyl-d14	25.0	26.4	105.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-666606/1-A

Matrix: Water
Lab File ID: HG0904.D

Analysis Method: 8270E
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 250(mL)
Date Analyzed: 07/09/2025 11:15

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	ND		10	
606-20-2	2,6-Dinitrotoluene	ND		10	
84-66-2	Diethyl phthalate	ND		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	62		13-134
321-60-8	2-Fluorobiphenyl (Surr)	80		45-120
367-12-4	2-Fluorophenol (Surr)	57		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	94		26-123
4165-62-2	Phenol-d5 (Surr)	40		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D
Lims ID: MB 410-666606/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Jul-2025 11:15:30 ALS Bottle#: 4 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-666606/1-A
Misc. Info.: 410-0152870-010
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:13:53 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88		2.093					ND	U
	3 Pyridine	79		2.310					ND	7
$	10 2-Fluorophenol	112	3.257	3.257	0.000	94	567935	25.0	14.2	
	15 Benzaldehyde	77		4.034					ND	7
$	16 Phenol-d5	99	4.075	4.075	0.000	97	556237	25.0	10.0	
	17 Phenol	94		4.087					ND	7
	19 Bis(2-chloroethyl)ether	93		4.187					ND	U
	20 2-Chlorophenol	128		4.246					ND	7
*	23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	167264	5.00	5.00	
	24 1,4-Dichlorobenzene	146		4.463					ND	7
	26 Benzyl alcohol	108		4.569					ND	7
	30 2-Methylphenol	108		4.675					ND	
	32 2,2'-oxybis[1-chloropropane]	45		4.704					ND	7
	36 4-Methylphenol	108		4.822					ND	7
	34 Acetophenone	105		4.834					ND	7
	35 N-Nitrosodi-n-propylamine	70		4.834					ND	7
	40 Hexachloroethane	117		4.940					ND	7
$	41 Nitrobenzene-d5	82	4.975	4.981	-0.006	93	1007304	25.0	20.2	
	42 Nitrobenzene	77		4.999					ND	U
	45 Isophorone	82		5.234					ND	7
	46 2-Nitrophenol	139		5.310					ND	
	48 2,4-Dimethylphenol	107		5.351					ND	
	51 Bis(2-chloroethoxy)methane	93		5.451					ND	7
	52 2,4-Dichlorophenol	162		5.551					ND	
	53 1,2,4-Trichlorobenzene	180		5.634					ND	7
*	54 Naphthalene-d8	136	5.692	5.693	-0.001	100	699053	5.00	5.00	
	55 Naphthalene	128		5.716					ND	7
	57 4-Chloroaniline	127		5.763					ND	7
	60 Hexachlorobutadiene	225		5.840					ND	
	63 Caprolactam	113		6.093					ND	7
	66 4-Chloro-3-methylphenol	107		6.251					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
68 2-Methylnaphthalene	142		6.404					ND	
69 1-Methylnaphthalene	142		6.504					ND	
71 Hexachlorocyclopentadiene	237		6.563					ND	
72 1,2,4,5-Tetrachlorobenzene	216		6.569					ND	
74 2,4,6-Trichlorophenol	196		6.681					ND	
75 2,4,5-Trichlorophenol	196		6.716					ND	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2391869	25.0	19.9	
78 1,1'-Biphenyl	154		6.869					ND	7
79 2-Chloronaphthalene	162		6.887					ND	7
82 2-Nitroaniline	138		6.987					ND	7
86 Dimethyl phthalate	163		7.175					ND	7
88 2,6-Dinitrotoluene	165		7.228					ND	
89 Acenaphthylene	152		7.298					ND	7
90 3-Nitroaniline	138		7.393					ND	
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	95	445744	5.00	5.00	
93 Acenaphthene	153		7.469					ND	7
94 2,4-Dinitrophenol	184		7.492					ND	
95 4-Nitrophenol	109		7.557					ND	7
98 2,4-Dinitrotoluene	165		7.622					ND	U
97 Dibenzofuran	168		7.640					ND	7
101 2,3,4,6-Tetrachlorophenol	232		7.763					ND	
104 Diethyl phthalate	149		7.875					ND	7
105 Fluorene	166		7.981					ND	
108 4-Chlorophenyl phenyl ether	204		7.981					ND	7
109 4-Nitroaniline	138		7.992					ND	
110 4,6-Dinitro-2-methylphenol	198		8.028					ND	7
111 N-Nitrosodiphenylamine	169		8.098					ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	287692	25.0	15.4	
118 4-Bromophenyl phenyl ether	248		8.463					ND	
120 Hexachlorobenzene	284		8.516					ND	
122 Atrazine	200		8.628					ND	
123 Pentachlorophenol	266		8.716					ND	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	894356	5.00	5.00	
129 Phenanthrene	178		8.922					ND	7
130 Anthracene	178		8.975					ND	7
131 Carbazole	167		9.134					ND	7
133 Di-n-butyl phthalate	149		9.481					ND	7
138 Fluoranthene	202		10.092					ND	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	971842	5.00	5.00	
141 Pyrene	202		10.322					ND	7
$ 142 p-Terphenyl-d14	244	10.486	10.480	0.000	98	3707823	25.0	23.5	
146 Butyl benzyl phthalate	149		11.033					ND	7
149 3,3'-Dichlorobenzidine	252		11.675					ND	7
148 Benzo[a]anthracene	228		11.704					ND	7
151 Chrysene	228		11.751					ND	7
152 Bis(2-ethylhexyl) phthalate	149		11.769					ND	7
154 Di-n-octyl phthalate	149		12.686					ND	7
155 Benzo[b]fluoranthene	252		13.198					ND	7
157 Benzo[k]fluoranthene	252		13.239					ND	7
158 Benzo[a]pyrene	252		13.669					ND	7
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	914158	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276		15.457					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
164 Dibenz(a,h)anthracene	278		15.504					ND	7
165 Benzo[g,h,i]perylene	276		15.945					ND	7
S 337 3 & 4 Methylphenol	108		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

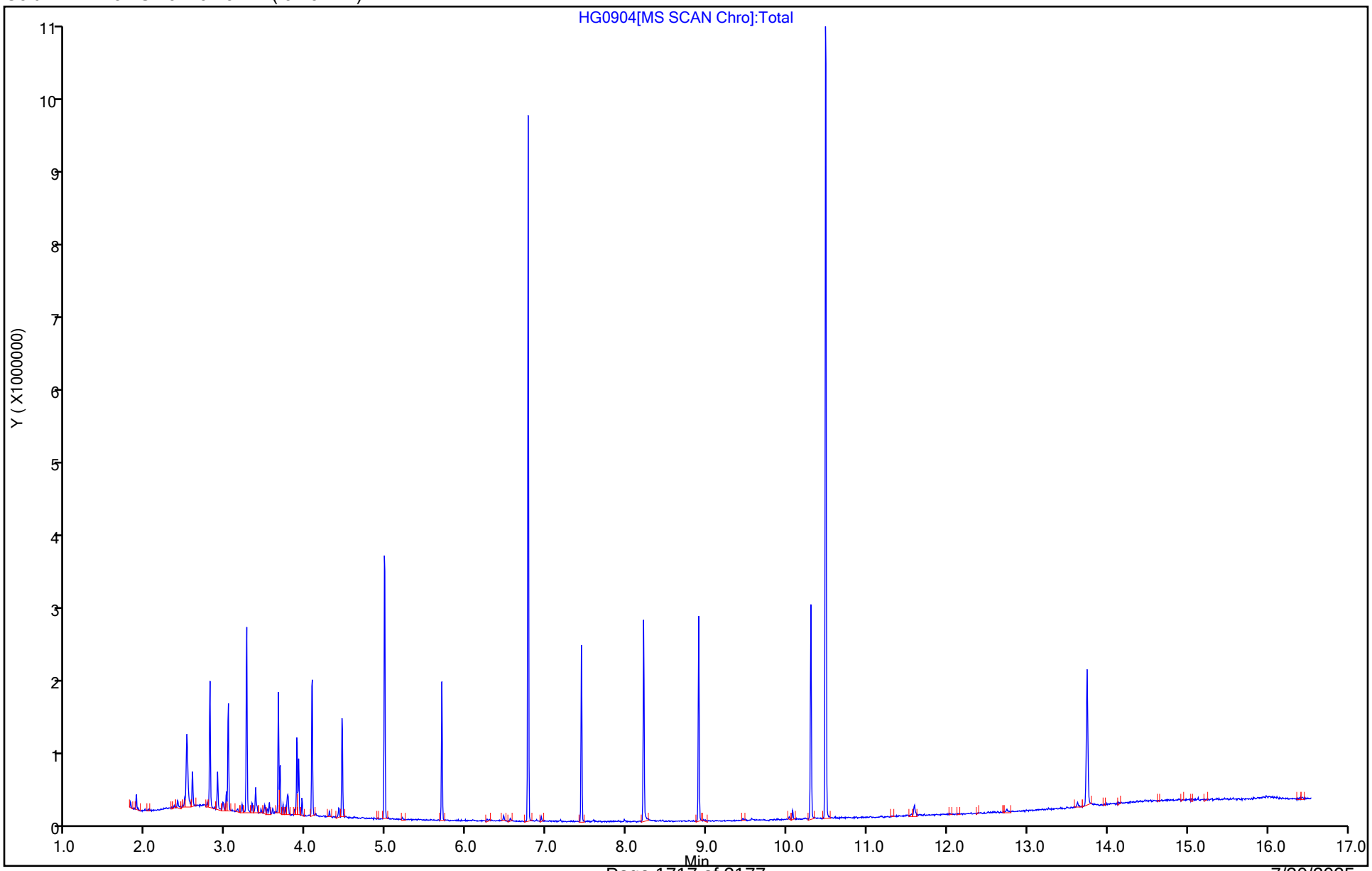
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:06 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D				
Injection Date:	09-Jul-2025 11:15:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	MB 410-666606/1-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D				
Lims ID:	MB 410-666606/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	09-Jul-2025 11:15:30	ALS Bottle#:	4	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-666606/1-A				
Misc. Info.:	410-0152870-010				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:13:53	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	14.2	56.92
$ 16 Phenol-d5	25.0	10.0	40.07
$ 41 Nitrobenzene-d5	25.0	20.2	80.82
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.9	79.52
$ 113 2,4,6-Tribromophenol	25.0	15.4	61.59
$ 142 p-Terphenyl-d14	25.0	23.5	93.96

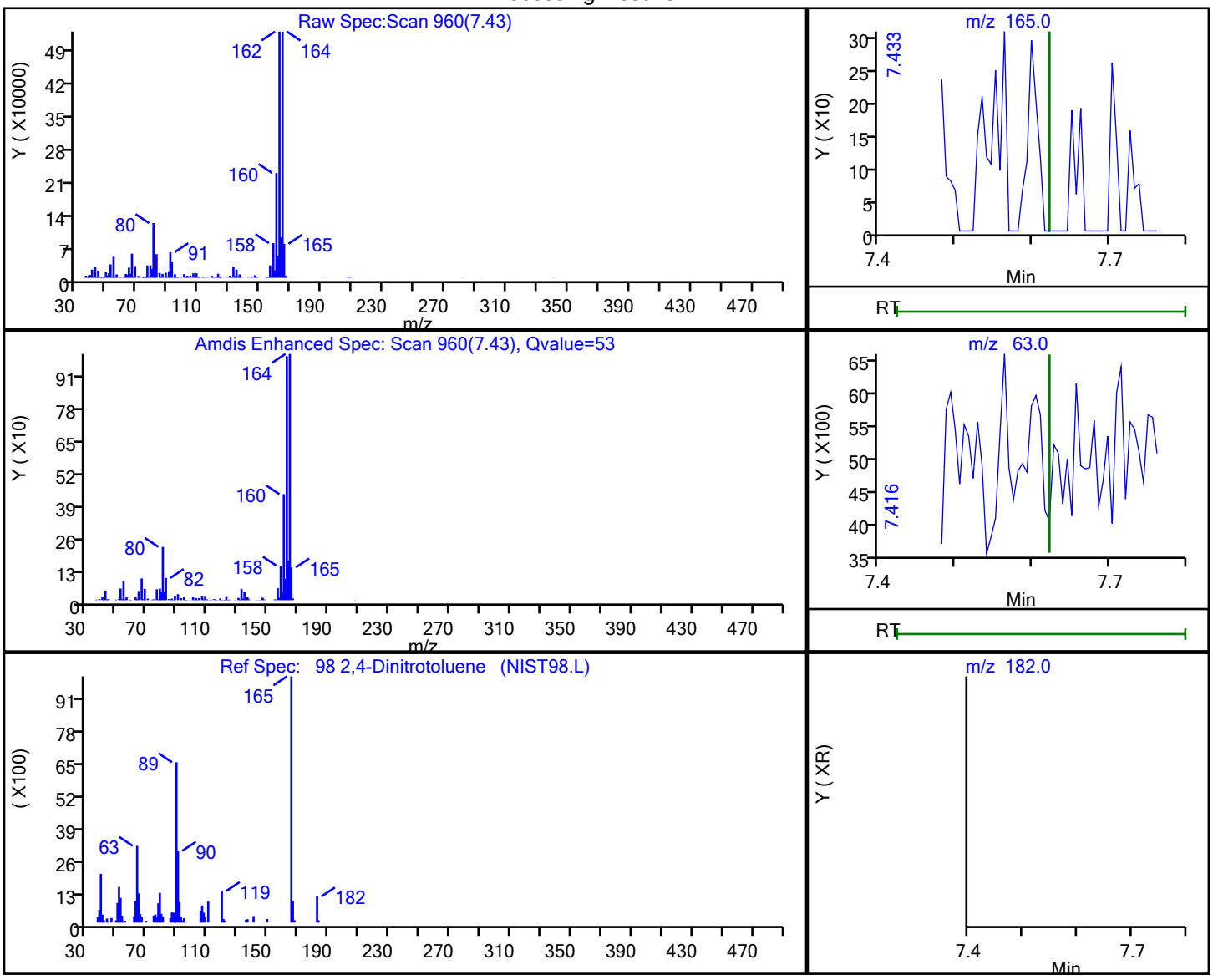
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D				
Injection Date:	09-Jul-2025 11:15:30	Instrument ID:	HP18831		
Lims ID:	MB 410-666606/1-A				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	4	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	60228	1.912941
7.42	63.00	5350	
7.62	182.00	0	
7.43	89.00	2375	

Reviewer: W6ZA, 10-Jul-2025 12:52:48 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-666257/2-A

Matrix: Water
Lab File ID: HF0306.D

Analysis Method: 8270E
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 250(mL)
Date Analyzed: 07/03/2025 14:48

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	46.8		10	
606-20-2	2,6-Dinitrotoluene	43.0		10	
84-66-2	Diethyl phthalate	40.8		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		13-134
321-60-8	2-Fluorobiphenyl (Surr)	63		45-120
367-12-4	2-Fluorophenol (Surr)	52		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	74		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	95		26-123
4165-62-2	Phenol-d5 (Surr)	37		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0306.D
Lims ID: LCS 410-666257/2-A
Client ID:
Sample Type: LCS
Inject. Date: 03-Jul-2025 14:48:30 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-666257/2-A
Misc. Info.: 410-0152352-021
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	355891	25.0	12.9	
$ 16 Phenol-d5	99	4.075	4.069	0.006	97	358586	25.0	9.36	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	96	115432	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	640154	25.0	18.4	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	488472	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1513667	25.0	15.8	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	204253	12.5	10.8	
* 91 Acenaphthene-d10	164	7.439	7.440	-0.001	92	355210	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	94	293669	12.5	11.7	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1016633	12.5	10.2	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	96	280819	25.0	18.9	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	726946	5.00	5.00	
129 Phenanthrene	178	8.922	8.922	0.000	98	1684839	12.5	10.4	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	833756	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	2212286	12.5	10.8	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	3224833	25.0	23.8	
151 Chrysene	228	11.745	11.751	-0.006	96	2362161	12.5	12.2	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	898913	5.00	5.00	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

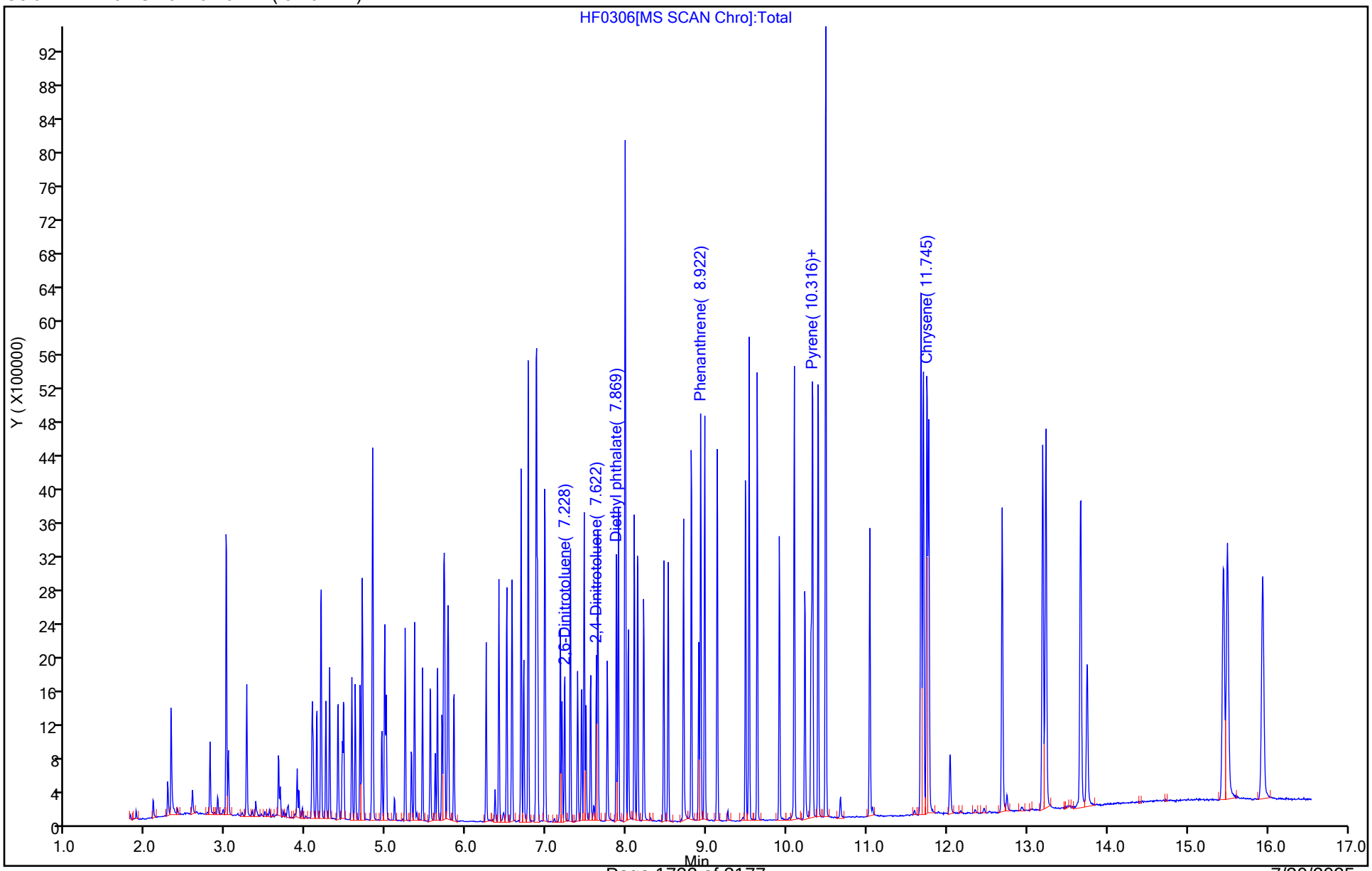
Report Date: 07-Jul-2025 11:28:24 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0306.D

Injection Date:	03-Jul-2025 14:48:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	LCS 410-666257/2-A			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0306.D
Lims ID: LCS 410-666257/2-A
Client ID:
Sample Type: LCS
Inject. Date: 03-Jul-2025 14:48:30 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-666257/2-A
Misc. Info.: 410-0152352-021
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.9	51.69
$ 16 Phenol-d5	25.0	9.36	37.43
$ 41 Nitrobenzene-d5	25.0	18.4	73.50
$ 76 2-Fluorobiphenyl (Surr)	25.0	15.8	63.15
$ 113 2,4,6-Tribromophenol	25.0	18.9	75.44
$ 142 p-Terphenyl-d14	25.0	23.8	95.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-666606/2-A

Matrix: Water
Lab File ID: HG0905.D

Analysis Method: 8270E
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 250(mL)
Date Analyzed: 07/09/2025 11:36

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	49.1		10	
606-20-2	2,6-Dinitrotoluene	43.9		10	
84-66-2	Diethyl phthalate	32.8		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	77		13-134
321-60-8	2-Fluorobiphenyl (Surr)	66		45-120
367-12-4	2-Fluorophenol (Surr)	50		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	60		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	102		26-123
4165-62-2	Phenol-d5 (Surr)	39		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0905.D
Lims ID: LCS 410-666606/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2025 11:36:30 ALS Bottle#: 5 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-666606/2-A
Misc. Info.: 410-0152870-011
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:13:53 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.093	2.093	0.000	96	109062	12.5	5.33	
3 Pyridine	79	2.316	2.310	0.006	89	618905	25.0	10.9	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	578092	25.0	12.4	
15 Benzaldehyde	77	4.034	4.034	0.000	94	294179	12.5	5.92	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	635206	25.0	9.80	
17 Phenol	94	4.087	4.087	0.000	99	395405	12.5	5.73	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	92	466813	12.5	8.33	
20 2-Chlorophenol	128	4.246	4.245	0.000	97	405922	12.5	8.04	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	195294	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	92	446306	12.5	7.45	
26 Benzyl alcohol	108	4.569	4.569	0.000	91	318273	12.5	8.58	
30 2-Methylphenol	108	4.669	4.675	-0.006	99	423574	12.5	8.45	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	766250	12.5	8.30	
36 4-Methylphenol	108	4.822	4.822	0.000	97	450368	12.5	8.68	
34 Acetophenone	105	4.828	4.834	-0.006	83	718700	12.5	8.52	
35 N-Nitrosodi-n-propylamine	70	4.828	4.834	-0.006	87	381101	12.5	8.00	
40 Hexachloroethane	117	4.940	4.939	0.000	93	158163	12.5	6.54	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	870858	25.0	15.0	
42 Nitrobenzene	77	4.998	4.998	-0.001	91	517130	12.5	8.23	
45 Isophorone	82	5.234	5.234	0.000	99	1078969	12.5	8.85	
46 2-Nitrophenol	139	5.310	5.310	0.000	97	151067	12.5	7.78	
48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	548822	12.5	9.62	
51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	98	670645	12.5	8.88	
52 2,4-Dichlorophenol	162	5.545	5.551	-0.006	96	413496	12.5	9.62	
53 1,2,4-Trichlorobenzene	180	5.634	5.634	0.000	95	407479	12.5	7.42	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	815872	5.00	5.00	
55 Naphthalene	128	5.716	5.716	0.000	98	1408994	12.5	8.41	
57 4-Chloroaniline	127	5.763	5.763	0.000	96	635783	12.5	8.68	
60 Hexachlorobutadiene	225	5.840	5.840	0.000	96	218503	12.5	6.74	
63 Caprolactam	113	6.087	6.092	-0.006	75	75680	12.5	4.14	
66 4-Chloro-3-methylphenol	107	6.245	6.251	-0.006	97	531948	12.5	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	961828	12.5	8.82	
69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	987345	12.5	8.72	
71 Hexachlorocyclopentadiene	237	6.563	6.558	0.000	95	132556	12.5	3.39	
72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.564	0.000	97	505805	12.5	8.15	
74 2,4,6-Trichlorophenol	196	6.681	6.675	0.000	77	341507	12.5	10.9	
75 2,4,5-Trichlorophenol	196	6.716	6.711	0.000	95	448921	12.5	11.1	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2325619	25.0	16.5	
78 1,1'-Biphenyl	154	6.869	6.863	0.000	96	1441847	12.5	9.38	
79 2-Chloronaphthalene	162	6.887	6.881	-0.001	97	1085888	12.5	8.58	
82 2-Nitroaniline	138	6.987	6.981	-0.001	83	355090	12.5	10.5	
86 Dimethyl phthalate	163	7.169	7.169	-0.006	99	616207	12.5	4.24	
88 2,6-Dinitrotoluene	165	7.228	7.222	0.000	92	306474	12.5	11.0	
89 Acenaphthylene	152	7.292	7.293	-0.006	98	1985297	12.5	10.4	
90 3-Nitroaniline	138	7.386	7.387	-0.006	92	338835	12.5	10.7	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	521994	5.00	5.00	
93 Acenaphthene	153	7.469	7.463	0.000	96	1261925	12.5	9.72	
94 2,4-Dinitrophenol	184	7.492	7.486	0.000	81	190381	25.0	29.9	
95 4-Nitrophenol	109	7.551	7.551	-0.006	96	296311	25.0	17.2	
98 2,4-Dinitrotoluene	165	7.622	7.616	0.000	94	452421	12.5	12.3	
97 Dibenzofuran	168	7.639	7.633	-0.001	96	1874928	12.5	10.3	
101 2,3,4,6-Tetrachlorophenol	232	7.757	7.757	-0.006	73	322458	12.5	9.28	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1199167	12.5	8.19	
105 Fluorene	166	7.975	7.974	-0.006	93	1586190	12.5	10.6	
108 4-Chlorophenyl phenyl ether	204	7.981	7.974	0.000	92	794647	12.5	10.7	
109 4-Nitroaniline	138	7.986	7.986	-0.006	82	397362	12.5	11.2	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	-0.006	82	319084	25.0	30.3	
111 N-Nitrosodiphenylamine	169	8.092	8.093	-0.006	72	1219518	10.6	10.2	
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	422099	25.0	19.3	
118 4-Bromophenyl phenyl ether	248	8.463	8.457	0.000	67	501378	12.5	11.2	
120 Hexachlorobenzene	284	8.516	8.510	0.000	95	576899	12.5	10.8	
122 Atrazine	200	8.622	8.622	-0.006	92	468380	12.5	11.0	
123 Pentachlorophenol	266	8.710	8.710	-0.006	93	535594	25.0	21.7	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1005653	5.00	5.00	
129 Phenanthrene	178	8.922	8.916	0.000	98	2549827	12.5	11.4	
130 Anthracene	178	8.975	8.969	0.000	97	2590659	12.5	11.8	
131 Carbazole	167	9.128	9.127	-0.006	96	2458597	12.5	11.9	
133 Di-n-butyl phthalate	149	9.480	9.474	-0.001	100	2454502	12.5	11.1	
138 Fluoranthene	202	10.092	10.085	0.000	97	2926372	12.5	11.7	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1082512	5.00	5.00	
141 Pyrene	202	10.316	10.316	-0.006	97	3095331	12.5	11.7	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4496622	25.0	25.6	
146 Butyl benzyl phthalate	149	11.033	11.027	0.000	98	744659	12.5	7.65	
149 3,3'-Dichlorobenzidine	252	11.674	11.668	-0.001	73	1993831	25.0	20.0	
148 Benzo[a]anthracene	228	11.698	11.697	-0.006	98	3119823	12.5	12.1	
151 Chrysene	228	11.745	11.744	-0.006	96	3146571	12.5	12.6	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.762	0.000	97	1709228	12.5	11.5	
154 Di-n-octyl phthalate	149	12.686	12.681	0.000	99	2575049	12.5	11.0	
155 Benzo[b]fluoranthene	252	13.192	13.192	-0.006	97	2849102	12.5	11.0	
157 Benzo[k]fluoranthene	252	13.233	13.233	-0.006	99	3297913	12.5	12.8	
158 Benzo[a]pyrene	252	13.668	13.657	-0.001	76	2852009	12.5	12.4	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1042765	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276	15.451	15.451	-0.006	99	2675396	12.5	12.7	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
164 Dibenz(a,h)anthracene	278	15.498	15.497	-0.006	91	2826868	12.5	13.3	
165 Benzo[g,h,i]perylene	276	15.939	15.938	-0.006	98	2676861	12.5	12.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:12 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0905.D

Injection Date: 09-Jul-2025 11:36:30 Instrument ID: HP18831 Operator ID: eea115318_kel10217

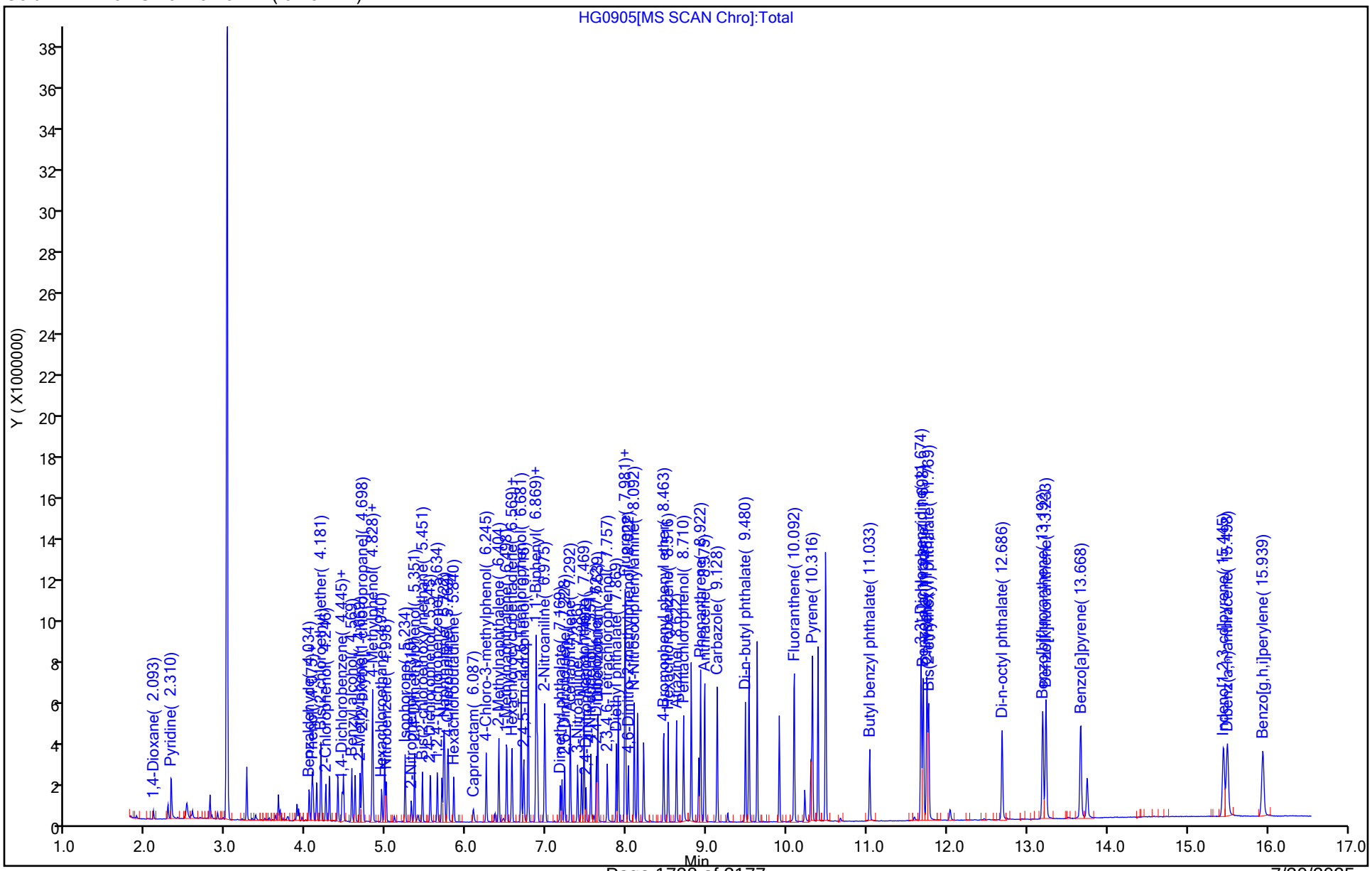
Lims ID: LCS 410-666606/2-A Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0905.D				
Lims ID:	LCS 410-666606/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	09-Jul-2025 11:36:30	ALS Bottle#:	5	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 410-666606/2-A				
Misc. Info.:	410-0152870-011				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:13:53	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.4	49.62
$ 16 Phenol-d5	25.0	9.80	39.19
$ 41 Nitrobenzene-d5	25.0	15.0	59.87
$ 76 2-Fluorobiphenyl (Surr)	25.0	16.5	66.03
$ 113 2,4,6-Tribromophenol	25.0	19.3	77.16
$ 142 p-Terphenyl-d14	25.0	25.6	102.30

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-666257/3-A

Matrix: Water
Lab File ID: HF0307.D

Analysis Method: 8270E
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 250(mL)
Date Analyzed: 07/03/2025 15:10

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	48.4		10	
606-20-2	2,6-Dinitrotoluene	43.1		10	
84-66-2	Diethyl phthalate	42.8		5.0	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		13-134
321-60-8	2-Fluorobiphenyl (Surr)	64		45-120
367-12-4	2-Fluorophenol (Surr)	51		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	69		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	92		26-123
4165-62-2	Phenol-d5 (Surr)	38		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0307.D
Lims ID: LCSD 410-666257/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 03-Jul-2025 15:10:30 ALS Bottle#: 8 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-666257/3-A
Misc. Info.: 410-0152352-022
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	277788	25.0	12.7	
$ 16 Phenol-d5	99	4.075	4.069	0.006	97	290132	25.0	9.53	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	96	91690	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	508766	25.0	17.2	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	99	414161	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1246787	25.0	15.9	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	166920	12.5	10.8	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	289681	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	247432	12.5	12.1	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	869954	12.5	10.7	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	227027	25.0	18.7	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	613354	5.00	5.00	
129 Phenanthrene	178	8.922	8.922	0.000	98	1424152	12.5	10.4	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	98	726973	5.00	5.00	
141 Pyrene	202	10.316	10.322	-0.006	98	1903178	12.5	10.7	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	2710420	25.0	23.0	
151 Chrysene	228	11.751	11.751	0.000	96	2105568	12.5	12.5	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	847541	5.00	5.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

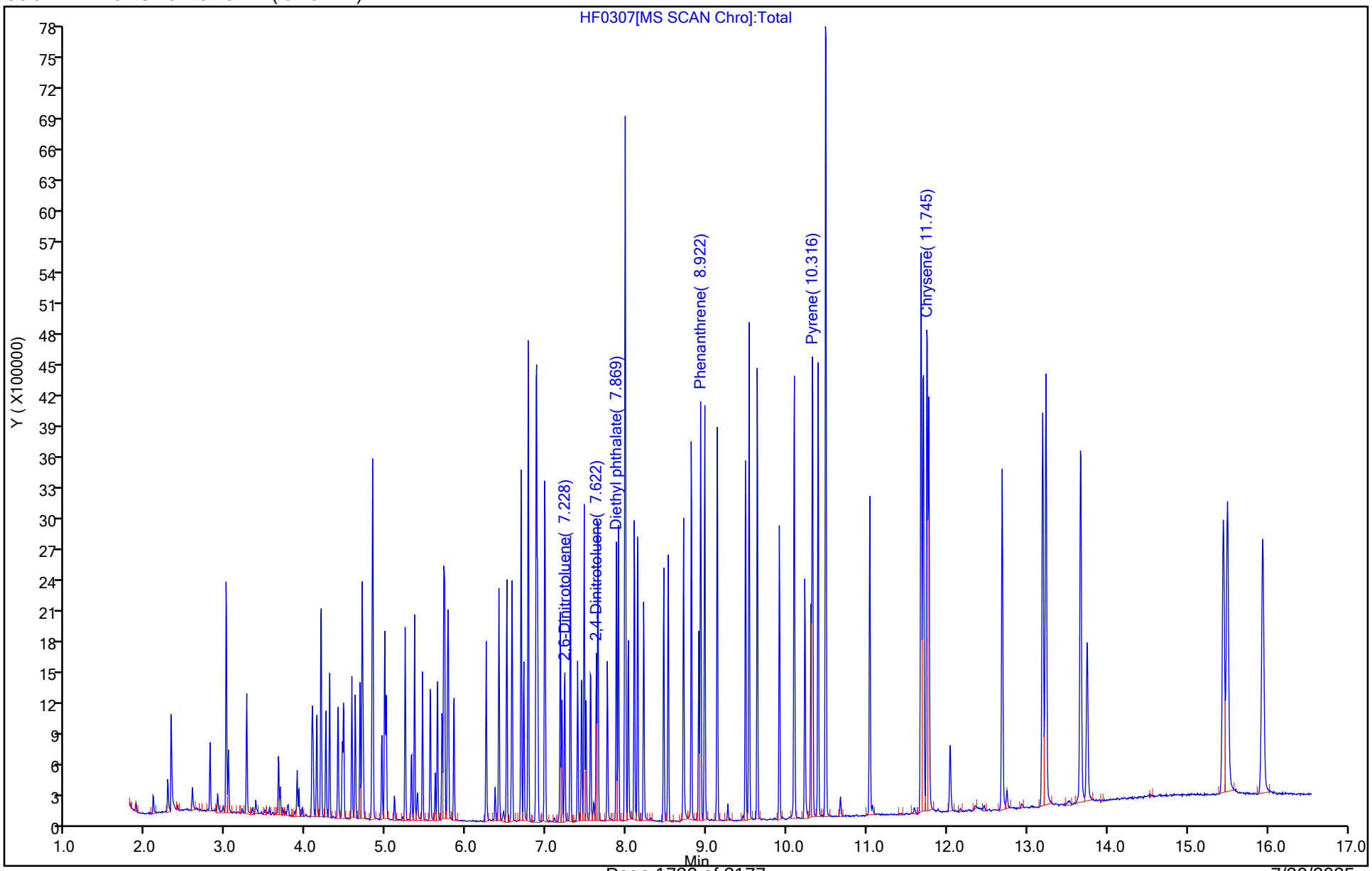
Report Date: 07-Jul-2025 11:28:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0307.D

Injection Date:	03-Jul-2025 15:10:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	LCSD 410-666257/3-A			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0307.D				
Lims ID:	LCSD 410-666257/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	03-Jul-2025 15:10:30	ALS Bottle#:	8	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 410-666257/3-A				
Misc. Info.:	410-0152352-022				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:27:34	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.7	50.79
$ 16 Phenol-d5	25.0	9.53	38.12
$ 41 Nitrobenzene-d5	25.0	17.2	68.90
$ 76 2-Fluorobiphenyl (Surr)	25.0	15.9	63.79
$ 113 2,4,6-Tribromophenol	25.0	18.7	74.79
$ 142 p-Terphenyl-d14	25.0	23.0	91.82

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MS
Lab Sample ID: 410-229895-4 MS

Matrix: Water
Lab File ID: HG0912.D

Analysis Method: 8270E
Date Collected: 06/26/2025 09:45

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 245.3(mL)
Date Analyzed: 07/09/2025 14:55

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	51.0		10	
606-20-2	2,6-Dinitrotoluene	47.7		10	
84-66-2	Diethyl phthalate	43.4		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	17		13-134
321-60-8	2-Fluorobiphenyl (Surr)	71		45-120
367-12-4	2-Fluorophenol (Surr)	25		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	76		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	101		26-123
4165-62-2	Phenol-d5 (Surr)	17		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0912.D
Lims ID: 410-229895-H-4-B MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 09-Jul-2025 14:55:30 ALS Bottle#: 12 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-H-4-B MS
Misc. Info.: 410-0152870-016
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	265351	25.0	6.22	
$ 16 Phenol-d5	99	4.075	4.075	0.000	95	254173	25.0	4.28	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	178766	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1066594	25.0	19.0	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	785065	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2510793	25.0	17.8	
88 2,6-Dinitrotoluene	165	7.228	7.222	0.000	93	326077	12.5	11.7	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	93	521358	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.616	0.000	94	460478	12.5	12.5	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1556027	12.5	10.6	
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	92860	25.0	4.25	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	999501	5.00	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	98	1088174	5.00	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4462378	25.0	25.2	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1073276	5.00	5.00	

QC Flag Legend
Processing Flags

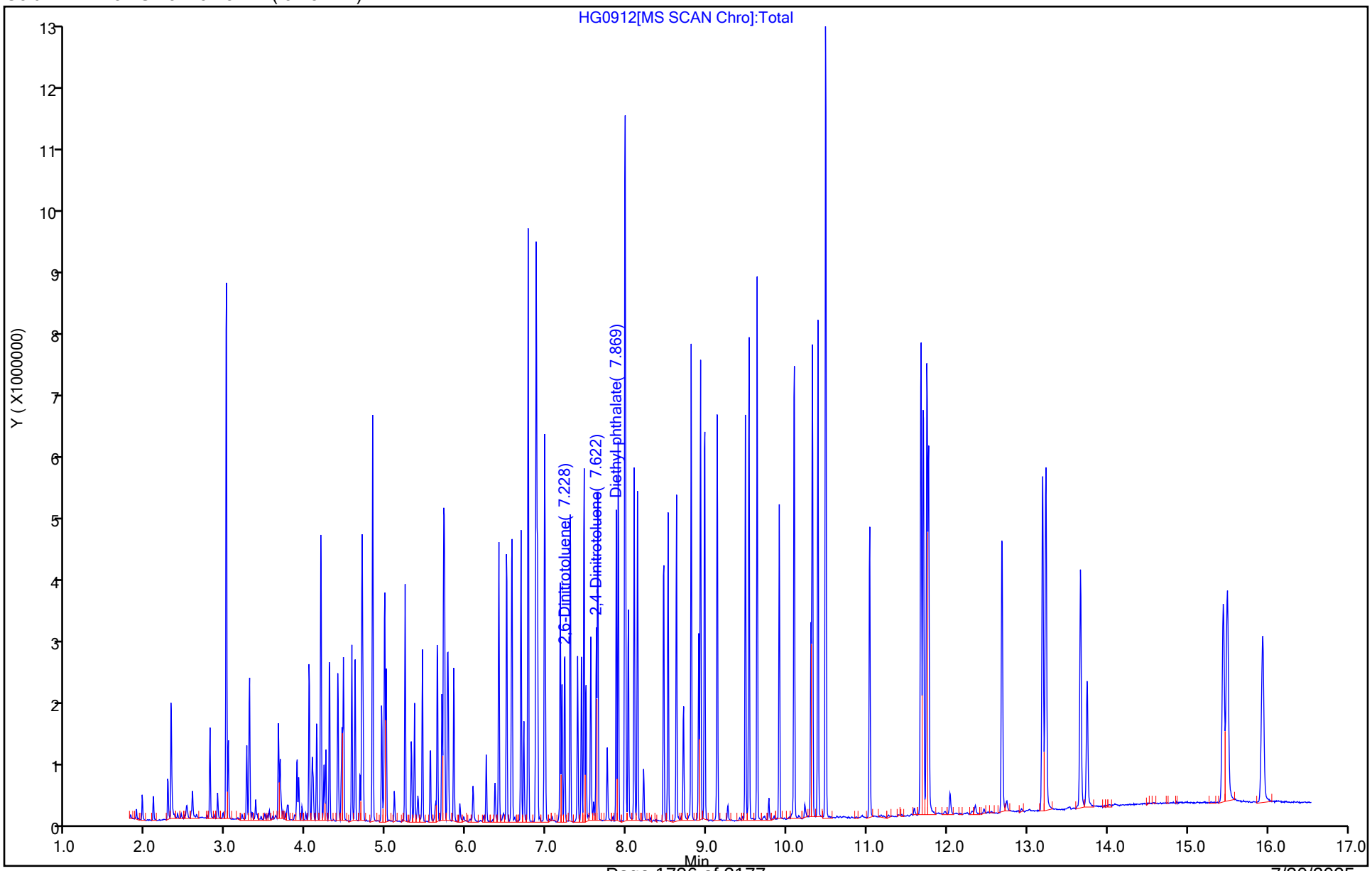
Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:44 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0912.D				
Injection Date:	09-Jul-2025 14:55:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-4-B MS			Worklist Smp#:	16
Client ID:	16WC1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0912.D				
Lims ID:	410-229895-H-4-B MS				
Client ID:	16WC1A				
Sample Type:	MS				
Inject. Date:	09-Jul-2025 14:55:30	ALS Bottle#:	12	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-4-B MS				
Misc. Info.:	410-0152870-016				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	6.22	24.88
$ 16 Phenol-d5	25.0	4.28	17.13
$ 41 Nitrobenzene-d5	25.0	19.0	76.20
$ 76 2-Fluorobiphenyl (Surr)	25.0	17.8	71.37
$ 113 2,4,6-Tribromophenol	25.0	4.25	17.00
$ 142 p-Terphenyl-d14	25.0	25.2	100.99

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MSD
Lab Sample ID: 410-229895-4 MSD

Matrix: Water
Lab File ID: HG0913.D

Analysis Method: 8270E
Date Collected: 06/26/2025 09:45

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 246.9(mL)
Date Analyzed: 07/09/2025 15:17

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
121-14-2	2,4-Dinitrotoluene	53.7		10	
606-20-2	2,6-Dinitrotoluene	49.9		10	
84-66-2	Diethyl phthalate	47.0		5.1	

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	26		13-134
321-60-8	2-Fluorobiphenyl (Surr)	77		45-120
367-12-4	2-Fluorophenol (Surr)	27		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	102		26-123
4165-62-2	Phenol-d5 (Surr)	23		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0913.D
Lims ID: 410-229895-H-4-C MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 09-Jul-2025 15:17:30 ALS Bottle#: 13 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-H-4-C MSD
Misc. Info.: 410-0152870-017
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	296128	25.0	6.81	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	340400	25.0	5.63	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	182239	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1141653	25.0	20.4	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	783446	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2622193	25.0	19.2	
88 2,6-Dinitrotoluene	165	7.228	7.222	0.000	94	332813	12.5	12.3	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	505278	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.616	0.000	95	472996	12.5	13.3	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1643655	12.5	11.6	
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	96	138305	25.0	6.53	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	987547	5.00	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1061851	5.00	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.480	0.000	98	4379299	25.0	25.4	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1002992	5.00	5.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

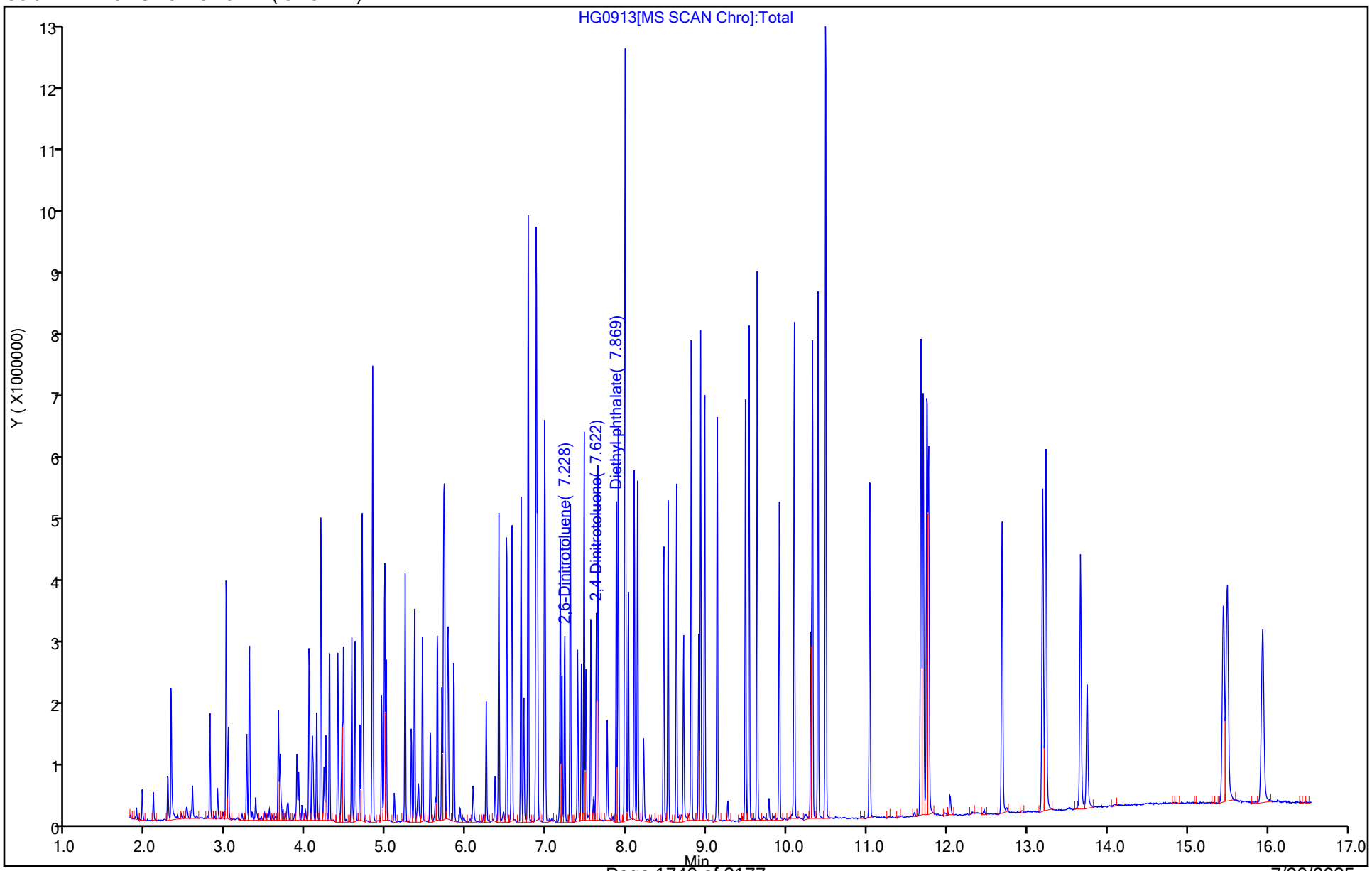
Report Date: 10-Jul-2025 13:14:47 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0913.D

Injection Date:	09-Jul-2025 15:17:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-4-C MSD			Worklist Smp#:	17
Client ID:	16WC1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0913.D				
Lims ID:	410-229895-H-4-C MSD				
Client ID:	16WC1A				
Sample Type:	MSD				
Inject. Date:	09-Jul-2025 15:17:30	ALS Bottle#:	13	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-4-C MSD				
Misc. Info.:	410-0152870-017				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	6.81	27.24
$ 16 Phenol-d5	25.0	5.63	22.51
$ 41 Nitrobenzene-d5	25.0	20.4	81.73
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.2	76.91
$ 113 2,4,6-Tribromophenol	25.0	6.53	26.12
$ 142 p-Terphenyl-d14	25.0	25.4	101.57

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 06/23/2025 19:52

Analysis Batch Number: 661633 End Date: 06/24/2025 04:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-661633/1		06/23/2025 19:52	1	HF2350.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-661633/2		06/23/2025 20:42	1	HF2351.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/3		06/23/2025 21:24	1	HF2352.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/4		06/23/2025 21:46	1	HF2353.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/5		06/23/2025 22:08	1	HF2354.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/6		06/23/2025 22:30	1	HF2355.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/7		06/23/2025 22:52	1	HF2356.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/8		06/23/2025 23:14	1	HF2357.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/9		06/23/2025 23:36	1	HF2358.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-661633/10		06/23/2025 23:58	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-661633/11		06/24/2025 00:20	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-661633/12		06/24/2025 00:42	1	HF2361.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/15		06/24/2025 01:48	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/16		06/24/2025 02:10	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/17		06/24/2025 02:32	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/18		06/24/2025 02:54	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/19		06/24/2025 03:16	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/20		06/24/2025 03:38	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-661633/21		06/24/2025 04:00	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-661633/22		06/24/2025 04:22	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 06/24/2025 09:59

Analysis Batch Number: 661953 End Date: 06/24/2025 14:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-661953/1		06/24/2025 09:59	1	HF2400.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-661953/2		06/24/2025 10:21	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-661953/3		06/24/2025 11:42	1	HF2403.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-661953/4		06/24/2025 12:04	1	HF2404.D	DB-5MS 30m 0.25 0.25(mm)
CCV 410-661953/27		06/24/2025 12:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 12:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 13:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 13:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 13:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 14:17	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 07/03/2025 11:39

Analysis Batch Number: 666539 End Date: 07/03/2025 23:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-666539/1		07/03/2025 11:39	1	HF0300a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-666539/2		07/03/2025 12:04	1	HF0301a.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/03/2025 13:44	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/03/2025 14:06	1		DB-5MS 30m 0.25 0.25(mm)
MB 410-666257/1-A		07/03/2025 14:27	1	HF0305.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-666257/2-A		07/03/2025 14:48	1	HF0306.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-666257/3-A		07/03/2025 15:10	1	HF0307.D	DB-5MS 30m 0.25 0.25(mm)
CCVC 410-666539/19		07/03/2025 20:11	1	HF0321.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 20:32	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 20:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 21:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 21:36	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 21:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 22:19	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-2	16MW8	07/03/2025 22:40	1	HF0328.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-7	16-2	07/03/2025 23:01	1	HF0329.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-8	16-3	07/03/2025 23:23	1	HF0330.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 07/08/2025 20:14

Analysis Batch Number: 668512 End Date: 07/09/2025 07:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-668512/1		07/08/2025 20:14	1	HG0850.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-668512/2		07/08/2025 20:38	1	HG0851.D	DB-5MS 30m 0.25 0.25(mm)
CCV 410-668512/4		07/08/2025 21:06	1	HG0852.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/08/2025 21:48	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/08/2025 22:10	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/08/2025 22:31	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/08/2025 23:35	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/08/2025 23:56	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 00:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 00:39	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 01:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 01:22	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 01:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 02:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 02:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 02:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 03:08	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-9	16-5	07/09/2025 03:30	1	HG0870.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-10	16WC2B	07/09/2025 03:51	1	HG0871.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-11	16SPRING	07/09/2025 04:12	1	HG0872.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 04:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 04:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 05:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 05:37	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 05:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 06:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 06:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 07:03	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 07:24	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 07/09/2025 09:05

Analysis Batch Number: 668774 End Date: 07/09/2025 21:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-668774/1		07/09/2025 09:05	1	HG0900.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-668774/2		07/09/2025 09:26	1	HG0901.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-668774/39		07/09/2025 10:32	1		DB-5MS 30m 0.25 0.25(mm)
MB 410-666606/1-A		07/09/2025 11:15	1	HG0904.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-666606/2-A		07/09/2025 11:36	1	HG0905.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 13:30	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 13:51	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 14:12	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-4	16WC1A	07/09/2025 14:34	1	HG0911.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-4 MS	16WC1A MS	07/09/2025 14:55	1	HG0912.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-4 MSD	16WC1A MSD	07/09/2025 15:17	1	HG0913.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 15:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 16:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 16:21	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 16:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:09	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:30	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:52	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-1	16C1	07/09/2025 19:13	1	HG0924.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-3	16MW9	07/09/2025 19:34	1	HG0925.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-5	16WDUP	07/09/2025 19:56	1	HG0926.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-6	16WC1B	07/09/2025 20:17	1	HG0927.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 20:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 21:00	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 661633 Batch Start Date: 06/23/25 19:52 Batch Analyst: Lutte, Kate E

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	MSS_RV8270_1 00043	MSS_RV8270_2 00044	MSS_RV8270_3 00042	MSS_RV8270_4 00041	MSS_RV8270_5 00054
DFTPP 410-661633/1		8270E			1 mL					
ICIS 410-661633/2		8270E			1 mL					
IC 410-661633/3		8270E			1 mL					
IC 410-661633/4		8270E			1 mL					
IC 410-661633/5		8270E			1 mL					1 mL
IC 410-661633/6		8270E			1 mL				1 mL	
IC 410-661633/7		8270E			1 mL			1 mL		
IC 410-661633/8		8270E			1 mL		1 mL			
IC 410-661633/9		8270E			1 mL	1 mL				
ICV 410-661633/12		8270E			1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSS_RV8270_6 00068	MSS_RV8270_7 00045	MSS_RV8270_8 00044	MSS_RV8270ICV 00037	MSS_RVDFTPP 00017	
DFTPP 410-661633/1		8270E							1 mL	
ICIS 410-661633/2		8270E			1 mL					
IC 410-661633/3		8270E					1 mL			
IC 410-661633/4		8270E				1 mL				
IC 410-661633/5		8270E								
IC 410-661633/6		8270E								
IC 410-661633/7		8270E								
IC 410-661633/8		8270E								
IC 410-661633/9		8270E								
ICV 410-661633/12		8270E						1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 661633 Batch Start Date: 06/23/25 19:52 Batch Analyst: Lutte, Kate E

Batch Method: 8270E Batch End Date:

Batch Notes	
Pipette/Syringe/Dispenser ID	Scan internal syringe
Dilution Solution ID	Mecl2: 65052
Vial Lot Number	25110335

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 661953 Batch Start Date: 06/24/25 09:59 Batch Analyst: Lutte, Kate E

Batch Method: 8270E Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	MSS_RVDFTPP 00017	MSS_RVHCPICV 00011	MSS_RVPDAICV 00007		
DFTPP 410-661953/1		8270E			1 mL	1 mL				
ICV 410-661953/3		8270E			1 mL		1 mL			
ICV 410-661953/4		8270E			1 mL			1 mL		

Batch Notes	
Pipette/Syringe/Dispenser ID	Scan internal syringe
Dilution Solution ID	MeCl2: 65052
Vial Lot Number	25110335

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666257 Batch Start Date: 07/02/25 15:31 Batch Analyst: McArdle, Meghan

Batch Method: 3510C Batch End Date: 07/02/25 20:32

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-666257/1		3510C, 8270E					250 mL	1 mL	n/a SU	11 SU
LCS 410-666257/2		3510C, 8270E					250 mL	1 mL	n/a SU	11 SU
LCSD 410-666257/3		3510C, 8270E					250 mL	1 mL	n/a SU	11 SU
410-229895-E-2	16MW8	3510C, 8270E	Water	T	415.61 g	170.50 g	245.1 mL	1 mL	n/a SU	11 SU
410-229895-E-7	16-2	3510C, 8270E	Water	T	416.04 g	168.48 g	247.6 mL	1 mL	n/a SU	11 SU
410-229895-E-8	16-3	3510C, 8270E	Water	T	416.57 g	169.82 g	246.8 mL	1 mL	n/a SU	11 SU
410-229895-E-9	16-5	3510C, 8270E	Water	T	416.44 g	170.40 g	246 mL	1 mL	n/a SU	11 SU
410-229895-E-10	16WC2B	3510C, 8270E	Water	T	414.45 g	167.86 g	246.6 mL	1 mL	n/a SU	11 SU
410-229895-E-11	16SPRING	3510C, 8270E	Water	T	414.86 g	165.94 g	248.9 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SecondAdjustpH	OP_MINIBNA_SS 00158	OP_MINLCS1_MS 00275	AnalysisComment		
MB 410-666257/1		3510C, 8270E			2 SU	1 mL		Tap H2O		
LCS 410-666257/2		3510C, 8270E			2 SU	1 mL	1 mL	Tap H2O		
LCSD 410-666257/3		3510C, 8270E			2 SU	1 mL	1 mL	Tap H2O		
410-229895-E-2	16MW8	3510C, 8270E	Water	T	2 SU	1 mL		Clear		
410-229895-E-7	16-2	3510C, 8270E	Water	T	2 SU	1 mL		Clear		
410-229895-E-8	16-3	3510C, 8270E	Water	T	2 SU	1 mL		Clear		
410-229895-E-9	16-5	3510C, 8270E	Water	T	2 SU	1 mL		Clear		
410-229895-E-10	16WC2B	3510C, 8270E	Water	T	2 SU	1 mL		Clear		
410-229895-E-11	16SPRING	3510C, 8270E	Water	T	2 SU	1 mL		Clear		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666257 Batch Start Date: 07/02/25 15:31 Batch Analyst: McArdle, Meghan

Batch Method: 3510C Batch End Date: 07/02/25 20:32

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	6
Analyst ID - Extraction	MM98986 SG115470 AS86224
Analyst ID - Spike Analyst	AS86224
Acid Used for pH Adjustment ID	H2SO4: 244189
Base Used to Adjust pH ID	NaOH: 4404N64
Prep Solvent ID	MeCl2: 65122
Prep Solvent Volume Used	90 mL
Na2SO4 ID	25182A
Analyst ID - Concentration	MM98986 SG115470 AS86224
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	25110335
Pipette Tip Lot ID	N2175000

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666606 Batch Start Date: 07/03/25 08:30 Batch Analyst: Stewart, Hannah

Batch Method: 3510C Batch End Date: 07/03/25 13:51

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-666606/1		3510C, 8270E					250 mL	1 mL	>11 SU	<2 SU
LCS 410-666606/2		3510C, 8270E					250 mL	1 mL	>11 SU	<2 SU
410-229895-H-4 MS	16WC1A	3510C, 8270E	Water	T	415.35 g	170.04 g	245.3 mL	1 mL	>11 SU	<2 SU
410-229895-H-4 MSD	16WC1A	3510C, 8270E	Water	T	416.45 g	169.53 g	246.9 mL	1 mL	>11 SU	<2 SU
410-229895-H-4	16WC1A	3510C, 8270E	Water	T	416.71 g	169.50 g	247.2 mL	1 mL	>11 SU	<2 SU
410-229895-H-1	16C1	3510C, 8270E	Water	T	414.31 g	169.67 g	244.6 mL	1 mL	>11 SU	<2 SU
410-229895-Q-3	16MW9	3510C, 8270E	Water	T	415.56 g	167.87 g	247.7 mL	1 mL	>11 SU	<2 SU
410-229895-E-5	16WDUP	3510C, 8270E	Water	T	416.06 g	168.62 g	247.4 mL	1 mL	>11 SU	<2 SU
410-229895-E-6	16WC1B	3510C, 8270E	Water	T	413.61 g	168.48 g	245.1 mL	1 mL	>11 SU	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CUPerformed	OP_MINIBNA_SS 00158	OP_MINLCS1_MS 00275	OP_MINLCS2_MS 00165	AnalysisComment	
MB 410-666606/1		3510C, 8270E			N	1 mL			Tap H2O	
LCS 410-666606/2		3510C, 8270E			N	1 mL	1 mL	1 mL	Tap H2O	
410-229895-H-4 MS	16WC1A	3510C, 8270E	Water	T	N	1 mL	1 mL	1 mL	yellow cloudy	
410-229895-H-4 MSD	16WC1A	3510C, 8270E	Water	T	N	1 mL	1 mL	1 mL	yellow cloudy	
410-229895-H-4	16WC1A	3510C, 8270E	Water	T	N	1 mL			yellow cloudy	
410-229895-H-1	16C1	3510C, 8270E	Water	T	N	1 mL			clear	
410-229895-Q-3	16MW9	3510C, 8270E	Water	T	N	1 mL			pale yellow tint	
410-229895-E-5	16WDUP	3510C, 8270E	Water	T	N	1 mL			pale yellow tint	
410-229895-E-6	16WC1B	3510C, 8270E	Water	T	N	1 mL			pale yellow tint	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666606 Batch Start Date: 07/03/25 08:30 Batch Analyst: Stewart, Hannah

Batch Method: 3510C Batch End Date: 07/03/25 13:51

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	6
Analyst ID - Extraction	HAS95678, AL105933
Analyst ID - Spike Analyst	HAS95678, AL105933
Acid Used for pH Adjustment ID	H2SO4 244189
Base Used to Adjust pH ID	NaOH 4404N64
Prep Solvent ID	MeCL2 65122
Prep Solvent Volume Used	90 mL
Na2SO4 ID	25182A
Analyst ID - Concentration	HAS95678, AL105933
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	25110628
Pipette Tip Lot ID	N2175000

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D

Semivolatile Organic Compounds (GC/MS) by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPHd14 #
16C1	410-229895-1	57	45	91	83	84	96
16MW8	410-229895-2	53	38	84	85	72	86
16MW9	410-229895-3	48	43	87	82	74	101
16WDUP	410-229895-5	22	19	92	87	34	67
16WC1B	410-229895-6	35	26	88	84	68	87
16-2	410-229895-7	49	34	79	79	66	108
16-3	410-229895-8	55	38	84	80	63	104
16-5	410-229895-9	52	36	77	76	64	105
16WC2B	410-229895-10	41	28	67	69	52	90
16SPRING	410-229895-11	44	30	71	71	58	99
	MB 410-666257/1-A	50	35	78	73	63	105
	MB 410-666606/1-A	57	40	81	80	62	94
	LCS 410-666257/2-A	52	37	74	63	75	95
	LCS 410-666606/2-A	50	39	60	66	77	102
	LCSD 410-666257/3-A	51	38	69	64	75	92

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-120
PHL = Phenol-d5 (Surr)	10-120
NBZ = Nitrobenzene-d5 (Surr)	33-120
FBP = 2-Fluorobiphenyl (Surr)	45-120
TBP = 2,4,6-Tribromophenol (Surr)	13-134
TPHd14 = p-Terphenyl-d14 (Surr)	26-123

Column to be used to flag recovery values

FORM II 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25(mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPHd14 #
16WC1A	410-229895-4	82	77	58
16WC1A MS	410-229895-4 MS	76	71	101
16WC1A MSD	410-229895-4 MSD	82	77	102

	QC LIMITS
NBZ = Nitrobenzene-d5 (Surr)	33-120
FBP = 2-Fluorobiphenyl (Surr)	45-120
TPHd14 = p-Terphenyl-d14 (Surr)	26-123

Column to be used to flag recovery values

FORM II 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HF0306.D

Lab ID: LCS 410-666257/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	50.0	46.82	94	54-143	
Diethyl phthalate	50.0	40.83	82	45-130	
2,6-Dinitrotoluene	50.0	43.03	86	53-139	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HG0905.D

Lab ID: LCS 410-666606/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	50.0	49.08	98	54-143	
Diethyl phthalate	50.0	32.77	66	45-130	
2,6-Dinitrotoluene	50.0	43.93	88	53-139	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HF0307.D

Lab ID: LCSD 410-666257/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dinitrotoluene	50.0	48.37	97	3	30	54-143	
Diethyl phthalate	50.0	42.84	86	5	30	45-130	
2,6-Dinitrotoluene	50.0	43.12	86	0	30	53-139	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HG0912.D

Lab ID: 410-229895-4 MS Client ID: 16WC1A MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
2,4-Dinitrotoluene	51.0	ND	50.98	100	54-143	
Diethyl phthalate	51.0	ND	43.39	85	45-130	
2,6-Dinitrotoluene	51.0	ND	47.70	94	53-139	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Level: Low Lab File ID: HG0913.D

Lab ID: 410-229895-4 MSD Client ID: 16WC1A MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
2,4-Dinitrotoluene	50.6	53.68	106	5	30	54-143	
Diethyl phthalate	50.6	46.99	93	8	30	45-130	
2,6-Dinitrotoluene	50.6	49.91	99	5	30	53-139	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF0305.D Lab Sample ID: MB 410-666257/1-A

Matrix: Water Date Extracted: 07/02/2025 15:31

Instrument ID: HP18831 Date Analyzed: 07/03/2025 14:27

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-666257/2-A	HF0306.D	07/03/2025 14:48
	LCSD 410-666257/3-A	HF0307.D	07/03/2025 15:10
16MW8	410-229895-2	HF0328.D	07/03/2025 22:40
16-2	410-229895-7	HF0329.D	07/03/2025 23:01
16-3	410-229895-8	HF0330.D	07/03/2025 23:23
16-5	410-229895-9	HG0870.D	07/09/2025 03:30
16WC2B	410-229895-10	HG0871.D	07/09/2025 03:51
16SPRING	410-229895-11	HG0872.D	07/09/2025 04:12

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HG0904.D Lab Sample ID: MB 410-666606/1-A

Matrix: Water Date Extracted: 07/03/2025 08:30

Instrument ID: HP18831 Date Analyzed: 07/09/2025 11:15

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-666606/2-A	HG0905.D	07/09/2025 11:36
16WC1A	410-229895-4	HG0911.D	07/09/2025 14:34
16WC1A MS	410-229895-4 MS	HG0912.D	07/09/2025 14:55
16WC1A MSD	410-229895-4 MSD	HG0913.D	07/09/2025 15:17
16C1	410-229895-1	HG0924.D	07/09/2025 19:13
16MW9	410-229895-3	HG0925.D	07/09/2025 19:34
16WDUP	410-229895-5	HG0926.D	07/09/2025 19:56
16WC1B	410-229895-6	HG0927.D	07/09/2025 20:17

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF2350.D DFTPP Injection Date: 06/23/2025

Instrument ID: HP18831 DFTPP Injection Time: 19:52

Analysis Batch No.: 661633

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	46.2	
68	Less than 2% of mass 69	0.6	(1.5) 1
69	Mass 69 Relative abundance	41.9	
70	Less than 2% of mass 69	0.3	(0.6) 1
127	10-80% of Base Peak	45.9	
197	Less than 2% of mass 198	0.7	
198	Base peak	100.0	
199	5-9% of mass 198	6.6	
275	10-60% of Base Peak	27.2	
365	Greater than 1% of mass 198	3.7	
441	present but less than 24% of mass 442	14.4	(15.0) 2
442	Greater than 50% of mass 198	96.1	
443	15-24% of mass 442	18.2	(19.0) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-661633/2	HF2351.D	06/23/2025	20:42
	IC 410-661633/3	HF2352.D	06/23/2025	21:24
	IC 410-661633/4	HF2353.D	06/23/2025	21:46
	IC 410-661633/5	HF2354.D	06/23/2025	22:08
	IC 410-661633/6	HF2355.D	06/23/2025	22:30
	IC 410-661633/7	HF2356.D	06/23/2025	22:52
	IC 410-661633/8	HF2357.D	06/23/2025	23:14
	IC 410-661633/9	HF2358.D	06/23/2025	23:36
	ICV 410-661633/12	HF2361.D	06/24/2025	0:42

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF2400.D DFTPP Injection Date: 06/24/2025

Instrument ID: HP18831 DFTPP Injection Time: 09:59

Analysis Batch No.: 661953

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	51.1	
68	Less than 2% of mass 69	0.7	(1.7) 1
69	Mass 69 Relative abundance	41.9	
70	Less than 2% of mass 69	0.1	(0.1) 1
127	10-80% of Base Peak	46.8	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	26.5	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	15.0	(16.3) 2
442	Greater than 50% of mass 198	92.1	
443	15-24% of mass 442	19.1	(20.7) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICV 410-661953/3	HF2403.D	06/24/2025	11:42
	ICV 410-661953/4	HF2404.D	06/24/2025	12:04

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HF0300a.D DFTPP Injection Date: 07/03/2025

Instrument ID: HP18831 DFTPP Injection Time: 11:39

Analysis Batch No.: 666539

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	52.8	
68	Less than 2% of mass 69	0.8	(1.7) 1
69	Mass 69 Relative abundance	45.6	
70	Less than 2% of mass 69	0.2	(0.4) 1
127	10-80% of Base Peak	49.1	
197	Less than 2% of mass 198	0.5	
198	Base peak	100.0	
199	5-9% of mass 198	6.9	
275	10-60% of Base Peak	25.9	
365	Greater than 1% of mass 198	3.2	
441	present but less than 24% of mass 442	13.6	(15.2) 2
442	Greater than 50% of mass 198	89.7	
443	15-24% of mass 442	17.5	(19.6) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-666539/2	HF0301a.D	07/03/2025	12:04
	MB 410-666257/1-A	HF0305.D	07/03/2025	14:27
	LCS 410-666257/2-A	HF0306.D	07/03/2025	14:48
	LCSD 410-666257/3-A	HF0307.D	07/03/2025	15:10
	CCVC 410-666539/19	HF0321.D	07/03/2025	20:11
16MW8	410-229895-2	HF0328.D	07/03/2025	22:40
16-2	410-229895-7	HF0329.D	07/03/2025	23:01
16-3	410-229895-8	HF0330.D	07/03/2025	23:23

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HG0850.D DFTPP Injection Date: 07/08/2025

Instrument ID: HP18831 DFTPP Injection Time: 20:14

Analysis Batch No.: 668512

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	49.6	
68	Less than 2% of mass 69	0.7	(1.6) 1
69	Mass 69 Relative abundance	43.8	
70	Less than 2% of mass 69	0.3	(0.7) 1
127	10-80% of Base Peak	47.1	
197	Less than 2% of mass 198	0.9	
198	Base peak	100.0	
199	5-9% of mass 198	6.8	
275	10-60% of Base Peak	25.9	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	14.3	(14.9) 2
442	Greater than 50% of mass 198	95.7	
443	15-24% of mass 442	17.5	(18.2) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-668512/2	HG0851.D	07/08/2025	20:38
	CCV 410-668512/4	HG0852.D	07/08/2025	21:06
16-5	410-229895-9	HG0870.D	07/09/2025	3:30
16WC2B	410-229895-10	HG0871.D	07/09/2025	3:51
16SPRING	410-229895-11	HG0872.D	07/09/2025	4:12

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab File ID: HG0900.D DFTPP Injection Date: 07/09/2025

Instrument ID: HP18831 DFTPP Injection Time: 09:05

Analysis Batch No.: 668774

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10-80% of Base Peak	55.3	
68	Less than 2% of mass 69	0.8	(1.8) 1
69	Mass 69 Relative abundance	47.6	
70	Less than 2% of mass 69	0.1	(0.2) 1
127	10-80% of Base Peak	50.6	
197	Less than 2% of mass 198	1.0	
198	Base peak	100.0	
199	5-9% of mass 198	7.0	
275	10-60% of Base Peak	24.8	
365	Greater than 1% of mass 198	3.5	
441	present but less than 24% of mass 442	13.3	(15.6) 2
442	Greater than 50% of mass 198	85.1	
443	15-24% of mass 442	16.0	(18.8) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-668774/2	HG0901.D	07/09/2025	9:26
	MB 410-666606/1-A	HG0904.D	07/09/2025	11:15
	LCS 410-666606/2-A	HG0905.D	07/09/2025	11:36
16WC1A	410-229895-4	HG0911.D	07/09/2025	14:34
16WC1A MS	410-229895-4 MS	HG0912.D	07/09/2025	14:55
16WC1A MSD	410-229895-4 MSD	HG0913.D	07/09/2025	15:17
16C1	410-229895-1	HG0924.D	07/09/2025	19:13
16MW9	410-229895-3	HG0925.D	07/09/2025	19:34
16WDUP	410-229895-5	HG0926.D	07/09/2025	19:56
16WC1B	410-229895-6	HG0927.D	07/09/2025	20:17

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: ICIS 410-661633/2 Date Analyzed: 06/23/2025 20:42

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF2351.D Heated Purge: (Y/N) N

Calibration ID: 74017

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		181463	4.53	770741	5.78	500342	7.52
UPPER LIMIT		362926	5.03	1541482	6.28	1000684	8.02
LOWER LIMIT		90732	4.03	385371	5.28	250171	7.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-661633/12		234353	4.53	992854	5.78	619056	7.52
ICV 410-661953/3		191957	4.53	789503	5.78	506875	7.52
ICV 410-661953/4		196976	4.53	809040	5.78	531437	7.52
CCVIS 410-666539/2		141415	4.45	645881	5.69	438474	7.44
CCVIS 410-668512/2		159935	4.45	732906	5.69	495411	7.44
CCVIS 410-668774/2		265771	4.45	1148231	5.69	761884	7.44

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: ICIS 410-661633/2 Date Analyzed: 06/23/2025 20:42

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF2351.D Heated Purge: (Y/N) N

Calibration ID: 74017

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		997272	8.99	1134927	10.39	1210811	13.88
UPPER LIMIT		1994544	9.49	2269854	10.89	2421622	14.38
LOWER LIMIT		498636	8.49	567464	9.89	605406	13.38
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 410-661633/12		1268761	8.98	1443662	10.39	1485625	13.88
ICV 410-661953/3		1067519	8.98	1184230	10.39	1103087	13.87
ICV 410-661953/4		1119321	8.98	1234179	10.39	1167352	13.87
CCVIS 410-666539/2		932709	8.90	1072474	10.30	1187532	13.75
CCVIS 410-668512/2		1017418	8.90	1189888	10.30	1294254	13.75
CCVIS 410-668774/2		1545877	8.90	1670919	10.30	1668151	13.75

PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-666539/2 Date Analyzed: 07/03/2025 12:04

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF0301a.D Heated Purge: (Y/N) N

Calibration ID: 74181

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		141415	4.45	645881	5.69	438474	7.44
UPPER LIMIT		282830	4.95	1291762	6.19	876948	7.94
LOWER LIMIT		70708	3.95	322941	5.19	219237	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666257/1-A		102177	4.45	427292	5.69	291164	7.43
LCS 410-666257/2-A		115432	4.45	488472	5.69	355210	7.44
LCSD 410-666257/3-A		91690	4.45	414161	5.69	289681	7.43
CCVC 410-666539/19		158351	4.45	688856	5.69	461504	7.44
410-229895-2	16MW8	101843	4.45	430476	5.69	281078	7.43
410-229895-7	16-2	110869	4.45	448086	5.69	298496	7.43
410-229895-8	16-3	85549	4.45	377729	5.69	262679	7.43

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-666539/2 Date Analyzed: 07/03/2025 12:04

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HF0301a.D Heated Purge: (Y/N) N

Calibration ID: 74181

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		932709	8.90	1072474	10.30	1187532	13.75
UPPER LIMIT		1865418	9.40	2144948	10.80	2375064	14.25
LOWER LIMIT		466355	8.40	536237	9.80	593766	13.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666257/1-A		606362	8.90	685407	10.30	751874	13.75
LCS 410-666257/2-A		726946	8.90	833756	10.30	898913	13.75
LCSD 410-666257/3-A		613354	8.90	726973	10.30	847541	13.75
CCVC 410-666539/19		949020	8.90	1067538	10.30	1183565	13.75
410-229895-2	16MW8	591337	8.90	678861	10.30	823415	13.75
410-229895-7	16-2	612897	8.90	710205	10.30	818020	13.75
410-229895-8	16-3	571647	8.90	666312	10.30	778428	13.75

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668512/2 Date Analyzed: 07/08/2025 20:38

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0851.D Heated Purge: (Y/N) N

Calibration ID: 74181

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		159935	4.45	732906	5.69	495411	7.44
UPPER LIMIT		319870	4.95	1465812	6.19	990822	7.94
LOWER LIMIT		79968	3.95	366453	5.19	247706	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-229895-9	16-5	138719	4.45	588688	5.69	402602	7.43
410-229895-10	16WC2B	148210	4.45	618616	5.69	404407	7.43
410-229895-11	16SPRING	152880	4.45	633040	5.69	431885	7.43

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668512/2 Date Analyzed: 07/08/2025 20:38

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0851.D Heated Purge: (Y/N) N

Calibration ID: 74181

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1017418	8.90	1189888	10.30	1294254	13.75
UPPER LIMIT		2034836	9.40	2379776	10.80	2588508	14.25
LOWER LIMIT		508709	8.40	594944	9.80	647127	13.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
410-229895-9	16-5	839828	8.90	968528	10.30	1039935	13.75
410-229895-10	16WC2B	868725	8.90	986718	10.30	985241	13.75
410-229895-11	16SPRING	914374	8.90	1034750	10.30	1059767	13.75

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668774/2 Date Analyzed: 07/09/2025 09:26

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0901.D Heated Purge: (Y/N) N

Calibration ID: 74181

		DCBd4		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		265771	4.45	1148231	5.69	761884	7.44
UPPER LIMIT		531542	4.95	2296462	6.19	1523768	7.94
LOWER LIMIT		132886	3.95	574116	5.19	380942	6.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666606/1-A		167264	4.45	699053	5.69	445744	7.43
LCS 410-666606/2-A		195294	4.45	815872	5.69	521994	7.43
410-229895-4	16WC1A	271003	4.45	1088283	5.69	679557	7.43
410-229895-4 MS	16WC1A MS	178766	4.45	785065	5.69	521358	7.43
410-229895-4 MSD	16WC1A MSD	182239	4.45	783446	5.69	505278	7.43
410-229895-1	16C1	176805	4.45	726880	5.69	473424	7.43
410-229895-3	16MW9	268483	4.45	1067293	5.69	652746	7.43
410-229895-5	16WDUP	202660	4.45	806425	5.69	504928	7.43
410-229895-6	16WC1B	231121	4.45	947122	5.69	584859	7.43

DCBd4 = 1,4-Dichlorobenzene-d4
DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Sample No.: CCVIS 410-668774/2 Date Analyzed: 07/09/2025 09:26

Instrument ID: HP18831 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

Lab File ID (Standard): HG0901.D Heated Purge: (Y/N) N

Calibration ID: 74181

		PHN		PYR10		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1545877	8.90	1670919	10.30	1668151	13.75
UPPER LIMIT		3091754	9.40	3341838	10.80	3336302	14.25
LOWER LIMIT		772939	8.40	835460	9.80	834076	13.25
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-666606/1-A		894356	8.90	971842	10.30	914158	13.75
LCS 410-666606/2-A		1005653	8.90	1082512	10.30	1042765	13.75
410-229895-4	16WC1A	1331503	8.90	1409507	10.30	1114223	13.75
410-229895-4 MS	16WC1A MS	999501	8.90	1088174	10.30	1073276	13.75
410-229895-4 MSD	16WC1A MSD	987547	8.90	1061851	10.30	1002992	13.75
410-229895-1	16C1	956283	8.90	1053004	10.30	1008454	13.75
410-229895-3	16MW9	1242052	8.90	1283616	10.30	950437	13.75
410-229895-5	16WDUP	1026381	8.90	1122813	10.30	1016889	13.75
410-229895-6	16WC1B	1118364	8.90	1230342	10.30	1055208	13.75

PHN = Phenanthrene-d10
PHN = Phenanthrene-d10
PYR10 = Pyrene-d10 (IS)

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16C1
Lab Sample ID: 410-229895-1

Matrix: Water
Lab File ID: HG0924.D

Analysis Method: 8270D
Date Collected: 06/26/2025 12:15

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 244.6(mL)
Date Analyzed: 07/09/2025 19:13

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.2	1.02
84-66-2	Diethyl phthalate	ND		5.11	2.04
606-20-2	2,6-Dinitrotoluene	ND		10.2	1.02

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	84		13-134
321-60-8	2-Fluorobiphenyl (Surr)	83		45-120
367-12-4	2-Fluorophenol (Surr)	57		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	91		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	96		26-123
4165-62-2	Phenol-d5 (Surr)	45		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0924.D				
Lims ID:	410-229895-H-1-A				
Client ID:	16C1				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:13:30	ALS Bottle#:	24	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-1-A				
Misc. Info.:	410-0152870-029				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: W6ZA		Date:	10-Jul-2025 13:10:44		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	597869	14.2	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	664152	11.3	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	176805	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1178000	22.7	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	726880	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2652252	20.8	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	94	473424	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	96	416453	21.0	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	956283	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1053004	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4084227	23.9	
* 159 Perylene-d12	264	13.745	13.751	-0.006	98	1008454	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

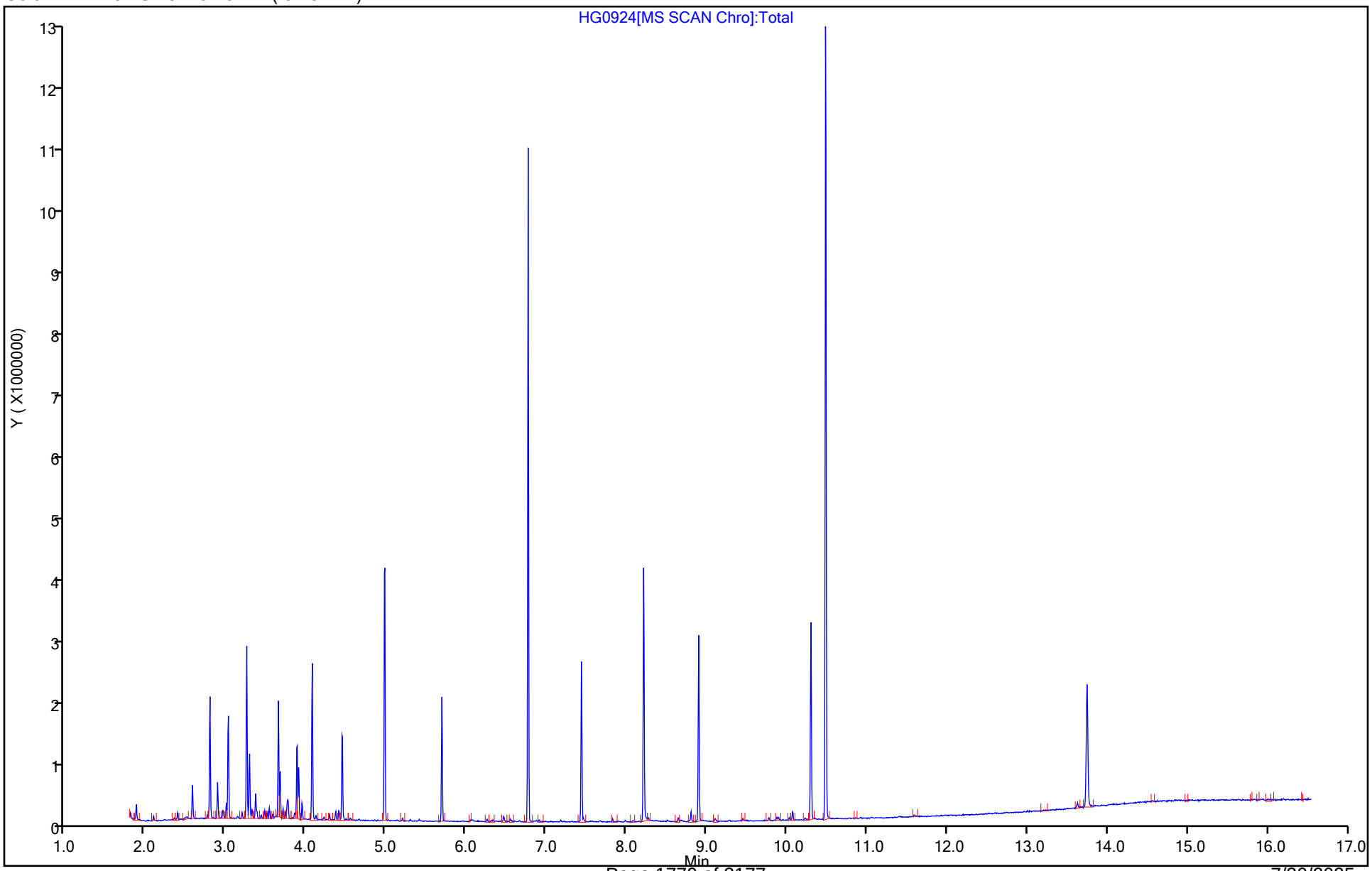
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:15:26 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0924.D				
Injection Date:	09-Jul-2025 19:13:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-1-A	Lab Sample ID:	410-229895-1	Worklist Smp#:	29
Client ID:	16C1				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0924.D				
Lims ID:	410-229895-H-1-A				
Client ID:	16C1				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:13:30	ALS Bottle#:	24	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-1-A				
Misc. Info.:	410-0152870-029				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:10:44

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	14.2	56.69
$ 16 Phenol-d5	25.0	11.3	45.26
$ 41 Nitrobenzene-d5	25.0	22.7	90.89
$ 76 2-Fluorobiphenyl (Surr)	25.0	20.8	83.03
$ 113 2,4,6-Tribromophenol	25.0	21.0	83.94
$ 142 p-Terphenyl-d14	25.0	23.9	95.52

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW8
Lab Sample ID: 410-229895-2

Matrix: Water
Lab File ID: HF0328.D

Analysis Method: 8270D
Date Collected: 06/25/2025 12:05

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 245.1(mL)
Date Analyzed: 07/03/2025 22:40

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.2	1.02
84-66-2	Diethyl phthalate	ND		5.10	2.04
606-20-2	2,6-Dinitrotoluene	ND		10.2	1.02

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	72		13-134
321-60-8	2-Fluorobiphenyl (Surr)	85		45-120
367-12-4	2-Fluorophenol (Surr)	53		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	86		26-123
4165-62-2	Phenol-d5 (Surr)	38		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0328.D				
Lims ID:	410-229895-E-2-A				
Client ID:	16MW8				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 22:40:30	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-2-A				
Misc. Info.:	410-0152352-029				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				
First Level Reviewer: W6ZA		Date:	07-Jul-2025 11:26:50		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	321072	13.2	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	320170	9.47	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	101843	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	642603	20.9	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	430476	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1615723	21.3	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	281078	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	211276	17.9	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	591337	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	98	678861	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	2382366	21.6	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	823415	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

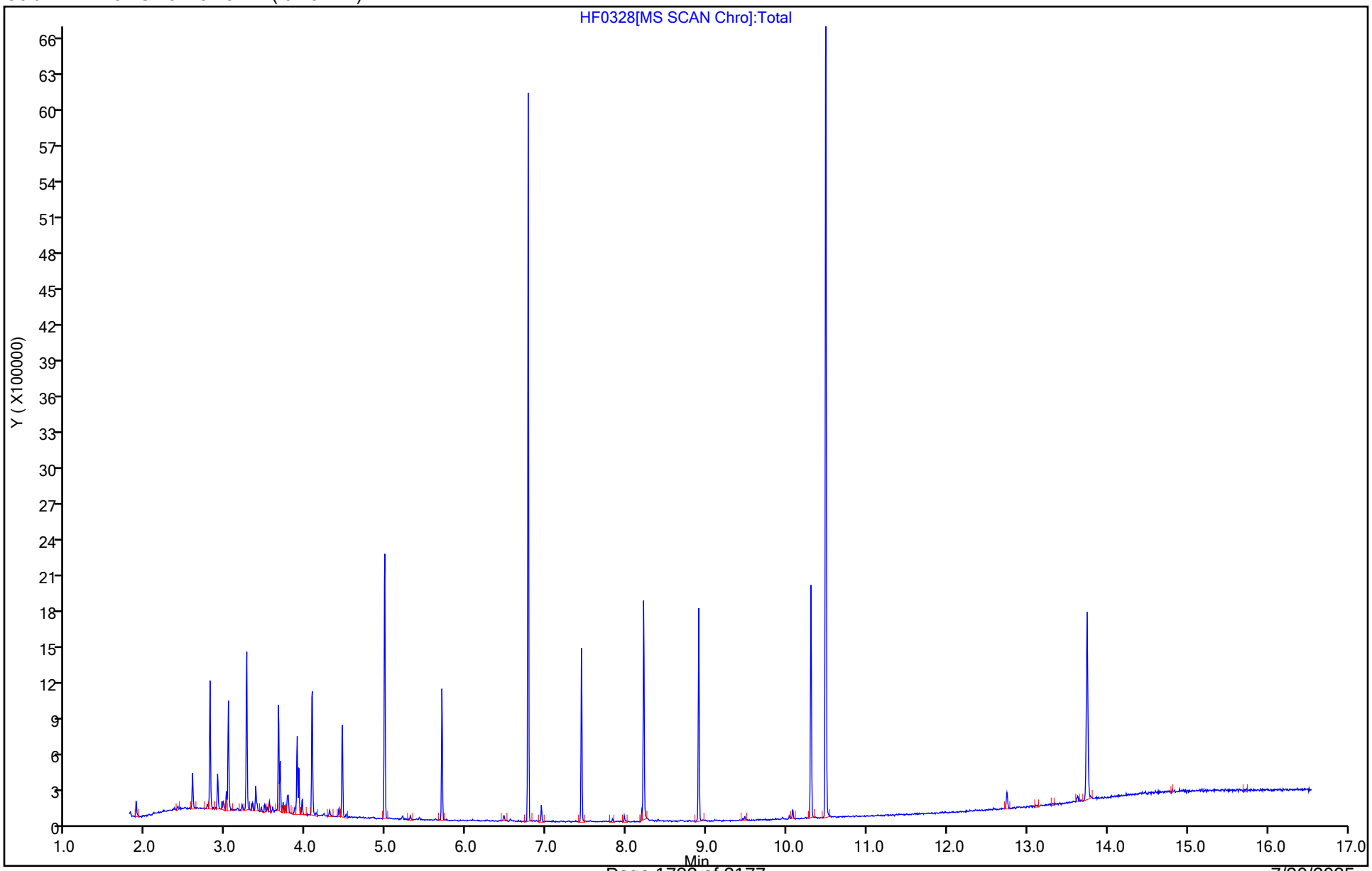
Report Date: 07-Jul-2025 11:29:38 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0328.D

Injection Date:	03-Jul-2025 22:40:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	410-229895-E-2-A	Lab Sample ID:	410-229895-2	Worklist Smp#:	29
Client ID:	16MW8				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0328.D				
Lims ID:	410-229895-E-2-A				
Client ID:	16MW8				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 22:40:30	ALS Bottle#:	29	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-2-A				
Misc. Info.:	410-0152352-029				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:26:50

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	13.2	52.85
$ 16 Phenol-d5	25.0	9.47	37.88
$ 41 Nitrobenzene-d5	25.0	20.9	83.72
$ 76 2-Fluorobiphenyl (Surr)	25.0	21.3	85.19
$ 113 2,4,6-Tribromophenol	25.0	17.9	71.73
$ 142 p-Terphenyl-d14	25.0	21.6	86.42

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16MW9
Lab Sample ID: 410-229895-3

Matrix: Water
Lab File ID: HG0925.D

Analysis Method: 8270D
Date Collected: 06/26/2025 11:00

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 247.7(mL)
Date Analyzed: 07/09/2025 19:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.1	1.01
84-66-2	Diethyl phthalate	ND		5.05	2.02
606-20-2	2,6-Dinitrotoluene	ND		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	74		13-134
321-60-8	2-Fluorobiphenyl (Surr)	82		45-120
367-12-4	2-Fluorophenol (Surr)	48		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	87		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	101		26-123
4165-62-2	Phenol-d5 (Surr)	43		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D				
Lims ID:	410-229895-Q-3-A				
Client ID:	16MW9				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:34:30	ALS Bottle#:	25	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-Q-3-A				
Misc. Info.:	410-0152870-030				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: W6ZA		Date:	10-Jul-2025 13:11:00		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	763120	11.9	
$ 16 Phenol-d5	99	4.075	4.075	0.000	97	965596	10.8	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	268483	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1657609	21.8	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	1067293	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	3603070	20.5	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	95	652746	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	U
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	507892	18.6	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1242052	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1283616	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.480	0.000	98	5266565	25.3	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	950437	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

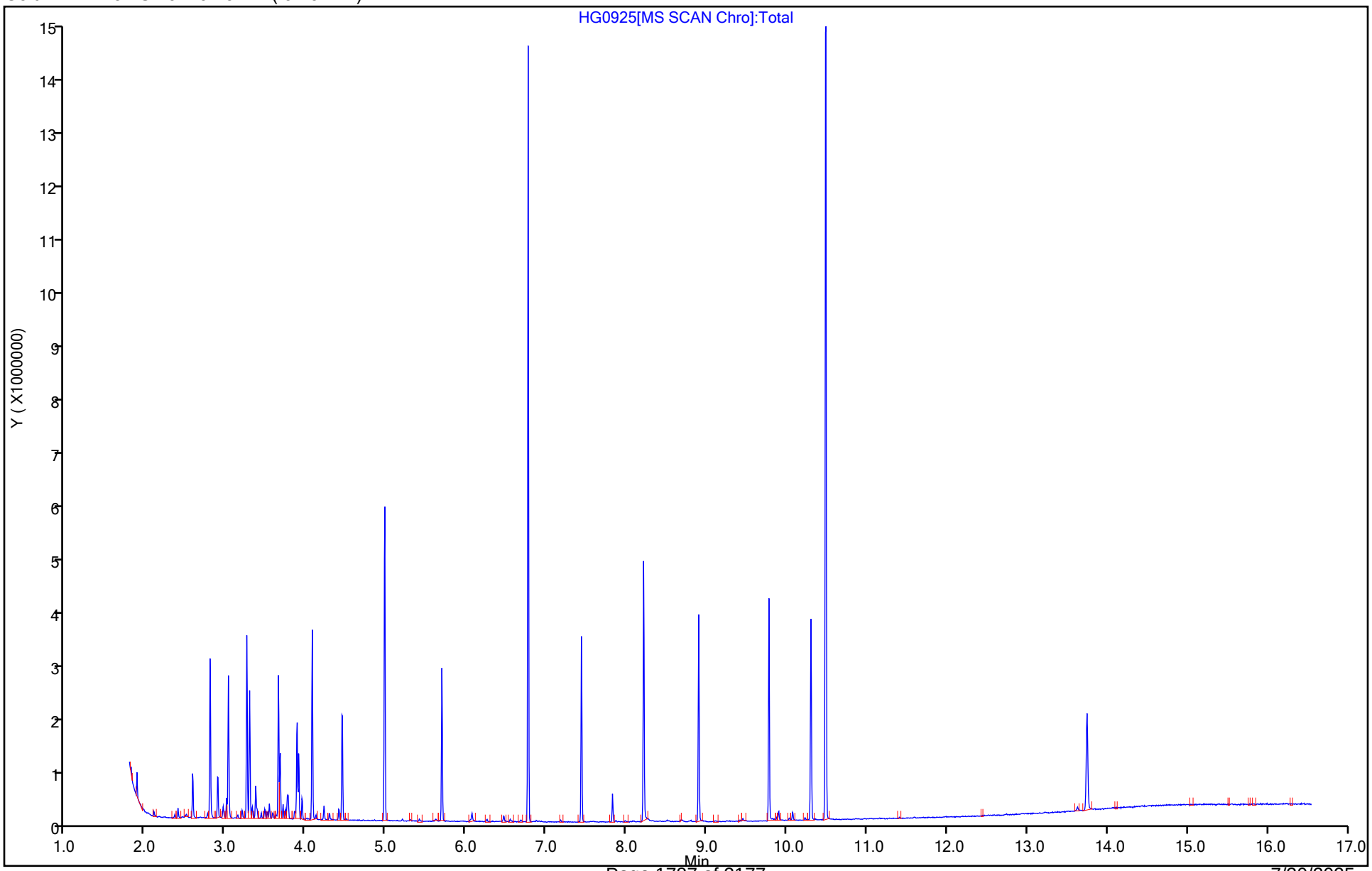
Report Date: 10-Jul-2025 13:15:29 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D

Injection Date:	09-Jul-2025 19:34:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-Q-3-A	Lab Sample ID:	410-229895-3	Worklist Smp#:	30
Client ID:	16MW9				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D				
Lims ID:	410-229895-Q-3-A				
Client ID:	16MW9				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:34:30	ALS Bottle#:	25	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-Q-3-A				
Misc. Info.:	410-0152870-030				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	11.9	47.65
$ 16 Phenol-d5	25.0	10.8	43.33
$ 41 Nitrobenzene-d5	25.0	21.8	87.11
$ 76 2-Fluorobiphenyl (Surr)	25.0	20.5	81.80
$ 113 2,4,6-Tribromophenol	25.0	18.6	74.25
$ 142 p-Terphenyl-d14	25.0	25.3	101.04

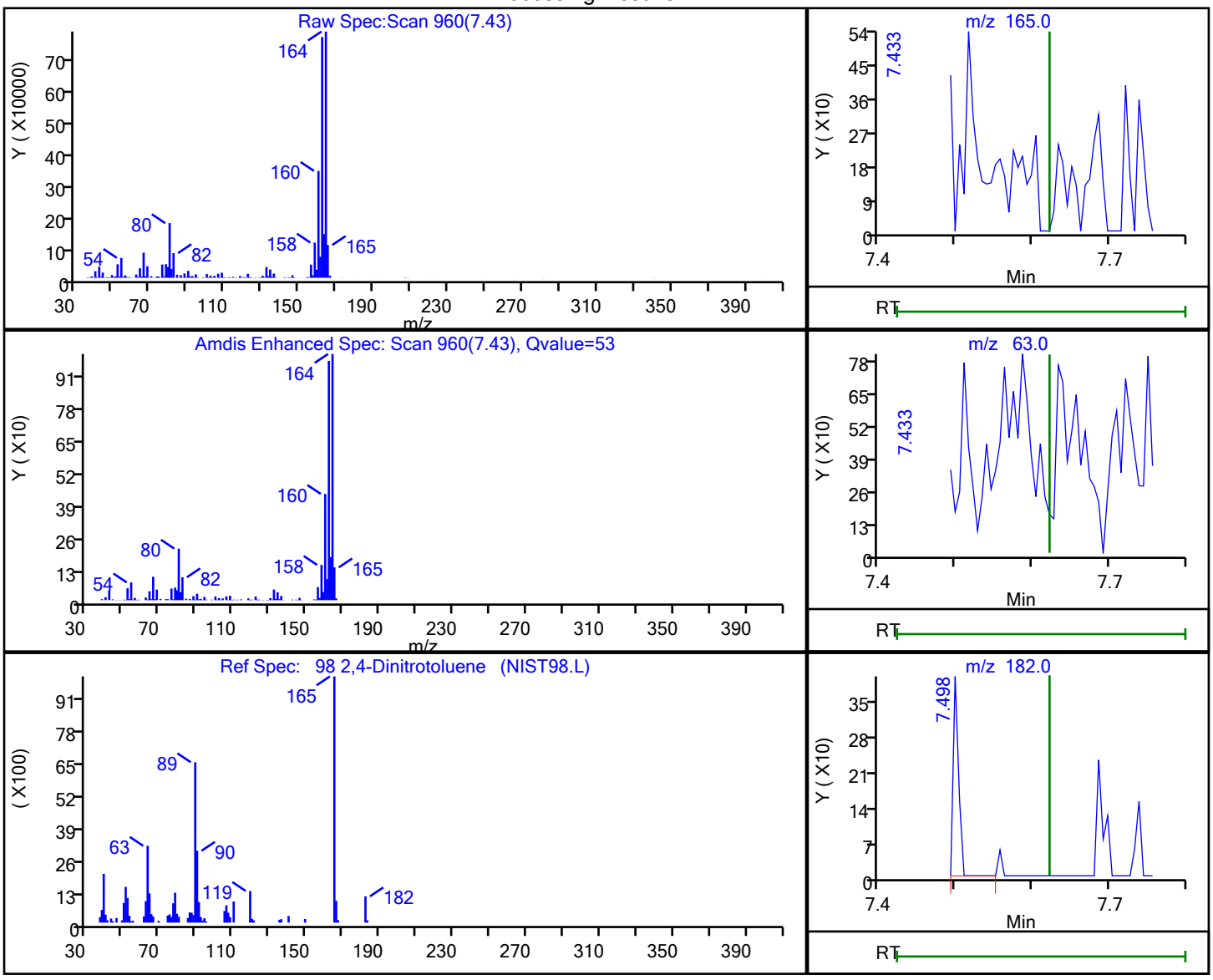
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0925.D				
Injection Date:	09-Jul-2025 19:34:30	Instrument ID:	HP18831		
Lims ID:	410-229895-Q-3-A	Lab Sample ID:	410-229895-3		
Client ID:	16MW9				
Operator ID:	eea115318_kel10217	ALS Bottle#:	25	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	85970	1.864624
7.43	63.00	1828	
7.50	182.00	191	
7.43	89.00	2021	

Reviewer: W6ZA, 10-Jul-2025 13:10:57 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4

Matrix: Water
Lab File ID: HG0911.D

Analysis Method: 8270D
Date Collected: 06/26/2025 09:45

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 247.2(mL)
Date Analyzed: 07/09/2025 14:34

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.1	1.01
84-66-2	Diethyl phthalate	ND		5.06	2.02
606-20-2	2,6-Dinitrotoluene	ND		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	77		45-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	58		26-123

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0911.D
Lims ID: 410-229895-H-4-D
Client ID: 16WC1A
Sample Type: Client
Inject. Date: 09-Jul-2025 14:34:30 ALS Bottle#: 11 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-H-4-D
Misc. Info.: 410-0152870-018
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:59:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	162451	2.51	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	134621	1.50	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	271003	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1584853	20.4	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	1088283	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	3529939	19.2	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	95	679557	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	96	160149	5.62	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1331503	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1409507	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	3343089	14.6	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1114223	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

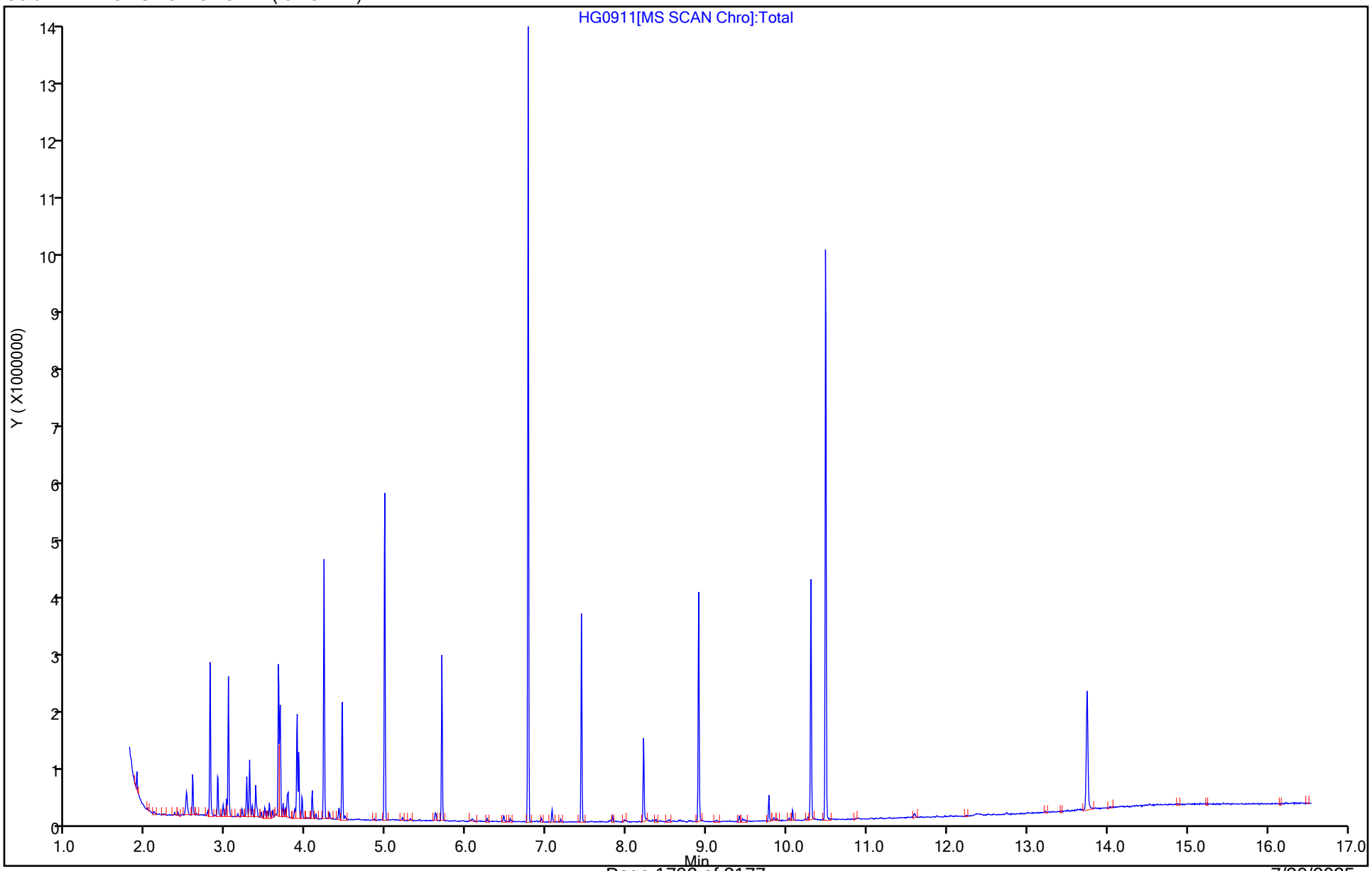
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:41 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0911.D				
Injection Date:	09-Jul-2025 14:34:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-4-D	Lab Sample ID:	410-229895-4	Worklist Smp#:	18
Client ID:	16WC1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0911.D				
Lims ID:	410-229895-H-4-D				
Client ID:	16WC1A				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 14:34:30	ALS Bottle#:	11	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-4-D				
Misc. Info.:	410-0152870-018				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:59:45

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	2.51	10.05
$ 16 Phenol-d5	25.0	1.50	5.99
$ 41 Nitrobenzene-d5	25.0	20.4	81.68
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.2	76.98
$ 113 2,4,6-Tribromophenol	25.0	5.62	22.49
$ 142 p-Terphenyl-d14	25.0	14.6	58.41

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5

Matrix: Water
Lab File ID: HG0926.D

Analysis Method: 8270D
Date Collected: 06/26/2025 09:00

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 247.4(mL)
Date Analyzed: 07/09/2025 19:56

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.1	1.01
84-66-2	Diethyl phthalate	ND		5.05	2.02
606-20-2	2,6-Dinitrotoluene	ND		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	34		13-134
321-60-8	2-Fluorobiphenyl (Surr)	87		45-120
367-12-4	2-Fluorophenol (Surr)	22		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	92		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	67		26-123
4165-62-2	Phenol-d5 (Surr)	19		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0926.D				
Lims ID:	410-229895-E-5-A				
Client ID:	16WDUP				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:56:30	ALS Bottle#:	26	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-5-A				
Misc. Info.:	410-0152870-031				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: W6ZA		Date:	10-Jul-2025 13:11:16		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	261194	5.40	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	319270	4.75	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	96	202660	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1320430	23.0	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	806425	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2949624	21.6	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	504928	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	178690	8.44	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1026381	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1122813	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	3067150	16.8	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1016889	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

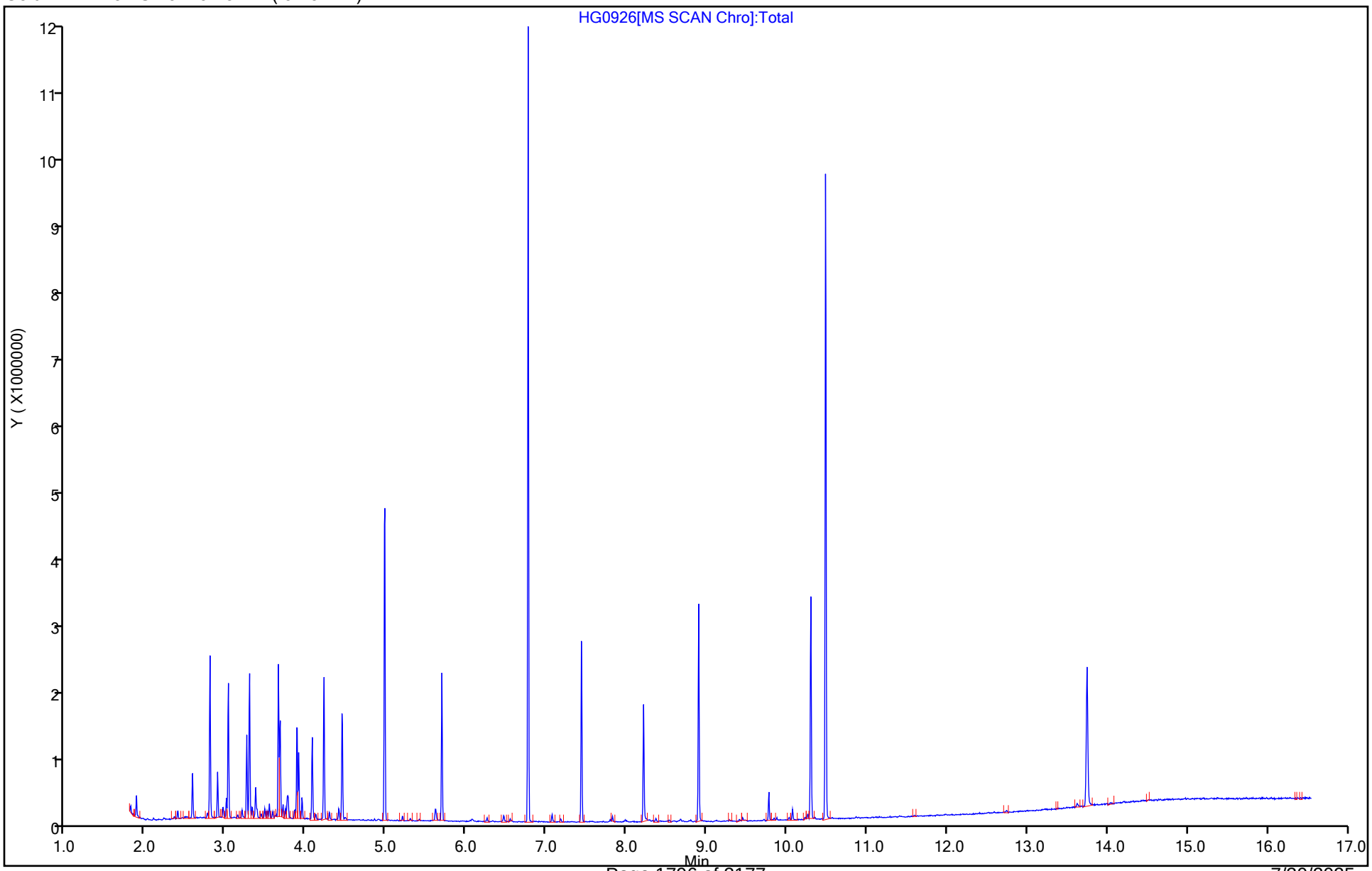
Report Date: 10-Jul-2025 13:15:32 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0926.D

Injection Date:	09-Jul-2025 19:56:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-E-5-A	Lab Sample ID:	410-229895-5	Worklist Smp#:	31
Client ID:	16WDUP				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0926.D				
Lims ID:	410-229895-E-5-A				
Client ID:	16WDUP				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 19:56:30	ALS Bottle#:	26	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-5-A				
Misc. Info.:	410-0152870-031				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:16

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	5.40	21.61
$ 16 Phenol-d5	25.0	4.75	18.98
$ 41 Nitrobenzene-d5	25.0	23.0	91.83
$ 76 2-Fluorobiphenyl (Surr)	25.0	21.6	86.57
$ 113 2,4,6-Tribromophenol	25.0	8.44	33.77
$ 142 p-Terphenyl-d14	25.0	16.8	67.27

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6

Matrix: Water
Lab File ID: HG0927.D

Analysis Method: 8270D
Date Collected: 06/26/2025 11:20

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 245.1(mL)
Date Analyzed: 07/09/2025 20:17

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.2	1.02
84-66-2	Diethyl phthalate	ND		5.10	2.04
606-20-2	2,6-Dinitrotoluene	ND		10.2	1.02

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	68		13-134
321-60-8	2-Fluorobiphenyl (Surr)	84		45-120
367-12-4	2-Fluorophenol (Surr)	35		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	88		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	87		26-123
4165-62-2	Phenol-d5 (Surr)	26		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0927.D				
Lims ID:	410-229895-E-6-A				
Client ID:	16WC1B				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 20:17:30	ALS Bottle#:	27	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-6-A				
Misc. Info.:	410-0152870-032				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				
First Level Reviewer: W6ZA		Date:	10-Jul-2025 13:11:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	486835	8.83	
$ 16 Phenol-d5	99	4.075	4.075	0.000	97	489373	6.38	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	231121	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1482095	21.9	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	947122	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	3331598	21.1	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	94	584859	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	415531	16.9	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1118364	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1230342	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4353223	21.8	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1055208	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

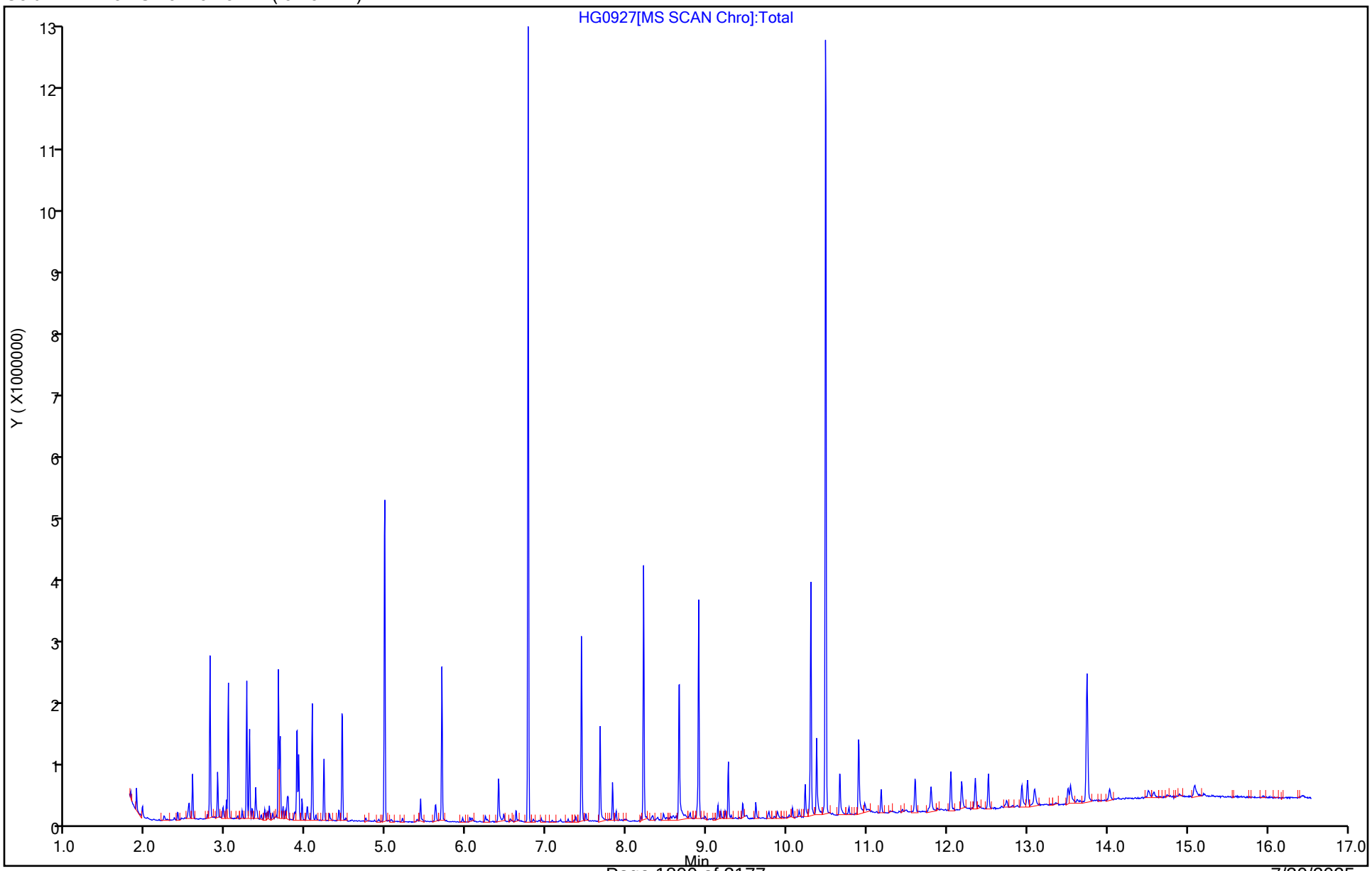
Report Date: 10-Jul-2025 13:15:34 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0927.D

Injection Date:	09-Jul-2025 20:17:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-E-6-A	Lab Sample ID:	410-229895-6	Worklist Smp#:	32
Client ID:	16WC1B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0927.D				
Lims ID:	410-229895-E-6-A				
Client ID:	16WC1B				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 20:17:30	ALS Bottle#:	27	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-6-A				
Misc. Info.:	410-0152870-032				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:11:31

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	8.83	35.31
$ 16 Phenol-d5	25.0	6.38	25.51
$ 41 Nitrobenzene-d5	25.0	21.9	87.76
$ 76 2-Fluorobiphenyl (Surr)	25.0	21.1	84.42
$ 113 2,4,6-Tribromophenol	25.0	16.9	67.80
$ 142 p-Terphenyl-d14	25.0	21.8	87.13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7

Matrix: Water
Lab File ID: HF0329.D

Analysis Method: 8270D
Date Collected: 06/25/2025 11:15

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 247.6(mL)
Date Analyzed: 07/03/2025 23:01

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.1	1.01
84-66-2	Diethyl phthalate	ND		5.05	2.02
606-20-2	2,6-Dinitrotoluene	ND		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	66		13-134
321-60-8	2-Fluorobiphenyl (Surr)	79		45-120
367-12-4	2-Fluorophenol (Surr)	49		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	79		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	108		26-123
4165-62-2	Phenol-d5 (Surr)	34		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D
Lims ID: 410-229895-E-7-A
Client ID: 16-2
Sample Type: Client
Inject. Date: 03-Jul-2025 23:01:30 ALS Bottle#: 30 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-7-A
Misc. Info.: 410-0152352-030
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	327326	12.4	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	311392	8.46	
* 23 1,4-Dichlorobenzene-d4	152	4.452	4.446	0.006	96	110869	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	627243	19.6	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	448086	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1594034	19.8	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	298496	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	U
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	205937	16.5	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	612897	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	98	710205	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	3105583	26.9	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	818020	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

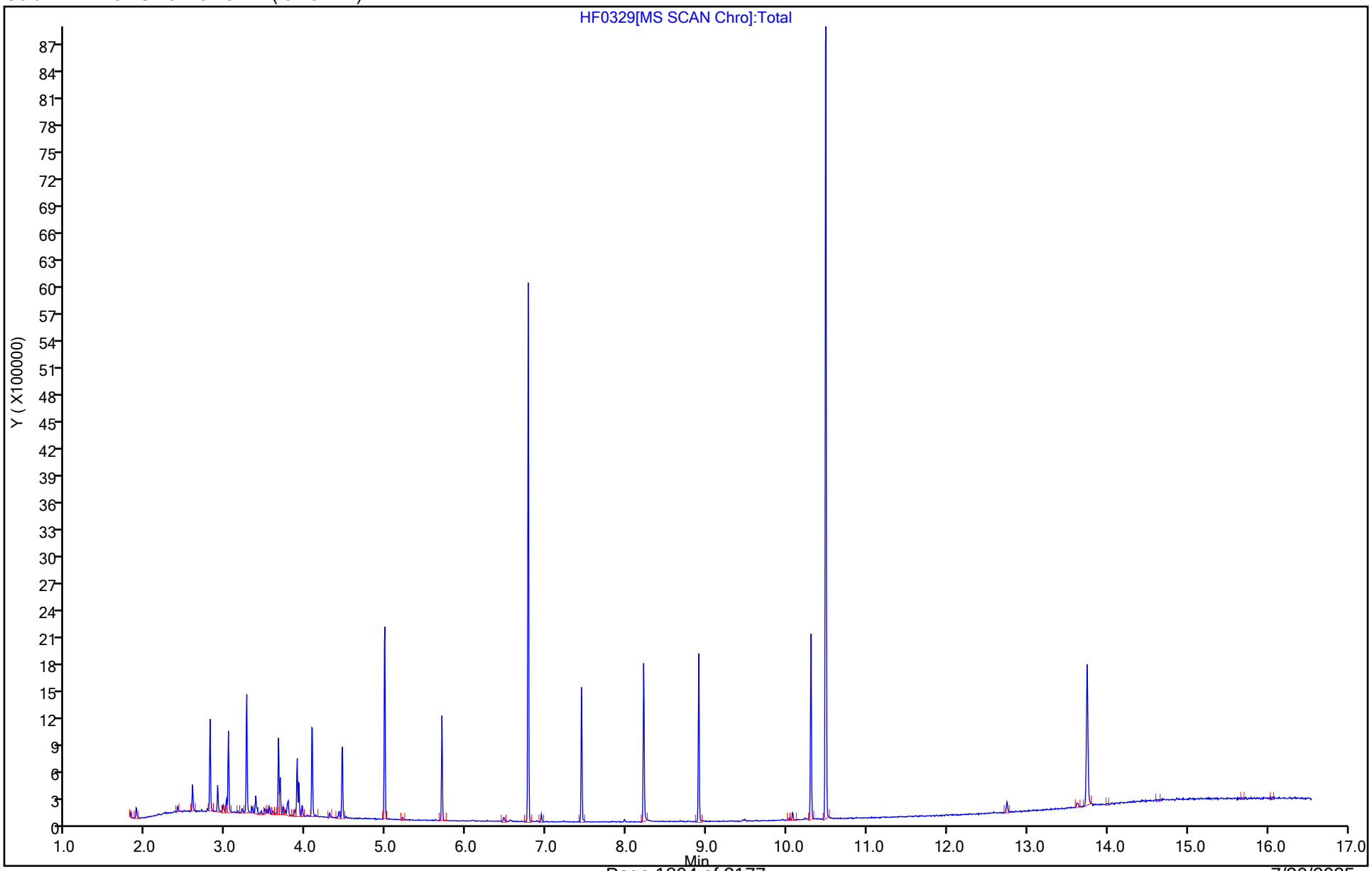
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 07-Jul-2025 11:29:41 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D				
Injection Date:	03-Jul-2025 23:01:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	410-229895-E-7-A	Lab Sample ID:	410-229895-7	Worklist Smp#:	30
Client ID:	16-2				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	30
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D				
Lims ID:	410-229895-E-7-A				
Client ID:	16-2				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 23:01:30	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-7-A				
Misc. Info.:	410-0152352-030				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.4	49.49
$ 16 Phenol-d5	25.0	8.46	33.84
$ 41 Nitrobenzene-d5	25.0	19.6	78.51
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.8	79.14
$ 113 2,4,6-Tribromophenol	25.0	16.5	65.84
$ 142 p-Terphenyl-d14	25.0	26.9	107.69

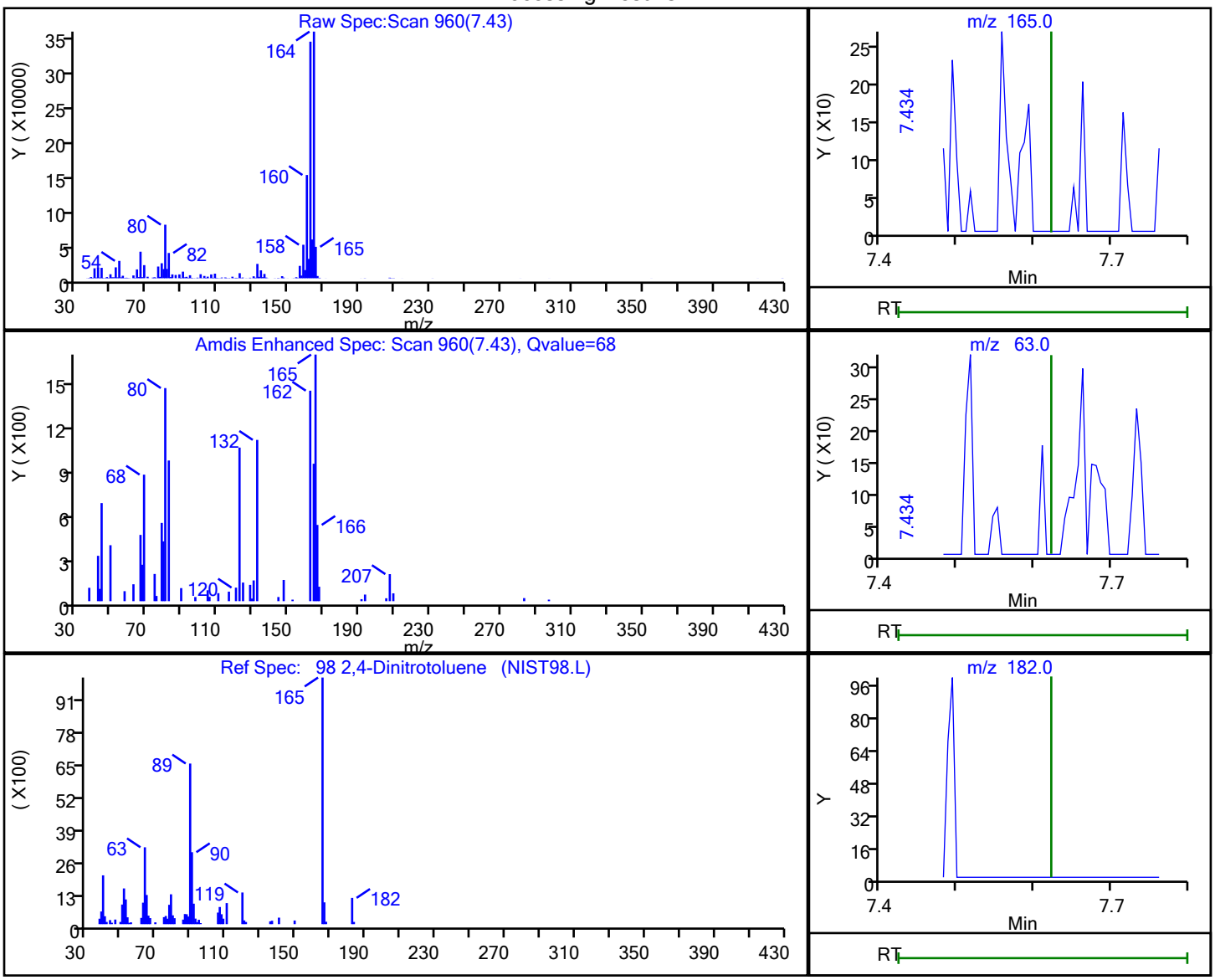
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0329.D				
Injection Date:	03-Jul-2025 23:01:30	Instrument ID:	HP18831		
Lims ID:	410-229895-E-7-A	Lab Sample ID:	410-229895-7		
Client ID:	16-2				
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	30	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	36948	1.752431
7.43	63.00	595	
7.62	182.00	0	
7.43	89.00	647	

Reviewer: W6ZA, 07-Jul-2025 11:26:58 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-3
Lab Sample ID: 410-229895-8

Matrix: Water
Lab File ID: HF0330.D

Analysis Method: 8270D
Date Collected: 06/25/2025 13:00

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 246.8(mL)
Date Analyzed: 07/03/2025 23:23

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.1	1.01
84-66-2	Diethyl phthalate	ND		5.06	2.03
606-20-2	2,6-Dinitrotoluene	ND		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	63		13-134
321-60-8	2-Fluorobiphenyl (Surr)	80		45-120
367-12-4	2-Fluorophenol (Surr)	55		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	84		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	104		26-123
4165-62-2	Phenol-d5 (Surr)	38		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0330.D
Lims ID: 410-229895-E-8-A
Client ID: 16-3
Sample Type: Client
Inject. Date: 03-Jul-2025 23:23:30 ALS Bottle#: 31 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-8-A
Misc. Info.: 410-0152352-031
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	280295	13.7	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	273013	9.61	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	97	85549	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	566104	21.0	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	377729	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1423735	20.1	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	93	262679	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	172086	15.6	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	571647	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	666312	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	2803226	25.9	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	778428	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

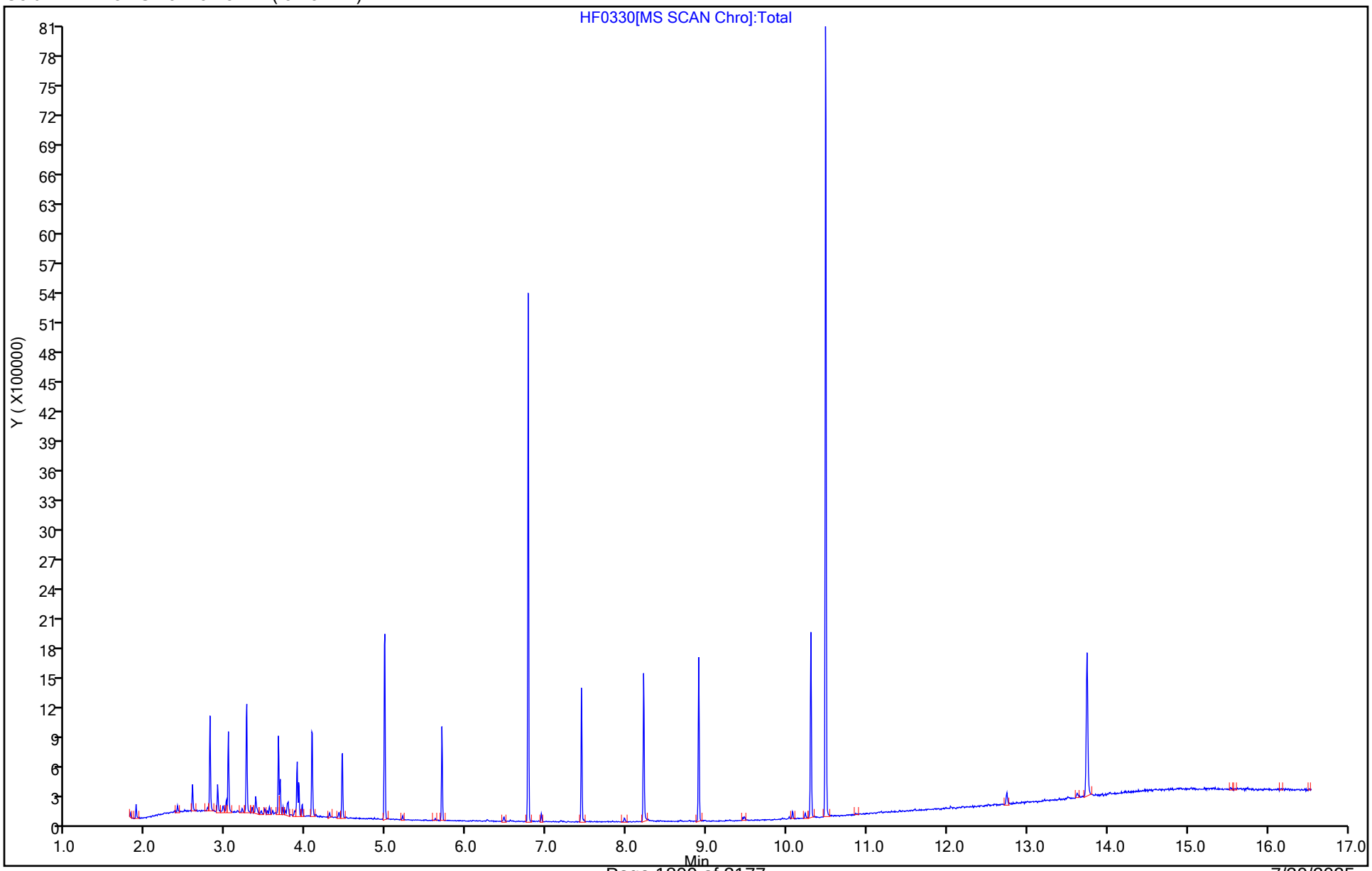
Report Date: 07-Jul-2025 11:29:43 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0330.D

Injection Date:	03-Jul-2025 23:23:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	410-229895-E-8-A	Lab Sample ID:	410-229895-8	Worklist Smp#:	31
Client ID:	16-3				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	31
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0330.D				
Lims ID:	410-229895-E-8-A				
Client ID:	16-3				
Sample Type:	Client				
Inject. Date:	03-Jul-2025 23:23:30	ALS Bottle#:	31	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-8-A				
Misc. Info.:	410-0152352-031				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:29:14	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:27:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	13.7	54.93
$ 16 Phenol-d5	25.0	9.61	38.45
$ 41 Nitrobenzene-d5	25.0	21.0	84.06
$ 76 2-Fluorobiphenyl (Surr)	25.0	20.1	80.33
$ 113 2,4,6-Tribromophenol	25.0	15.6	62.52
$ 142 p-Terphenyl-d14	25.0	25.9	103.61

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16-5
Lab Sample ID: 410-229895-9

Matrix: Water
Lab File ID: HG0870.D

Analysis Method: 8270D
Date Collected: 06/25/2025 09:15

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 246(mL)
Date Analyzed: 07/09/2025 03:30

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668512
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.2	1.02
84-66-2	Diethyl phthalate	ND		5.08	2.03
606-20-2	2,6-Dinitrotoluene	ND		10.2	1.02

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	64		13-134
321-60-8	2-Fluorobiphenyl (Surr)	76		45-120
367-12-4	2-Fluorophenol (Surr)	52		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	77		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	105		26-123
4165-62-2	Phenol-d5 (Surr)	36		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0870.D				
Lims ID:	410-229895-E-9-A				
Client ID:	16-5				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 03:30:30	ALS Bottle#:	19	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-9-A				
Misc. Info.:	410-0152813-020				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				
First Level Reviewer: SJ89		Date:	09-Jul-2025 12:00:00		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.262	0.000	95	429849	13.0	
$ 16 Phenol-d5	99	4.075	4.081	0.000	96	415914	9.03	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	96	138719	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	806350	19.2	
* 54 Naphthalene-d8	136	5.693	5.692	0.000	100	588688	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	2063150	19.0	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.434	0.000	94	402602	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	96	268158	15.9	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	839828	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	968528	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	4143854	26.3	
* 159 Perylene-d12	264	13.745	13.745	0.000	99	1039935	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

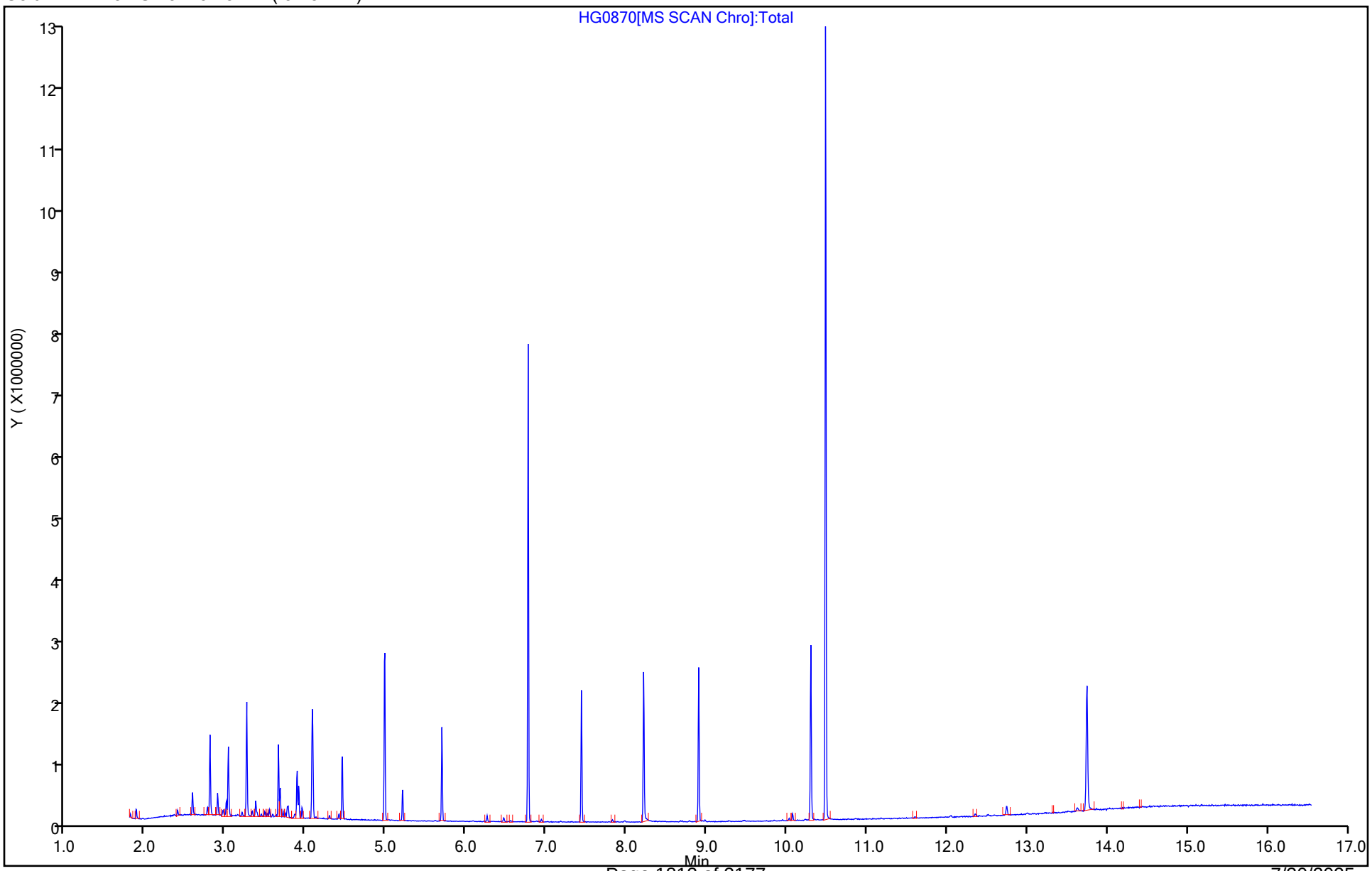
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 09-Jul-2025 12:06:21 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0870.D				
Injection Date:	09-Jul-2025 03:30:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	410-229895-E-9-A	Lab Sample ID:	410-229895-9	Worklist Smp#:	20
Client ID:	16-5				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0870.D				
Lims ID:	410-229895-E-9-A				
Client ID:	16-5				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 03:30:30	ALS Bottle#:	19	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-9-A				
Misc. Info.:	410-0152813-020				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	13.0	51.95
$ 16 Phenol-d5	25.0	9.03	36.12
$ 41 Nitrobenzene-d5	25.0	19.2	76.82
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.0	75.95
$ 113 2,4,6-Tribromophenol	25.0	15.9	63.56
$ 142 p-Terphenyl-d14	25.0	26.3	105.36

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC2B
Lab Sample ID: 410-229895-10

Matrix: Water
Lab File ID: HG0871.D

Analysis Method: 8270D
Date Collected: 06/25/2025 10:20

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 246.6(mL)
Date Analyzed: 07/09/2025 03:51

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668512
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.1	1.01
84-66-2	Diethyl phthalate	ND		5.07	2.03
606-20-2	2,6-Dinitrotoluene	ND		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	52		13-134
321-60-8	2-Fluorobiphenyl (Surr)	69		45-120
367-12-4	2-Fluorophenol (Surr)	41		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	67		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	90		26-123
4165-62-2	Phenol-d5 (Surr)	28		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D
Lims ID: 410-229895-E-10-A
Client ID: 16WC2B
Sample Type: Client
Inject. Date: 09-Jul-2025 03:51:30 ALS Bottle#: 20 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-10-A
Misc. Info.: 410-0152813-021
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Jul-2025 12:05:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.262	0.000	95	366318	10.4	
$ 16 Phenol-d5	99	4.075	4.081	0.000	96	347425	7.06	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	98	148210	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	736946	16.7	
* 54 Naphthalene-d8	136	5.692	5.692	0.000	100	618616	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1892623	17.3	
88 2,6-Dinitrotoluene	165		7.228				ND	7
* 91 Acenaphthene-d10	164	7.434	7.434	0.000	95	404407	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	U
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	95	221298	13.1	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	868725	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	986718	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	3616739	22.6	
* 159 Perylene-d12	264	13.745	13.745	0.000	99	985241	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
U - Marked Undetected

Reagents:

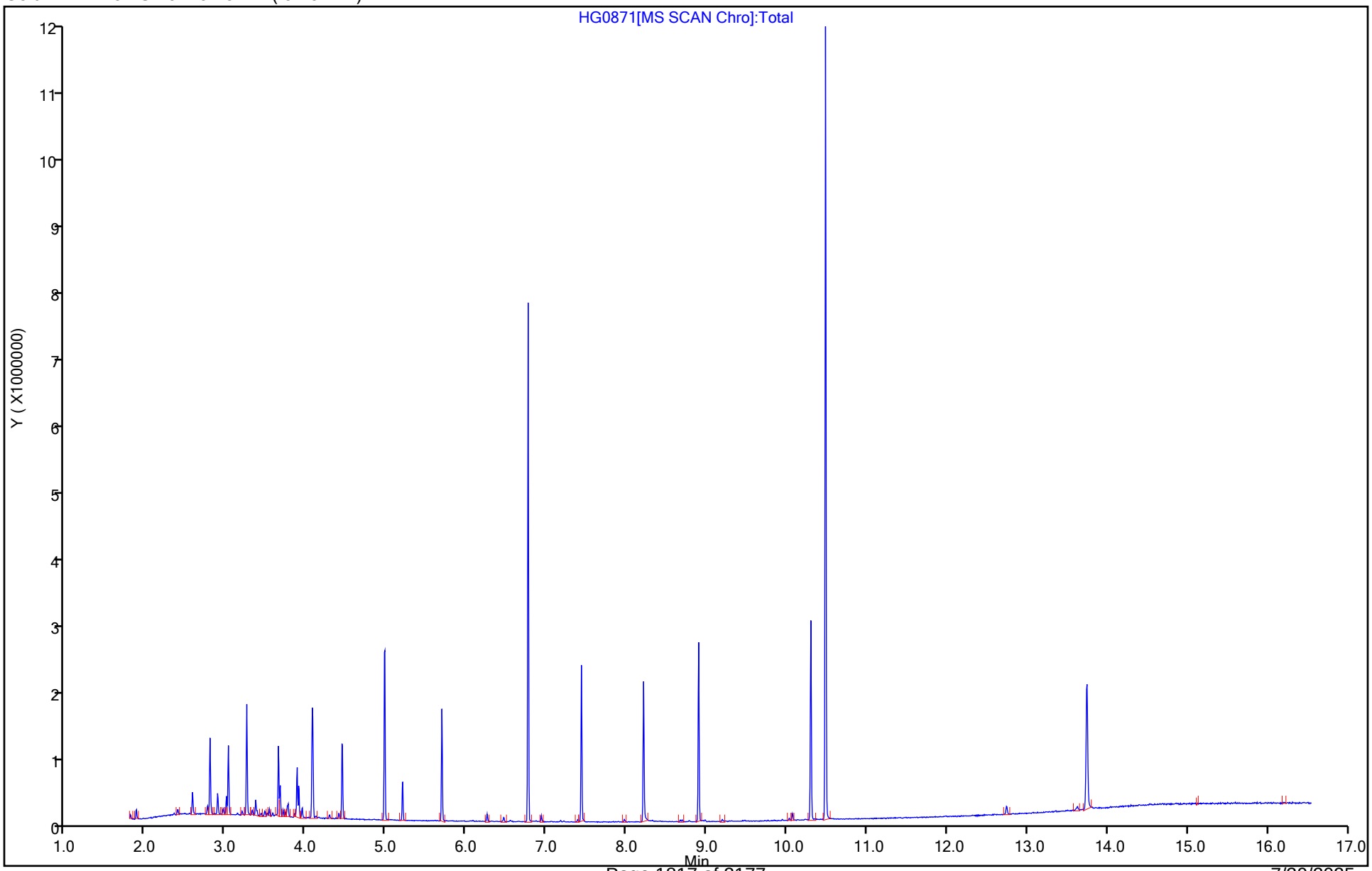
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 09-Jul-2025 12:06:25 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D				
Injection Date:	09-Jul-2025 03:51:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	410-229895-E-10-A	Lab Sample ID:	410-229895-10	Worklist Smp#:	21
Client ID:	16WC2B				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D
Lims ID: 410-229895-E-10-A
Client ID: 16WC2B
Sample Type: Client
Inject. Date: 09-Jul-2025 03:51:30 ALS Bottle#: 20 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-E-10-A
Misc. Info.: 410-0152813-021
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 09-Jul-2025 12:05:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1634

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:10

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	10.4	41.43
$ 16 Phenol-d5	25.0	7.06	28.24
$ 41 Nitrobenzene-d5	25.0	16.7	66.81
$ 76 2-Fluorobiphenyl (Surr)	25.0	17.3	69.36
$ 113 2,4,6-Tribromophenol	25.0	13.1	52.22
$ 142 p-Terphenyl-d14	25.0	22.6	90.27

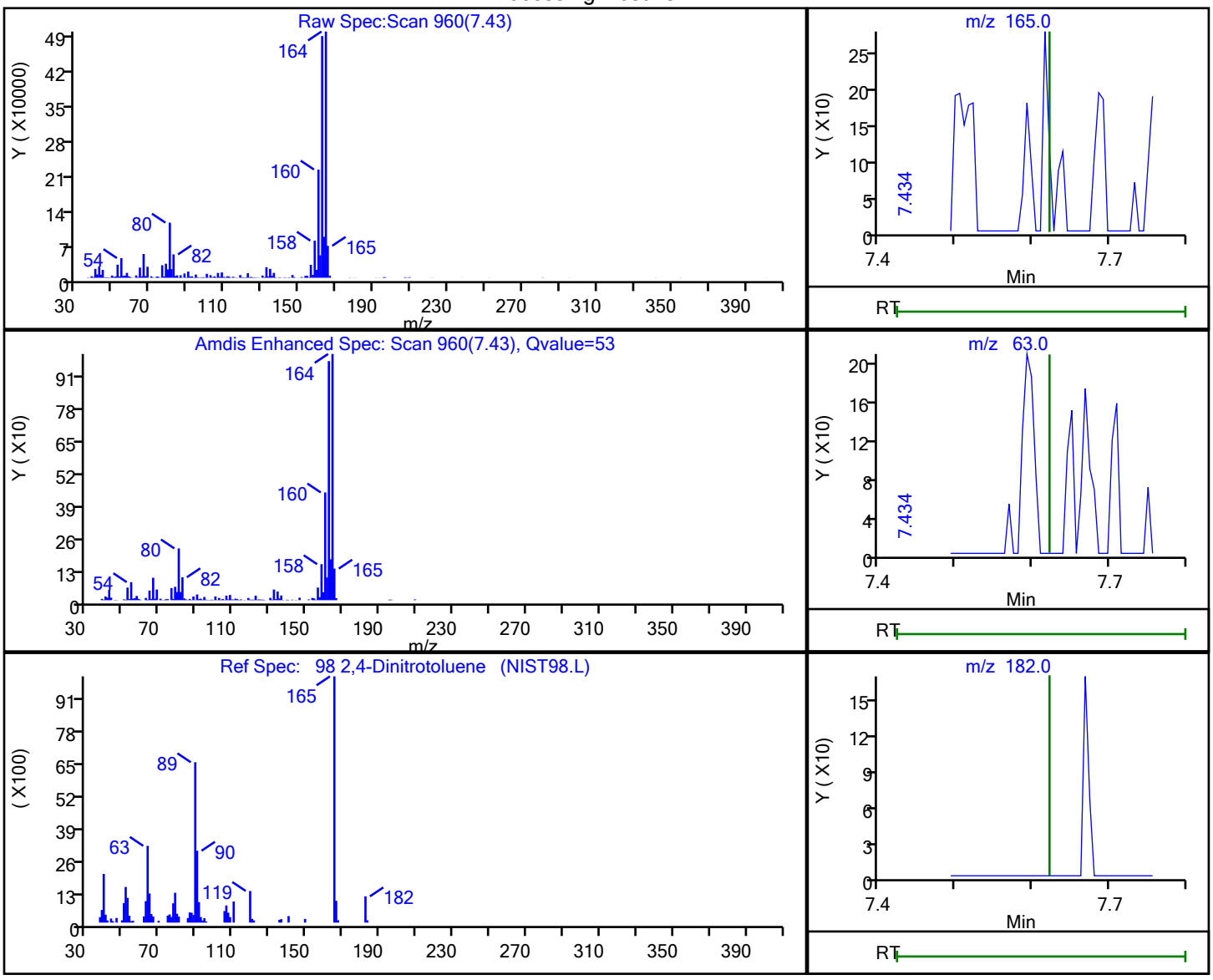
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0871.D				
Injection Date:	09-Jul-2025 03:51:30	Instrument ID:	HP18831		
Lims ID:	410-229895-E-10-A	Lab Sample ID:	410-229895-10		
Client ID:	16WC2B				
Operator ID:	kel10217	ALS Bottle#:	20	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	51880	1.816226
7.43	63.00	1219	
7.43	89.00	1099	
7.62	182.00	0	

Reviewer: SJ89, 09-Jul-2025 12:00:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11

Matrix: Water
Lab File ID: HG0872.D

Analysis Method: 8270D
Date Collected: 06/25/2025 09:25

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 248.9(mL)
Date Analyzed: 07/09/2025 04:12

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668512
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.0	1.00
84-66-2	Diethyl phthalate	ND		5.02	2.01
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	58		13-134
321-60-8	2-Fluorobiphenyl (Surr)	71		45-120
367-12-4	2-Fluorophenol (Surr)	44		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	71		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	99		26-123
4165-62-2	Phenol-d5 (Surr)	30		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0872.D				
Lims ID:	410-229895-E-11-A				
Client ID:	16SPRING				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 04:12:30	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-11-A				
Misc. Info.:	410-0152813-022				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				
First Level Reviewer: SJ89		Date:	09-Jul-2025 12:00:22		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.262	0.000	94	397146	10.9	
$ 16 Phenol-d5	99	4.075	4.081	0.000	96	378090	7.45	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	96	152880	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	802589	17.8	
* 54 Naphthalene-d8	136	5.693	5.692	0.001	100	633040	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	2076017	17.8	
88 2,6-Dinitrotoluene	165		7.228				ND	
* 91 Acenaphthene-d10	164	7.434	7.434	0.000	95	431885	5.00	
98 2,4-Dinitrotoluene	165		7.622				ND	
104 Diethyl phthalate	149		7.875				ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.216	-0.006	96	262499	14.5	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	914374	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1034750	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.486	-0.006	98	4175898	24.8	
* 159 Perylene-d12	264	13.745	13.745	0.000	99	1059767	5.00	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

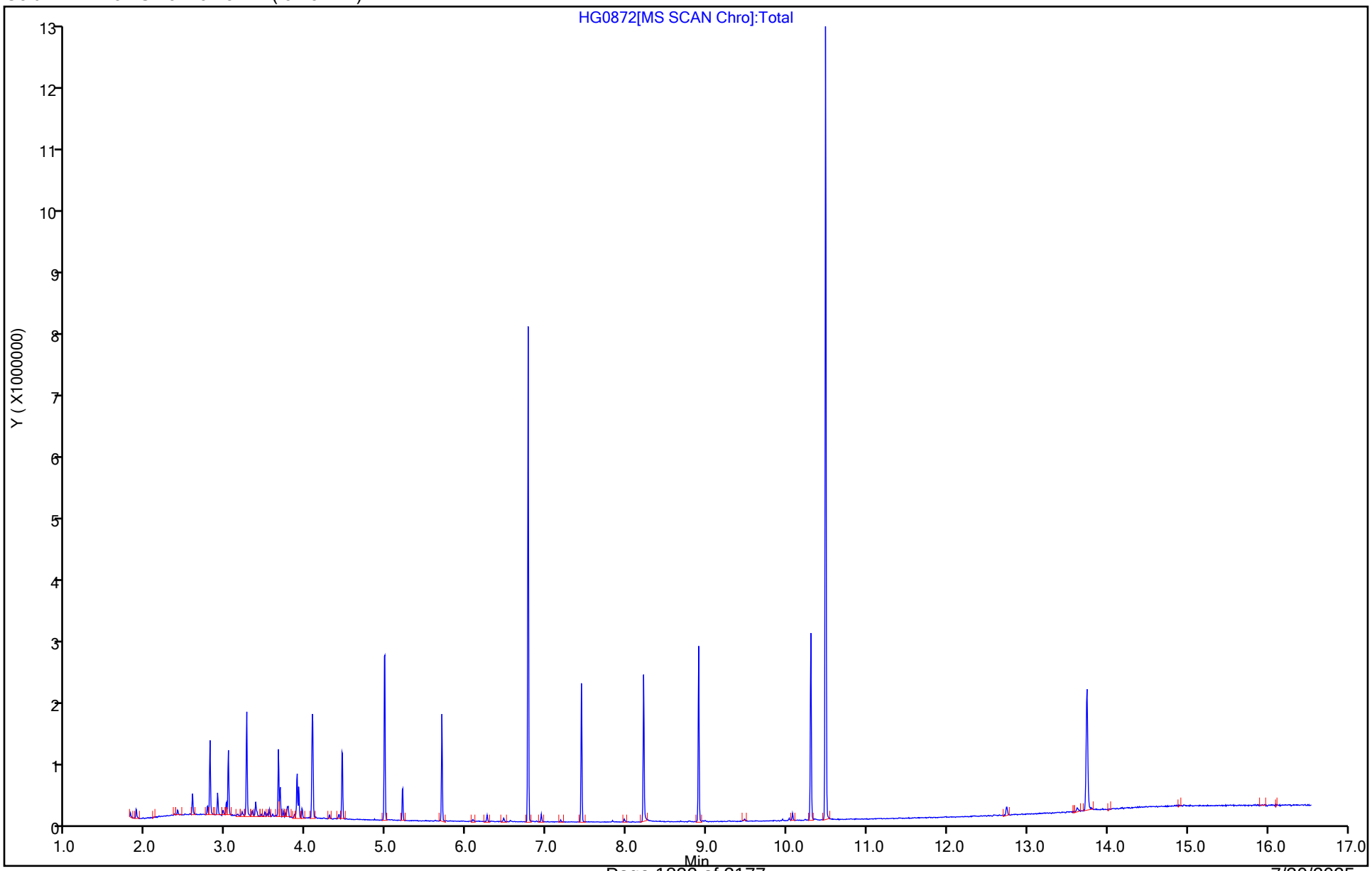
Report Date: 09-Jul-2025 12:06:31 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0872.D

Injection Date:	09-Jul-2025 04:12:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	410-229895-E-11-A	Lab Sample ID:	410-229895-11	Worklist Smp#:	22
Client ID:	16SPRING				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0872.D				
Lims ID:	410-229895-E-11-A				
Client ID:	16SPRING				
Sample Type:	Client				
Inject. Date:	09-Jul-2025 04:12:30	ALS Bottle#:	21	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-E-11-A				
Misc. Info.:	410-0152813-022				
Operator ID:	kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	09-Jul-2025 12:05:43	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1634				

First Level Reviewer: SJ89 Date: 09-Jul-2025 12:00:22

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	10.9	43.55
$ 16 Phenol-d5	25.0	7.45	29.80
$ 41 Nitrobenzene-d5	25.0	17.8	71.11
$ 76 2-Fluorobiphenyl (Surr)	25.0	17.8	71.24
$ 113 2,4,6-Tribromophenol	25.0	14.5	58.00
$ 142 p-Terphenyl-d14	25.0	24.8	99.38

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-661633/9	HF2358.D
Level 2	IC 410-661633/8	HF2357.D
Level 3	IC 410-661633/7	HF2356.D
Level 4	IC 410-661633/6	HF2355.D
Level 5	IC 410-661633/5	HF2354.D
Level 6	ICIS 410-661633/2	HF2351.D
Level 7	IC 410-661633/4	HF2353.D
Level 8	IC 410-661633/3	HF2352.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	+++++ 0.4952	+++++ 0.4930	0.5611 0.5417	0.5480	0.5040	Ave		0.5238				5.7		20.0			
N-Nitrosodimethylamine	1.0055 0.9026	0.8641 0.8736	0.9117 0.9896	0.8810	0.8610	Ave		0.9111				6.2		20.0			
Pyridine	1.5887 1.4326	1.4094 1.3967	1.3851 1.5705	1.4274	1.3790	Ave		1.4487				5.7		20.0			
N,N-dimethylformamide	+++++ 1.0549	+++++ 1.0080	0.8252 1.1702	0.9478	0.9558	Ave		0.9936				11.7		20.0			
2-Picoline	1.4456 1.5271	1.3239 1.5010	1.5626 1.6602	1.4936	1.4467	Ave		1.4951				6.5		20.0			
N-Nitrosomethylethylamine	+++++ 0.6441	+++++ 0.6406	0.7562 0.7145	0.6682	0.6326	Ave		0.6760				7.3		20.0			
Methyl methanesulfonate	0.8029 0.8639	0.8218 0.8249	0.8343 0.9162	0.8569	0.8083	Ave		0.8412				4.4		20.0			
N-Nitrosodiethylamine	0.6994 0.6656	0.5717 0.6662	0.7046 0.7426	0.6496	0.6460	Ave		0.6682				7.6		20.0			
Ethyl methanesulfonate	0.7283 0.7416	0.8201 0.7401	0.7670 0.8042	0.7545	0.7117	Ave		0.7584				4.9		20.0			
Benzaldehyde	1.3659 1.2380	1.3873 1.2238	1.3166 1.2432	1.2280	1.1725	Ave		1.2719			0.0100	6.0		20.0			
Phenol	1.7652 1.8355	1.5509 1.8068	1.7018 1.9873	1.7579	1.7408	Ave		1.7683			0.8000	7.0		20.0			
Aniline	2.1265 2.2625	2.2352 2.1998	1.9889 2.4489	2.2237	2.1529	Ave		2.2048				5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Bis(2-chloroethyl)ether	1.5843 1.4443	1.4759 1.3868	1.3244 1.5067	1.4081	1.3492	Ave		1.4350			0.7000	6.0		20.0			
2-Chlorophenol	1.2895 1.3022	1.2364 1.3105	1.1718 1.4450	1.3012	1.2866	Ave		1.2929			0.8000	6.0		20.0			
1,3-Dichlorobenzene	1.4189 1.4484	1.5234 1.4338	1.4701 1.5688	1.4941	1.4500	Ave		1.4760				3.4		20.0			
1,4-Dichlorobenzene	1.6506 1.4727	1.5160 1.4673	1.5601 1.6223	1.5098	1.4638	Ave		1.5328				4.7		20.0			
Benzyl alcohol	0.9696 0.9603	0.9438 0.9550	0.8634 1.0469	0.9564	0.9057	Ave		0.9501				5.5		20.0			
1,2-Dichlorobenzene	1.5330 1.4171	1.3536 1.4280	1.4198 1.5581	1.4720	1.4291	Ave		1.4513				4.6		20.0			
2-Methylphenol	1.2815 1.3322	1.1910 1.3224	1.2210 1.4348	1.2454	1.2412	Ave		1.2837			0.7000	6.1		20.0			
2,2'-oxybis[1-chloropropane]	2.6139 2.2808	2.5290 2.2625	2.3187 2.4503	2.2972	2.1653	Ave		2.3647			0.0100	6.4		20.0			
N-Nitrosopyrrolidine	0.7037 0.8309	0.7037 0.8311	0.8654 0.8859	0.8386	0.7771	Ave		0.8046				8.7		20.0			
3,4-Methylphenol	1.1086 1.4254	1.2555 1.4010	1.2490 1.5187	1.3475	1.3272	Ave		1.3291			0.6000	9.5		20.0			
N-Nitrosodi-n-propylamine	1.2493 1.2270	1.3023 1.1788	1.1891 1.2544	1.1994	1.1614	Ave		1.2202			0.5000	3.8		20.0			
Acetophenone	2.1980 2.1748	2.1949 2.1014	2.0525 2.2411	2.2277	2.0875	Ave		2.1597			0.0100	3.2		20.0			
N-Nitrosomorpholine	1.3437 1.1074	1.2281 1.0572	1.1511 1.1220	1.1243	1.0355	Ave		1.1462				8.6		20.0			
o-Toluidine	2.4267 2.3166	2.1283 2.2724	2.3336 2.4196	2.3939	2.2390	Ave		2.3163				4.4		20.0			
Hexachloroethane	0.7732 0.5634	0.7115 0.5683	0.5875 0.6153	0.5790	0.5515	Ave		0.6187			0.3000	13.0		20.0			
Nitrobenzene	0.4005 0.3719	0.4505 0.3581	0.3568 0.3967	0.3736	0.3713	Ave		0.3849			0.2000	8.0		20.0			
N-Nitrosopiperidine	0.2096 0.1816	0.1929 0.1824	0.1886 0.1942	0.1857	0.1766	Ave		0.1890				5.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isophorone	0.7746 0.7543	0.7343 0.7353	0.7222 0.7885	0.7447	0.7234	Ave		0.7472			0.4000	3.2		20.0			
2-Nitrophenol	+++++ 0.1173	0.1053 0.1336	0.0967 0.1426	0.1134	0.1237	Ave		0.1189			0.1000	13.3		20.0			
2,4-Dimethylphenol	0.3470 0.3625	0.3264 0.3485	0.3146 0.3919	0.3529	0.3522	Ave		0.3495			0.2000	6.6		20.0			
o,o',o''-Triethylphosphorothioate	0.1931 0.1883	0.1981 0.1930	0.2050 0.2056	0.2021	0.1929	Ave		0.1973				3.3		20.0			
Bis(2-chloroethoxy)methane	0.4912 0.4495	0.4746 0.4401	0.4748 0.4760	0.4664	0.4298	Ave		0.4628			0.3000	4.5		20.0			
2,4-Dichlorophenol	0.1985 0.2850	0.2247 0.2861	0.2470 0.3178	0.2720	0.2762	Ave		0.2634			0.2000	14.5		20.0			
1,2,4-Trichlorobenzene	0.3580 0.3287	0.3396 0.3177	0.3362 0.3494	0.3346	0.3287	Ave		0.3366				3.8		20.0			
Naphthalene	1.0091 1.0111	1.1044 0.9811	1.0383 1.0492	1.0189	1.0013	Ave		1.0267			0.7000	3.7		20.0			
a-Terpineol	0.3399 0.3275	0.3109 0.3215	0.3197 0.3459	0.3271	0.3181	Ave		0.3263				3.6		20.0			
4-Chloroaniline	0.4247 0.4654	0.4257 0.4431	0.4470 0.4850	0.4573	0.4447	Ave		0.4491			0.0100	4.5		20.0			
2,6-Dichlorophenol	0.2323 0.2750	0.2160 0.2785	0.2462 0.3012	0.2738	0.2755	Ave		0.2623				10.7		20.0			
Hexachloropropene	0.1937 0.2117	0.1739 0.2148	0.2193 0.2295	0.2156	0.2101	Ave		0.2086				8.3		20.0			
Hexachlorobutadiene	0.2030 0.1950	0.1940 0.1945	0.1977 0.2075	0.2004	0.1963	Ave		0.1985			0.0100	2.4		20.0			
Quinoline	0.7929 0.7382	0.8639 0.7125	0.7506 0.7800	0.7495	0.7197	Ave		0.7634				6.4		20.0			
Caprolactam	0.1005 0.1186	0.0959 0.1188	0.1151 0.1228	0.1131	0.1121	Ave		0.1121			0.0100	8.3		20.0			
N-Nitrosodi-n-butylamine	0.2783 0.2918	0.3094 0.3512	0.3057 0.3660	0.2953	0.2725	Ave		0.3088				10.8		20.0			
1,4-phenylenediamine	0.3584 0.4540	0.3788 0.4241	0.4325 0.4553	0.4470	0.4300	Ave		0.4225				8.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Chloro-3-methylphenol	0.2419 0.3229	0.2973 0.3197	0.2898 0.3518	0.3165	0.3129	Ave		0.3066			0.2000	10.4		20.0			
Safrole, Total	0.3099 0.3004	0.2622 0.2899	0.3032 0.3076	0.2980	0.2845	Ave		0.2945				5.3		20.0			
2-Methylnaphthalene	0.6720 0.6611	0.7065 0.6319	0.6658 0.6858	0.6772	0.6448	Ave		0.6681			0.4000	3.5		20.0			
1-Methylnaphthalene	0.6950 0.6848	0.7028 0.6732	0.7000 0.7205	0.6982	0.6763	Ave		0.6939				2.2		20.0			
Hexachlorocyclopentadiene	+++++ 0.3751	+++++ 0.3822	0.3362 0.4185	0.3466	0.3859	Ave		0.3741			0.0500	7.9		20.0			
1,2,4,5-Tetrachlorobenzene	0.6258 0.5734	0.6187 0.5799	0.5858 0.6140	0.5753	0.5823	Ave		0.5944			0.0100	3.6		20.0			
Isosafrole Peak 1	0.7050 0.5244	0.5843 0.5122	0.5935 0.5509	0.5029	0.5312	Ave		0.5631				11.7		20.0			
2,4,6-Trichlorophenol	+++++ 0.3079	0.2463 0.3403	0.2423 0.3627	0.2851	0.3121	Ave		0.2995			0.2000	15.0		20.0			
2,4,5-Trichlorophenol	+++++ 0.4145	0.3009 0.4142	0.3337 0.4566	0.3833	0.4202	Ave		0.3890			0.2000	14.0		20.0			
Isosafrole Peak 2	0.5289 0.5700	0.5576 0.5745	0.5796 0.6081	0.5750	0.5641	Ave		0.5697				3.9		20.0			
1,1'-Biphenyl	1.5349 1.4321	1.4784 1.4136	1.4914 1.4954	1.4688	1.4667	Ave		1.4727			0.0100	2.6		20.0			
2-Chloronaphthalene	1.3295 1.1579	1.3333 1.1136	1.2359 1.1155	1.2062	1.2048	Ave		1.2121			0.8000	7.0		20.0			
1-Chloronaphthalene	1.0833 1.0474	1.0437 1.0545	1.0827 1.1662	1.0407	1.0441	Ave		1.0703				4.0		20.0			
Diphenyl ether	0.9186 0.8052	0.8889 0.8022	0.8370 0.8586	0.8006	0.8441	Ave		0.8444				5.1		20.0			
2-Nitroaniline	0.2442 0.3406	0.3023 0.3517	0.3007 0.3831	0.3246	0.3507	Ave		0.3247			0.0100	13.1		20.0			
1,4-Naphthoquinone	0.4263 0.4744	0.3995 0.4859	0.4877 0.5000	0.4788	0.4857	Ave		0.4673				7.5		20.0			
1,4-Dinitrobenzene	+++++ 0.1334	0.1186 0.1529	0.1127 0.1685	0.1257	0.1416	Ave		0.1362				14.5		20.0			

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FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dimethyl phthalate	1.4089 1.3574	1.3979 1.3645	1.3886 1.4353	1.3936	1.4023	Ave		1.3936			0.0100	1.8		20.0			
1,3-Dinitrobenzene	+++++ 0.1750	+++++ 0.1888	0.1443 0.2083	0.1599	0.1781	Ave		0.1757				12.7		20.0			
2,6-Dinitrotoluene	0.2288 0.2722	0.2603 0.2876	0.2339 0.3109	0.2661	0.2785	Ave		0.2673			0.2000	10.1		20.0			
Acenaphthylene	1.7615 1.8589	1.8240 1.8039	1.7994 1.9645	1.8099	1.8720	Ave		1.8368			0.9000	3.4		20.0			
3-Nitroaniline	0.2382 0.3186	0.2669 0.3329	0.2795 0.3675	0.2999	0.3261	Ave		0.3037			0.0100	13.6		20.0			
Acenaphthene	1.3639 1.1775	1.3282 1.1829	1.2334 1.2600	1.1931	1.2052	Ave		1.2430			0.9000	5.6		20.0			
2,4-Dinitrophenol	+++++ 0.0577	+++++ 0.0673	0.0510 0.0739	0.0542	0.0620	Ave		0.0610			0.0100	14.0		20.0			
4-Nitrophenol	+++++ 0.1601	+++++ 0.1719	+++++ 0.1897	0.1432	0.1614	Ave		0.1653			0.0100	10.3		20.0			
Pentachlorobenzene	0.5997 0.5490	0.5850 0.5473	0.5916 0.5859	0.5590	0.5738	Ave		0.5739				3.5		20.0			
2,4-Dinitrotoluene	0.3015 0.3652	0.3022 0.3962	0.3081 0.4343	0.3465	0.3713	Ave		0.3532			0.2000	13.6		20.0			
Dibenzofuran	1.8693 1.6746	1.8079 1.6494	1.7618 1.7550	1.7266	1.7214	Ave		1.7458			0.8000	4.0		20.0			
1-Naphthylamine	1.0759 1.2588	1.1507 1.2410	1.2554 1.3149	1.2533	1.2674	Ave		1.2272				6.2		20.0			
2,3,4,6-Tetrachlorophenol	+++++ 0.3218	+++++ 0.3610	0.2665 0.3871	0.3060	0.3553	Ave		0.3329			0.0100	13.1		20.0			
2-Naphthylamine	1.2845 1.3343	1.3218 1.3066	1.3443 1.4207	1.3327	1.3542	Ave		1.3374				3.0		20.0			
Diethyl phthalate	1.3735 1.3953	1.3698 1.4102	1.3575 1.4785	1.4129	1.4178	Ave		1.4019			0.0100	2.7		20.0			
Thionazin	0.2232 0.2108	0.2103 0.2189	0.2096 0.2344	0.2104	0.2218	Ave		0.2174				4.1		20.0			
Fluorene	1.3939 1.4025	1.4841 1.3748	1.4841 1.4607	1.4424	1.4664	Ave		1.4386			0.9000	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Chlorophenyl-phenyl ether	0.7395 0.6704	0.7576 0.6543	0.7386 0.7039	0.7054	0.7002	Ave		0.7087			0.4000	5.0		20.0			
5-Nitro-o-toluidine	0.3636 0.3713	0.2770 0.3756	0.3273 0.4006	0.3507	0.3816	Ave		0.3560				10.8		20.0			
4-Nitroaniline	0.2963 0.3591	0.2691 0.3571	0.3201 0.3895	0.3464	0.3749	Ave		0.3391			0.0100	12.0		20.0			
4,6-Dinitro-2-methylphenol	+++++ 0.0466	+++++ 0.0571	0.0362 0.0631	0.0415	0.0490	Qua2	-0.0300	0.0430	0.0003421		0.0100				0.9970		0.9900
N-Nitrosodiphenylamine	0.5515 0.6067	0.5860 0.5934	0.5916 0.6215	0.6038	0.5996	Ave		0.5943			0.0100	3.4		20.0			
1,2-Diphenylhydrazine	0.7417 0.7391	0.7861 0.7071	0.7296 0.7431	0.7261	0.7358	Ave		0.7386				3.0		20.0			
Sulfotepp	0.1304 0.1175	0.1305 0.1178	0.1186 0.1231	0.1143	0.1153	Ave		0.1209				5.3		20.0			
1,3,5-Trinitrobenzene	+++++ 0.0465	+++++ 0.0601	0.0326 0.0675	0.0396	0.0450	Qua2	-0.0077	0.0372	0.0010417						0.9980		0.9900
cis-Diallate	0.2741 0.2786	0.2704 0.2844	0.3025 0.2970	0.2895	0.2829	Ave		0.2849				3.9		20.0			
Phorate	0.4316 0.4567	0.3800 0.4550	0.4380 0.4858	0.4521	0.4545	Ave		0.4442				6.9		20.0			
Phenacetin	+++++ 0.3611	0.2549 0.3559	0.3032 0.3807	0.3380	0.3575	Ave		0.3359				12.8		20.0			
4-Bromophenyl-phenylether	0.2365 0.2213	0.2079 0.2168	0.2176 0.2248	0.2272	0.2222	Ave		0.2218			0.1000	3.8		20.0			
trans-Diallate	0.4376 0.2889	0.3468 0.2773	0.3222 0.2955	0.3063	0.2827	Ave		0.3197				16.5		20.0			
Hexachlorobenzene	0.3065 0.2562	0.2690 0.2474	0.2658 0.2624	0.2619	0.2559	Ave		0.2657			0.1000	6.7		20.0			
Dimethoate	0.1631 0.2763	0.1686 0.2766	0.2163 0.2965	0.2537	0.2705	Lin1	-0.0266	0.2839							0.9980		0.9900
Atrazine	0.1886 0.2234	0.1705 0.2216	0.2258 0.2168	0.2207	0.2193	Ave		0.2108			0.0100	9.5		20.0			
Pentachlorophenol	+++++ 0.1106	0.0635 0.1278	0.0737 0.1339	0.0971	0.1123	Lin1	-0.1222	0.1285			0.0500				0.9940		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4-Aminobiphenyl	0.8104 0.8715	0.7831 0.8453	0.8634 0.8885	0.8689	0.8731	Ave		0.8505				4.2		20.0			
Pentachloronitrobenzene	0.0792 0.0942	0.0885 0.0985	0.0845 0.1058	0.0918	0.0938	Ave		0.0920				8.9		20.0			
Pronamide	0.3282 0.3480	0.3023 0.3462	0.3401 0.3652	0.3344	0.3399	Ave		0.3380				5.4		20.0			
Dinoseb	+++++ 0.0715	+++++ 0.0858	0.0598 0.0975	0.0638	0.0707	Ave		0.0748				19.0		20.0			
Disulfoton	0.8135 0.4506	0.5990 0.4435	0.4559 0.4645	0.4574	0.4475	Lin2	0.0449	0.4415							0.9990		0.9900
Phenanthrene	1.2537 1.0761	1.1635 1.0331	1.1264 1.0745	1.0972	1.0895	Ave		1.1143			0.7000	6.1		20.0			
Anthracene	1.0601 1.1285	1.0402 1.0664	1.0976 1.1244	1.1106	1.1157	Ave		1.0929			0.7000	3.0		20.0			
Carbazole	1.0092 1.0414	0.9624 0.9992	1.0190 1.0648	1.0491	1.0421	Ave		1.0234			0.0100	3.2		20.0			
Methyl parathion	+++++ 0.2086	0.1420 0.2205	0.1498 0.2397	0.1846	0.2025	Ave		0.1925				18.7		20.0			
Di-n-butyl phthalate	0.9902 1.1500	0.9846 1.1565	1.0049 1.2207	1.1109	1.1506	Ave		1.0961			0.0100	8.3		20.0			
Parathion	+++++ 0.1263	+++++ 0.1328	0.0867 0.1436	0.1161	0.1194	Ave		0.1208				16.1		20.0			
4-Nitroquinoline-1-oxide	+++++ 0.0879	+++++ 0.1048	0.0515 0.1169	0.0702	0.0830	Qua2	-0.031	0.0740	0.0014976						1.0000		0.9900
Octachlorostyrene	0.1058 0.1071	0.1148 0.1075	0.1032 0.1133	0.1148	0.1113	Ave		0.1097				4.0		20.0			
Isodrin	+++++ 0.1337	0.1581 0.1314	0.1397 0.1404	0.1380	0.1360	Ave		0.1396				6.3		20.0			
Fluoranthene	1.2390 1.2787	1.1781 1.2424	1.2325 1.2335	1.2666	1.2814	Ave		1.2440			0.6000	2.7		20.0			
Benzidine	0.6419 0.8536	0.6502 0.6713	0.7870 0.5790	0.8387	0.8469	Ave		0.7336				15.0		20.0			
Pyrene	1.3974 1.1780	1.2849 1.1654	1.1929 1.2272	1.1854	1.1743	Ave		1.2257			0.6000	6.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
p-Dimethylamino azobenzene	0.1756 0.2361	0.2026 0.2408	0.2031 0.2596	0.2220	0.2349	Ave		0.2218				12.1		20.0			
Chlorobenzilate	+++++ 0.3239	0.2400 0.3371	0.2804 0.3723	0.3024	0.3163	Ave		0.3103				13.6		20.0			
3,3'-Dimethylbenzidine	0.6209 0.8084	0.6401 0.7463	0.7219 0.8199	0.7507	0.7883	Ave		0.7371				10.0		20.0			
Butylbenzylphthalate	+++++ 0.4686	+++++ 0.4755	0.3446 0.5372	0.4228	0.4497	Ave		0.4497			0.0100	14.2		20.0			
2-Acetylaminofluorene	+++++ 0.4322	+++++ 0.4328	+++++ 0.5152	0.3287	0.3828	Ave		0.4183				16.5		20.0			
3,3'-Dichlorobenzidine	0.3791 0.5015	0.4062 0.4765	0.4289 0.5363	0.4668	0.4860	Ave		0.4602			0.0100	11.3		20.0			
4,4'-Methylene bis(2-chloroaniline)	0.1705 0.2684	0.1830 0.2520	0.2348 0.2832	0.2516	0.2534	Ave		0.2371				16.9		20.0			
Benzo[a]anthracene	1.0433 1.2623	1.1222 1.1987	1.1342 1.3323	1.2192	1.2290	Ave		1.1926			0.8000	7.6		20.0			
Chrysene	1.1125 1.1776	1.1635 1.1284	1.1221 1.2308	1.1653	1.1570	Ave		1.1571			0.7000	3.3		20.0			
Bis(2-ethylhexyl) phthalate	+++++ 0.7271	+++++ 0.7224	0.5242 0.8089	0.6327	0.7000	Ave		0.6859			0.0100	14.2		20.0			
6-Methylchrysene	0.7337 0.8591	0.8001 0.8275	0.8231 0.9463	0.8139	0.8235	Ave		0.8284				7.2		20.0			
Di-n-octyl phthalate	+++++ 1.0555	+++++ 1.2411	0.6770 1.2843	0.8915	1.0059	Lin2	-0.689	1.1825			0.0100				0.9900		0.9900
7,12-Dimethylbenz(a)anthracene	0.4744 0.5310	0.4694 0.5931	0.5039 0.6018	0.5331	0.5275	Ave		0.5293				9.2		20.0			
Benzo[b]fluoranthene	1.2269 1.2551	1.1454 1.3239	1.1440 1.3561	1.2465	1.2389	Ave		1.2421			0.7000	6.0		20.0			
Benzo[k]fluoranthene	1.2003 1.2265	1.1436 1.2959	1.2322 1.2997	1.2399	1.2321	Ave		1.2338			0.7000	4.1		20.0			
Benzo[a]pyrene	1.0578 1.1352	1.0514 1.1702	1.0187 1.2195	1.0702	1.1036	Ave		1.1033			0.7000	6.1		20.0			
3-Methylcholanthrene	0.4710 0.6009	0.5091 0.5926	0.5326 0.6546	0.5564	0.5626	Ave		0.5600				10.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD /RSE	#	MAX %RSD /RSE	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dibenz[a,h]acridine	0.7302 0.9444	0.7448 0.8635	0.8136 0.9676	0.8472	0.8717	Ave		0.8479				10.0		20.0			
Dibenz[a,j]acridine	0.6794 1.0082	0.7550 0.8845	0.8062 1.0063	0.8758	0.9203	Ave		0.8670				13.4		20.0			
Indeno[1,2,3-cd]pyrene	0.9107 1.1403	0.8685 1.0207	0.9517 1.1397	0.9977	1.0569	Ave		1.0108			0.5000	9.9		20.0			
Dibenz(a,h)anthracene	0.8499 1.1456	0.9373 1.0008	1.0073 1.1444	1.0244	1.0431	Ave		1.0191			0.4000	9.7		20.0			
Benzo[g,h,i]perylene	0.9639 1.1176	0.9874 0.9588	1.0097 1.0671	0.9845	1.0235	Ave		1.0141			0.5000	5.4		20.0			
2-Fluorophenol (Surr)	1.1838 1.2166	1.1434 1.2210	1.0670 1.3609	1.1764	1.1751	Ave		1.1930				7.0		20.0			
Phenol-d5 (Surr)	1.4724 1.7278	1.5338 1.7321	1.5574 1.9124	1.6756	1.6681	Ave		1.6600				8.4		20.0			
Nitrobenzene-d5 (Surr)	0.3396 0.3650	0.3494 0.3514	0.3462 0.3905	0.3552	0.3555	Ave		0.3566				4.4		20.0			
2-Fluorobiphenyl (Surr)	1.4237 1.3068	1.4315 1.2829	1.3275 1.3315	1.3492	1.3430	Ave		1.3495				3.9		20.0			
2,4,6-Tribromophenol (Surr)	+++++ 0.2039	+++++ 0.2297	0.1664 0.2456	0.1950	0.2169	Ave		0.2096				13.3		20.0			
p-Terphenyl-d14 (Surr)	0.8485 0.8192	0.8193 0.8021	0.8251 0.7201	0.8409	0.8217	Ave		0.8121				4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type. RSD is calculated for Ave curve types. RSE is used for all other types.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-661633/9	HF2358.D
Level 2	IC 410-661633/8	HF2357.D
Level 3	IC 410-661633/7	HF2356.D
Level 4	IC 410-661633/6	HF2355.D
Level 5	IC 410-661633/5	HF2354.D
Level 6	ICIS 410-661633/2	HF2351.D
Level 7	IC 410-661633/4	HF2353.D
Level 8	IC 410-661633/3	HF2352.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DCBd4	Ave	+++++ 224670	+++++ 392482	23990 585916	77256	147229	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
N-Nitrosodimethylamine	DCBd4	Ave	4908 409466	7710 695394	38981 1070312	124190	251527	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pyridine	DCBd4	Ave	15509 1299843	25151 2223563	118449 3397127	402439	805737	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
N,N-dimethylformamide	DCBd4	Ave	+++++ 478559	+++++ 802414	35285 1265602	133612	279222	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Picoline	DCBd4	Ave	7056 692788	11813 1194858	66815 1795575	210556	422646	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomethylethylamine	DCBd4	Ave	+++++ 292209	+++++ 509970	32332 772786	94202	184807	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Methyl methanesulfonate	DCBd4	Ave	3919 391933	7333 656620	35673 990977	120800	236155	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodiethylamine	DCBd4	Ave	3414 301938	5101 530330	30128 803136	91571	188735	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Ethyl methanesulfonate	DCBd4	Ave	3555 336415	7318 589104	32794 869789	106357	207923	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzaldehyde	DCBd4	Ave	6667 561614	12379 974168	56294 1344617	173112	342544	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenol	DCBd4	Ave	8616 832667	13838 1438294	72766 2149365	247807	508564	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Aniline	DCBd4	Ave	10380 1026383	19944 1751137	85040 2648623	313471	628960	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethyl)ether	DCBd4	Ave	7733 655219	13169 1103940	56628 1629578	198494	394176	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chlorophenol	DCBd4	Ave	6294 590738	11032 1043221	50103 1562923	183434	375886	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dichlorobenzene	DCBd4	Ave	6926	13593	62859	210622	423624	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			657084	1141375	1696809			12.5	20.0	30.0		
1,4-Dichlorobenzene	DCBd4	Ave	8057 668080	13527 1168044	66708 1754587	212833	427656	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzyl alcohol	DCBd4	Ave	4733 435631	8421 760231	36915 1132297	134819	264613	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,2-Dichlorobenzene	DCBd4	Ave	7483 642868	12078 1136695	60707 1685219	207505	417506	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylphenol	DCBd4	Ave	6255 604340	10627 1052687	52206 1551860	175562	362605	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,2'-oxybis[1-chloropropane]	DCBd4	Ave	12759 1034695	22566 1801049	99143 2650199	323837	632593	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopyrrolidine	DCBd4	Ave	3435 376952	6279 661589	37002 958215	118219	227032	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3,4-Methylphenol	DCBd4	Ave	5411 646660	11203 1115254	53403 1642534	189955	387743	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-propylamine	DCBd4	Ave	6098 556652	11620 938346	50842 1356722	169083	339313	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acetophenone	DCBd4	Ave	10729 986623	19585 1672757	87760 2423879	314042	609866	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosomorpholine	DCBd4	Ave	6559 502386	10958 841595	49220 1213497	158493	302530	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o-Toluidine	DCBd4	Ave	11845 1050929	18990 1808923	99781 2616983	337460	654113	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloroethane	DCBd4	Ave	3774 255580	6349 452351	25121 665470	81621	161132	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Nitrobenzene	NPT	Ave	7903 716549	16300 1239161	64046 1838333	225354	451687	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosopiperidine	NPT	Ave	4135 349894	6979 631315	33864 899742	112036	214813	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isophorone	NPT	Ave	15283 1453498	26565 2544924	129640 3653529	449152	880064	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitrophenol	NPT	Ave	+++++ 225994	3808 462229	17361 660786	68424	150498	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dimethylphenol	NPT	Ave	6847 698407	11809 1206246	56474 1815764	212861	428421	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
o,o',o''-Triethylphosphorothioate	NPT	Ave	3809 362735	7166 668111	36809 952453	121909	234625	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-chloroethoxy)methane	NPT	Ave	9692 866211	17171 1522951	85229 2205378	281336	522874	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dichlorophenol	NPT	Ave	3917	8131	44339	164054	335968	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			549087	990150	1472716			12.5	20.0	30.0		
1,2,4-Trichlorobenzene	NPT	Ave	7064 633449	12288 1099603	60352 1618990	201833	399893	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Naphthalene	NPT	Ave	19909 1948145	39958 3395370	186396 4861596	614573	1218099	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
a-Terpineol	NPT	Ave	6707 631138	11249 1112649	57392 1602566	197265	386943	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloroaniline	NPT	Ave	8379 896795	15400 1533475	80246 2247231	275803	540926	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,6-Dichlorophenol	NPT	Ave	4584 529870	7813 963749	44194 1395533	165151	335144	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachloropropene	NPT	Ave	3822 407833	6292 743527	39366 1063428	130021	255609	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorobutadiene	NPT	Ave	4006 375663	7019 673159	35494 961330	120883	238745	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Quinoline	NPT	Ave	15644 1422426	31256 2465943	134753 3614028	452068	875482	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Caprolactam	NPT	Ave	1982 228485	3471 411112	20661 568789	68236	136408	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
N-Nitrosodi-n-butylamine	NPT	Ave	5491 562351	11193 1215352	54877 1696110	178123	331513	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-phenylenediamine	NPT	Ave	7072 874715	13705 1467877	77645 2109823	269610	523144	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chloro-3-methylphenol	NPT	Ave	4772 622132	10756 1106513	52021 1630039	190905	380666	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Safrole, Total	NPT	Ave	6114 578850	9486 1003445	54434 1425241	179715	346128	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Methylnaphthalene	NPT	Ave	13258 1273933	25561 2186741	119528 3177909	408430	784363	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Methylnaphthalene	NPT	Ave	13713 1319471	25427 2329833	125665 3338709	421133	822671	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Hexachlorocyclopentadiene	ANT	Ave	+++++ 469187	+++++ 844318	39964 1237226	139086	292351	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
1,2,4,5-Tetrachlorobenzene	ANT	Ave	7866 717240	14632 1280981	69636 1815482	230832	441121	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isosafrole Peak 1	ANT	Ave	1418 104950	2211 181022	11288 260605	32287	64395	0.0200 2.00	0.0400 3.20	0.200 4.80	0.600	1.20
2,4,6-Trichlorophenol	ANT	Ave	+++++ 385087	5825 751662	28806 1072342	114383	236466	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4,5-Trichlorophenol	ANT	Ave	+++++	7115	39668	153784	318375	+++++	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			518444	914896	1349995			12.5	20.0	30.0		
Isosafrole Peak 2	ANT	Ave	5585 598894	11076 1066006	57875 1510318	193791	359004	0.105 10.5	0.210 16.8	1.05 25.2	3.15	6.30
1,1'-Biphenyl	ANT	Ave	19294 1791345	34963 3122707	177295 4421399	589326	1111156	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Chloronaphthalene	ANT	Ave	16712 1448323	31531 2459968	146920 3298025	483958	912754	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Chloronaphthalene	ANT	Ave	13617 1310190	24682 2329416	128709 3447951	417582	790991	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diphenyl ether	ANT	Ave	11547 1007212	21021 1772151	99506 2538626	321227	639468	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Nitroaniline	ANT	Ave	3070 426006	7148 776980	35744 1132648	130228	265671	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Naphthoquinone	ANT	Ave	5359 593362	9449 1073389	57979 1478233	192113	367944	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,4-Dinitrobenzene	ANT	Ave	+++++ 166884	2804 337681	13395 498163	50422	107290	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethyl phthalate	ANT	Ave	17710 1697895	33060 3014388	165079 4243705	559154	1062402	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3-Dinitrobenzene	ANT	Ave	+++++ 218879	+++++ 416969	17155 615805	64139	134939	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2,6-Dinitrotoluene	ANT	Ave	2876 340453	6155 635232	27811 919160	106778	210968	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthylene	ANT	Ave	22142 2325270	43137 3985042	213913 5808201	726192	1418234	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Nitroaniline	ANT	Ave	2994 398573	6312 735296	33227 1086550	120336	247032	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Acenaphthene	ANT	Ave	17145 1472870	31410 2613160	146625 3725382	478726	913101	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrophenol	ANT	Ave	+++++ 144340	+++++ 297535	24236 436921	65276	109528	+++++ 25.0	+++++ 40.0	5.00 60.0	11.3	17.5
4-Nitrophenol	ANT	Ave	+++++ 400413	+++++ 759402	+++++ 1121903	114937	244507	+++++ 25.0	+++++ 40.0	+++++ 60.0	7.50	15.0
Pentachlorobenzene	ANT	Ave	7538 686760	13835 1209064	70327 1732323	224299	434737	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2,4-Dinitrotoluene	ANT	Ave	3790 456778	7146 875217	36626 1284173	139037	281337	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenzofuran	ANT	Ave	23498 2094718	42755 3643672	209443 5188788	692757	1304151	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1-Naphthylamine	ANT	Ave	13524	27214	149238	502846	960212	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			1574566	2741400	3887578			12.5	20.0	30.0		
2,3,4,6-Tetrachlorophenol	ANT	Ave	+++++ 402486	+++++ 797506	31687 1144363	122766	269144	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Naphthylamine	ANT	Ave	16146 1668969	31259 2886299	159812 4200452	534724	1025961	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Diethyl phthalate	ANT	Ave	17265 1745279	32395 3115333	161383 4371310	566882	1074139	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Thionazin	ANT	Ave	2806 263719	4973 483536	24918 693102	84409	168070	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluorene	ANT	Ave	17522 1754331	35097 3037091	176425 4318770	578757	1110936	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Chlorophenyl-phenyl ether	ANT	Ave	9296 838513	17916 1445403	87800 2081156	283039	530439	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
5-Nitro-o-toluidine	ANT	Ave	4571 464426	6551 829827	38911 1184422	140725	289068	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Nitroaniline	ANT	Ave	3725 449135	6365 788876	38056 1151599	138980	283990	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,6-Dinitro-2-methylphenol	PHN	Qua2	+++++ 232240	+++++ 511431	26709 765601	66823	150496	+++++ 25.0	+++++ 40.0	3.75 60.0	7.50	15.0
N-Nitrosodiphenylamine	PHN	Ave	11839 1285690	24179 2257087	123647 3203113	413391	783377	0.106 10.6	0.213 17.0	1.06 25.5	3.19	6.38
1,2-Diphenylhydrazine	PHN	Ave	18731 1842616	38157 3163930	179406 4505310	584821	1130990	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Sulfotepp	PHN	Ave	3294 292893	6334 527070	29157 746466	92058	177206	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
1,3,5-Trinitrobenzene	PHN	Qua2	+++++ 115861	+++++ 269120	8014 409513	31903	69186	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
cis-Diallate	PHN	Ave	5122 514016	9714 941880	55040 1332648	172570	321735	0.0925 9.25	0.185 14.8	0.925 22.2	2.78	5.55
Phorate	PHN	Ave	10900 1138747	18448 2036176	107716 2945592	364156	698544	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenacetin	PHN	Ave	+++++ 900170	12372 1592442	74547 2307996	272224	549474	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4-Bromophenyl-phenylether	PHN	Ave	5972 551732	10090 970159	53513 1363229	183003	341570	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
trans-Diallate	PHN	Ave	2873 187263	4377 322605	20597 465873	64144	112967	0.0325 3.25	0.0650 5.20	0.325 7.80	0.975	1.95
Hexachlorobenzene	PHN	Ave	7741 638765	13060 1107011	65368 1590919	210931	393401	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dimethoate	PHN	Lin1	4120	8185	53191	204373	415753	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			688898	1237601	1797572			12.5	20.0	30.0		
Atrazine	PHN	Ave	4763 556935	8277 991784	55529 1314378	177754	337134	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachlorophenol	PHN	Lin1	+++++ 551670	15401 1143639	36232 1623468	156405	345332	+++++ 25.0	1.25 40.0	2.50 60.0	7.50	15.0
4-Aminobiphenyl	PHN	Ave	20467 2172821	38013 3782420	212318 5387267	699847	1341972	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pentachloronitrobenzene	PHN	Ave	2001 234973	4294 440676	20783 641763	73949	144170	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Pronamide	PHN	Ave	8289 867550	14673 1548970	83624 2213986	269348	522383	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dinoseb	PHN	Ave	+++++ 178285	+++++ 383911	14697 590885	51419	108701	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Disulfoton	PHN	Lin2	20545 1123463	29074 1984746	112102 2816559	368374	687870	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Phenanthrene	PHN	Ave	31660 2682844	56477 4623079	276989 6514945	883775	1674561	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Anthracene	PHN	Ave	26773 2813488	50495 4771801	269901 6817317	894538	1714886	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Carbazole	PHN	Ave	25487 2596397	46717 4471386	250578 6455626	845002	1601786	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Methyl parathion	PHN	Ave	+++++ 520091	6894 986630	36838 1453069	148653	311287	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-butyl phthalate	PHN	Ave	25006 2867062	47795 5175034	247096 7401419	894790	1768576	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Parathion	PHN	Ave	+++++ 314898	+++++ 594263	21317 870769	93499	183471	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
4-Nitroquinoline-1-oxide	PHN	Qua2	+++++ 219177	+++++ 469073	12674 708886	56561	127576	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
Octachlorostyrene	PHN	Ave	2673 266923	5572 481176	25385 686950	92489	171121	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Isodrin	PHN	Ave	+++++ 333377	7672 587828	34341 850969	111159	208964	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Fluoranthene	PHN	Ave	31289 3188059	57188 5559488	303081 7478603	1020166	1969616	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzidine	PYR10	Ave	52739 7265988	102470 9804349	657011 11381467	2312455	4510814	0.375 37.5	0.750 60.0	3.75 90.0	11.3	22.5
Pyrene	PYR10	Ave	38270 3342474	67503 5674130	331985 8041097	1089534	2084806	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
p-Dimethylamino azobenzene	PYR10	Ave	4810	10641	56511	203995	417126	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1 | Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 | GC Column: DB-5MS 30m ID: 0.25(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 | Calibration End Date: 06/23/2025 23:36 | Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			669921	1172337	1701131			12.5	20.0	30.0		
Chlorobenzilate	PYR10	Ave	+++++ 918984	12609 1641242	78034 2439510	277948	561543	+++++ 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3,3'-Dimethylbenzidine	PYR10	Ave	17005 2293701	33626 3633701	200885 5372061	689938	1399618	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Butylbenzylphthalate	PYR10	Ave	+++++ 1329617	+++++ 2315251	95886 3520276	388565	798424	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
2-Acetylaminofluorene	PYR10	Ave	+++++ 1226184	+++++ 2106943	+++++ 3375715	302071	679681	+++++ 12.5	+++++ 20.0	+++++ 30.0	3.75	7.50
3,3'-Dichlorobenzidine	PYR10	Ave	10383 1422829	21338 2320135	119362 3514329	429071	862819	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
4,4'-Methylene bis(2-chloroaniline)	PYR10	Ave	4669 761593	9614 1226696	65333 1855930	231227	449969	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]anthracene	PYR10	Ave	28573 3581461	58953 5836163	315632 8729785	1120512	2182025	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Chrysene	PYR10	Ave	30468 3341224	61122 5493958	312275 8064605	1071039	2054199	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Bis(2-ethylhexyl) phthalate	PYR10	Ave	+++++ 2062947	+++++ 3517082	145878 5300608	581497	1242798	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
6-Methylchrysene	PYR10	Ave	20094 2437491	42033 4028847	229057 6200422	748017	1462108	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Di-n-octyl phthalate	PRY	Lin2	+++++ 3195122	+++++ 5383732	185781 8685140	806115	1822785	+++++ 12.5	+++++ 20.0	1.25 30.0	3.75	7.50
7,12-Dimethylbenz(a)anthracene	PRY	Ave	11397 1607346	24537 2572947	138271 4069692	482049	955774	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[b]fluoranthene	PRY	Ave	29474 3799309	59875 5743222	313930 9171292	1127125	2244855	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[k]fluoranthene	PRY	Ave	28834 3712626	59786 5621656	338140 8789934	1121086	2232686	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Benzo[a]pyrene	PRY	Ave	25410 3436398	54966 5076256	279528 8247439	967715	1999673	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
3-Methylcholanthrene	PRY	Ave	11314 1819024	26613 2570719	146138 4426700	503109	1019493	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,h]acridine	PRY	Ave	17542 2858868	38937 3745824	223267 6543528	766039	1579617	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz[a,j]acridine	PRY	Ave	16321 3051848	39468 3836887	221227 6805651	791875	1667599	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Indeno[1,2,3-cd]pyrene	PRY	Ave	21877 3451766	45404 4427721	261157 7707740	902084	1915191	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
Dibenz(a,h)anthracene	PRY	Ave	20417	48997	276407	926278	1890072	0.125	0.250	1.25	3.75	7.50

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
			3467732	4341484	7739504			12.5	20.0	30.0		
Benzo[g,h,i]perylene	PRY	Ave	23155 3383137	51619 4159295	277059 7216315	890156	1854676	0.125 12.5	0.250 20.0	1.25 30.0	3.75	7.50
2-Fluorophenol (Surr)	DCBd4	Ave	11557 1103825	20404 1943987	91242 2943930	331662	686589	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Phenol-d5 (Surr)	DCBd4	Ave	14374 1567679	27372 2757645	133182 4136895	472407	974678	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
Nitrobenzene-d5 (Surr)	NPT	Ave	13402 1406718	25284 2432038	124299 3618786	428433	864901	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2-Fluorobiphenyl (Surr)	ANT	Ave	35792 3269314	67710 5668160	315621 7873521	1082654	2034970	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0
2,4,6-Tribromophenol (Surr)	ANT	Ave	+++++ 510029	+++++ 1015048	39563 1452291	156472	328674	+++++ 25.0	+++++ 40.0	2.50 60.0	7.50	15.0
p-Terphenyl-d14 (Surr)	PYR10	Ave	46477 4648711	86085 7810155	459253 9437375	1545822	2917832	0.250 25.0	0.500 40.0	2.50 60.0	7.50	15.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1 Analy Batch No.: 661633

SDG No.:

Instrument ID: HP18831 GC Column: DB-5MS 30m ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/23/2025 20:42 Calibration End Date: 06/23/2025 23:36 Calibration ID: 74017

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-661633/9	HF2358.D
Level 2	IC 410-661633/8	HF2357.D
Level 3	IC 410-661633/7	HF2356.D
Level 4	IC 410-661633/6	HF2355.D
Level 5	IC 410-661633/5	HF2354.D
Level 6	ICIS 410-661633/2	HF2351.D
Level 7	IC 410-661633/4	HF2353.D
Level 8	IC 410-661633/3	HF2352.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
4,6-Dinitro-2-methylphenol	+++++ 1.7	+++++ 0.1	-0.4	-0.3	5.2	-6.4	30	30	50	30	30	30
1,3,5-Trinitrobenzene	+++++ 3.1	+++++ -0.6	-0.3	1.0	1.9	-5.0	30	30	50	30	30	30
Dimethoate	31.2 -2.1	-3.7 4.7	-16.4	-8.2	-3.5	-2.0	50 30	30 30	30	30	30	30
Pentachlorophenol	+++++ 1.8	25.4 5.7	-4.7	-11.8	-6.3	-10.1	30	50 30	30	30	30	30
Disulfoton	2.9 -0.1	-5.0 4.9	-4.9	0.9	0.0	1.2	50 30	30 30	30	30	30	30
4-Nitroquinoline-1-oxide	+++++ 1.8	+++++ -0.6	0.3	-1.4	1.9	-2.1	30	30	50	30	30	30
Di-n-octyl phthalate	+++++ 7.9	+++++ 10.5	3.9	-9.1	-7.2	-6.1	30	30	50	30	30	30

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D
Lims ID: ICIS L6
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 23-Jun-2025 20:42:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS L6
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:01 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: N5QU Date: 23-Jun-2025 21:18:05

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.157	0.000	98	224670	12.5	11.8	
	2 N-Nitrosodimethylamine	74	2.334	2.334	0.000	91	409466	12.5	12.4	
	3 Pyridine	79	2.375	2.375	0.000	90	1299843	25.0	24.7	
	4 Dimethylformamide	73	2.604	2.604	0.000	97	478559	12.5	13.3	
	5 2-Picoline	93	2.887	2.887	0.000	95	692788	12.5	12.8	
	6 N-Nitrosomethylethylamine	88	2.951	2.951	0.000	96	292209	12.5	11.9	
	9 Methyl methanesulfonate	80	3.187	3.187	0.000	87	391933	12.5	12.8	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	95	1103825	25.0	25.5	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	92	301938	12.5	12.5	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	336415	12.5	12.2	
	15 Benzaldehyde	77	4.110	4.110	0.000	95	561614	12.5	12.2	
$	16 Phenol-d5	99	4.146	4.146	0.000	98	1567679	25.0	26.0	
	17 Phenol	94	4.157	4.157	0.000	99	832667	12.5	13.0	
	18 Aniline	93	4.204	4.204	0.000	97	1026383	12.5	12.8	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	92	655219	12.5	12.6	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	590738	12.5	12.6	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	657084	12.5	12.3	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	181463	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	94	668080	12.5	12.0	
	26 Benzyl alcohol	108	4.645	4.645	0.000	92	435631	12.5	12.6	
	27 1,2-Dichlorobenzene	146	4.687	4.687	0.000	96	642868	12.5	12.2	
	30 2-Methylphenol	108	4.745	4.745	0.000	97	604340	12.5	13.0	
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1034695	12.5	12.1	
	33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	376952	12.5	12.9	
	36 4-Methylphenol	108	4.893	4.893	0.000	95	646660	12.5	13.4	
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	76	556652	12.5	12.6	
	34 Acetophenone	105	4.910	4.910	0.000	92	986623	12.5	12.6	
	37 N-Nitrosomorpholine	56	4.922	4.922	0.000	90	502386	12.5	12.1	
	38 2-Toluidine	106	4.940	4.940	0.000	96	1050929	12.5	12.5	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	255580	12.5	11.4	
$	41 Nitrobenzene-d5	82	5.057	5.057	0.000	90	1406718	25.0	25.6	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	42 Nitrobenzene	77	5.075	5.075	0.000	90	716549	12.5	12.1	
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	349894	12.5	12.0	
	45 Isophorone	82	5.310	5.310	0.000	99	1453498	12.5	12.6	
	46 2-Nitrophenol	139	5.393	5.393	0.000	96	225994	12.5	12.3	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	698407	12.5	13.0	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	84	362735	12.5	11.9	
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	99	866211	12.5	12.1	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	94	549087	12.5	13.5	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	633449	12.5	12.2	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	770741	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	1948145	12.5	12.3	
	29 Alpha-Terpineol	59	5.804	5.804	0.000	94	631138	12.5	12.5	
	57 4-Chloroaniline	127	5.845	5.845	0.000	96	896795	12.5	13.0	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	529870	12.5	13.1	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	407833	12.5	12.7	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	375663	12.5	12.3	
	62 Quinoline	129	6.122	6.122	0.000	96	1422426	12.5	12.1	
	63 Caprolactam	113	6.163	6.163	0.000	77	228485	12.5	13.2	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.187	0.000	94	562351	12.5	11.8	
	39 p-Phenylene diamine	108	6.192	6.192	0.000	95	874715	12.5	13.4	
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	622132	12.5	13.2	
	67 Safrole, Total	162	6.398	6.398	0.000	92	578850	12.5	12.8	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1273933	12.5	12.4	
	69 1-Methylnaphthalene	142	6.587	6.587	0.000	93	1319471	12.5	12.3	
	71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	95	469187	12.5	12.5	
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	717240	12.5	12.1	
	73 Isosafrole Peak 1	162	6.692	6.692	0.000	92	104950	2.00	1.86	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	74	385087	12.5	12.8	
	75 2,4,5-Trichlorophenol	196	6.792	6.792	0.000	95	518444	12.5	13.3	
$	76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	3269314	25.0	24.2	
	77 Isosafrole Peak 2	162	6.916	6.916	0.000	95	598894	10.5	10.5	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	1791345	12.5	12.2	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1448323	12.5	11.9	
	80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	1310190	12.5	12.2	
	81 Phenyl ether	170	7.057	7.057	0.000	90	1007212	12.5	11.9	
	82 2-Nitroaniline	138	7.063	7.063	0.000	80	426006	12.5	13.1	
	84 1,4-Naphthoquinone	158	7.139	7.139	0.000	89	593362	12.5	12.7	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	92	166884	12.5	12.2	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	1697895	12.5	12.2	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	85	218879	12.5	12.4	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	340453	12.5	12.7	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2325270	12.5	12.7	
	90 3-Nitroaniline	138	7.469	7.469	0.000	94	398573	12.5	13.1	
*	91 Acenaphthene-d10	164	7.522	7.522	0.000	94	500342	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1472870	12.5	11.8	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	83	144340	25.0	23.6	
	95 4-Nitrophenol	109	7.622	7.622	0.000	96	400413	25.0	24.2	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	686760	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.704	0.000	94	456778	12.5	12.9	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2094718	12.5	12.0	
	99 1-Naphthylamine	143	7.798	7.798	0.000	99	1574566	12.5	12.8	
	101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	402486	12.5	12.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.875	7.875	0.000	97	1668969	12.5	12.5	
104 Diethyl phthalate	149	7.951	7.951	0.000	98	1745279	12.5	12.4	
106 Thionazin	107	8.028	8.028	0.000	80	263719	12.5	12.1	a
105 Fluorene	166	8.063	8.063	0.000	94	1754331	12.5	12.2	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	70	464426	12.5	13.0	
109 4-Nitroaniline	138	8.069	8.069	0.000	82	449135	12.5	13.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	91	838513	12.5	11.8	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	84	232240	25.0	23.4	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	83	1285690	10.6	10.8	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	1842616	12.5	12.5	
$ 113 2,4,6-Tribromophenol	330	8.298	8.298	0.000	95	510029	25.0	24.3	
114 Sulfotepp	97	8.339	8.339	0.000	81	292893	12.5	12.1	a
172 1,3,5-Trinitrobenzene	213	8.422	8.422	0.000	84	115861	12.5	11.9	
115 cis-Diallate	86	8.463	8.463	0.000	80	514016	9.25	9.04	a
117 Phenacetin	108	8.475	8.475	0.000	82	900170	12.5	13.4	
116 Phorate	75	8.475	8.475	0.000	94	1138747	12.5	12.9	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	551732	12.5	12.5	
119 trans-Diallate	86	8.551	8.551	0.000	88	187263	3.25	2.94	a
120 Hexachlorobenzene	284	8.604	8.604	0.000	96	638765	12.5	12.1	
121 Dimethoate	87	8.633	8.633	0.000	96	688898	12.5	12.3	a
122 Atrazine	200	8.704	8.704	0.000	93	556935	12.5	13.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	551670	25.0	22.5	
125 4-Aminobiphenyl	169	8.798	8.798	0.000	91	2172821	12.5	12.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	234973	12.5	12.8	
126 Pronamide	173	8.857	8.857	0.000	91	867550	12.5	12.9	
128 Dinoseb	211	8.975	8.975	0.000	97	178285	12.5	11.9	
* 127 Phenanthrene-d10	188	8.986	8.986	0.000	97	997272	5.00	5.00	
70 Disulfoton	88	8.992	8.992	0.000	97	1123463	12.5	12.7	a
129 Phenanthrene	178	9.010	9.010	0.000	96	2682844	12.5	12.1	
S 56 Dinitrotoluene	165				0		25.0	25.7	
130 Anthracene	178	9.057	9.057	0.000	97	2813488	12.5	12.9	
131 Carbazole	167	9.210	9.210	0.000	96	2596397	12.5	12.7	
132 Methyl parathion	109	9.351	9.351	0.000	95	520091	12.5	13.5	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	2867062	12.5	13.1	
S 65 Diallate	86				0		12.5	12.0	
134 Ethyl Parathion	109	9.739	9.739	0.000	85	314898	12.5	13.1	a
135 4-Nitroquinoline-1-oxide	190	9.763	9.763	0.000	91	219177	12.5	12.2	
136 Octachlorostyrene	308	9.992	9.992	0.000	92	266923	12.5	12.2	
137 Isodrin	193	10.033	10.033	0.000	94	333377	12.5	12.0	
138 Fluoranthene	202	10.180	10.180	0.000	97	3188059	12.5	12.8	
139 Benzidine	184	10.310	10.310	0.000	99	7265988	37.5	43.6	
* 140 Pyrene-d10 (IS)	212	10.392	10.392	0.000	98	1134927	5.00	5.00	
141 Pyrene	202	10.410	10.410	0.000	98	3342474	12.5	12.0	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	99	4648711	25.0	25.2	
143 p-Dimethylamino azobenzene	225	10.727	10.727	0.000	95	669921	12.5	13.3	
144 Chlorobenzilate	139	10.780	10.780	0.000	90	918984	12.5	13.0	
145 3,3'-Dimethylbenzidine	212	11.110	11.110	0.000	99	2293701	12.5	13.7	
146 Butyl benzyl phthalate	149	11.133	11.133	0.000	98	1329617	12.5	13.0	
147 2-Acetylaminofluorene	181	11.410	11.410	0.000	95	1226184	12.5	12.9	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	75	1422829	12.5	13.6	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	761593	12.5	14.2	
148 Benzo[a]anthracene	228	11.816	11.816	0.000	98	3581461	12.5	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.863	11.863	0.000	96	3341224	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.880	11.880	0.000	98	2062947	12.5	13.3	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	2437491	12.5	13.0	a
154 Di-n-octyl phthalate	149	12.810	12.810	0.000	99	3195122	12.5	11.7	
156 7,12-Dimethylbenz(a)anthracene	256	13.321	13.321	0.000	88	1607346	12.5	12.5	
155 Benzo[b]fluoranthene	252	13.321	13.321	0.000	97	3799309	12.5	12.6	
157 Benzo[k]fluoranthene	252	13.368	13.368	0.000	98	3712626	12.5	12.4	
158 Benzo[a]pyrene	252	13.798	13.798	0.000	76	3436398	12.5	12.9	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1210811	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.333	0.000	91	1819024	12.5	13.4	a
161 Dibenz[a,h]acridine	279	15.233	15.233	0.000	90	2858868	12.5	13.9	
162 Dibenz[a,j]acridine	279	15.321	15.321	0.000	96	3051848	12.5	14.5	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.639	0.000	98	3451766	12.5	14.1	M
164 Dibenz(a,h)anthracene	278	15.692	15.692	0.000	91	3467732	12.5	14.1	
165 Benzo[g,h,i]perylene	276	16.145	16.145	0.000	98	3383137	12.5	13.8	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

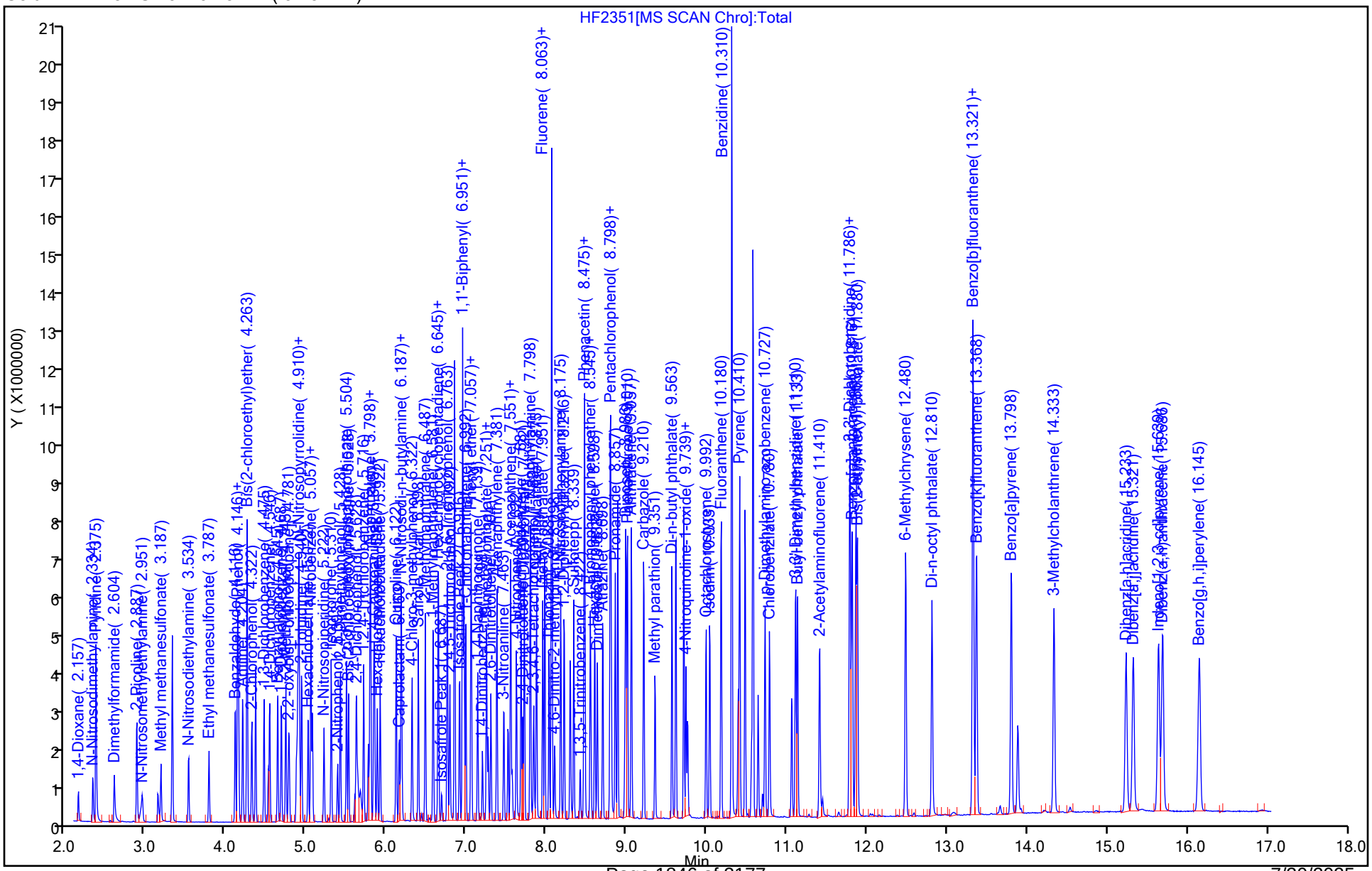
Report Date: 24-Jun-2025 10:06:02 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D

Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	ICIS L6			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

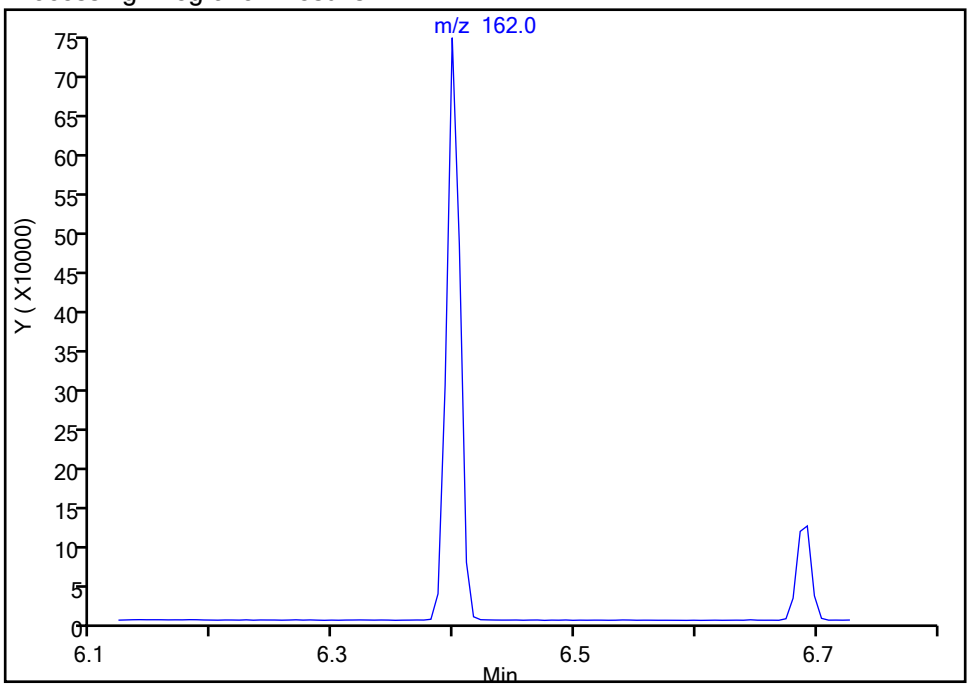
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

67 Safrole, Total, CAS: 94-59-7

Signal: 1

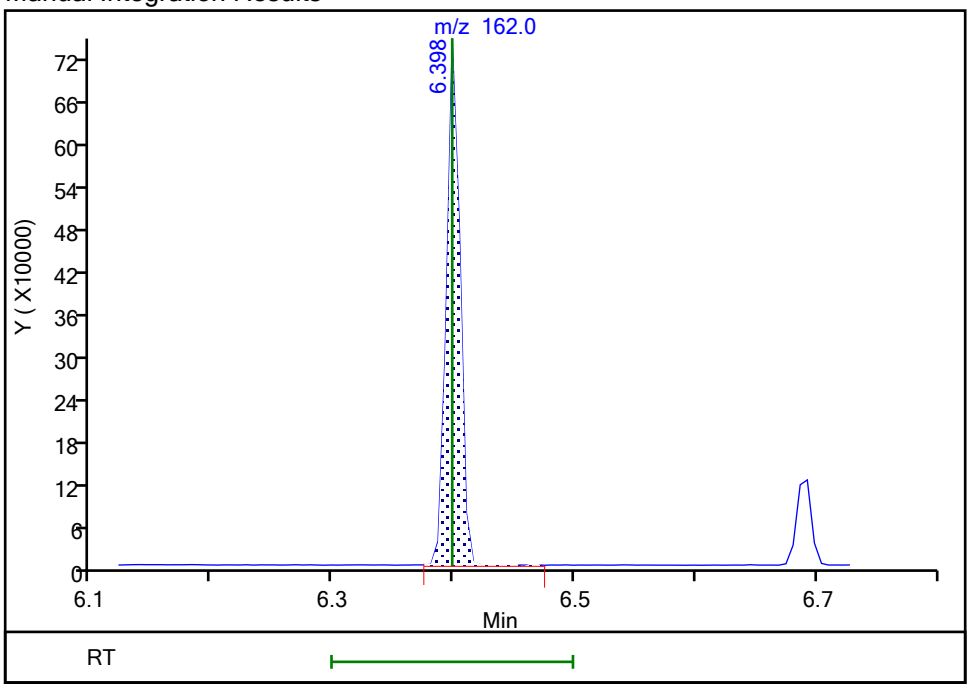
Not Detected
Expected RT: 6.40

Processing Integration Results



Manual Integration Results

RT: 6.40
Area: 578850
Amount: 12.752445
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:27:15 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

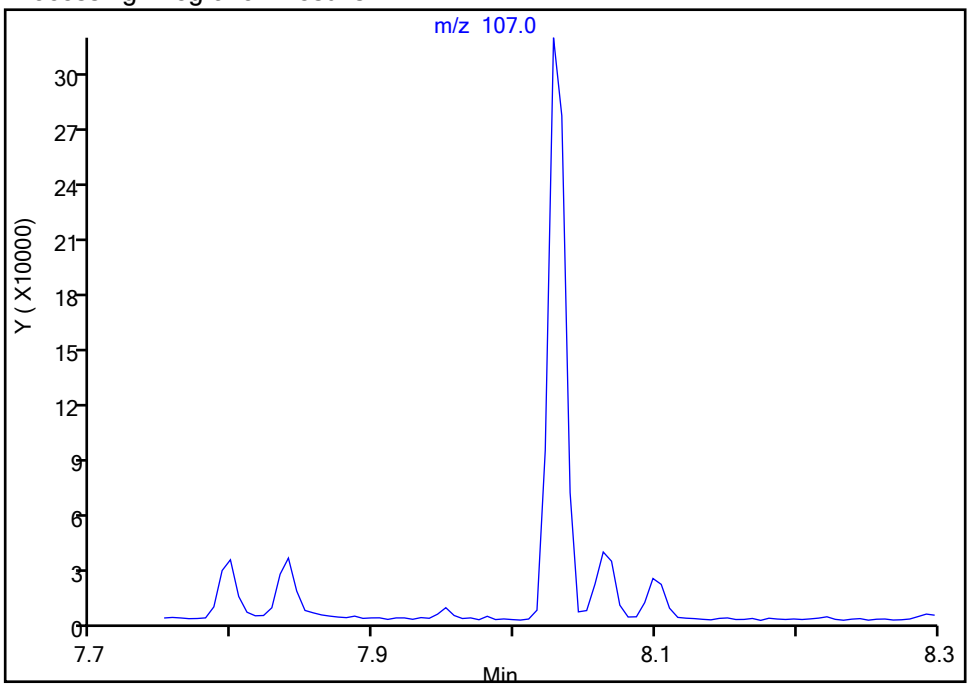
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

106 Thionazin, CAS: 297-97-2

Signal: 1

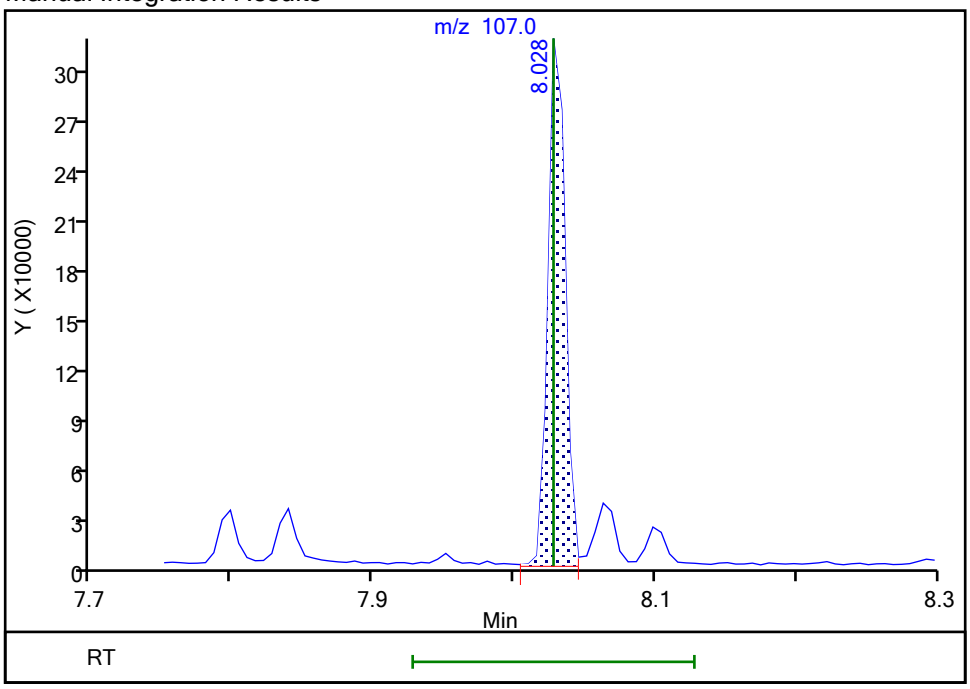
Not Detected
Expected RT: 8.03

Processing Integration Results



Manual Integration Results

RT: 8.03
Area: 263719
Amount: 12.120384
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:31 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

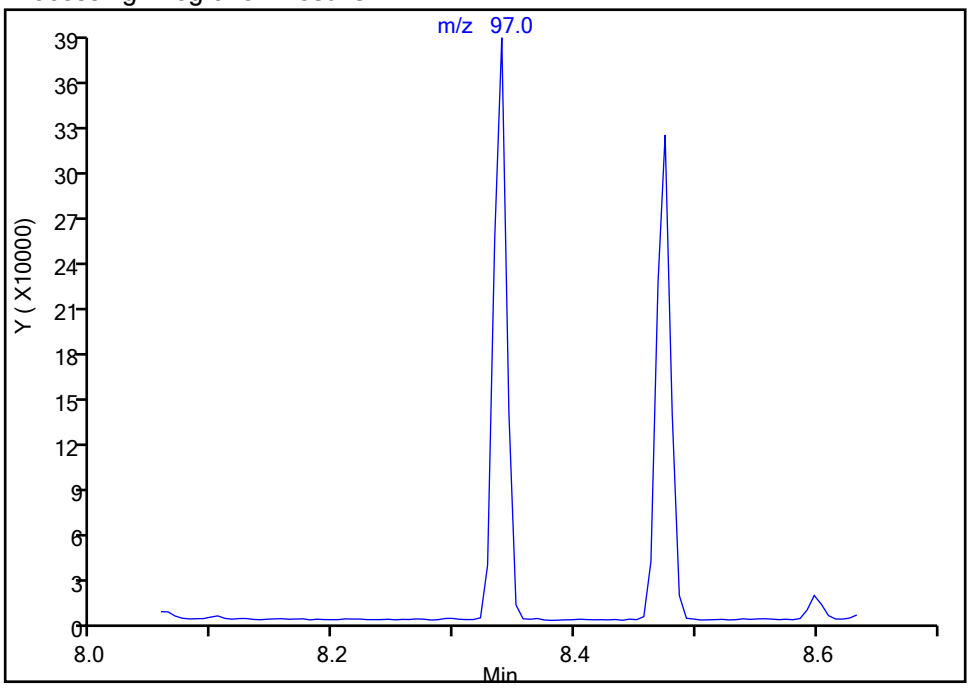
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

114 Sulfotepp, CAS: 3689-24-5

Signal: 1

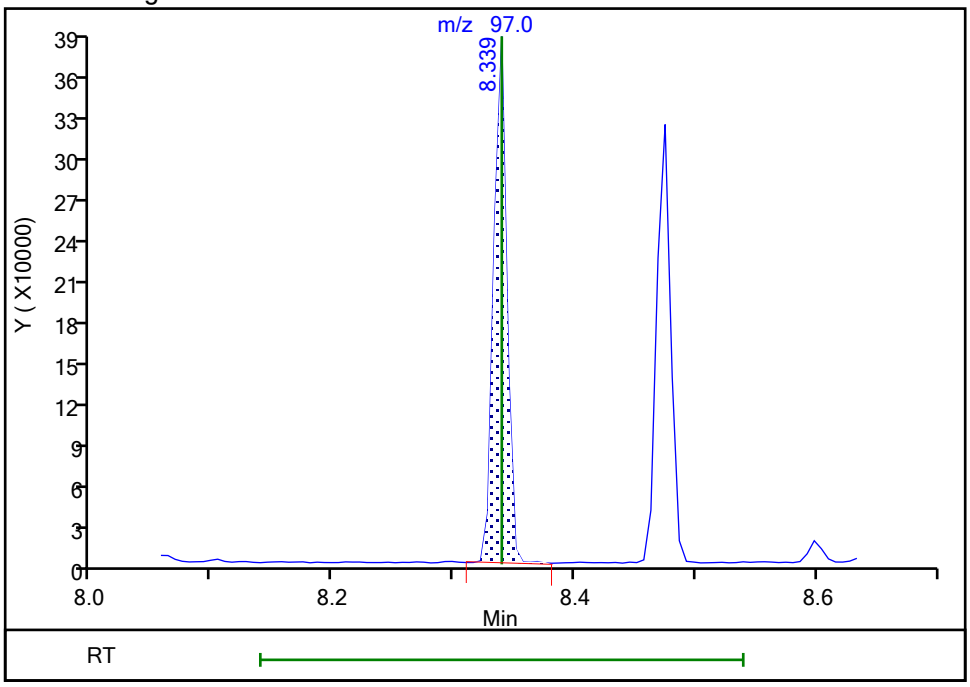
Not Detected
Expected RT: 8.34

Processing Integration Results



Manual Integration Results

RT: 8.34
Area: 292893
Amount: 12.142884
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

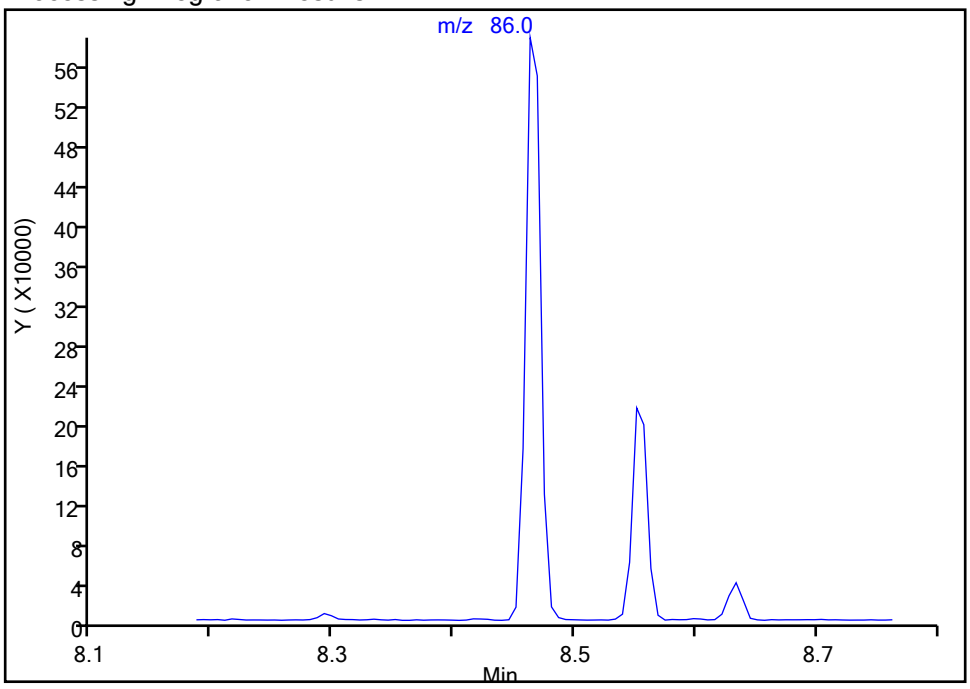
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

115 cis-Diallate, CAS: 17708-57-5

Signal: 1

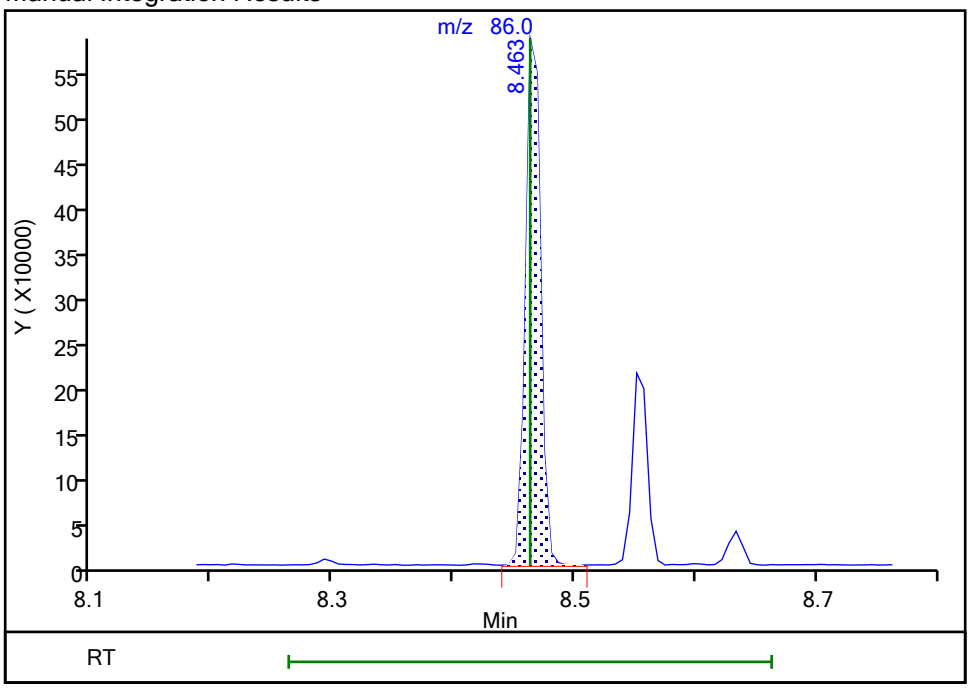
Not Detected
Expected RT: 8.46

Processing Integration Results



Manual Integration Results

RT: 8.46
Area: 514016
Amount: 9.044649
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:39 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

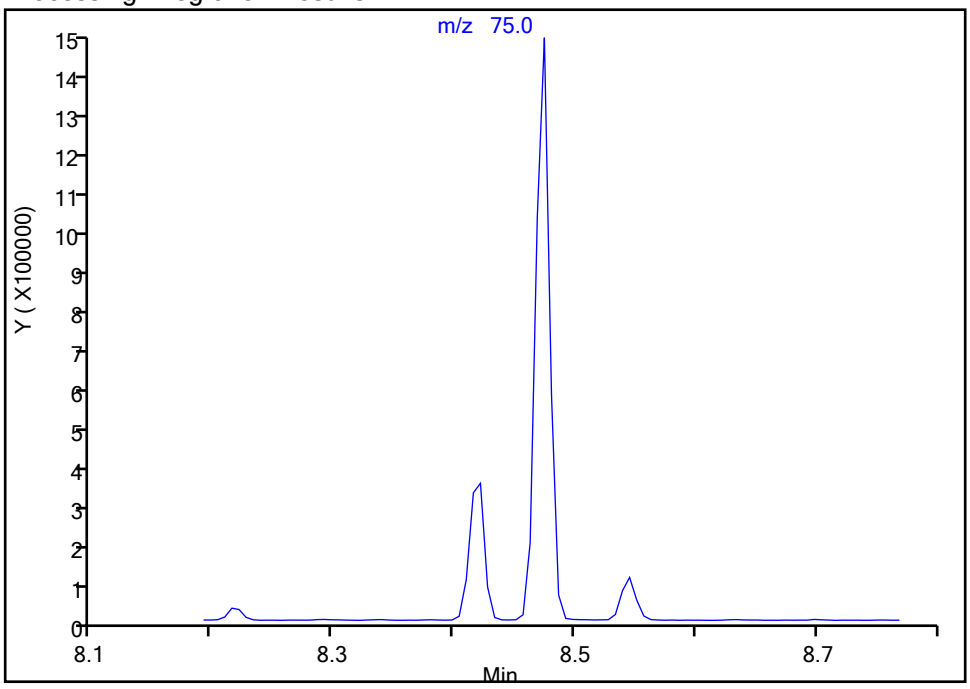
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

116 Phorate, CAS: 298-02-2

Signal: 1

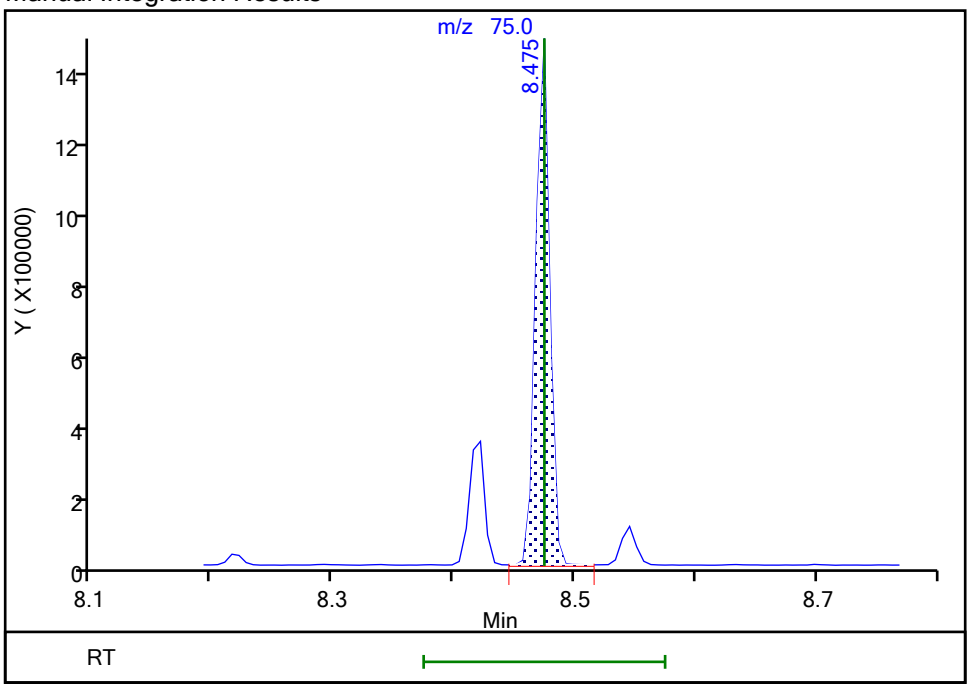
Not Detected
Expected RT: 8.47

Processing Integration Results



Manual Integration Results

RT: 8.47
Area: 1138747
Amount: 12.851903
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:42 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

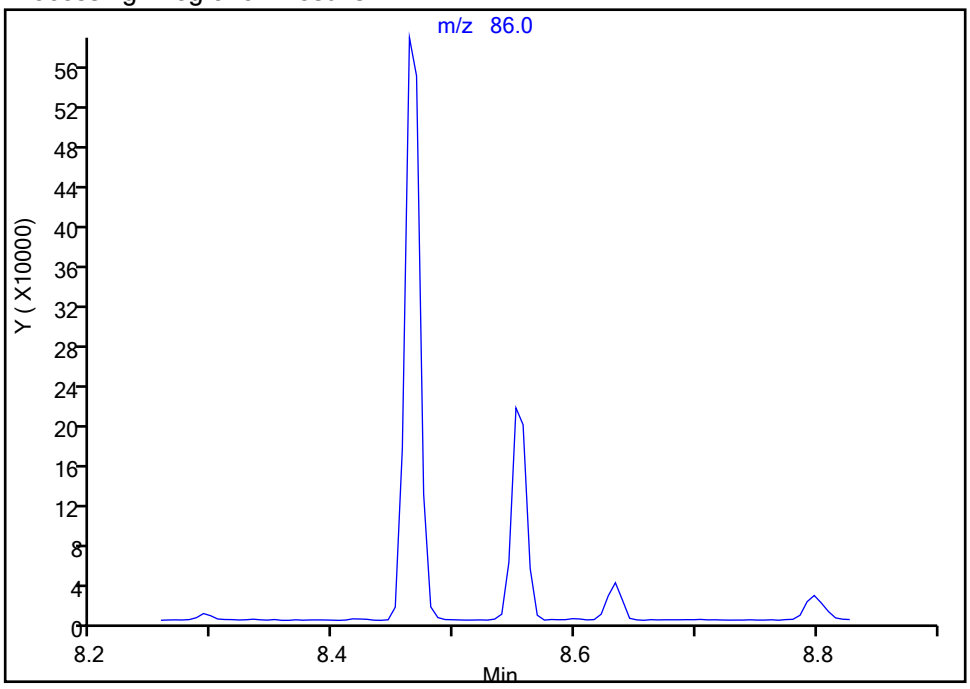
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

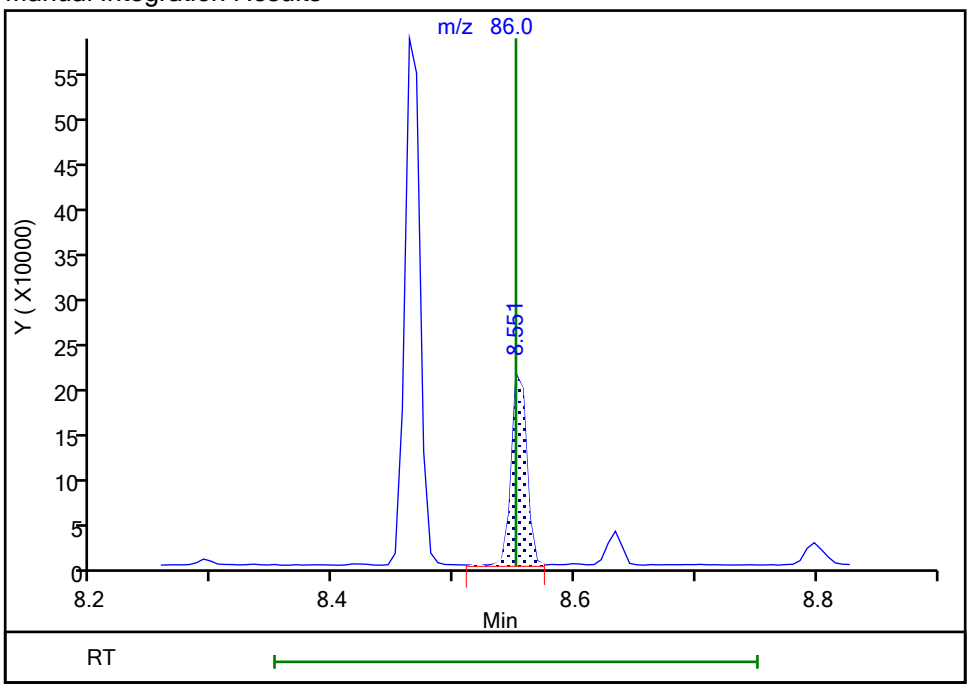
Not Detected
Expected RT: 8.55

Processing Integration Results



Manual Integration Results

RT: 8.55
Area: 187263
Amount: 2.937196
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:46 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

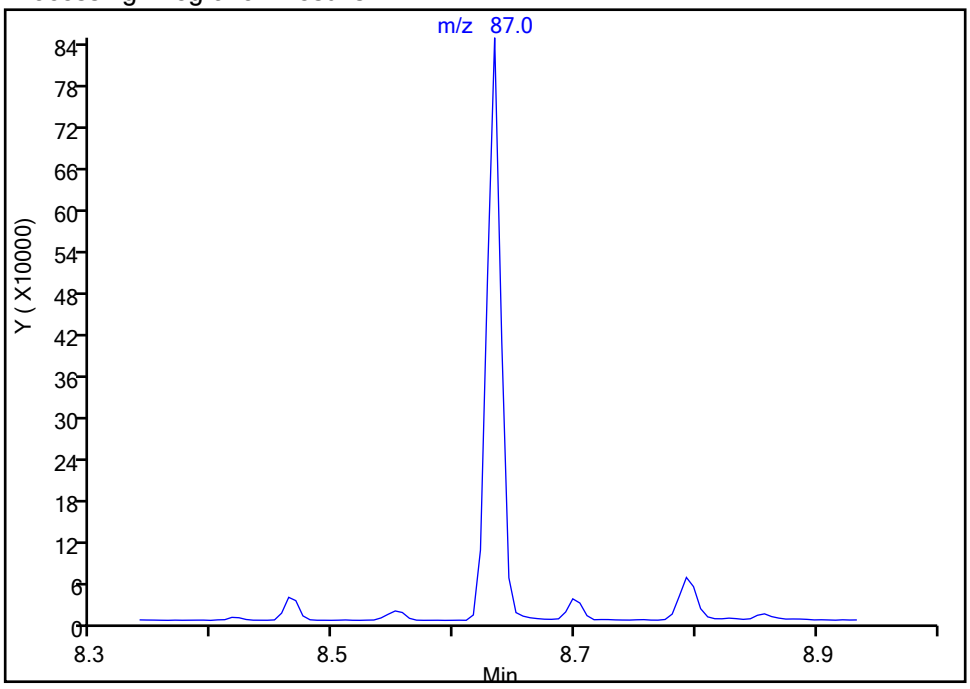
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

121 Dimethoate, CAS: 60-51-5

Signal: 1

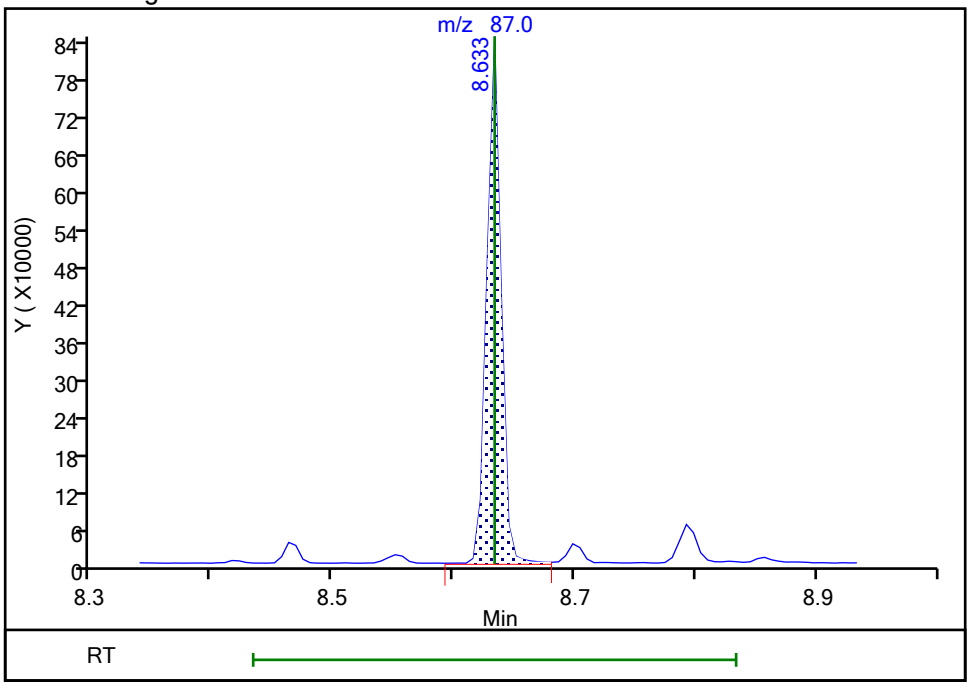
Not Detected
Expected RT: 8.63

Processing Integration Results



Manual Integration Results

RT: 8.63
Area: 688898
Amount: 12.256211
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:49 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

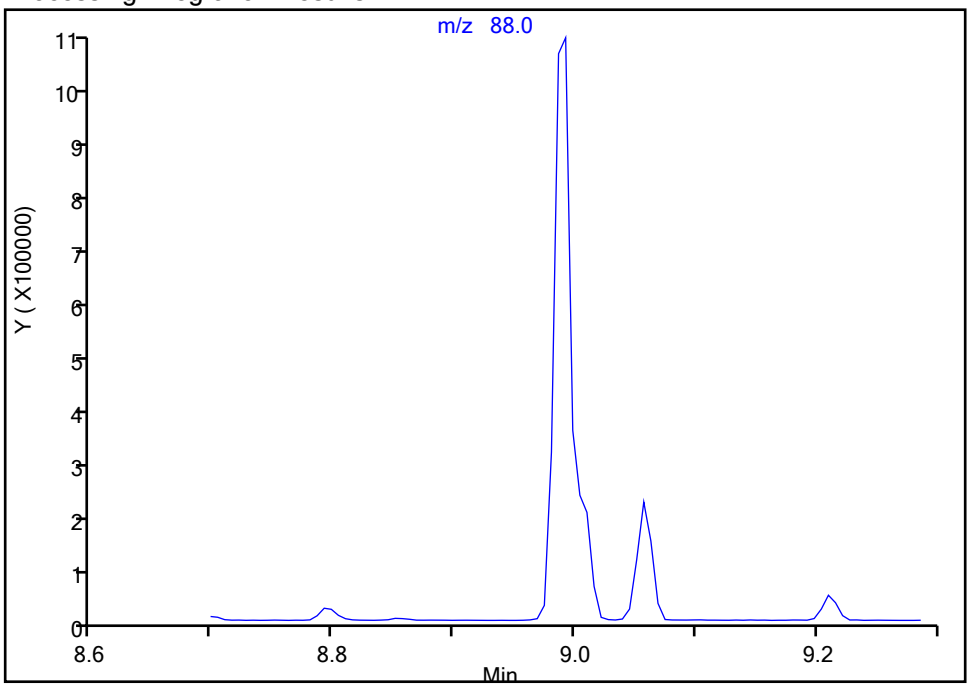
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

70 Disulfoton, CAS: 298-04-4

Signal: 1

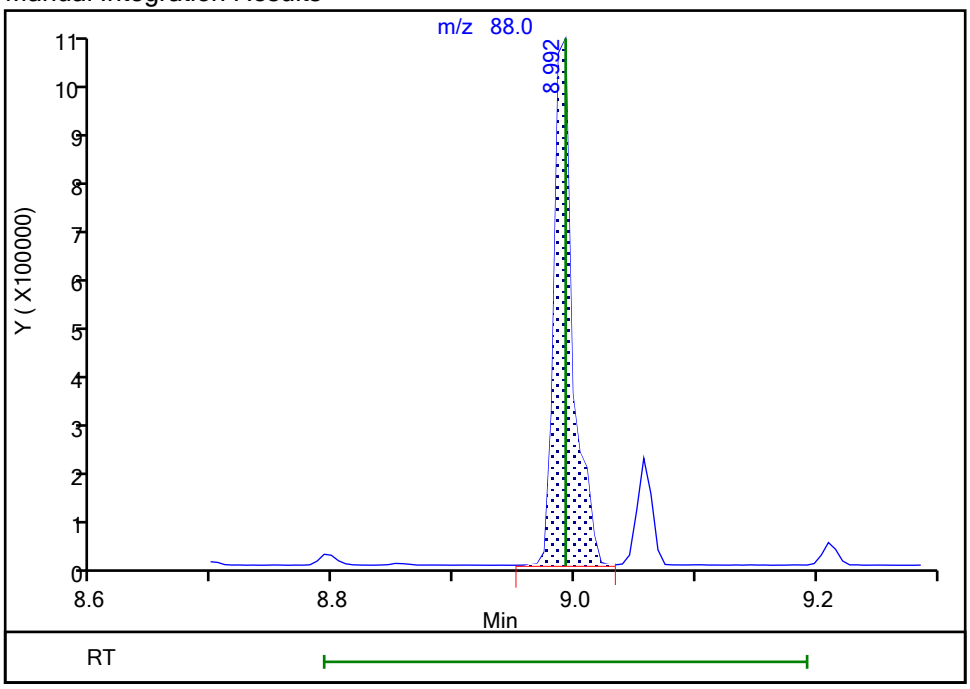
Not Detected
Expected RT: 8.99

Processing Integration Results



RT: 8.99
Area: 1123463
Amount: 12.655878
Amount Units: ug/ml

Manual Integration Results



Reviewer: SJ89, 24-Jun-2025 08:24:52 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

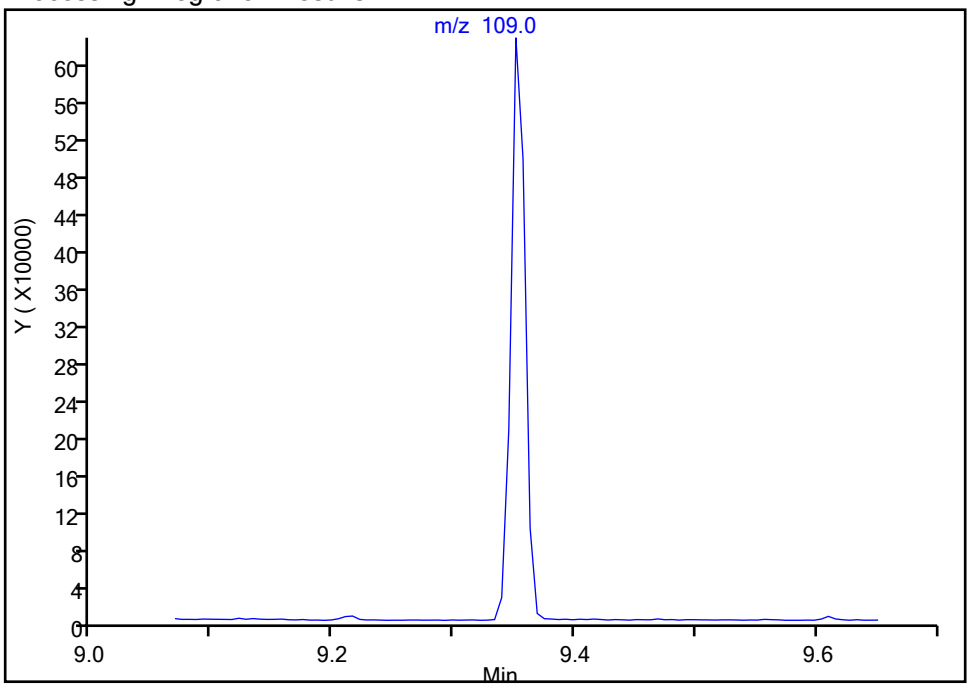
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

132 Methyl parathion, CAS: 298-00-0

Signal: 1

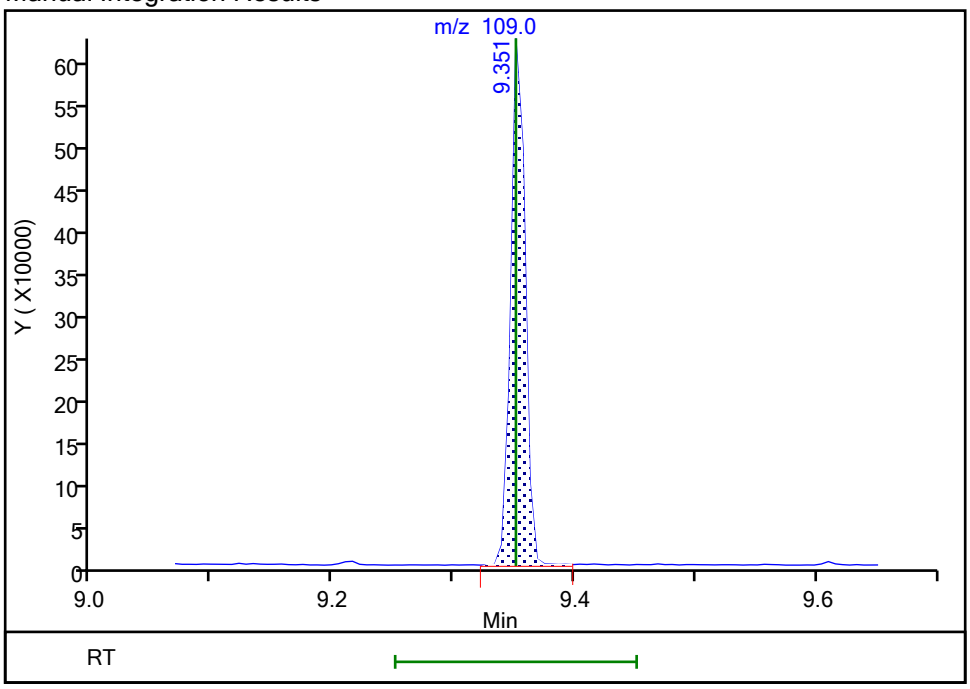
Not Detected
Expected RT: 9.35

Processing Integration Results



Manual Integration Results

RT: 9.35
Area: 520091
Amount: 13.544108
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:24:58 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

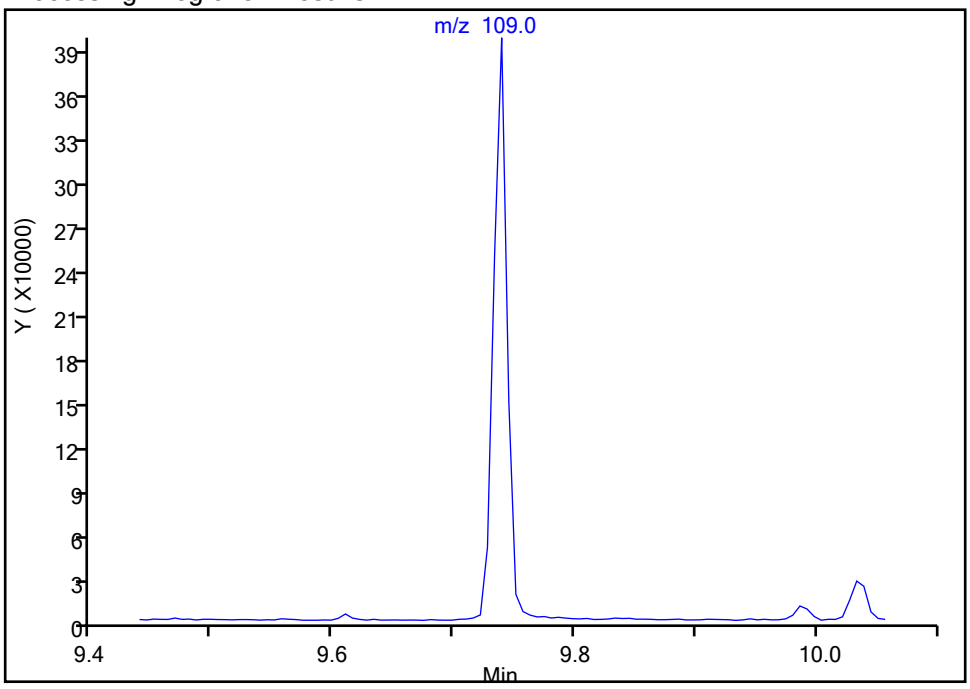
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

134 Ethyl Parathion, CAS: 56-38-2

Signal: 1

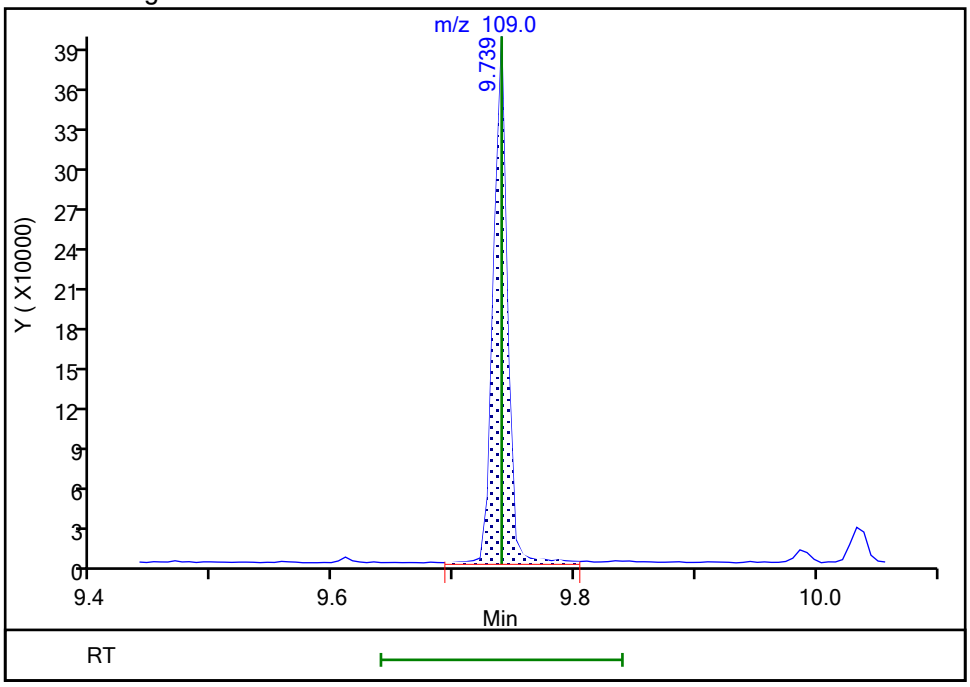
Not Detected
Expected RT: 9.74

Processing Integration Results



Manual Integration Results

RT: 9.74
Area: 314898
Amount: 13.068323
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:25:01 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

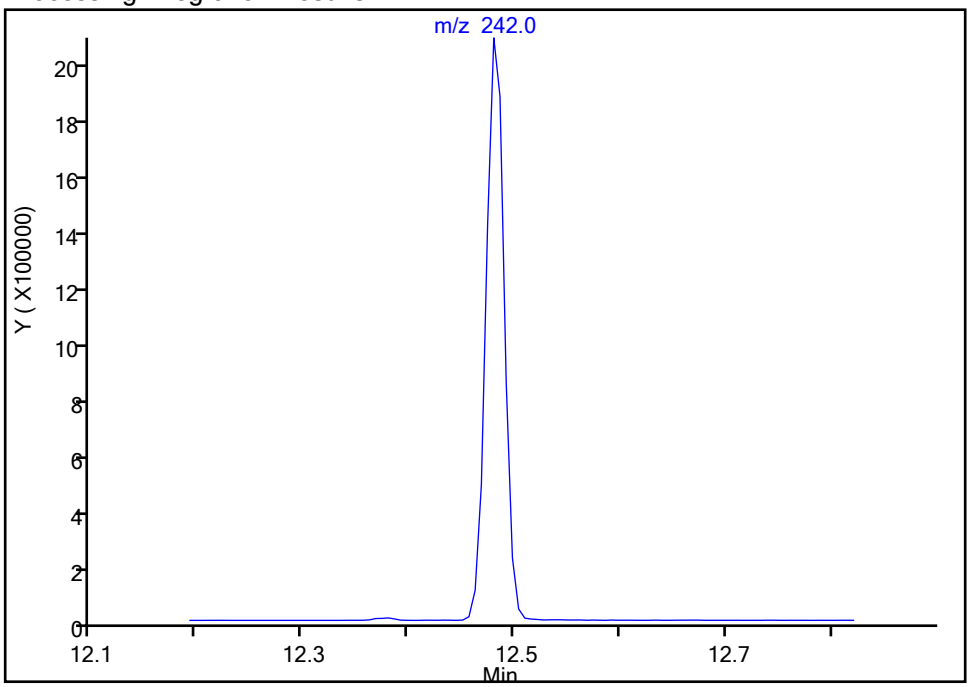
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

153 6-Methylchrysene, CAS: 1705-85-7

Signal: 1

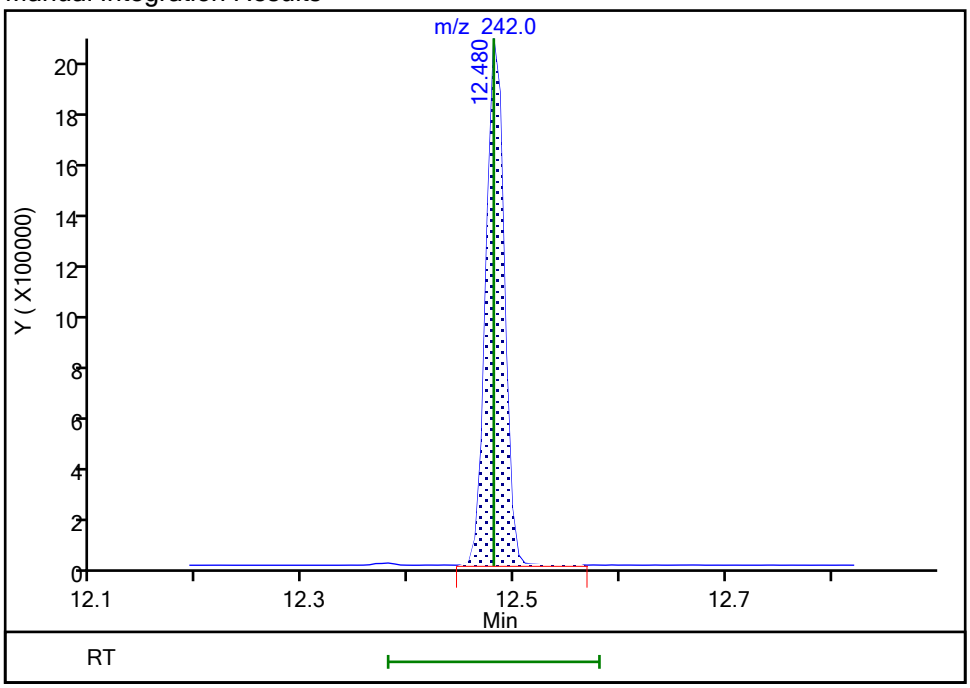
Not Detected
Expected RT: 12.48

Processing Integration Results



Manual Integration Results

RT: 12.48
Area: 2437491
Amount: 12.963130
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:25:06 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

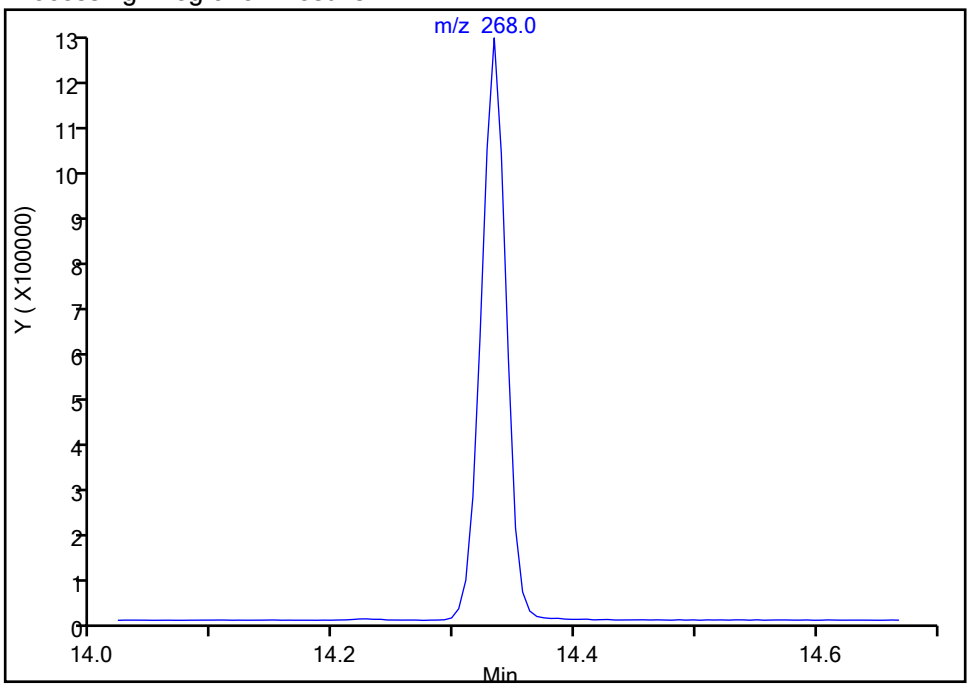
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

160 3-Methylcholanthrene, CAS: 56-49-5

Signal: 1

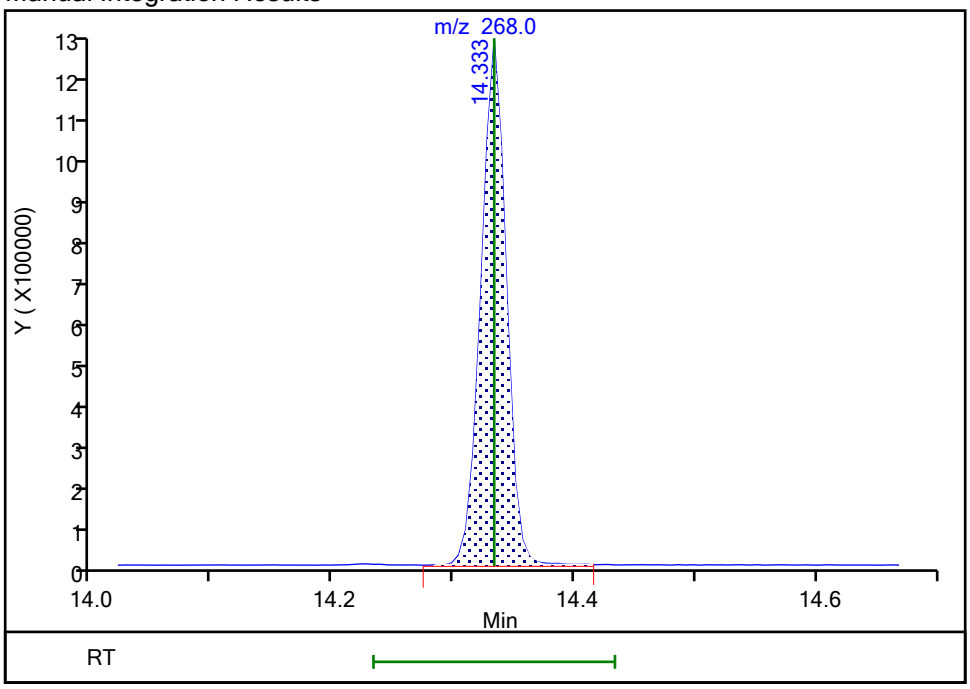
Not Detected
Expected RT: 14.33

Processing Integration Results



Manual Integration Results

RT: 14.33
Area: 1819024
Amount: 13.414336
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:25:10 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

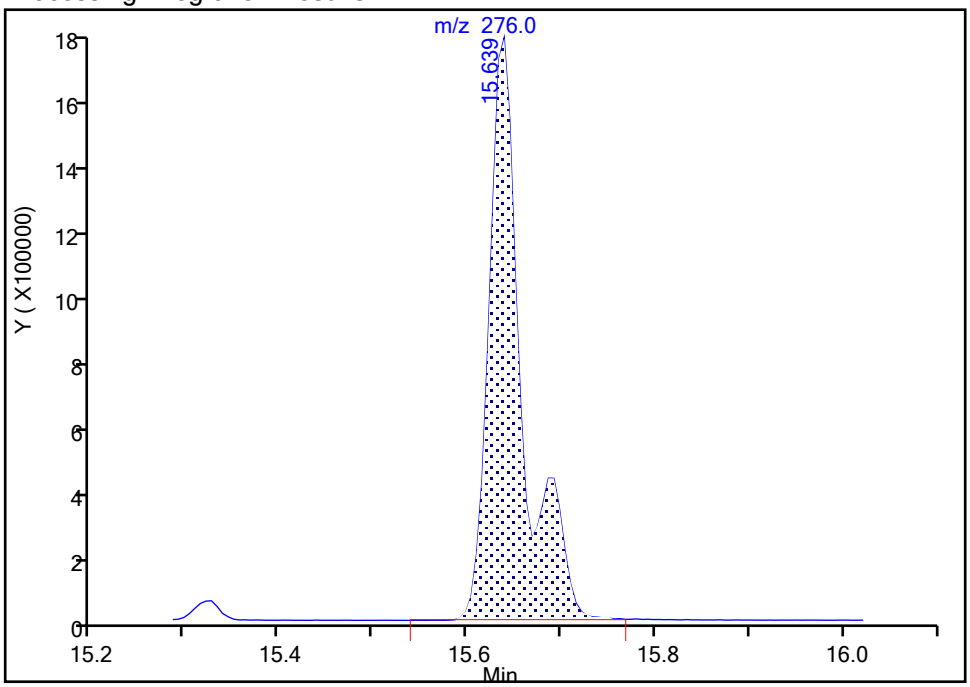
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2351.D				
Injection Date:	23-Jun-2025 20:42:30	Instrument ID:	HP18831		
Lims ID:	ICIS L6				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

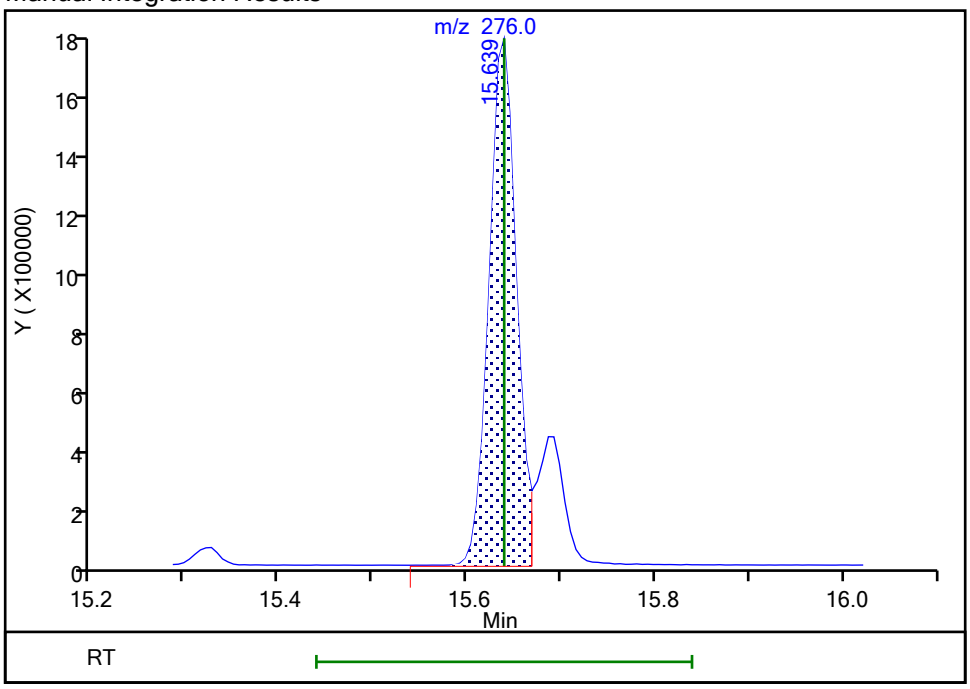
Processing Integration Results

RT: 15.64
Area: 4286575
Amount: 12.500000
Amount Units: ug/ml



Manual Integration Results

RT: 15.64
Area: 3451766
Amount: 14.101937
Amount Units: ug/ml



Reviewer: N5QU, 23-Jun-2025 21:44:49 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2352.D
Lims ID: IC L8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 23-Jun-2025 21:24:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L8
Misc. Info.: 410-0151283-003
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:21 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:26:53

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.157	0.000	99	585916	30.0	31.0	
	2 N-Nitrosodimethylamine	74	2.340	2.334	0.006	91	1070312	30.0	32.6	
	3 Pyridine	79	2.375	2.375	0.000	91	3397127	60.0	65.0	
	4 Dimethylformamide	73	2.598	2.604	-0.006	97	1265602	30.0	35.3	
	5 2-Picoline	93	2.887	2.887	0.000	96	1795575	30.0	33.3	
	6 N-Nitrosomethylethylamine	88	2.951	2.951	0.000	96	772786	30.0	31.7	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	990977	30.0	32.7	
$	10 2-Fluorophenol	112	3.334	3.328	0.006	95	2943930	60.0	68.4	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	93	803136	30.0	33.3	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	869789	30.0	31.8	
	15 Benzaldehyde	77	4.116	4.110	0.006	95	1344617	30.0	29.3	
$	16 Phenol-d5	99	4.145	4.146	-0.001	97	4136895	60.0	69.1	
	17 Phenol	94	4.157	4.157	0.000	99	2149365	30.0	33.7	
	18 Aniline	93	4.210	4.204	0.006	97	2648623	30.0	33.3	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	93	1629578	30.0	31.5	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	1562923	30.0	33.5	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	1696809	30.0	31.9	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	180262	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.545	4.546	-0.001	94	1754587	30.0	31.8	
	26 Benzyl alcohol	108	4.645	4.645	0.000	91	1132297	30.0	33.1	
	27 1,2-Dichlorobenzene	146	4.692	4.687	0.005	96	1685219	30.0	32.2	
	30 2-Methylphenol	108	4.751	4.745	0.006	98	1551860	30.0	33.5	
	32 2,2'-oxybis[1-chloropropane]	45	4.787	4.781	0.006	93	2650199	30.0	31.1	
	33 N-Nitrosopyrrolidine	100	4.887	4.881	0.006	88	958215	30.0	33.0	
	36 4-Methylphenol	108	4.898	4.893	0.005	97	1642534	30.0	34.3	
	35 N-Nitrosodi-n-propylamine	70	4.916	4.904	0.012	90	1356722	30.0	30.8	
	34 Acetophenone	105	4.910	4.910	0.000	94	2423879	30.0	31.1	
	37 N-Nitrosomorpholine	56	4.928	4.922	0.006	91	1213497	30.0	29.4	
	38 2-Toluidine	106	4.945	4.940	0.005	96	2616983	30.0	31.3	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	665470	30.0	29.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.063	5.057	0.006	90	3618786	60.0	65.7	
42 Nitrobenzene	77	5.081	5.075	0.006	90	1838333	30.0	30.9	
43 N-Nitrosopiperidine	114	5.228	5.222	0.006	83	899742	30.0	30.8	
45 Isophorone	82	5.316	5.310	0.006	99	3653529	30.0	31.7	
46 2-Nitrophenol	139	5.392	5.393	0.000	97	660786	30.0	36.0	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	97	1815764	30.0	33.6	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	86	952453	30.0	31.3	
51 Bis(2-chloroethoxy)methane	93	5.534	5.528	0.006	99	2205378	30.0	30.9	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	1472716	30.0	36.2	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	1618990	30.0	31.1	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	772262	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	4861596	30.0	30.7	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	1602566	30.0	31.8	
57 4-Chloroaniline	127	5.845	5.845	0.000	95	2247231	30.0	32.4	
58 2,6-Dichlorophenol	162	5.857	5.851	0.006	97	1395533	30.0	34.4	
59 Hexachloropropene	213	5.886	5.887	-0.001	89	1063428	30.0	33.0	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	961330	30.0	31.3	
62 Quinoline	129	6.128	6.122	0.006	96	3614028	30.0	30.7	
63 Caprolactam	113	6.181	6.163	0.018	74	568789	30.0	32.8	
64 N-Nitrosodi-n-butylamine	84	6.186	6.187	-0.001	93	1696110	30.0	35.6	
39 p-Phenylene diamine	108	6.198	6.192	0.006	95	2109823	30.0	32.3	
66 4-Chloro-3-methylphenol	107	6.328	6.322	0.006	98	1630039	30.0	34.4	
67 Safrole, Total	162	6.398	6.398	0.000	92	1425241	30.0	31.3	a
68 2-Methylnaphthalene	142	6.486	6.487	-0.001	92	3177909	30.0	30.8	
69 1-Methylnaphthalene	142	6.586	6.587	-0.001	93	3338709	30.0	31.2	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	94	1237226	30.0	33.6	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	99	1815482	30.0	31.0	
73 Isosafrole Peak 1	162	6.692	6.692	0.000	91	260605	4.80	4.70	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	78	1072342	30.0	36.3	
75 2,4,5-Trichlorophenol	196	6.798	6.792	0.006	95	1349995	30.0	35.2	
$ 76 2-Fluorobiphenyl (Surr)	172	6.857	6.851	0.006	100	7873521	60.0	59.2	e
77 Isosafrole Peak 2	162	6.916	6.916	0.000	93	1510318	25.2	26.9	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	4421399	30.0	30.5	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	98	3298025	30.0	27.6	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	3447951	30.0	32.7	
81 Phenyl ether	170	7.057	7.057	0.000	90	2538626	30.0	30.5	
82 2-Nitroaniline	138	7.069	7.063	0.006	84	1132648	30.0	35.4	
84 1,4-Naphthoquinone	158	7.145	7.139	0.006	92	1478233	30.0	32.1	
85 1,4-Dinitrobenzene	168	7.204	7.198	0.006	93	498163	30.0	37.1	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	4243705	30.0	30.9	
87 1,3-Dinitrobenzene	168	7.275	7.269	0.006	85	615805	30.0	35.6	
88 2,6-Dinitrotoluene	165	7.310	7.304	0.006	95	919160	30.0	34.9	
89 Acenaphthylene	152	7.381	7.381	0.000	98	5808201	30.0	32.1	
90 3-Nitroaniline	138	7.469	7.469	0.000	94	1086550	30.0	36.3	
* 91 Acenaphthene-d10	164	7.522	7.522	0.000	95	492767	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	3725382	30.0	30.4	
94 2,4-Dinitrophenol	184	7.575	7.569	0.006	84	436921	60.0	72.7	
95 4-Nitrophenol	109	7.633	7.622	0.011	94	1121903	60.0	68.9	
96 Pentachlorobenzene	250	7.680	7.681	-0.001	98	1732323	30.0	30.6	
98 2,4-Dinitrotoluene	165	7.704	7.704	0.000	94	1284173	30.0	36.9	
97 Dibenzofuran	168	7.728	7.722	0.006	96	5188788	30.0	30.2	
99 1-Naphthylamine	143	7.798	7.798	0.000	99	3887578	30.0	32.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	1144363	30.0	34.9	
103 2-Naphthylamine	143	7.880	7.875	0.005	97	4200452	30.0	31.9	
104 Diethyl phthalate	149	7.957	7.951	0.006	98	4371310	30.0	31.6	
106 Thionazin	107	8.033	8.028	0.005	80	693102	30.0	32.3	
105 Fluorene	166	8.063	8.063	0.000	93	4318770	30.0	30.5	
108 4-Chlorophenyl phenyl ether	204	8.069	8.063	0.006	90	2081156	30.0	29.8	
107 N-Nitro-o-toluidine	152	8.069	8.063	0.006	84	1184422	30.0	33.8	
109 4-Nitroaniline	138	8.075	8.069	0.006	82	1151599	30.0	34.5	
110 4,6-Dinitro-2-methylphenol	198	8.110	8.098	0.012	85	765601	60.0	60.1	
111 N-Nitrosodiphenylamine	169	8.180	8.175	0.005	78	3203113	25.5	26.7	
112 1,2-Diphenylhydrazine	77	8.222	8.216	0.006	98	4505310	30.0	30.2	
$ 113 2,4,6-Tribromophenol	330	8.298	8.298	0.000	94	1452291	60.0	70.3	
114 Sulfotepp	97	8.339	8.339	0.000	83	746466	30.0	30.5	
172 1,3,5-Trinitrobenzene	213	8.428	8.422	0.006	84	409513	30.0	29.8	
115 cis-Diallate	86	8.469	8.463	0.006	88	1332648	22.2	23.1	
117 Phenacetin	108	8.486	8.475	0.011	95	2307996	30.0	34.0	
116 Phorate	75	8.475	8.475	0.000	96	2945592	30.0	32.8	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	1363229	30.0	30.4	
119 trans-Diallate	86	8.557	8.551	0.006	89	465873	7.80	7.21	
120 Hexachlorobenzene	284	8.604	8.604	0.000	96	1590919	30.0	29.6	
121 Dimethoate	87	8.639	8.633	0.006	96	1797572	30.0	31.4	
122 Atrazine	200	8.704	8.704	0.000	93	1314378	30.0	30.8	
123 Pentachlorophenol	266	8.798	8.792	0.006	93	1623468	60.0	63.4	
125 4-Aminobiphenyl	169	8.798	8.798	0.000	91	5387267	30.0	31.3	
124 Pentachloronitrobenzene	237	8.810	8.804	0.006	89	641763	30.0	34.5	
126 Pronamide	173	8.863	8.857	0.006	91	2213986	30.0	32.4	
128 Dinoseb	211	8.980	8.975	0.005	97	590885	30.0	39.1	
* 127 Phenanthrene-d10	188	8.986	8.986	0.000	97	1010504	5.00	5.00	
70 Disulfoton	88	8.992	8.992	0.000	98	2816559	30.0	31.5	
129 Phenanthrene	178	9.010	9.010	0.000	96	6514945	30.0	28.9	
S 56 Dinitrotoluene	165				0		60.0	71.8	
130 Anthracene	178	9.063	9.057	0.006	97	6817317	30.0	30.9	
131 Carbazole	167	9.216	9.210	0.006	96	6455626	30.0	31.2	
132 Methyl parathion	109	9.357	9.351	0.006	96	1453069	30.0	37.3	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	7401419	30.0	33.4	e
S 65 Diallate	86				0		30.0	30.4	
134 Ethyl Parathion	109	9.739	9.739	0.000	85	870769	30.0	35.7	
135 4-Nitroquinoline-1-oxide	190	9.763	9.763	0.000	91	708886	30.0	29.8	
136 Octachlorostyrene	308	9.992	9.992	0.000	91	686950	30.0	31.0	
137 Isodrin	193	10.033	10.033	0.000	96	850969	30.0	30.2	
138 Fluoranthene	202	10.180	10.180	0.000	98	7478603	30.0	29.7	e
139 Benzidine	184	10.322	10.310	0.012	98	11381467	90.0	71.0	e
* 140 Pyrene-d10 (IS)	212	10.392	10.392	0.000	99	1092082	5.00	5.00	
141 Pyrene	202	10.410	10.410	0.000	97	8041097	30.0	30.0	
$ 142 p-Terphenyl-d14	244	10.580	10.575	0.005	98	9437375	60.0	53.2	e
143 p-Dimethylamino azobenzene	225	10.727	10.727	0.000	94	1701131	30.0	35.1	
144 Chlorobenzilate	139	10.780	10.780	0.000	92	2439510	30.0	36.0	
145 3,3'-Dimethylbenzidine	212	11.110	11.110	0.000	99	5372061	30.0	33.4	
146 Butyl benzyl phthalate	149	11.133	11.133	0.000	98	3520276	30.0	35.8	
147 2-Acetylaminofluorene	181	11.410	11.410	0.000	95	3375715	30.0	36.9	
149 3,3'-Dichlorobenzidine	252	11.786	11.780	0.006	75	3514329	30.0	35.0	
150 4,4'-Methylene bis(2-chloroani	231	11.792	11.786	0.006	96	1855930	30.0	35.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.816	11.816	0.000	98	8729785	30.0	33.5	
151 Chrysene	228	11.868	11.863	0.005	96	8064605	30.0	31.9	
152 Bis(2-ethylhexyl) phthalate	149	11.880	11.880	0.000	97	5300608	30.0	35.4	
153 6-Methylchrysene	242	12.486	12.480	0.006	99	6200422	30.0	34.3	
154 Di-n-octyl phthalate	149	12.810	12.810	0.000	99	8685140	30.0	33.2	
156 7,12-Dimethylbenz(a)anthracene	256	13.327	13.321	0.006	89	4069692	30.0	34.1	
155 Benzo[b]fluoranthene	252	13.333	13.321	0.012	96	9171292	30.0	32.8	
157 Benzo[k]fluoranthene	252	13.374	13.368	0.006	98	8789934	30.0	31.6	
158 Benzo[a]pyrene	252	13.804	13.798	0.006	76	8247439	30.0	33.2	
* 159 Perylene-d12	264	13.886	13.880	0.006	99	1127133	5.00	5.00	
160 3-Methylcholanthrene	268	14.339	14.333	0.006	91	4426700	30.0	35.1	
161 Dibenz[a,h]acridine	279	15.239	15.233	0.006	90	6543528	30.0	34.2	
162 Dibenz[a,j]acridine	279	15.327	15.321	0.006	96	6805651	30.0	34.8	
163 Indeno[1,2,3-cd]pyrene	276	15.651	15.639	0.012	99	7707740	30.0	33.8	
164 Dibenz(a,h)anthracene	278	15.698	15.692	0.006	93	7739504	30.0	33.7	
165 Benzo[g,h,i]perylene	276	16.156	16.145	0.011	98	7216315	30.0	31.6	
S 166 Isosafrole	162				0		30.0	31.6	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

MSS_RV8270_8_00044 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:22 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2352.D

Injection Date: 23-Jun-2025 21:24:30 Instrument ID: HP18831 Operator ID: IR93211

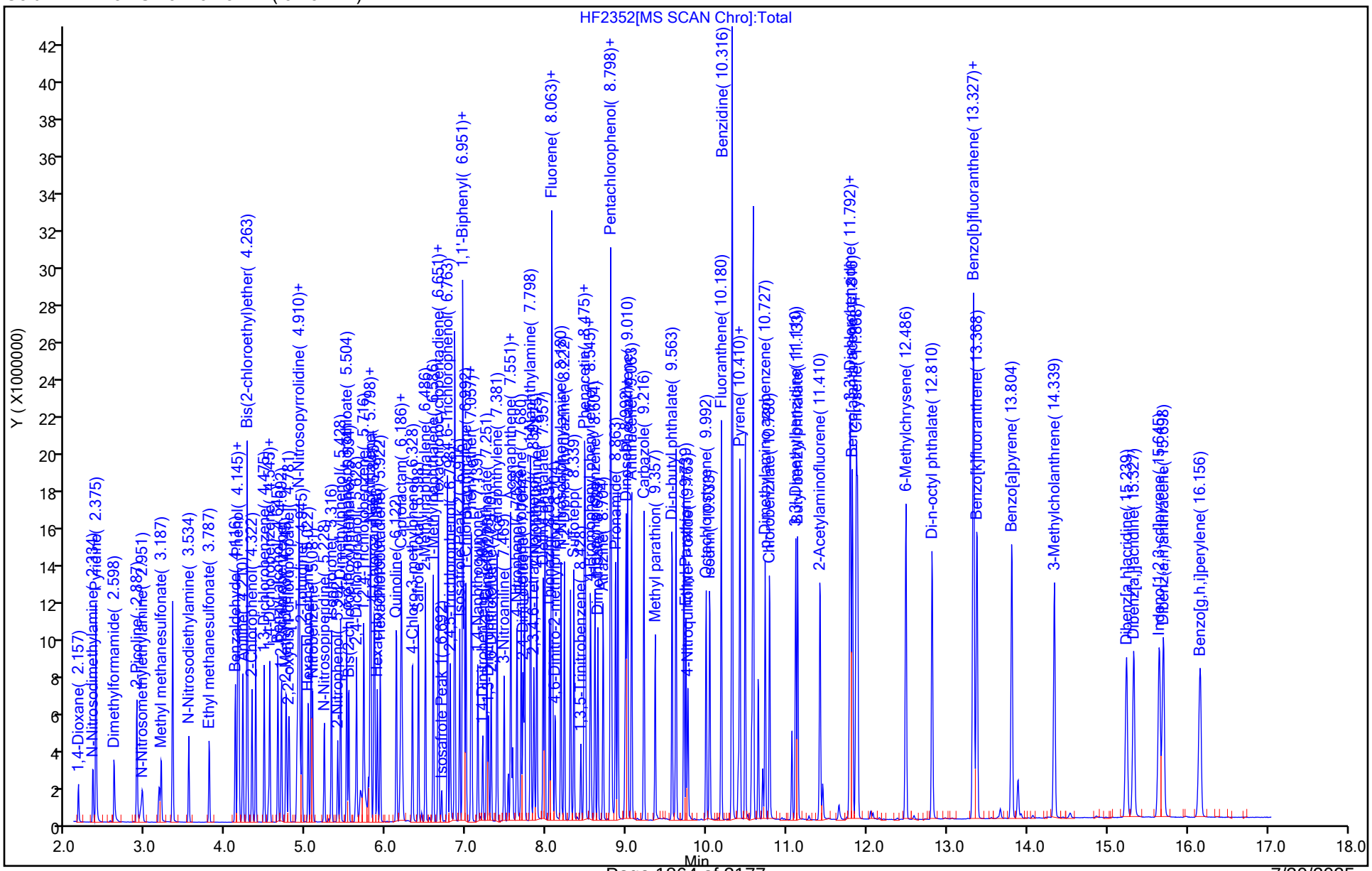
Lims ID: IC L8 Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

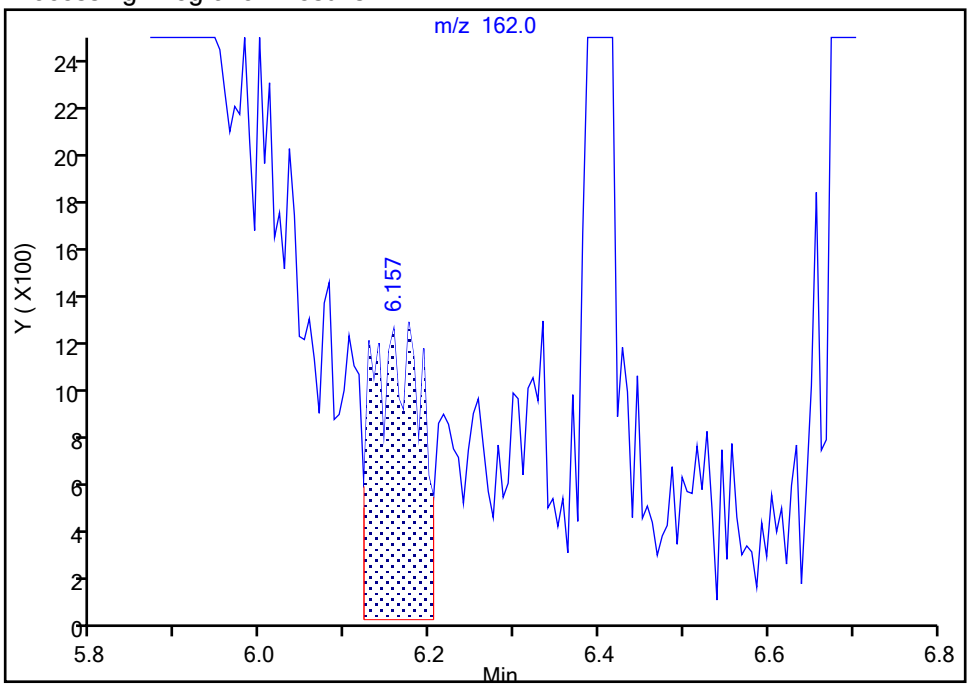
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2352.D				
Injection Date:	23-Jun-2025 21:24:30	Instrument ID:	HP18831		
Lims ID:	IC L8				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

67 Safrole, Total, CAS: 94-59-7

Signal: 1

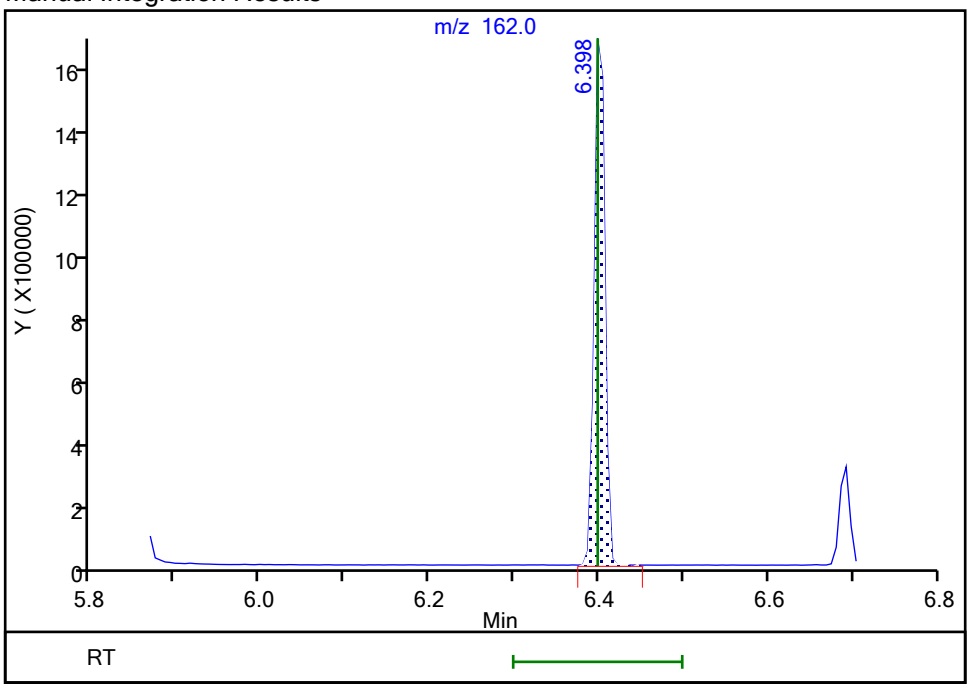
Processing Integration Results

RT: 6.16
Area: 4793
Amount: 30.000000
Amount Units: ug/ml



Manual Integration Results

RT: 6.40
Area: 1425241
Amount: 31.337151
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 08:26:37 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2353.D
Lims ID: IC L7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 23-Jun-2025 21:46:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L7
Misc. Info.: 410-0151283-004
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:40 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:53:40

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.157	0.000	99	392482	20.0	18.8	
	2 N-Nitrosodimethylamine	74	2.340	2.334	0.006	91	695394	20.0	19.2	
	3 Pyridine	79	2.375	2.375	0.000	91	2223563	40.0	38.6	
	4 Dimethylformamide	73	2.604	2.604	0.000	97	802414	20.0	20.3	
	5 2-Picoline	93	2.887	2.887	0.000	95	1194858	20.0	20.1	
	6 N-Nitrosomethylethylamine	88	2.957	2.951	0.006	97	509970	20.0	19.0	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	656620	20.0	19.6	
$	10 2-Fluorophenol	112	3.334	3.328	0.006	95	1943987	40.0	40.9	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	530330	20.0	19.9	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	589104	20.0	19.5	
	15 Benzaldehyde	77	4.116	4.110	0.006	95	974168	20.0	19.2	
$	16 Phenol-d5	99	4.145	4.146	-0.001	97	2757645	40.0	41.7	
	17 Phenol	94	4.157	4.157	0.000	99	1438294	20.0	20.4	
	18 Aniline	93	4.210	4.204	0.006	96	1751137	20.0	20.0	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	92	1103940	20.0	19.3	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	1043221	20.0	20.3	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	1141375	20.0	19.4	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	97	199008	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.545	4.546	-0.001	93	1168044	20.0	19.1	
	26 Benzyl alcohol	108	4.645	4.645	0.000	91	760231	20.0	20.1	
	27 1,2-Dichlorobenzene	146	4.693	4.687	0.005	96	1136695	20.0	19.7	
	30 2-Methylphenol	108	4.745	4.745	0.000	98	1052687	20.0	20.6	
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1801049	20.0	19.1	
	33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	88	661589	20.0	20.7	
	36 4-Methylphenol	108	4.898	4.893	0.005	96	1115254	20.0	21.1	
	35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	89	938346	20.0	19.3	
	34 Acetophenone	105	4.910	4.910	0.000	92	1672757	20.0	19.5	
	37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	841595	20.0	18.4	
	38 2-Toluidine	106	4.945	4.940	0.005	96	1808923	20.0	19.6	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	452351	20.0	18.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	2432038	40.0	39.4	
42 Nitrobenzene	77	5.081	5.075	0.006	90	1239161	20.0	18.6	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	83	631315	20.0	19.3	
45 Isophorone	82	5.316	5.310	0.006	99	2544924	20.0	19.7	
46 2-Nitrophenol	139	5.392	5.393	0.000	96	462229	20.0	22.5	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	1206246	20.0	19.9	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	668111	20.0	19.6	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1522951	20.0	19.0	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	990150	20.0	21.7	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	1099603	20.0	18.9	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	865212	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	3395370	20.0	19.1	
29 Alpha-Terpineol	59	5.804	5.804	0.000	95	1112649	20.0	19.7	
57 4-Chloroaniline	127	5.845	5.845	0.000	96	1533475	20.0	19.7	
58 2,6-Dichlorophenol	162	5.857	5.851	0.006	97	963749	20.0	21.2	
59 Hexachloropropene	213	5.887	5.887	0.000	88	743527	20.0	20.6	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	94	673159	20.0	19.6	
62 Quinoline	129	6.122	6.122	0.000	96	2465943	20.0	18.7	
63 Caprolactam	113	6.169	6.163	0.006	75	411112	20.0	21.2	
64 N-Nitrosodi-n-butylamine	84	6.187	6.187	0.000	94	1215352	20.0	22.7	
39 p-Phenylene diamine	108	6.192	6.192	0.000	95	1467877	20.0	20.1	
66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	1106513	20.0	20.9	
67 Safrole, Total	162	6.398	6.398	0.000	92	1003445	20.0	19.7	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	2186741	20.0	18.9	
69 1-Methylnaphthalene	142	6.587	6.587	-0.001	93	2329833	20.0	19.4	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	96	844318	20.0	20.4	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	1280981	20.0	19.5	
73 Isosafrole Peak 1	162	6.692	6.692	0.000	91	181022	3.20	2.91	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	78	751662	20.0	22.7	
75 2,4,5-Trichlorophenol	196	6.792	6.792	0.000	95	914896	20.0	21.3	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	5668160	40.0	38.0	
77 Isosafrole Peak 2	162	6.916	6.916	0.000	95	1066006	16.8	16.9	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	3122707	20.0	19.2	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	97	2459968	20.0	18.4	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	99	2329416	20.0	19.7	
81 Phenyl ether	170	7.057	7.057	0.000	89	1772151	20.0	19.0	
82 2-Nitroaniline	138	7.063	7.063	0.000	85	776980	20.0	21.7	
84 1,4-Naphthoquinone	158	7.139	7.139	0.000	90	1073389	20.0	20.8	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	92	337681	20.0	22.4	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	3014388	20.0	19.6	
87 1,3-Dinitrobenzene	168	7.275	7.269	0.006	86	416969	20.0	21.5	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	96	635232	20.0	21.5	
89 Acenaphthylene	152	7.381	7.381	0.000	98	3985042	20.0	19.6	
90 3-Nitroaniline	138	7.469	7.469	0.000	94	735296	20.0	21.9	
* 91 Acenaphthene-d10	164	7.522	7.522	0.000	95	552270	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	2613160	20.0	19.0	
94 2,4-Dinitrophenol	184	7.575	7.569	0.006	86	297535	40.0	44.1	
95 4-Nitrophenol	109	7.628	7.622	0.006	95	759402	40.0	41.6	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	1209064	20.0	19.1	
98 2,4-Dinitrotoluene	165	7.704	7.704	0.000	95	875217	20.0	22.4	
97 Dibenzofuran	168	7.722	7.722	0.000	96	3643672	20.0	18.9	
99 1-Naphthylamine	143	7.798	7.798	0.000	99	2741400	20.0	20.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	797506	20.0	21.7	
103 2-Naphthylamine	143	7.875	7.875	0.000	96	2886299	20.0	19.5	
104 Diethyl phthalate	149	7.951	7.951	0.000	98	3115333	20.0	20.1	
106 Thionazin	107	8.033	8.028	0.005	80	483536	20.0	20.1	
105 Fluorene	166	8.063	8.063	0.000	95	3037091	20.0	19.1	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	90	1445403	20.0	18.5	
107 N-Nitro-o-toluidine	152	8.069	8.063	0.006	75	829827	20.0	21.1	
109 4-Nitroaniline	138	8.069	8.069	0.000	86	788876	20.0	21.1	
110 4,6-Dinitro-2-methylphenol	198	8.104	8.098	0.006	84	511431	40.0	40.7	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	82	2257087	17.0	17.0	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	3163930	20.0	19.1	
$ 113 2,4,6-Tribromophenol	330	8.298	8.298	0.000	94	1015048	40.0	43.8	
114 Sulfotepp	97	8.339	8.339	0.000	81	527070	20.0	19.5	
172 1,3,5-Trinitrobenzene	213	8.422	8.422	0.000	84	269120	20.0	20.6	
115 cis-Diallate	86	8.463	8.463	0.000	88	941880	14.8	14.8	
117 Phenacetin	108	8.481	8.475	0.005	96	1592442	20.0	21.2	
116 Phorate	75	8.475	8.475	0.000	96	2036176	20.0	20.5	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	970159	20.0	19.6	
119 trans-Diallate	86	8.551	8.551	0.000	89	322605	5.20	4.51	
120 Hexachlorobenzene	284	8.604	8.604	0.000	96	1107011	20.0	18.6	
121 Dimethoate	87	8.633	8.633	0.000	95	1237601	20.0	19.6	
122 Atrazine	200	8.704	8.704	0.000	94	991784	20.0	21.0	
123 Pentachlorophenol	266	8.792	8.792	0.000	94	1143639	40.0	40.7	
125 4-Aminobiphenyl	169	8.798	8.798	0.000	91	3782420	20.0	19.9	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	88	440676	20.0	21.4	
126 Pronamide	173	8.857	8.857	0.000	91	1548970	20.0	20.5	
128 Dinoseb	211	8.975	8.975	0.000	97	383911	20.0	22.9	
* 127 Phenanthrene-d10	188	8.986	8.986	0.000	98	1118695	5.00	5.00	
70 Disulfoton	88	8.986	8.992	-0.006	97	1984746	20.0	20.0	
129 Phenanthrene	178	9.010	9.010	0.000	96	4623079	20.0	18.5	
S 56 Dinitrotoluene	165				0		40.0	44.0	
130 Anthracene	178	9.057	9.057	0.000	98	4771801	20.0	19.5	
131 Carbazole	167	9.216	9.210	0.006	96	4471386	20.0	19.5	
132 Methyl parathion	109	9.351	9.351	0.000	95	986630	20.0	22.9	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	5175034	20.0	21.1	
S 65 Diallate	86				0		20.0	19.3	
134 Ethyl Parathion	109	9.739	9.739	0.000	86	594263	20.0	22.0	
135 4-Nitroquinoline-1-oxide	190	9.763	9.763	0.000	92	469073	20.0	20.4	
136 Octachlorostyrene	308	9.992	9.992	0.000	92	481176	20.0	19.6	
137 Isodrin	193	10.033	10.033	0.000	94	587828	20.0	18.8	
138 Fluoranthene	202	10.180	10.180	0.000	97	5559488	20.0	20.0	
139 Benzidine	184	10.316	10.310	0.006	97	9804349	60.0	54.9	e
* 140 Pyrene-d10 (IS)	212	10.392	10.392	0.000	99	1217175	5.00	5.00	
141 Pyrene	202	10.410	10.410	0.000	98	5674130	20.0	19.0	
$ 142 p-Terphenyl-d14	244	10.574	10.575	-0.001	100	7810155	40.0	39.5	
143 p-Dimethylamino azobenzene	225	10.727	10.727	0.000	94	1172337	20.0	21.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1641242	20.0	21.7	
145 3,3'-Dimethylbenzidine	212	11.104	11.110	-0.006	99	3633701	20.0	20.3	
146 Butyl benzyl phthalate	149	11.133	11.133	0.000	98	2315251	20.0	21.1	
147 2-Acetylaminofluorene	181	11.404	11.410	-0.006	94	2106943	20.0	20.7	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	75	2320135	20.0	20.7	
150 4,4'-Methylene bis(2-chloroani	231	11.792	11.786	0.006	96	1226696	20.0	21.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.816	11.816	0.000	98	5836163	20.0	20.1	
151 Chrysene	228	11.863	11.863	0.000	96	5493958	20.0	19.5	
152 Bis(2-ethylhexyl) phthalate	149	11.880	11.880	0.000	97	3517082	20.0	21.1	
153 6-Methylchrysene	242	12.480	12.480	0.000	98	4028847	20.0	20.0	
154 Di-n-octyl phthalate	149	12.810	12.810	0.000	99	5383732	20.0	21.6	
156 7,12-Dimethylbenz(a)anthracene	256	13.321	13.321	0.000	89	2572947	20.0	22.4	
155 Benzo[b]fluoranthene	252	13.321	13.321	0.000	97	5743222	20.0	21.3	
157 Benzo[k]fluoranthene	252	13.363	13.368	-0.005	99	5621656	20.0	21.0	
158 Benzo[a]pyrene	252	13.798	13.798	0.000	76	5076256	20.0	21.2	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1084510	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.333	0.000	91	2570719	20.0	21.2	
161 Dibenz[a,h]acridine	279	15.233	15.233	0.000	90	3745824	20.0	20.4	
162 Dibenz[a,j]acridine	279	15.321	15.321	0.000	96	3836887	20.0	20.4	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.639	0.000	99	4427721	20.0	20.2	
164 Dibenz(a,h)anthracene	278	15.686	15.692	-0.006	92	4341484	20.0	19.6	
165 Benzo[g,h,i]perylene	276	16.145	16.145	0.000	99	4159295	20.0	18.9	
S 166 Isosafrole	162				0		20.0	19.9	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Reagents:

MSS_RV8270_7_00045 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:41 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2353.D

Injection Date: 23-Jun-2025 21:46:30 Instrument ID: HP18831 Operator ID: IR93211

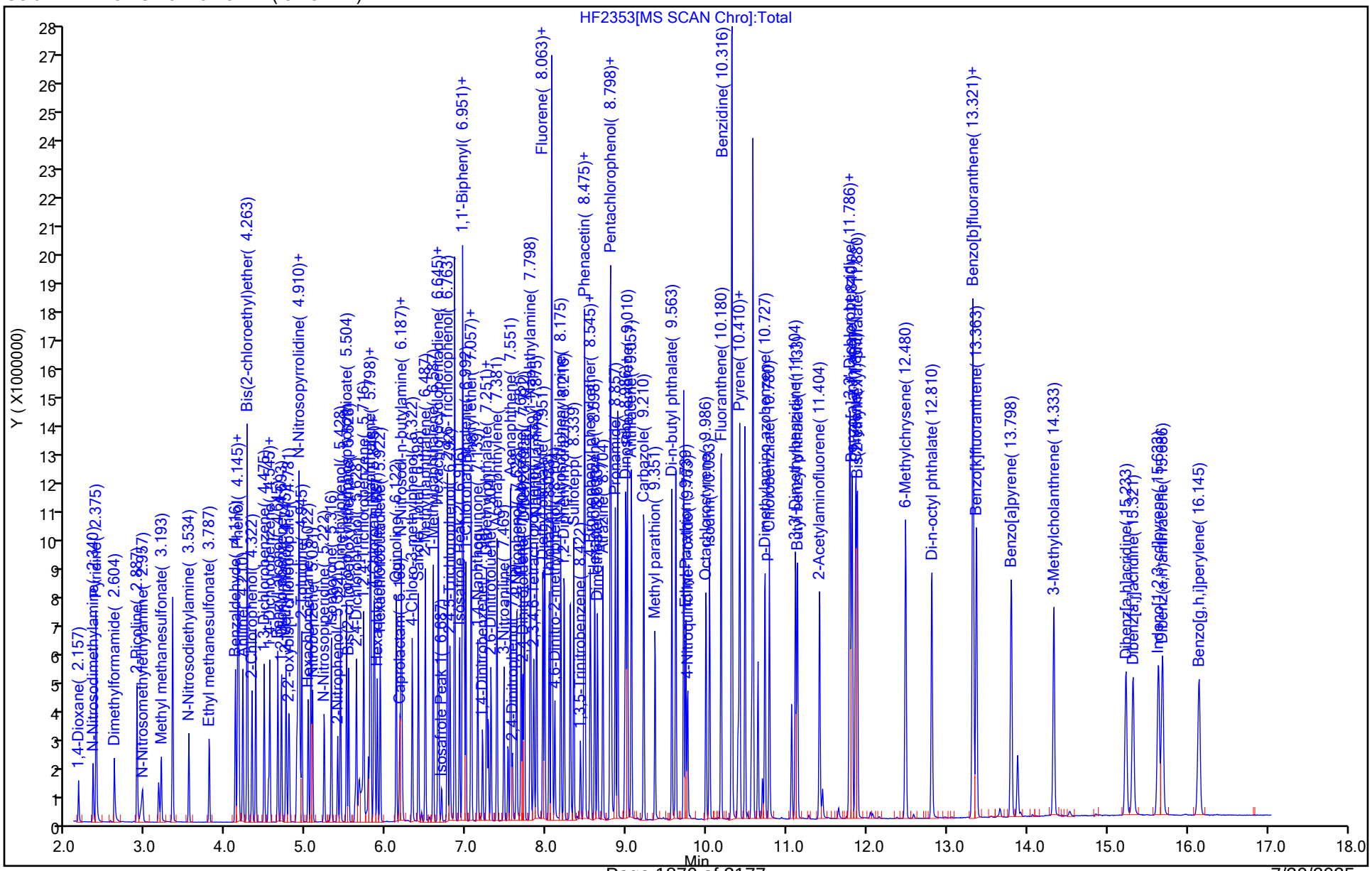
Lims ID: IC L7 Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2354.D
Lims ID: IC L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 23-Jun-2025 22:08:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L5
Misc. Info.: 410-0151283-005
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:06:58 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:54:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	147229	7.50	7.22	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	93	251527	7.50	7.09	
3 Pyridine	79	2.381	2.381	0.000	92	805737	15.0	14.3	
4 Dimethylformamide	73	2.610	2.610	0.000	96	279222	7.50	7.21	
5 2-Picoline	93	2.887	2.887	0.000	96	422646	7.50	7.26	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	97	184807	7.50	7.02	
9 Methyl methanesulfonate	80	3.187	3.187	0.000	86	236155	7.50	7.21	
$ 10 2-Fluorophenol	112	3.328	3.328	0.000	95	686589	15.0	14.8	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	188735	7.50	7.25	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	207923	7.50	7.04	
15 Benzaldehyde	77	4.116	4.116	0.000	95	342544	7.50	6.91	
$ 16 Phenol-d5	99	4.146	4.146	0.000	99	974678	15.0	15.1	
17 Phenol	94	4.157	4.157	0.000	99	508564	7.50	7.38	
18 Aniline	93	4.210	4.210	0.000	97	628960	7.50	7.32	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	93	394176	7.50	7.05	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	375886	7.50	7.46	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	423624	7.50	7.37	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	95	194766	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	427656	7.50	7.16	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	264613	7.50	7.15	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	97	417506	7.50	7.39	
30 2-Methylphenol	108	4.746	4.746	0.000	98	362605	7.50	7.25	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	632593	7.50	6.87	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	89	227032	7.50	7.24	
36 4-Methylphenol	108	4.893	4.893	0.000	97	387743	7.50	7.49	
35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	75	339313	7.50	7.14	
34 Acetophenone	105	4.910	4.910	0.000	91	609866	7.50	7.25	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	89	302530	7.50	6.78	
38 2-Toluidine	106	4.940	4.940	0.000	96	654113	7.50	7.25	
40 Hexachloroethane	117	5.022	5.022	0.000	93	161132	7.50	6.69	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	90	864901	15.0	15.0	
42 Nitrobenzene	77	5.075	5.075	0.000	89	451687	7.50	7.23	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	82	214813	7.50	7.01	
45 Isophorone	82	5.310	5.310	0.000	99	880064	7.50	7.26	
46 2-Nitrophenol	139	5.393	5.393	0.000	96	150498	7.50	7.80	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	428421	7.50	7.56	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	234625	7.50	7.33	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	522874	7.50	6.97	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	335968	7.50	7.86	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	95	399893	7.50	7.32	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	99	810998	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	1218099	7.50	7.31	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	386943	7.50	7.31	
57 4-Chloroaniline	127	5.840	5.840	0.000	96	540926	7.50	7.43	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	335144	7.50	7.88	
59 Hexachloropropene	213	5.887	5.887	0.000	89	255609	7.50	7.56	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	238745	7.50	7.41	
62 Quinoline	129	6.122	6.122	0.000	96	875482	7.50	7.07	
63 Caprolactam	113	6.157	6.157	0.000	76	136408	7.50	7.50	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	93	331513	7.50	6.62	
39 p-Phenylene diamine	108	6.187	6.187	0.000	95	523144	7.50	7.63	
66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	380666	7.50	7.65	
67 Safrole, Total	162	6.398	6.398	0.000	91	346128	7.50	7.25	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	784363	7.50	7.24	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	92	822671	7.50	7.31	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	95	292351	7.50	7.74	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	441121	7.50	7.35	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	92	64395	1.20	1.13	
74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	74	236466	7.50	7.82	
75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	96	318375	7.50	8.10	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	2034970	15.0	14.9	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	93	359004	6.30	6.24	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	1111156	7.50	7.47	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	93	912754	7.50	7.45	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	790991	7.50	7.32	
81 Phenyl ether	170	7.057	7.057	0.000	89	639468	7.50	7.50	
82 2-Nitroaniline	138	7.063	7.063	0.000	81	265671	7.50	8.10	
84 1,4-Naphthoquinone	158	7.140	7.140	0.000	89	367944	7.50	7.79	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	95	107290	7.50	7.80	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	1062402	7.50	7.55	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	84	134939	7.50	7.60	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	210968	7.50	7.81	
89 Acenaphthylene	152	7.381	7.381	0.000	98	1418234	7.50	7.64	
90 3-Nitroaniline	138	7.463	7.463	0.000	93	247032	7.50	8.05	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	505071	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	913101	7.50	7.27	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	109528	17.5	17.8	
95 4-Nitrophenol	109	7.622	7.622	0.000	95	244507	15.0	14.6	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	434737	7.50	7.50	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	94	281337	7.50	7.89	
97 Dibenzofuran	168	7.722	7.722	0.000	97	1304151	7.50	7.40	
99 1-Naphthylamine	143	7.792	7.792	0.000	99	960212	7.50	7.75	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	269144	7.50	8.00	
103 2-Naphthylamine	143	7.875	7.875	0.000	97	1025961	7.50	7.59	
104 Diethyl phthalate	149	7.951	7.951	0.000	99	1074139	7.50	7.58	
106 Thionazin	107	8.028	8.028	0.000	80	168070	7.50	7.65	
105 Fluorene	166	8.057	8.057	0.000	93	1110936	7.50	7.64	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	86	530439	7.50	7.41	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	74	289068	7.50	8.04	
109 4-Nitroaniline	138	8.063	8.063	0.000	81	283990	7.50	8.29	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	85	150496	15.0	15.8	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	783377	6.38	6.43	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	1130990	7.50	7.47	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	94	328674	15.0	15.5	
114 Sulfotepp	97	8.339	8.339	0.000	81	177206	7.50	7.15	
172 1,3,5-Trinitrobenzene	213	8.416	8.416	0.000	84	69186	7.50	7.64	
115 cis-Diallate	86	8.463	8.463	0.000	84	321735	5.55	5.51	
117 Phenacetin	108	8.469	8.469	0.000	83	549474	7.50	7.98	
116 Phorate	75	8.469	8.469	0.000	94	698544	7.50	7.67	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	65	341570	7.50	7.51	
119 trans-Diallate	86	8.551	8.551	0.000	89	112967	1.95	1.72	
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	393401	7.50	7.23	
121 Dimethoate	87	8.628	8.628	0.000	97	415753	7.50	7.24	
122 Atrazine	200	8.698	8.698	0.000	93	337134	7.50	7.80	
123 Pentachlorophenol	266	8.792	8.792	0.000	94	345332	15.0	14.1	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	1341972	7.50	7.70	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	89	144170	7.50	7.64	
126 Pronamide	173	8.857	8.857	0.000	91	522383	7.50	7.54	
128 Dinoseb	211	8.975	8.975	0.000	97	108701	7.50	7.09	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	98	1024693	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	687870	7.50	7.50	
129 Phenanthrene	178	9.004	9.004	0.000	97	1674561	7.50	7.33	
S 56 Dinitrotoluene	165				0		15.0	15.7	
130 Anthracene	178	9.057	9.057	0.000	97	1714886	7.50	7.66	
131 Carbazole	167	9.210	9.210	0.000	96	1601786	7.50	7.64	
132 Methyl parathion	109	9.351	9.351	0.000	95	311287	7.50	7.89	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	1768576	7.50	7.87	
S 65 Diallate	86				0		7.50	7.23	
134 Ethyl Parathion	109	9.733	9.733	0.000	85	183471	7.50	7.41	
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	127576	7.50	7.65	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	171121	7.50	7.61	
137 Isodrin	193	10.033	10.033	0.000	94	208964	7.50	7.30	
138 Fluoranthene	202	10.175	10.175	0.000	97	1969616	7.50	7.73	
139 Benzidine	184	10.310	10.310	0.000	99	4510814	22.5	26.0	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1183610	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	98	2084806	7.50	7.19	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	100	2917832	15.0	15.2	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	94	417126	7.50	7.94	
144 Chlorobenzilate	139	10.780	10.780	0.000	92	561543	7.50	7.64	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	1399618	7.50	8.02	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	798424	7.50	7.50	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	93	679681	7.50	6.86	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	76	862819	7.50	7.92	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	449969	7.50	8.02	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	2182025	7.50	7.73	
151 Chrysene	228	11.857	11.857	0.000	96	2054199	7.50	7.50	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	1242798	7.50	7.65	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	1462108	7.50	7.46	
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	1822785	7.50	6.96	
156 7,12-Dimethylbenz(a)anthracene	256	13.316	13.316	0.000	89	955774	7.50	7.47	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	97	2244855	7.50	7.48	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	99	2232686	7.50	7.49	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	76	1999673	7.50	7.50	
* 159 Perylene-d12	264	13.874	13.874	0.000	99	1208021	5.00	5.00	
160 3-Methylcholanthrene	268	14.327	14.327	0.000	90	1019493	7.50	7.54	
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	1579617	7.50	7.71	
162 Dibenz[a,j]acridine	279	15.310	15.310	0.000	96	1667599	7.50	7.96	
163 Indeno[1,2,3-cd]pyrene	276	15.633	15.633	0.000	99	1915191	7.50	7.84	
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	92	1890072	7.50	7.68	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	98	1854676	7.50	7.57	
S 166 Isosafrole	162				0		7.50	7.37	

QC Flag Legend

Processing Flags

Reagents:

MSS_RV8270_5_00054 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:06:59 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2354.D

Injection Date: 23-Jun-2025 22:08:30 Instrument ID: HP18831 Operator ID: IR93211

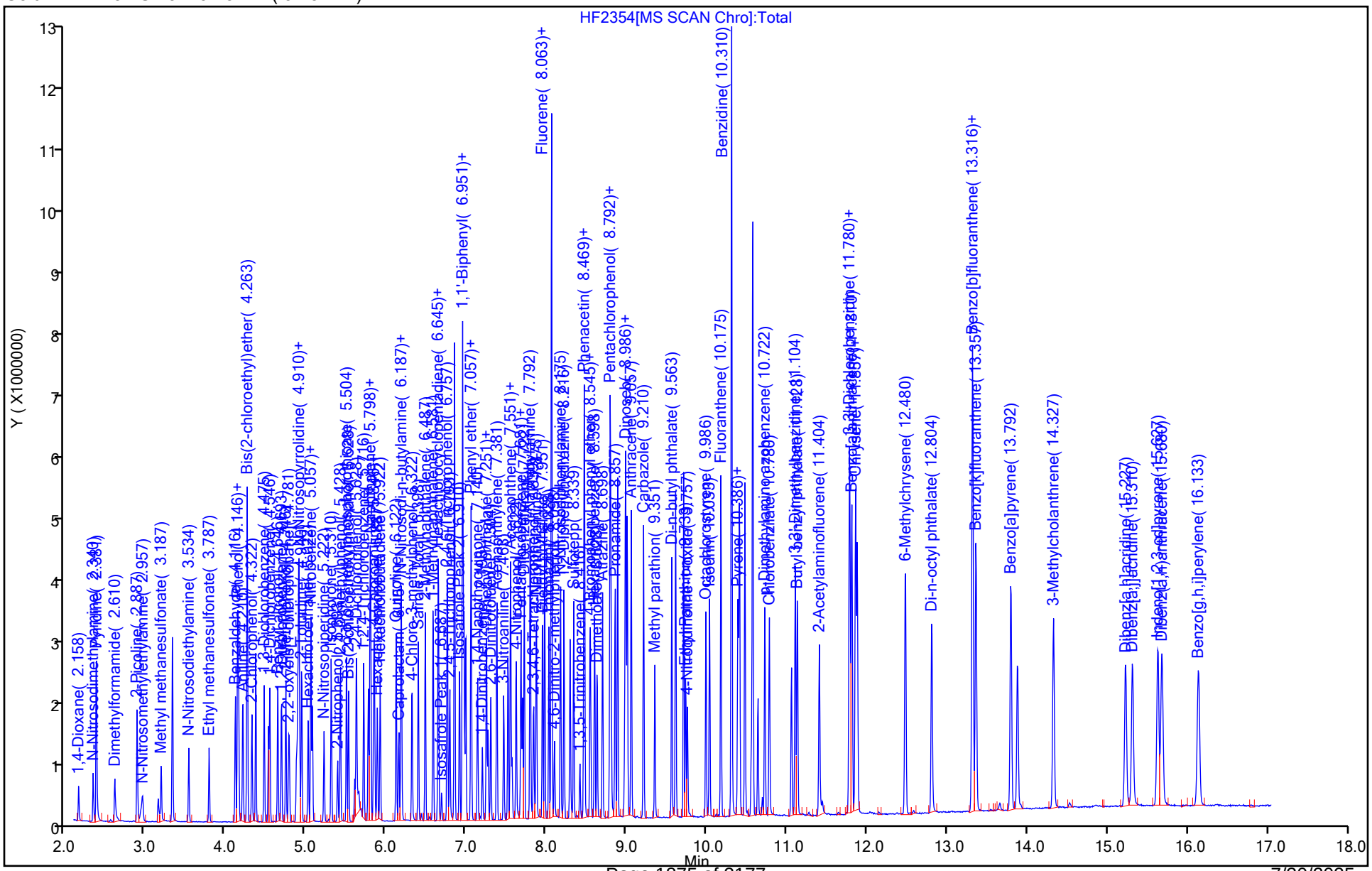
Lims ID: IC L5 Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2355.D
Lims ID: IC L4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 23-Jun-2025 22:30:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L4
Misc. Info.: 410-0151283-006
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:07:17 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:55:30

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.157	2.158	-0.001	98	77256	3.75	3.92	
	2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	92	124190	3.75	3.63	
	3 Pyridine	79	2.381	2.381	0.000	90	402439	7.50	7.39	
	4 Dimethylformamide	73	2.616	2.610	0.006	97	133612	3.75	3.58	
	5 2-Picoline	93	2.887	2.887	0.000	95	210556	3.75	3.75	
	6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	97	94202	3.75	3.71	
	9 Methyl methanesulfonate	80	3.187	3.187	0.000	86	120800	3.75	3.82	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	96	331662	7.50	7.40	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	93	91571	3.75	3.65	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	106357	3.75	3.73	
	15 Benzaldehyde	77	4.116	4.116	0.000	96	173112	3.75	3.62	
$	16 Phenol-d5	99	4.145	4.146	-0.001	98	472407	7.50	7.57	
	17 Phenol	94	4.157	4.157	0.000	99	247807	3.75	3.73	
	18 Aniline	93	4.210	4.210	0.000	97	313471	3.75	3.78	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	93	198494	3.75	3.68	
	20 2-Chlorophenol	128	4.322	4.322	0.000	98	183434	3.75	3.77	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	98	210622	3.75	3.80	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	187959	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.545	4.546	-0.001	94	212833	3.75	3.69	
	26 Benzyl alcohol	108	4.645	4.646	-0.001	92	134819	3.75	3.77	
	27 1,2-Dichlorobenzene	146	4.692	4.693	-0.001	96	207505	3.75	3.80	
	30 2-Methylphenol	108	4.745	4.746	-0.001	98	175562	3.75	3.64	
	32 2,2'-oxybis[1-chloropropane]	45	4.787	4.781	0.006	93	323837	3.75	3.64	
	33 N-Nitrosopyrrolidine	100	4.875	4.881	-0.006	89	118219	3.75	3.91	
	36 4-Methylphenol	108	4.892	4.893	-0.001	97	189955	3.75	3.80	
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	90	169083	3.75	3.69	
	34 Acetophenone	105	4.910	4.910	0.000	96	314042	3.75	3.87	
	37 N-Nitrosomorpholine	56	4.916	4.922	-0.006	93	158493	3.75	3.68	
	38 2-Toluidine	106	4.939	4.940	-0.001	95	337460	3.75	3.88	
	40 Hexachloroethane	117	5.022	5.022	0.000	93	81621	3.75	3.51	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	428433	7.50	7.47	
42 Nitrobenzene	77	5.075	5.075	0.000	89	225354	3.75	3.64	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	83	112036	3.75	3.69	
45 Isophorone	82	5.310	5.310	0.000	99	449152	3.75	3.74	
46 2-Nitrophenol	139	5.392	5.393	-0.001	96	68424	3.75	3.58	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	212861	3.75	3.79	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	121909	3.75	3.84	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	99	281336	3.75	3.78	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	164054	3.75	3.87	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	93	201833	3.75	3.73	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	99	804213	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	98	614573	3.75	3.72	
29 Alpha-Terpineol	59	5.804	5.804	0.000	94	197265	3.75	3.76	
57 4-Chloroaniline	127	5.845	5.840	0.005	96	275803	3.75	3.82	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	96	165151	3.75	3.91	
59 Hexachloropropene	213	5.886	5.887	-0.001	89	130021	3.75	3.88	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	120883	3.75	3.79	
62 Quinoline	129	6.122	6.122	0.000	95	452068	3.75	3.68	
63 Caprolactam	113	6.151	6.157	-0.006	78	68236	3.75	3.78	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	94	178123	3.75	3.59	
39 p-Phenylene diamine	108	6.186	6.187	-0.001	95	269610	3.75	3.97	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	97	190905	3.75	3.87	
67 Safrole, Total	162	6.398	6.398	0.000	92	179715	3.75	3.79	
68 2-Methylnaphthalene	142	6.486	6.487	-0.001	93	408430	3.75	3.80	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	92	421133	3.75	3.77	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	96	139086	3.75	3.48	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	230832	3.75	3.63	
73 Isosafrole Peak 1	162	6.686	6.687	-0.001	91	32287	0.6000	0.5359	
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	72	114383	3.75	3.57	
75 2,4,5-Trichlorophenol	196	6.792	6.793	0.000	95	153784	3.75	3.69	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	100	1082654	7.50	7.50	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	94	193791	3.15	3.18	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	94	589326	3.75	3.74	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	483958	3.75	3.73	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	99	417582	3.75	3.65	
81 Phenyl ether	170	7.057	7.057	0.000	89	321227	3.75	3.56	
82 2-Nitroaniline	138	7.057	7.063	-0.006	87	130228	3.75	3.75	
84 1,4-Naphthoquinone	158	7.139	7.140	-0.001	90	192113	3.75	3.84	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	91	50422	3.75	3.46	
86 Dimethyl phthalate	163	7.251	7.251	0.000	99	559154	3.75	3.75	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	64139	3.75	3.41	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	106778	3.75	3.73	
89 Acenaphthylene	152	7.381	7.381	-0.001	98	726192	3.75	3.70	
90 3-Nitroaniline	138	7.463	7.463	0.000	93	120336	3.75	3.70	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	534976	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	478726	3.75	3.60	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	65276	11.3	10.0	
95 4-Nitrophenol	109	7.616	7.622	-0.006	95	114937	7.50	6.50	
96 Pentachlorobenzene	250	7.680	7.681	-0.001	98	224299	3.75	3.65	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	94	139037	3.75	3.68	
97 Dibenzofuran	168	7.722	7.722	0.000	96	692757	3.75	3.71	
99 1-Naphthylamine	143	7.792	7.792	0.000	99	502846	3.75	3.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	122766	3.75	3.45	
103 2-Naphthylamine	143	7.875	7.875	0.000	96	534724	3.75	3.74	
104 Diethyl phthalate	149	7.945	7.951	-0.006	98	566882	3.75	3.78	
106 Thionazin	107	8.028	8.028	0.000	80	84409	3.75	3.63	
105 Fluorene	166	8.057	8.057	0.000	94	578757	3.75	3.76	
109 4-Nitroaniline	138	8.063	8.063	0.000	76	138980	3.75	3.83	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	86	283039	3.75	3.73	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	70	140725	3.75	3.69	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	86	66823	7.50	7.48	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	413391	3.19	3.24	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	584821	3.75	3.69	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	94	156472	7.50	6.98	
114 Sulfotepp	97	8.339	8.339	0.000	84	92058	3.75	3.54	
172 1,3,5-Trinitrobenzene	213	8.416	8.416	0.000	84	31903	3.75	3.79	
115 cis-Diallate	86	8.463	8.463	0.000	80	172570	2.78	2.82	
117 Phenacetin	108	8.469	8.469	0.000	89	272224	3.75	3.77	
116 Phorate	75	8.475	8.469	0.006	95	364156	3.75	3.82	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	65	183003	3.75	3.84	
119 trans-Diallate	86	8.551	8.551	0.000	89	64144	0.9750	0.9343	
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	210931	3.75	3.70	
121 Dimethoate	87	8.627	8.628	-0.001	95	204373	3.75	3.44	
122 Atrazine	200	8.698	8.698	0.000	92	177754	3.75	3.93	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	156405	7.50	6.61	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	699847	3.75	3.83	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	73949	3.75	3.74	
126 Pronamide	173	8.857	8.857	0.000	91	269348	3.75	3.71	
128 Dinoseb	211	8.975	8.975	0.000	96	51419	3.75	3.20	
* 127 Phenanthrene-d10	188	8.980	8.981	-0.001	98	1073930	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	368374	3.75	3.78	
129 Phenanthrene	178	9.004	9.004	0.000	98	883775	3.75	3.69	
S 56 Dinitrotoluene	165				0		7.50	7.41	
130 Anthracene	178	9.057	9.057	0.000	97	894538	3.75	3.81	
131 Carbazole	167	9.210	9.210	0.000	96	845002	3.75	3.84	
132 Methyl parathion	109	9.351	9.351	0.000	93	148653	3.75	3.59	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	894790	3.75	3.80	
S 65 Diallate	86				0		3.75	3.75	
134 Ethyl Parathion	109	9.733	9.733	0.000	84	93499	3.75	3.60	
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	86	56561	3.75	3.70	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	92489	3.75	3.92	
137 Isodrin	193	10.033	10.033	0.000	94	111159	3.75	3.71	
138 Fluoranthene	202	10.174	10.175	-0.001	97	1020166	3.75	3.82	
139 Benzidine	184	10.304	10.310	-0.006	99	2312455	11.3	12.9	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1225457	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	1089534	3.75	3.63	
$ 142 p-Terphenyl-d14	244	10.574	10.575	-0.001	100	1545822	7.50	7.77	
143 p-Dimethylamino azobenzene	225	10.727	10.722	0.005	94	203995	3.75	3.75	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	277948	3.75	3.65	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	689938	3.75	3.82	
146 Butyl benzyl phthalate	149	11.127	11.128	-0.001	98	388565	3.75	3.53	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	302071	3.75	2.95	
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	75	429071	3.75	3.80	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	231227	3.75	3.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	1120512	3.75	3.83	
151 Chrysene	228	11.857	11.857	0.000	96	1071039	3.75	3.78	
152 Bis(2-ethylhexyl) phthalate	149	11.874	11.875	-0.001	98	581497	3.75	3.46	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	748017	3.75	3.68	
154 Di-n-octyl phthalate	149	12.810	12.804	0.006	99	806115	3.75	3.41	
156 7,12-Dimethylbenz(a)anthracene	256	13.315	13.316	-0.001	89	482049	3.75	3.78	
155 Benzo[b]fluoranthene	252	13.315	13.316	-0.001	97	1127125	3.75	3.76	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	98	1121086	3.75	3.77	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	76	967715	3.75	3.64	
* 159 Perylene-d12	264	13.880	13.874	0.006	99	1205602	5.00	5.00	
160 3-Methylcholanthrene	268	14.327	14.327	0.000	91	503109	3.75	3.73	
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	90	766039	3.75	3.75	
162 Dibenz[a,j]acridine	279	15.309	15.310	-0.001	96	791875	3.75	3.79	
163 Indeno[1,2,3-cd]pyrene	276	15.627	15.633	-0.006	98	902084	3.75	3.70	M
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	91	926278	3.75	3.77	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	98	890156	3.75	3.64	
S 166 Isosafrole	162				0		3.75	3.72	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_4_00041 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:07:17 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2355.D

Injection Date: 23-Jun-2025 22:30:30 Instrument ID: HP18831 Operator ID: IR93211

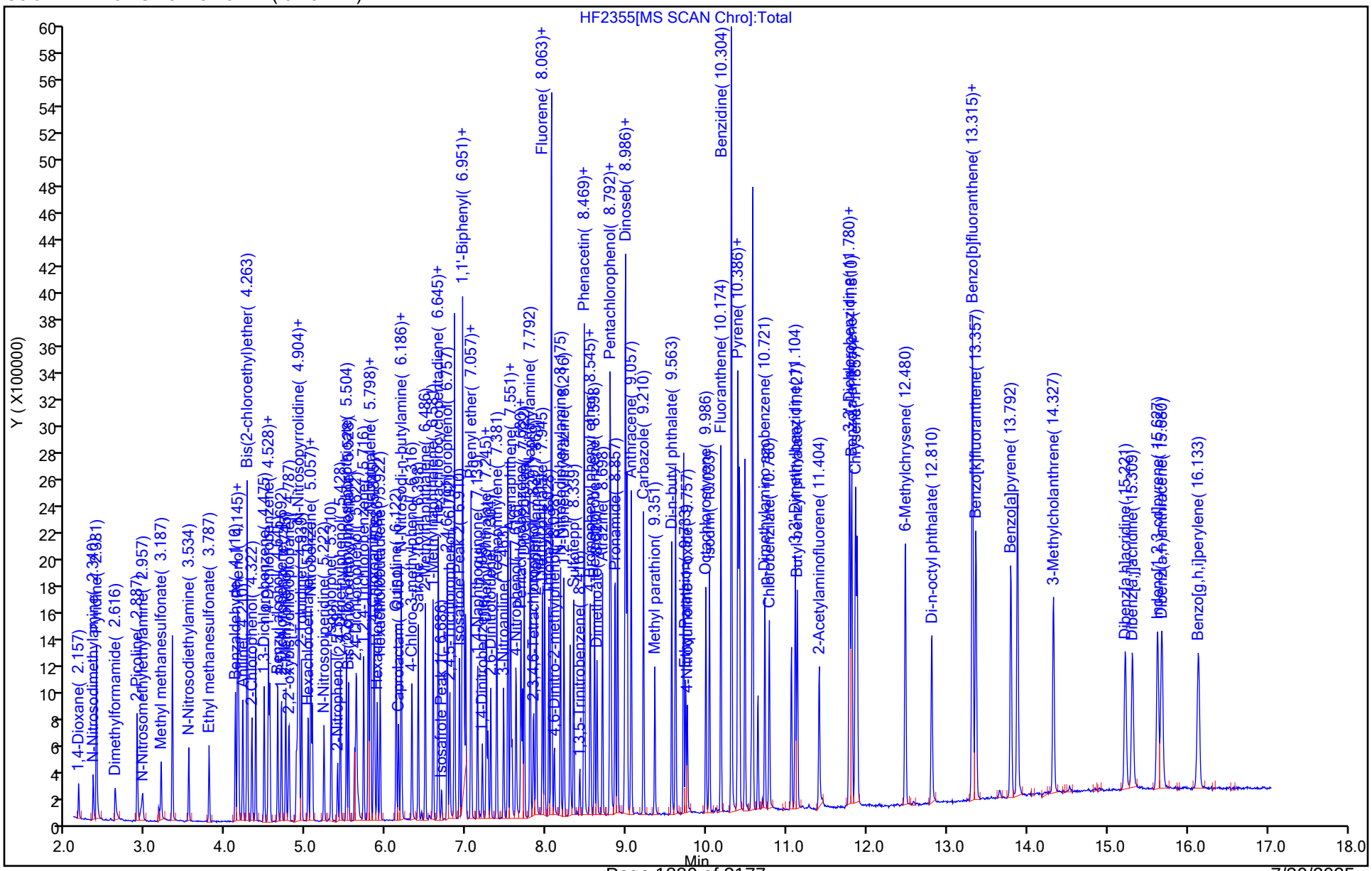
Lims ID: IC L4 Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 6

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

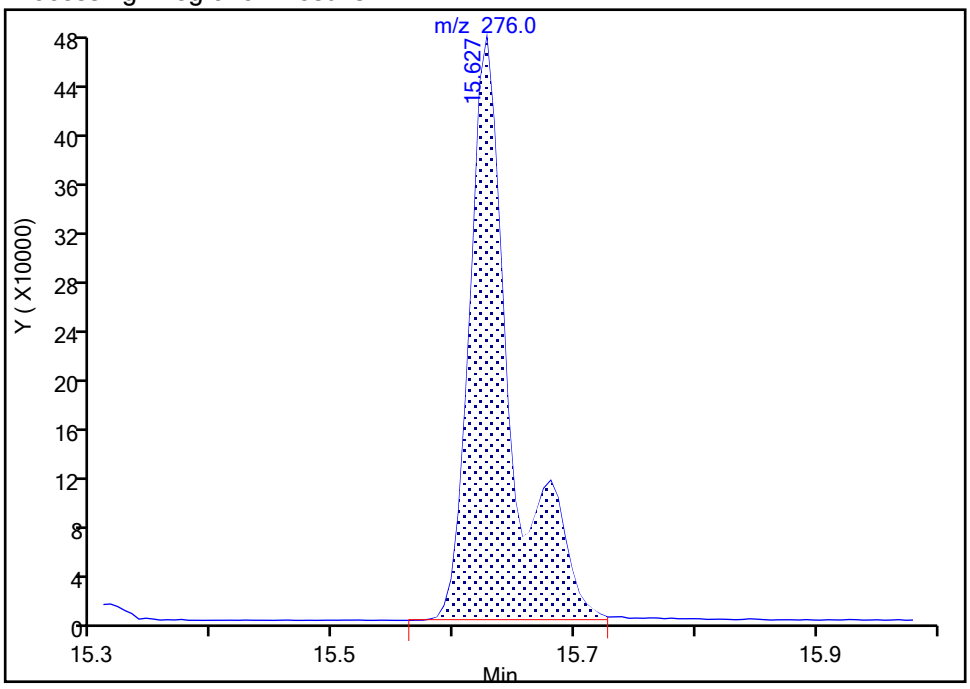
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2355.D				
Injection Date:	23-Jun-2025 22:30:30	Instrument ID:	HP18831		
Lims ID:	IC L4				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

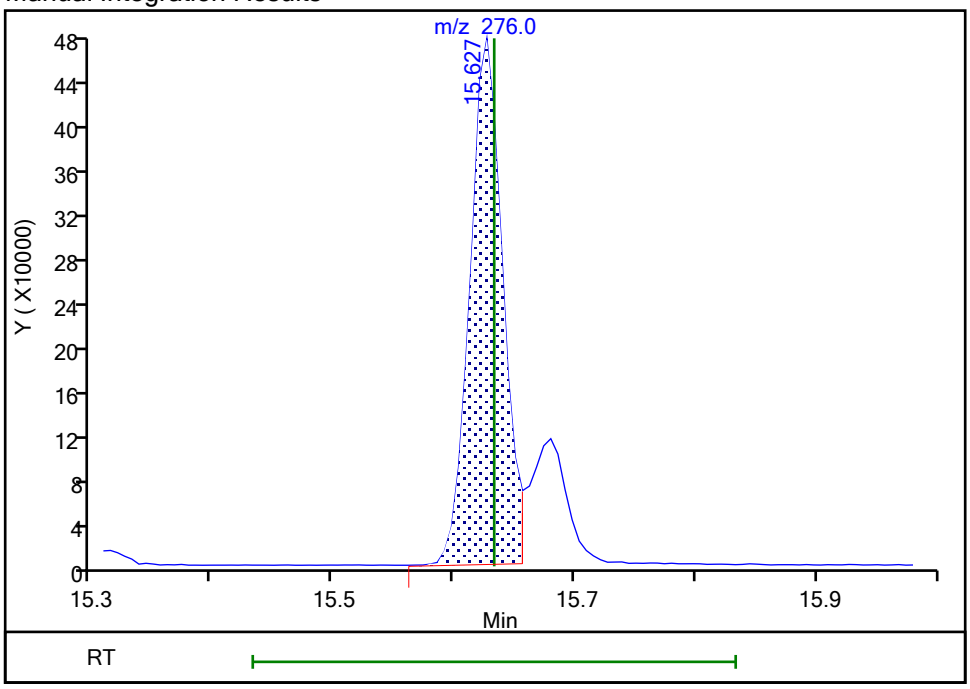
Processing Integration Results

RT: 15.63
Area: 1141428
Amount: 4.289430
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 902084
Amount: 3.701321
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:55:27 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2356.D
Lims ID: IC L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 23-Jun-2025 22:52:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L3
Misc. Info.: 410-0151283-007
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:07:35 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:56:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.157	2.158	-0.001	96	23990	1.25	1.34	
2 N-Nitrosodimethylamine	74	2.346	2.340	0.006	91	38981	1.25	1.25	
3 Pyridine	79	2.381	2.381	0.000	92	118449	2.50	2.39	
4 Dimethylformamide	73	2.628	2.610	0.018	89	35285	1.25	1.04	
5 2-Picoline	93	2.893	2.887	0.006	95	66815	1.25	1.31	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	96	32332	1.25	1.40	
9 Methyl methanesulfonate	80	3.187	3.187	0.000	86	35673	1.25	1.24	
$ 10 2-Fluorophenol	112	3.328	3.328	0.000	95	91242	2.50	2.24	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	93	30128	1.25	1.32	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	98	32794	1.25	1.26	
15 Benzaldehyde	77	4.116	4.116	0.000	95	56294	1.25	1.29	
$ 16 Phenol-d5	99	4.140	4.146	-0.006	97	133182	2.50	2.35	
17 Phenol	94	4.157	4.157	0.000	98	72766	1.25	1.20	
18 Aniline	93	4.210	4.210	0.000	95	85040	1.25	1.13	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	86	56628	1.25	1.15	
20 2-Chlorophenol	128	4.322	4.322	0.000	97	50103	1.25	1.13	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	96	62859	1.25	1.25	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	171031	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	96	66708	1.25	1.27	
26 Benzyl alcohol	108	4.646	4.646	0.000	92	36915	1.25	1.14	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	97	60707	1.25	1.22	
30 2-Methylphenol	108	4.746	4.746	0.000	97	52206	1.25	1.19	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	94	99143	1.25	1.23	
33 N-Nitrosopyrrolidine	100	4.875	4.881	-0.006	86	37002	1.25	1.34	
36 4-Methylphenol	108	4.893	4.893	0.000	92	53403	1.25	1.17	
35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	83	50842	1.25	1.22	
34 Acetophenone	105	4.910	4.910	0.000	96	87760	1.25	1.19	
37 N-Nitrosomorpholine	56	4.916	4.922	-0.006	93	49220	1.25	1.26	
38 2-Toluidine	106	4.940	4.940	0.000	96	99781	1.25	1.26	
40 Hexachloroethane	117	5.022	5.022	0.000	91	25121	1.25	1.19	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	124299	2.50	2.43	
42 Nitrobenzene	77	5.075	5.075	0.000	89	64046	1.25	1.16	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	85	33864	1.25	1.25	
45 Isophorone	82	5.310	5.310	0.000	99	129640	1.25	1.21	
46 2-Nitrophenol	139	5.393	5.393	0.000	95	17361	1.25	1.02	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	56474	1.25	1.13	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	36809	1.25	1.30	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	85229	1.25	1.28	
52 2,4-Dichlorophenol	162	5.628	5.628	0.000	96	44339	1.25	1.17	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	60352	1.25	1.25	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	718069	5.00	5.00	
55 Naphthalene	128	5.798	5.798	0.000	97	186396	1.25	1.26	
29 Alpha-Terpineol	59	5.804	5.804	0.000	92	57392	1.25	1.22	
57 4-Chloroaniline	127	5.840	5.840	0.000	95	80246	1.25	1.24	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	92	44194	1.25	1.17	
59 Hexachloropropene	213	5.887	5.887	0.000	89	39366	1.25	1.31	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	35494	1.25	1.24	
62 Quinoline	129	6.122	6.122	0.000	95	134753	1.25	1.23	
63 Caprolactam	113	6.151	6.157	-0.006	77	20661	1.25	1.28	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	93	54877	1.25	1.24	
39 p-Phenylene diamine	108	6.187	6.187	0.000	94	77645	1.25	1.28	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	97	52021	1.25	1.18	
67 Safrole, Total	162	6.398	6.398	0.000	92	54434	1.25	1.29	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	119528	1.25	1.25	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	93	125665	1.25	1.26	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	95	39964	1.25	1.12	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	96	69636	1.25	1.23	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	93	11288	0.2000	0.2108	
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	82	28806	1.25	1.01	
75 2,4,5-Trichlorophenol	196	6.792	6.793	0.000	94	39668	1.25	1.07	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	99	315621	2.50	2.46	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	94	57875	1.05	1.07	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	177295	1.25	1.27	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	94	146920	1.25	1.27	
80 1-Chloronaphthalene	162	6.992	6.992	0.000	98	128709	1.25	1.26	
81 Phenyl ether	170	7.057	7.057	0.000	89	99506	1.25	1.24	
82 2-Nitroaniline	138	7.063	7.063	0.000	82	35744	1.25	1.16	
84 1,4-Naphthoquinone	158	7.139	7.140	-0.001	90	57979	1.25	1.30	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	90	13395	1.25	1.03	
86 Dimethyl phthalate	163	7.245	7.251	-0.006	99	165079	1.25	1.25	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	84	17155	1.25	1.03	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	93	27811	1.25	1.09	
89 Acenaphthylene	152	7.375	7.381	-0.006	98	213913	1.25	1.22	
90 3-Nitroaniline	138	7.463	7.463	0.000	91	33227	1.25	1.15	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	475519	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	94	146625	1.25	1.24	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	79	24236	5.00	4.18	
95 4-Nitrophenol	109	7.616	7.622	-0.006	96	47745	3.75	3.04	
96 Pentachlorobenzene	250	7.681	7.681	0.000	98	70327	1.25	1.29	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	94	36626	1.25	1.09	
97 Dibenzofuran	168	7.722	7.722	0.000	97	209443	1.25	1.26	
99 1-Naphthylamine	143	7.792	7.792	0.000	99	149238	1.25	1.28	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.839	7.839	0.000	72	31687	1.25	1.00	
103 2-Naphthylamine	143	7.869	7.875	-0.006	97	159812	1.25	1.26	
104 Diethyl phthalate	149	7.945	7.951	-0.006	98	161383	1.25	1.21	
106 Thionazin	107	8.028	8.028	0.000	79	24918	1.25	1.21	
105 Fluorene	166	8.057	8.057	0.000	93	176425	1.25	1.29	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	87	87800	1.25	1.30	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	65	38911	1.25	1.15	
109 4-Nitroaniline	138	8.063	8.063	0.000	69	38056	1.25	1.18	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	26709	3.75	3.73	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	123647	1.06	1.06	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	179406	1.25	1.23	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	93	39563	2.50	1.98	
114 Sulfotepp	97	8.339	8.339	0.000	81	29157	1.25	1.23	
172 1,3,5-Trinitrobenzene	213	8.416	8.416	0.000	81	8014	1.25	1.25	
115 cis-Diallate	86	8.463	8.463	0.000	82	55040	0.9250	0.9820	
117 Phenacetin	108	8.469	8.469	0.000	89	74547	1.25	1.13	
116 Phorate	75	8.469	8.469	0.000	95	107716	1.25	1.23	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	53513	1.25	1.23	
119 trans-Diallate	86	8.551	8.551	0.000	90	20597	0.3250	0.3276	
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	65368	1.25	1.25	
121 Dimethoate	87	8.628	8.628	0.000	93	53191	1.25	1.04	
122 Atrazine	200	8.698	8.698	0.000	93	55529	1.25	1.34	
123 Pentachlorophenol	266	8.786	8.792	-0.006	93	36232	2.50	2.38	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	212318	1.25	1.27	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	20783	1.25	1.15	
126 Pronamide	173	8.851	8.857	-0.006	90	83624	1.25	1.26	
128 Dinoseb	211	8.975	8.975	0.000	95	14697	1.25	1.00	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	983596	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	112102	1.25	1.19	
129 Phenanthrene	178	9.004	9.004	0.000	97	276989	1.25	1.26	
S 56 Dinitrotoluene	165				0		2.50	2.18	
130 Anthracene	178	9.057	9.057	0.000	97	269901	1.25	1.26	
131 Carbazole	167	9.210	9.210	0.000	96	250578	1.25	1.24	
132 Methyl parathion	109	9.351	9.351	0.000	93	36838	1.25	0.9727	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	247096	1.25	1.15	
S 65 Diallate	86				0		1.25	1.31	
134 Ethyl Parathion	109	9.733	9.733	0.000	84	21317	1.25	0.8970	
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	80	12674	1.25	1.25	
136 Octachlorostyrene	308	9.986	9.986	0.000	92	25385	1.25	1.18	
137 Isodrin	193	10.033	10.033	0.000	94	34341	1.25	1.25	
138 Fluoranthene	202	10.175	10.175	0.000	97	303081	1.25	1.24	
139 Benzidine	184	10.304	10.310	-0.006	99	657011	3.75	4.02	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	98	1113161	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	98	331985	1.25	1.22	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	99	459253	2.50	2.54	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	95	56511	1.25	1.14	
144 Chlorobenzilate	139	10.780	10.780	0.000	89	78034	1.25	1.13	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	200885	1.25	1.22	
146 Butyl benzyl phthalate	149	11.127	11.128	-0.001	97	95886	1.25	0.9577	
147 2-Acetylaminofluorene	181	11.398	11.404	-0.006	94	69033	1.25	0.7412	
149 3,3'-Dichlorobenzidine	252	11.774	11.780	-0.006	75	119362	1.25	1.17	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	65333	1.25	1.24	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	97	315632	1.25	1.19	
151 Chrysene	228	11.857	11.857	0.000	96	312275	1.25	1.21	
152 Bis(2-ethylhexyl) phthalate	149	11.874	11.875	-0.001	97	145878	1.25	0.9553	
153 6-Methylchrysene	242	12.480	12.480	0.000	98	229057	1.25	1.24	
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	185781	1.25	1.30	
156 7,12-Dimethylbenz(a)anthracene	256	13.310	13.316	-0.006	90	138271	1.25	1.19	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	97	313930	1.25	1.15	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	98	338140	1.25	1.25	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	77	279528	1.25	1.15	
* 159 Perylene-d12	264	13.874	13.874	0.000	99	1097637	5.00	5.00	
160 3-Methylcholanthrene	268	14.327	14.327	0.000	91	146138	1.25	1.19	
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	90	223267	1.25	1.20	
162 Dibenz[a,j]acridine	279	15.310	15.310	0.000	96	221227	1.25	1.16	
163 Indeno[1,2,3-cd]pyrene	276	15.627	15.633	-0.006	98	261157	1.25	1.18	M
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	91	276407	1.25	1.24	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	99	277059	1.25	1.24	
S 166 Isosafrole	162				0		1.25	1.28	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_3_00042 Amount Added: 1.00 Units: mL

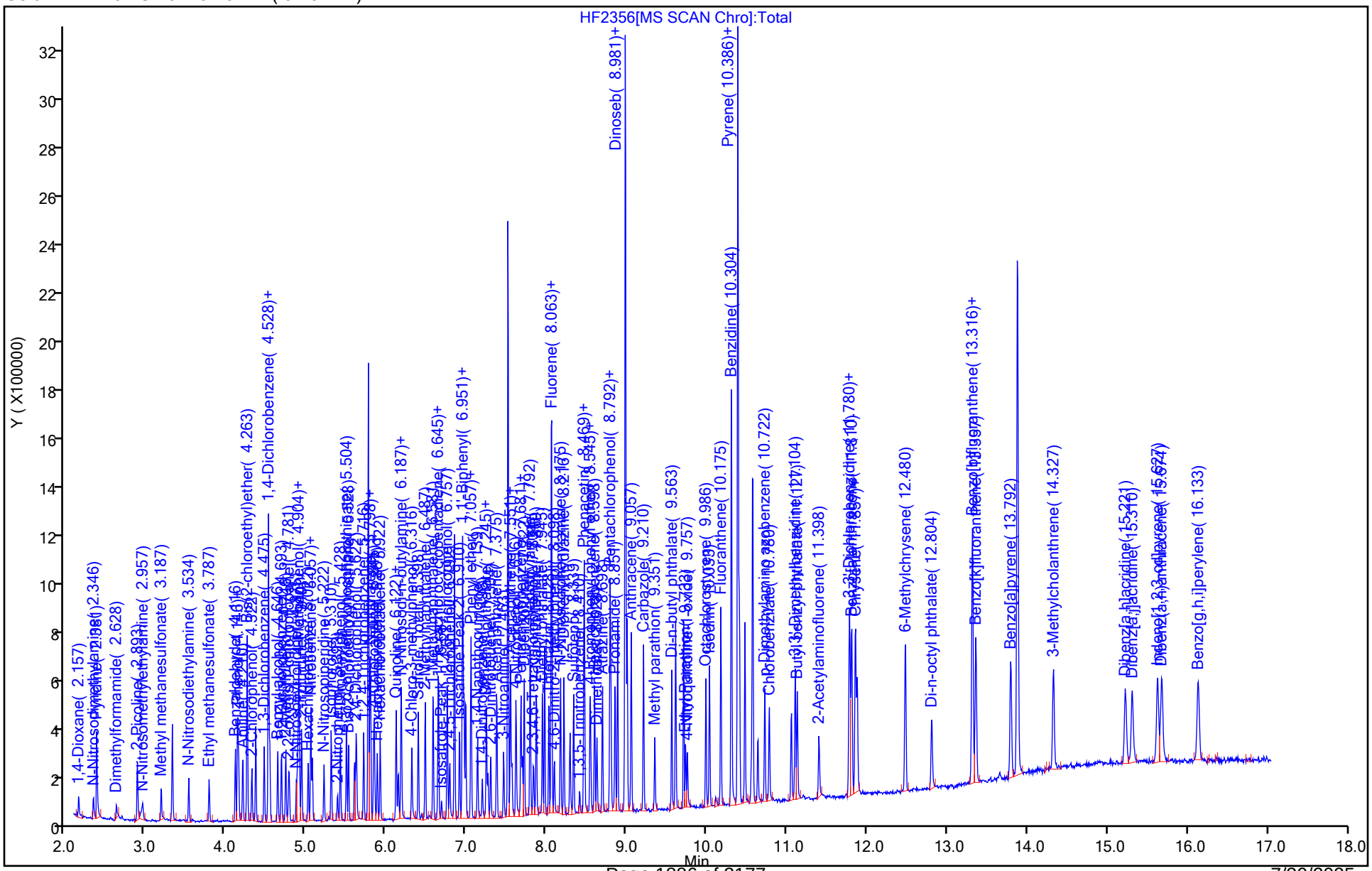
Report Date: 24-Jun-2025 10:07:36 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2356.D

Injection Date:	23-Jun-2025 22:52:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	IC L3			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

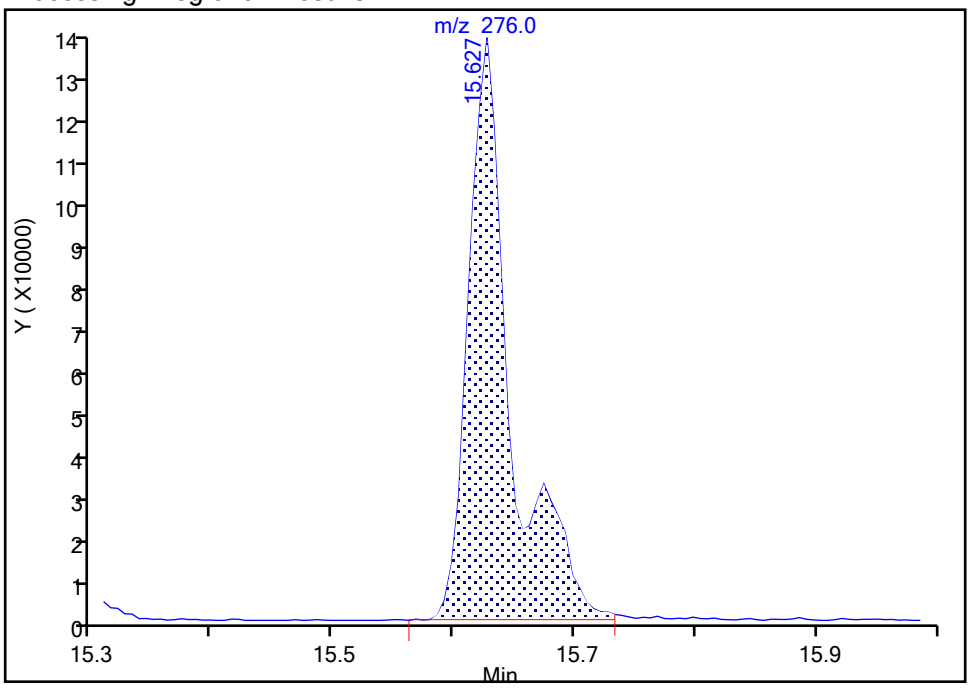
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2356.D				
Injection Date:	23-Jun-2025 22:52:30	Instrument ID:	HP18831		
Lims ID:	IC L3				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

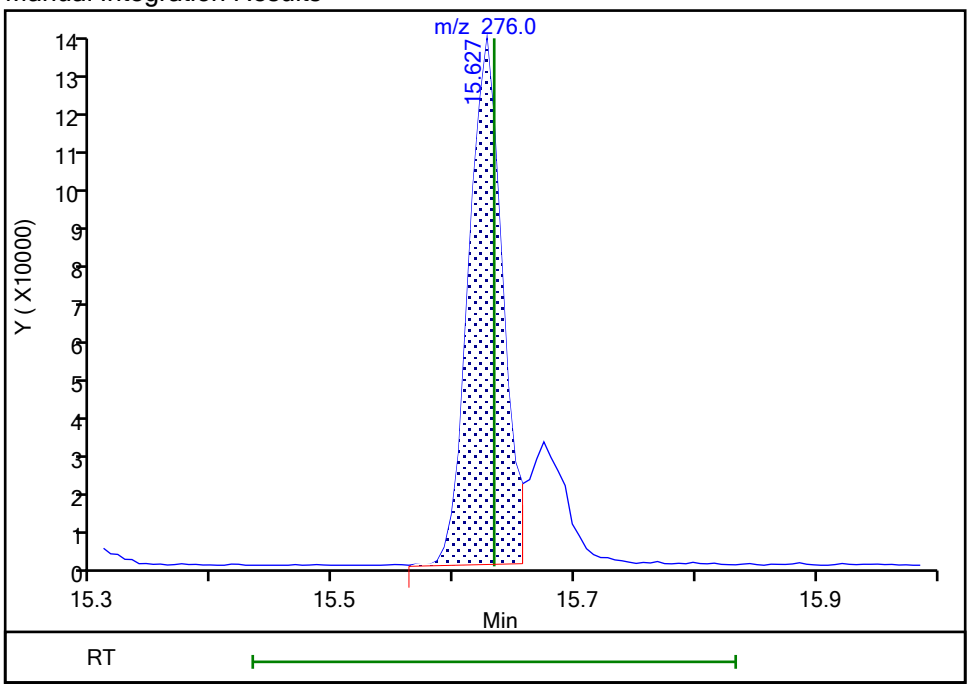
Processing Integration Results

RT: 15.63
Area: 328737
Amount: 1.398830
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 261157
Amount: 1.176946
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:56:17 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D
Lims ID: IC L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 23-Jun-2025 23:14:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L2
Misc. Info.: 410-0151283-008
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:07:53 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 07:57:30

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.158	2.158	0.000	95	9019	0.2500	0.4824	
	2 N-Nitrosodimethylamine	74	2.346	2.340	0.006	90	7710	0.2500	0.2371	
	3 Pyridine	79	2.393	2.381	0.012	95	25151	0.5000	0.4864	
	4 Dimethylformamide	73		2.610				ND	ND	U
	5 2-Picoline	93	2.893	2.887	0.006	94	11813	0.2500	0.2214	
	6 N-Nitrosomethylethylamine	88	2.963	2.957	0.006	89	9024	0.2500	0.3740	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	7333	0.2500	0.2443	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	91	20404	0.5000	0.4792	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	85	5101	0.2500	0.2139	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	95	7318	0.2500	0.2703	
	15 Benzaldehyde	77	4.116	4.116	0.000	92	12379	0.2500	0.2727	
$	16 Phenol-d5	99	4.140	4.146	-0.006	97	27372	0.5000	0.4620	
	17 Phenol	94	4.157	4.157	0.000	97	13838	0.2500	0.2193	
	18 Aniline	93	4.210	4.210	0.000	96	19944	0.2500	0.2534	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	90	13169	0.2500	0.2571	
	20 2-Chlorophenol	128	4.322	4.322	0.000	96	11032	0.2500	0.2391	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	13593	0.2500	0.2580	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	178456	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	91	13527	0.2500	0.2473	
	26 Benzyl alcohol	108	4.646	4.646	0.000	94	8421	0.2500	0.2483	a
	27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	94	12078	0.2500	0.2332	
	30 2-Methylphenol	108	4.746	4.746	0.000	95	10627	0.2500	0.2320	a
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	22566	0.2500	0.2674	
	33 N-Nitrosopyrrolidine	100	4.875	4.881	-0.006	84	6279	0.2500	0.2187	
	36 4-Methylphenol	108	4.893	4.893	0.000	97	11203	0.2500	0.2362	
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	81	11620	0.2500	0.2668	
	34 Acetophenone	105	4.910	4.910	0.000	91	19585	0.2500	0.2541	
	37 N-Nitrosomorpholine	56	4.916	4.922	-0.006	88	10958	0.2500	0.2679	
	38 2-Toluidine	106	4.940	4.940	0.000	97	18990	0.2500	0.2297	
	40 Hexachloroethane	117	5.022	5.022	0.000	87	6349	0.2500	0.2875	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	25284	0.5000	0.4899	
42 Nitrobenzene	77	5.075	5.075	0.000	88	16300	0.2500	0.2926	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	82	6979	0.2500	0.2552	
45 Isophorone	82	5.310	5.310	0.000	98	26565	0.2500	0.2457	
46 2-Nitrophenol	139	5.393	5.393	0.000	92	3808	0.2500	0.2212	
48 2,4-Dimethylphenol	107	5.428	5.428	0.000	94	11809	0.2500	0.2335	
49 o,o',o''-Triethylphosphorothioat	198	5.499	5.504	-0.005	84	7166	0.2500	0.2510	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	94	17171	0.2500	0.2564	
52 2,4-Dichlorophenol	162	5.622	5.628	-0.006	93	8131	0.2500	0.2133	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	93	12288	0.2500	0.2522	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	723592	5.00	5.00	
55 Naphthalene	128	5.793	5.798	-0.005	96	39958	0.2500	0.2689	
29 Alpha-Terpineol	59	5.804	5.804	0.000	87	11249	0.2500	0.2382	
57 4-Chloroaniline	127	5.840	5.840	0.000	93	15400	0.2500	0.2370	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	96	7813	0.2500	0.2058	
59 Hexachloropropene	213	5.887	5.887	0.000	91	6292	0.2500	0.2085	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	94	7019	0.2500	0.2443	
62 Quinoline	129	6.122	6.122	0.000	96	31256	0.2500	0.2829	
63 Caprolactam	113	6.151	6.157	-0.006	77	3471	0.2500	0.2139	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	87	11193	0.2500	0.2505	
39 p-Phenylene diamine	108	6.193	6.187	0.006	89	13705	0.2500	0.2241	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	96	10756	0.2500	0.2424	
67 Safrole, Total	162	6.399	6.398	0.000	86	9486	0.2500	0.2226	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	95	25561	0.2500	0.2644	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	91	25427	0.2500	0.2532	
71 Hexachlorocyclopentadiene	237	6.646	6.645	0.001	91	7527	0.2500	0.2127	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	95	14632	0.2500	0.2602	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	62	2211	0.0400	0.0415	
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	76	5825	0.2500	0.2056	
75 2,4,5-Trichlorophenol	196	6.793	6.793	0.001	92	7115	0.2500	0.1933	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	99	67710	0.5000	0.5304	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	89	11076	0.2100	0.2055	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	94	34963	0.2500	0.2510	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	92	31531	0.2500	0.2750	M
80 1-Chloronaphthalene	162	6.987	6.992	-0.005	98	24682	0.2500	0.2438	Ma
81 Phenyl ether	170	7.057	7.057	0.000	89	21021	0.2500	0.2632	
82 2-Nitroaniline	138	7.063	7.063	0.000	75	7148	0.2500	0.2327	
84 1,4-Naphthoquinone	158	7.140	7.140	0.000	86	9449	0.2500	0.2138	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	92	2804	0.2500	0.2177	
86 Dimethyl phthalate	163	7.246	7.251	-0.005	98	33060	0.2500	0.2508	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	87	2940	0.2500	0.1769	
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	90	6155	0.2500	0.2434	
89 Acenaphthylene	152	7.375	7.381	-0.006	98	43137	0.2500	0.2483	
90 3-Nitroaniline	138	7.463	7.463	0.000	93	6312	0.2500	0.2197	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	472984	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	31410	0.2500	0.2671	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	77	11111	2.50	1.93	
95 4-Nitrophenol	109	7.616	7.622	-0.006	88	14954	1.50	0.9566	
96 Pentachlorobenzene	250	7.681	7.681	0.000	96	13835	0.2500	0.2548	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	89	7146	0.2500	0.2139	
97 Dibenzofuran	168	7.722	7.722	0.000	98	42755	0.2500	0.2589	
99 1-Naphthylamine	143	7.793	7.792	0.001	98	27214	0.2500	0.2344	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	5557	0.2500	0.1764	
103 2-Naphthylamine	143	7.869	7.875	-0.006	96	31259	0.2500	0.2471	
104 Diethyl phthalate	149	7.945	7.951	-0.006	97	32395	0.2500	0.2443	
106 Thionazin	107	8.028	8.028	0.000	75	4973	0.2500	0.2418	
105 Fluorene	166	8.057	8.057	0.000	90	35097	0.2500	0.2579	
107 N-Nitro-o-toluidine	152	8.057	8.063	-0.006	57	6551	0.2500	0.1945	
109 4-Nitroaniline	138	8.063	8.063	0.000	57	6365	0.2500	0.1984	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	75	17916	0.2500	0.2672	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	84	9343	1.50	1.78	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	61	24179	0.2125	0.2095	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	38157	0.2500	0.2661	
$ 113 2,4,6-Tribromophenol	330	8.293	8.292	0.000	92	6143	0.5000	0.3098	
114 Sulfotepp	97	8.334	8.339	-0.005	80	6334	0.2500	0.2698	
172 1,3,5-Trinitrobenzene	213	8.410	8.416	-0.006	82	1153	0.2500	0.3500	
115 cis-Diallate	86	8.463	8.463	0.000	76	9714	0.1850	0.1756	
117 Phenacetin	108	8.469	8.469	0.000	74	12372	0.2500	0.1897	
116 Phorate	75	8.469	8.469	0.000	91	18448	0.2500	0.2139	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	67	10090	0.2500	0.2343	
119 trans-Diallate	86	8.551	8.551	0.000	78	4377	0.0650	0.0705	
120 Hexachlorobenzene	284	8.598	8.598	0.000	94	13060	0.2500	0.2532	
121 Dimethoate	87	8.628	8.628	0.000	92	8185	0.2500	0.2407	
122 Atrazine	200	8.698	8.698	0.000	91	8277	0.2500	0.2022	
123 Pentachlorophenol	266	8.787	8.792	-0.005	90	15401	1.25	1.57	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	38013	0.2500	0.2302	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	82	4294	0.2500	0.2403	
126 Pronamide	173	8.851	8.857	-0.006	90	14673	0.2500	0.2236	
128 Dinoseb	211	8.969	8.975	-0.006	61	2783	0.2500	0.1915	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	98	970825	5.00	5.00	
70 Disulfoton	88	8.987	8.986	0.001	72	29074	0.2500	0.2375	
129 Phenanthrene	178	9.004	9.004	0.000	97	56477	0.2500	0.2610	
S 56 Dinitrotoluene	165				0		0.5000	0.4573	
130 Anthracene	178	9.057	9.057	0.000	97	50495	0.2500	0.2379	
131 Carbazole	167	9.210	9.210	0.000	96	46717	0.2500	0.2351	
132 Methyl parathion	109	9.351	9.351	0.000	86	6894	0.2500	0.1844	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	99	47795	0.2500	0.2246	
S 65 Diallate	86				0		0.2500	0.2461	
134 Ethyl Parathion	109	9.734	9.733	0.001	81	3806	0.2500	0.1623	
135 4-Nitroquinoline-1-oxide	190	9.751	9.757	-0.006	75	2275	0.2500	0.5662	
136 Octachlorostyrene	308	9.987	9.986	0.000	89	5572	0.2500	0.2615	
137 Isodrin	193	10.034	10.033	0.001	89	7672	0.2500	0.2831	
138 Fluoranthene	202	10.175	10.175	0.000	96	57188	0.2500	0.2368	
139 Benzidine	184	10.304	10.310	-0.006	99	102470	0.7500	0.6647	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1050696	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	97	67503	0.2500	0.2621	
$ 142 p-Terphenyl-d14	244	10.569	10.575	-0.006	100	86085	0.5000	0.5044	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	92	10641	0.2500	0.2283	
144 Chlorobenzilate	139	10.775	10.780	-0.005	87	12609	0.2500	0.1933	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	98	33626	0.2500	0.2171	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	96	16370	0.2500	0.1732	
147 2-Acetylaminofluorene	181	11.398	11.404	-0.006	85	10364	0.2500	0.1179	
149 3,3'-Dichlorobenzidine	252	11.775	11.780	-0.005	76	21338	0.2500	0.2207	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	89	9614	0.2500	0.1930	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	97	58953	0.2500	0.2352	
151 Chrysene	228	11.857	11.857	0.000	96	61122	0.2500	0.2514	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	94	24353	0.2500	0.1690	
153 6-Methylchrysene	242	12.475	12.480	-0.005	97	42033	0.2500	0.2415	
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	98	31070	0.2500	0.7086	
156 7,12-Dimethylbenz(a)anthracene	256	13.310	13.316	-0.006	70	24537	0.2500	0.2217	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	97	59875	0.2500	0.2305	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	99	59786	0.2500	0.2317	
158 Benzo[a]pyrene	252	13.792	13.792	0.000	75	54966	0.2500	0.2382	
* 159 Perylene-d12	264	13.880	13.874	0.006	99	1045531	5.00	5.00	
160 3-Methylcholanthrene	268	14.322	14.327	-0.005	88	26613	0.2500	0.2273	
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	89	38937	0.2500	0.2196	
162 Dibenz[a,j]acridine	279	15.304	15.310	-0.006	95	39468	0.2500	0.2177	
163 Indeno[1,2,3-cd]pyrene	276	15.621	15.633	-0.012	98	45404	0.2500	0.2148	
164 Dibenz(a,h)anthracene	278	15.674	15.680	-0.006	92	48997	0.2500	0.2299	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	98	51619	0.2500	0.2434	
S 166 Isosafrole	162				0		0.2500	0.2470	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSS_RV8270_2_00044 Amount Added: 1.00 Units: mL

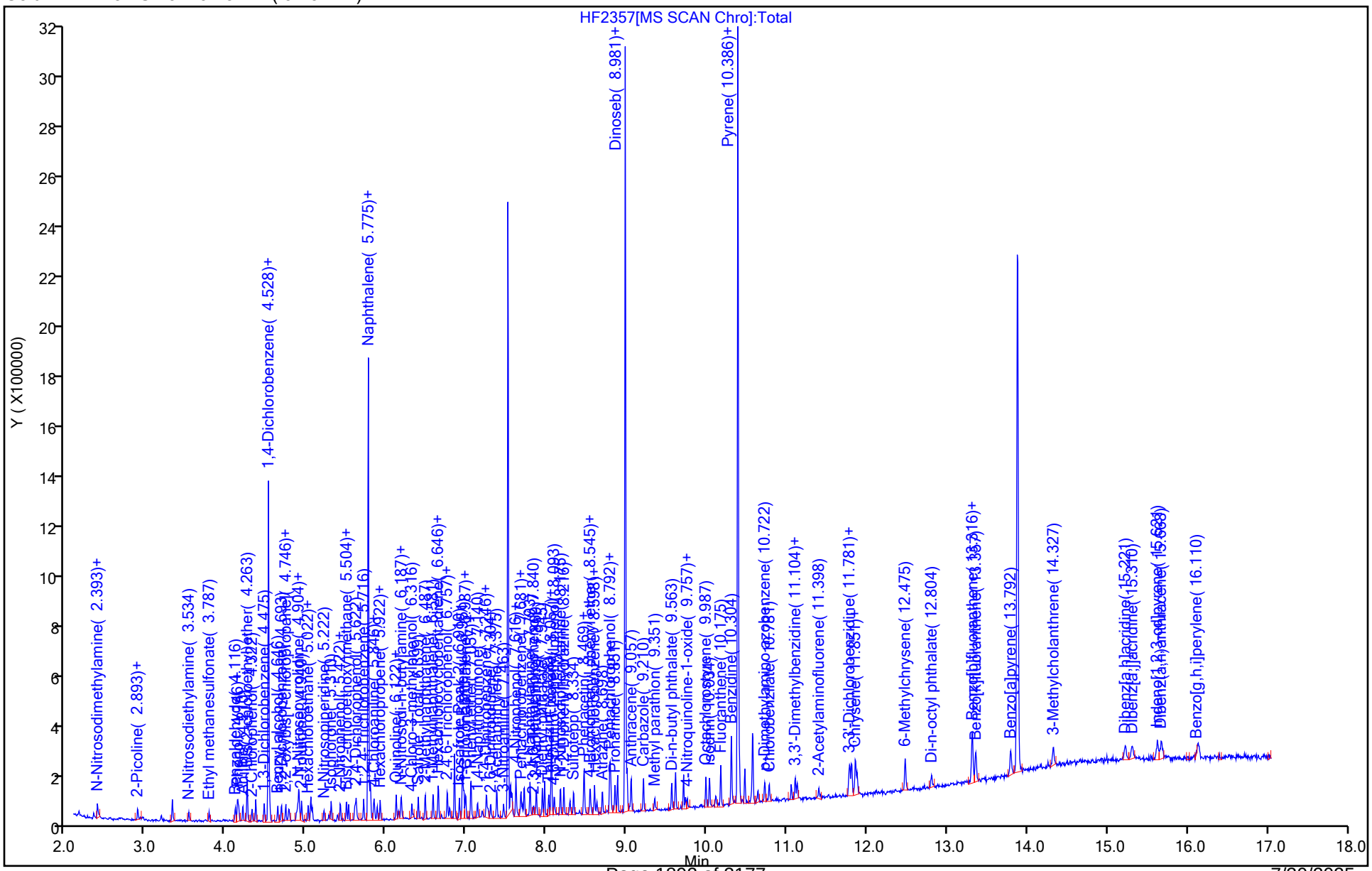
Report Date: 24-Jun-2025 10:07:54 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D

Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	IC L2			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

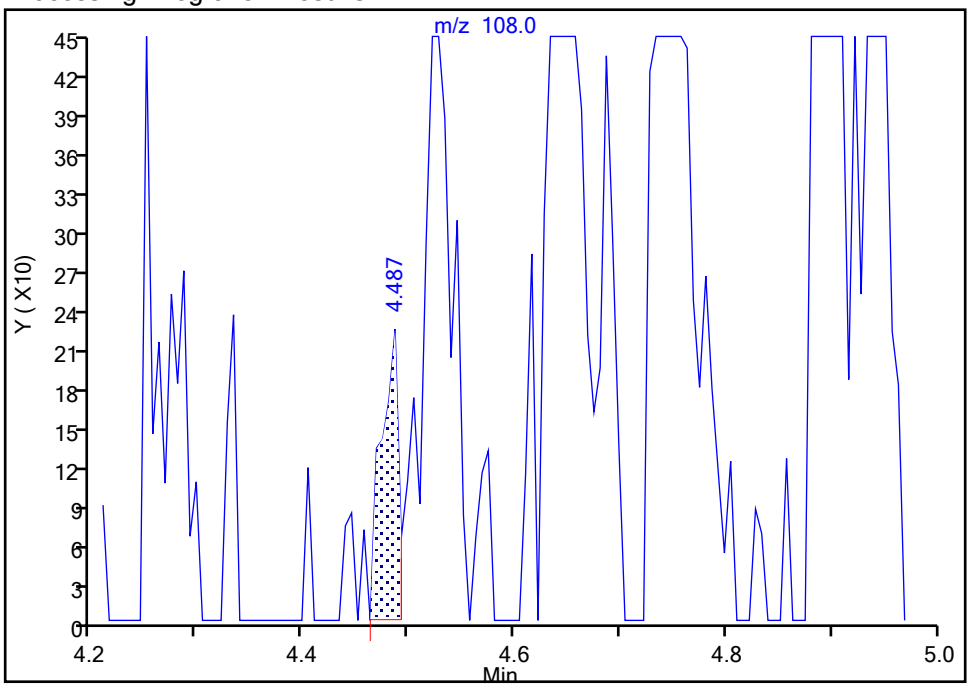
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

26 Benzyl alcohol, CAS: 100-51-6

Signal: 1

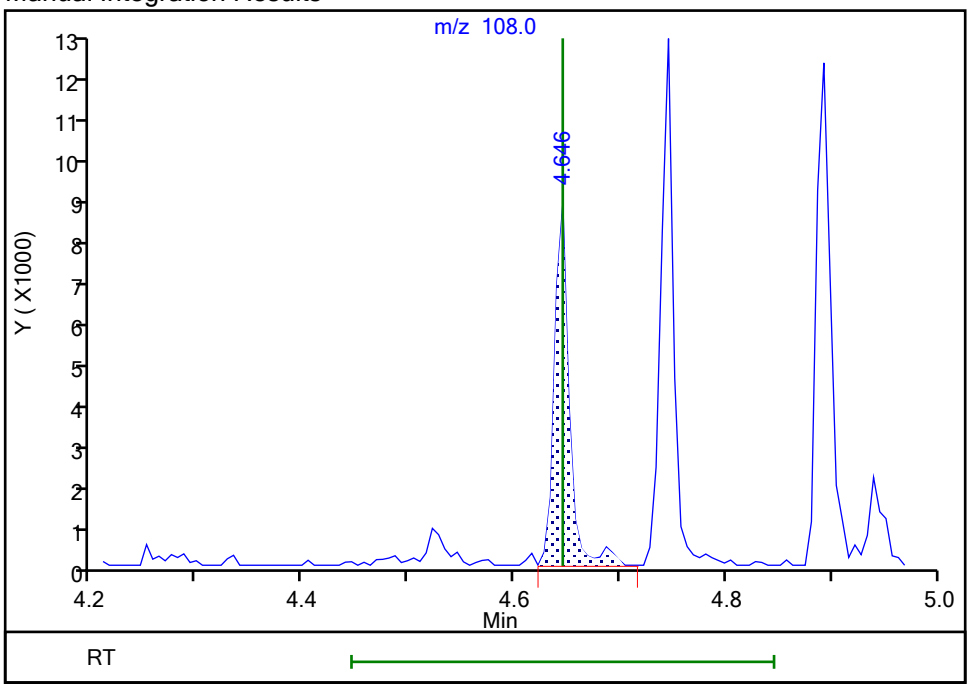
Processing Integration Results

RT: 4.49
Area: 247
Amount: 0.008282
Amount Units: ug/ml



Manual Integration Results

RT: 4.65
Area: 8421
Amount: 0.248323
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:56:43 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

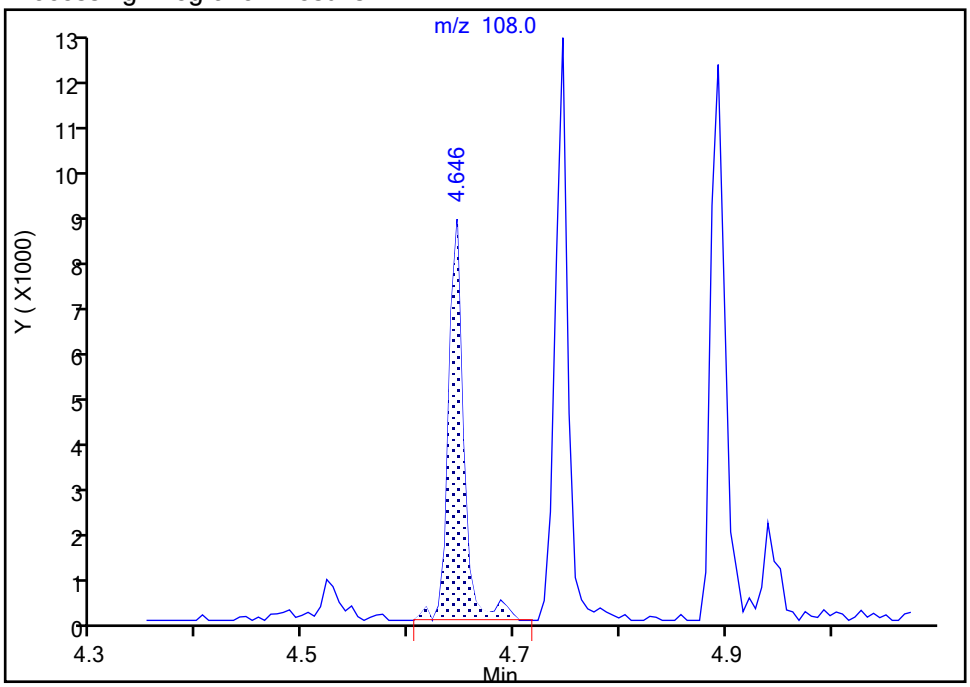
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 2-Methylphenol, CAS: 95-48-7

Signal: 1

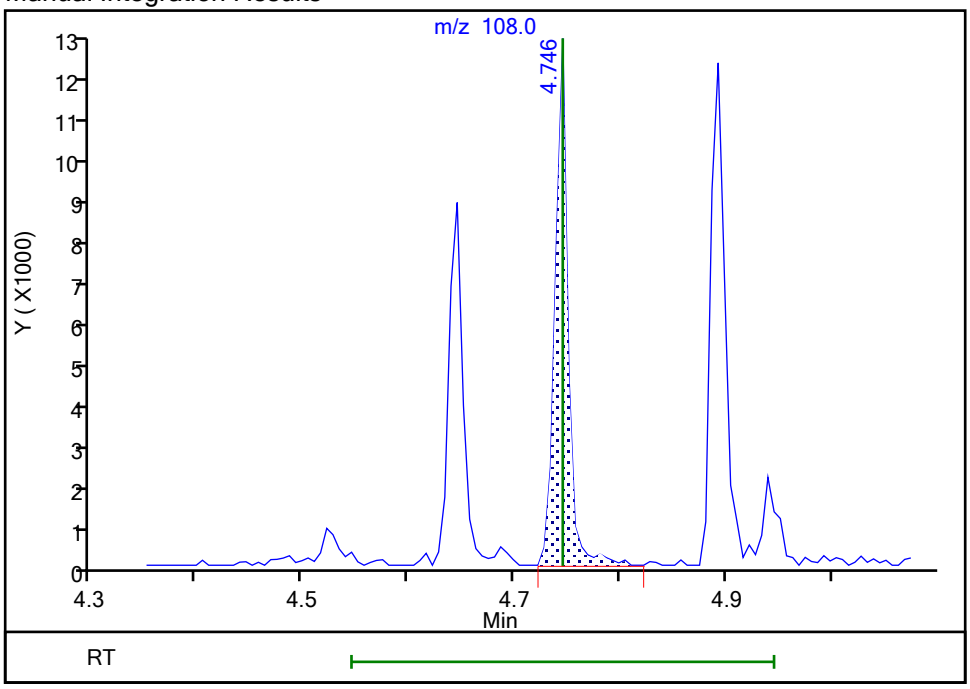
Processing Integration Results

RT: 4.65
Area: 8561
Amount: 0.187953
Amount Units: ug/ml



Manual Integration Results

RT: 4.75
Area: 10627
Amount: 0.231951
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:56:47 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

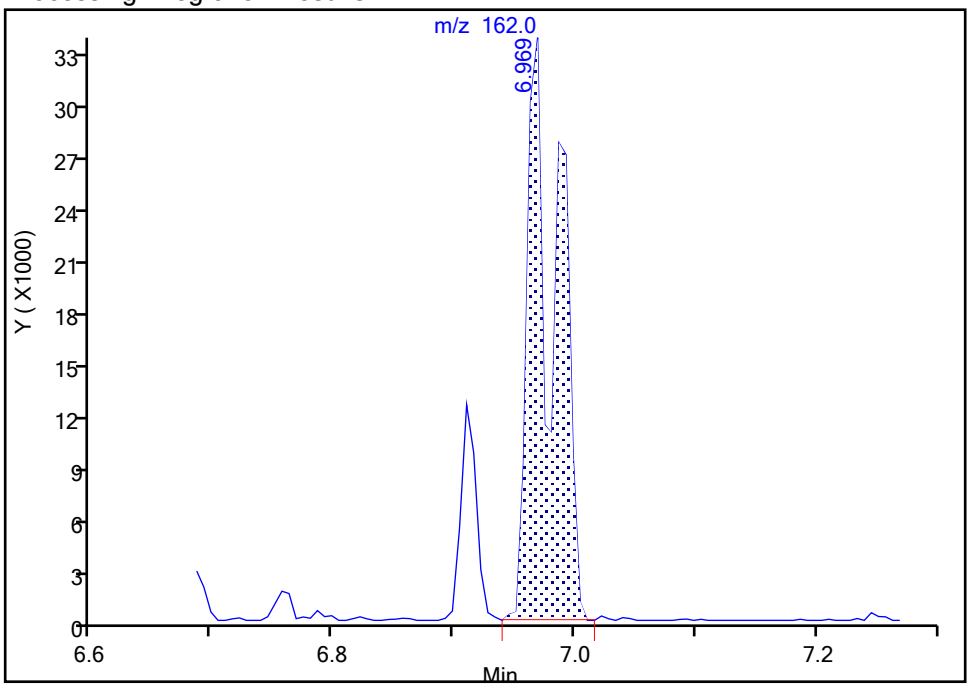
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

79 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

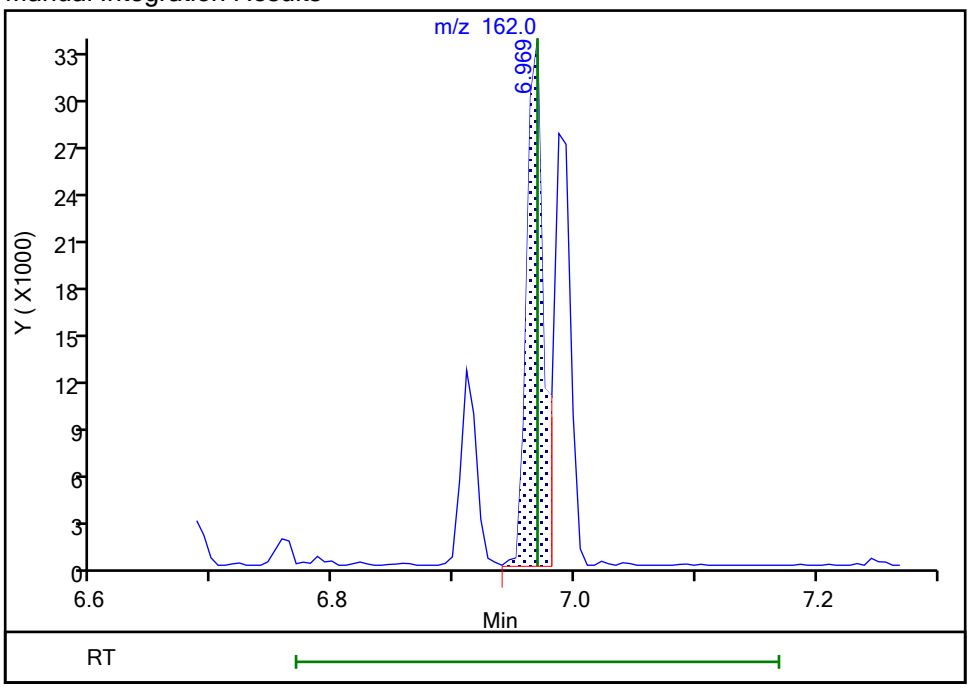
Processing Integration Results

RT: 6.97
Area: 56213
Amount: 0.402073
Amount Units: ug/ml



Manual Integration Results

RT: 6.97
Area: 31531
Amount: 0.275002
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:57:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

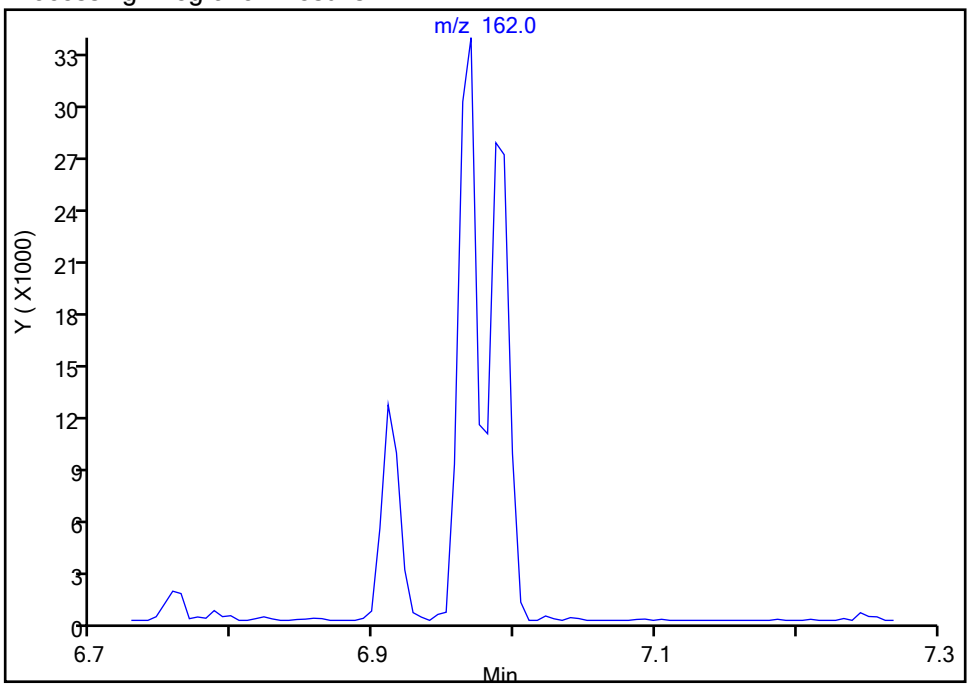
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

80 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

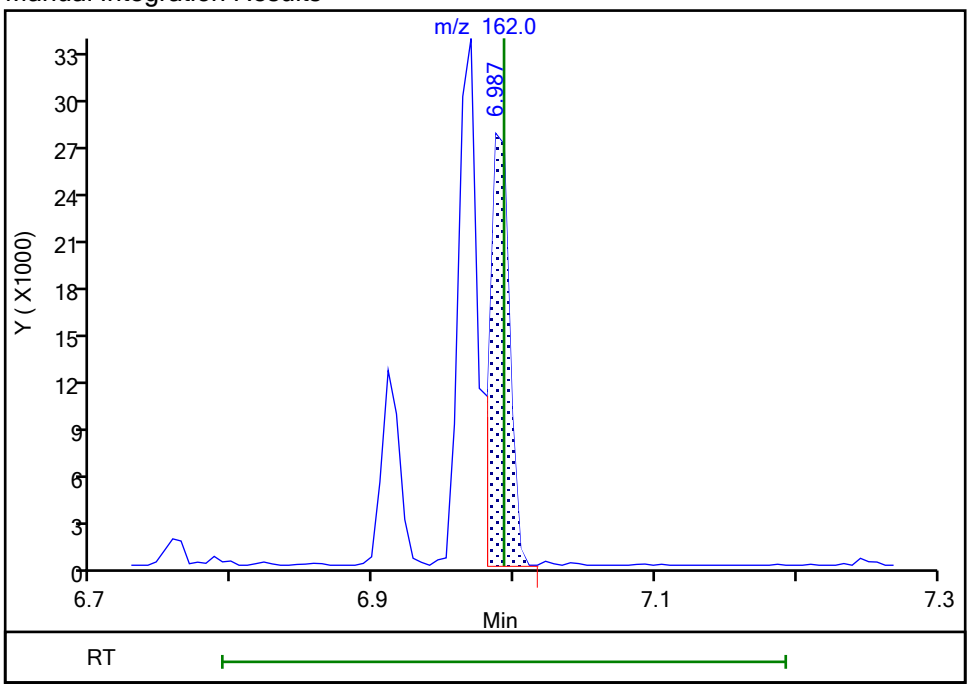
Not Detected
Expected RT: 6.99

Processing Integration Results



Manual Integration Results

RT: 6.99
Area: 24682
Amount: 0.243776
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:57:09 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

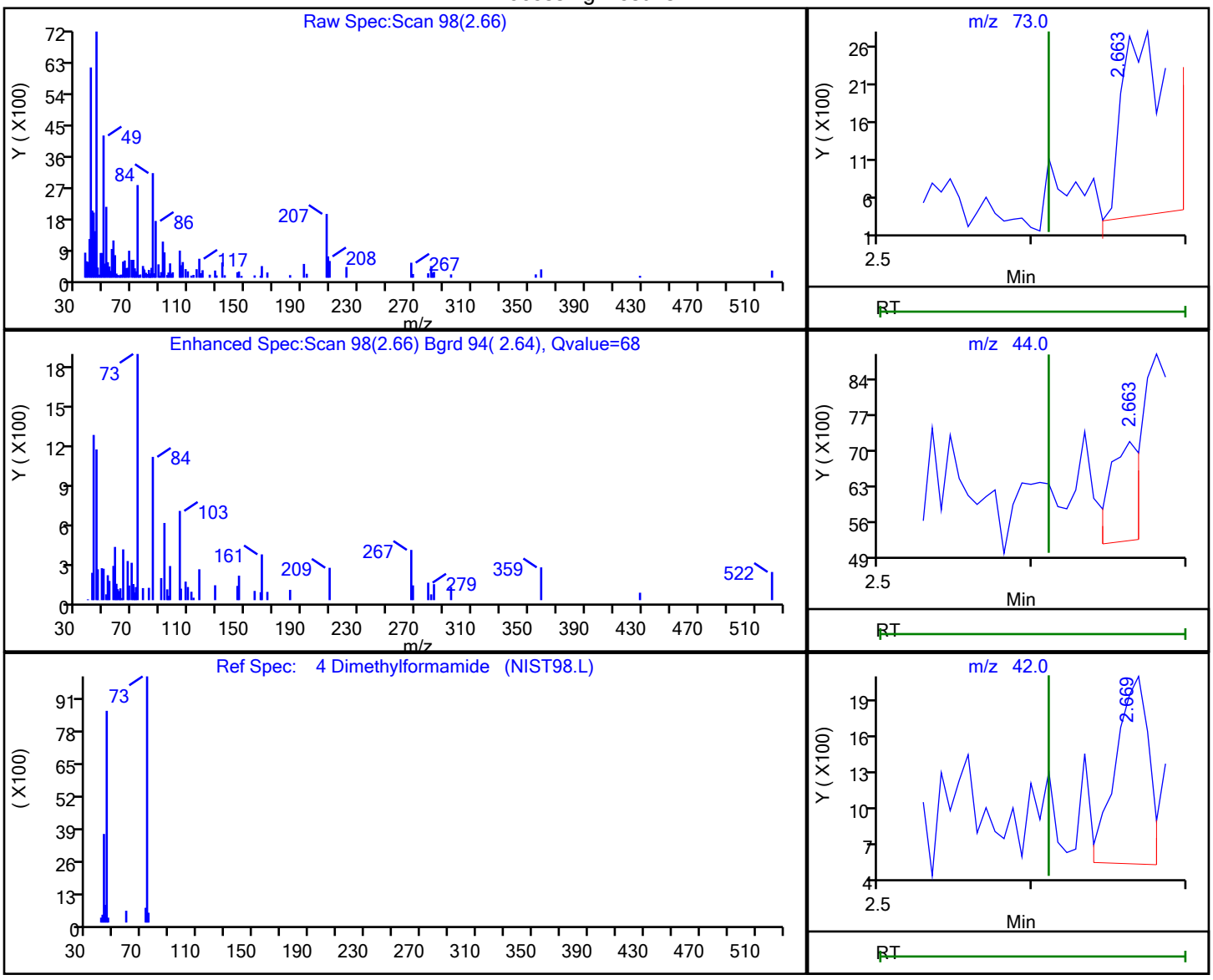
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2357.D				
Injection Date:	23-Jun-2025 23:14:30	Instrument ID:	HP18831		
Lims ID:	IC L2				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

4 Dimethylformamide, CAS: 68-12-2

Processing Results



RT	Mass	Response	Amount
2.66	73.00	4478	0.235149
2.66	44.00	2249	
2.67	42.00	2224	

Reviewer: SJ89, 24-Jun-2025 07:56:38 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D
Lims ID: IC L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 23-Jun-2025 23:36:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC L1
Misc. Info.: 410-0151283-009
Operator ID: IR93211 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:08:11 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 08:23:43

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.163	2.158	0.005	63	3989	0.1250	0.1950	
	2 N-Nitrosodimethylamine	74	2.352	2.340	0.012	82	4908	0.1250	0.1379	
	3 Pyridine	79	2.399	2.381	0.018	93	15509	0.2500	0.2742	
	4 Dimethylformamide	73		2.610				ND	ND	U
	5 2-Picoline	93	2.899	2.887	0.012	88	7056	0.1250	0.1209	
	6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	42	5408	0.1250	0.2049	
	9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	3919	0.1250	0.1193	
$	10 2-Fluorophenol	112	3.328	3.328	0.000	89	11557	0.2500	0.2481	
	11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	91	3414	0.1250	0.1308	
	13 Ethyl methanesulfonate	109	3.787	3.787	0.000	93	3555	0.1250	0.1200	
	15 Benzaldehyde	77	4.116	4.116	0.000	91	6667	0.1250	0.1342	
$	16 Phenol-d5	99	4.140	4.146	-0.006	93	14374	0.2500	0.2218	
	17 Phenol	94	4.157	4.157	0.000	52	8616	0.1250	0.1248	
	18 Aniline	93	4.210	4.210	0.000	94	10380	0.1250	0.1206	
	19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	85	7733	0.1250	0.1380	
	20 2-Chlorophenol	128	4.322	4.322	0.000	95	6294	0.1250	0.1247	
	22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	92	6926	0.1250	0.1202	
*	23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	195246	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	89	8057	0.1250	0.1346	
	26 Benzyl alcohol	108	4.646	4.646	0.000	88	4733	0.1250	0.1276	
	27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	94	7483	0.1250	0.1320	
	30 2-Methylphenol	108	4.746	4.746	0.000	92	6255	0.1250	0.1248	Ma
	32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	95	12759	0.1250	0.1382	
	33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	77	3435	0.1250	0.1093	
	36 4-Methylphenol	108	4.893	4.893	0.000	22	5411	0.1250	0.1043	a
	35 N-Nitrosodi-n-propylamine	70	4.904	4.904	0.000	80	6098	0.1250	0.1280	
	34 Acetophenone	105	4.910	4.910	0.000	83	10729	0.1250	0.1272	
	37 N-Nitrosomorpholine	56	4.922	4.922	0.000	53	6559	0.1250	0.1465	
	38 2-Toluidine	106	4.940	4.940	0.000	96	11845	0.1250	0.1310	
	40 Hexachloroethane	117	5.022	5.022	0.000	87	3774	0.1250	0.1562	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	5.057	5.057	0.000	91	13402	0.2500	0.2381	
42 Nitrobenzene	77	5.075	5.075	0.000	84	7903	0.1250	0.1301	
43 N-Nitrosopiperidine	114	5.222	5.222	0.000	82	4135	0.1250	0.1386	
45 Isophorone	82	5.310	5.310	0.000	99	15283	0.1250	0.1296	
46 2-Nitrophenol	139	5.387	5.393	-0.006	58	1563	0.1250	0.0833	
48 2,4-Dimethylphenol	107	5.422	5.428	-0.006	94	6847	0.1250	0.1241	
49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	82	3809	0.1250	0.1223	
51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	95	9692	0.1250	0.1327	
52 2,4-Dichlorophenol	162	5.622	5.628	-0.006	89	3917	0.1250	0.0942	
53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	91	7064	0.1250	0.1329	
* 54 Naphthalene-d8	136	5.775	5.775	0.000	100	789215	5.00	5.00	
55 Naphthalene	128	5.793	5.798	-0.005	95	19909	0.1250	0.1229	
29 Alpha-Terpineol	59	5.804	5.804	0.000	85	6707	0.1250	0.1302	
57 4-Chloroaniline	127	5.840	5.840	0.000	89	8379	0.1250	0.1182	
58 2,6-Dichlorophenol	162	5.851	5.851	0.000	72	4584	0.1250	0.1107	
59 Hexachloropropene	213	5.887	5.887	0.000	86	3822	0.1250	0.1161	
60 Hexachlorobutadiene	225	5.922	5.922	0.000	91	4006	0.1250	0.1278	
62 Quinoline	129	6.122	6.122	0.000	97	15644	0.1250	0.1298	
63 Caprolactam	113	6.151	6.157	-0.006	55	1982	0.1250	0.1120	
64 N-Nitrosodi-n-butylamine	84	6.181	6.181	0.000	88	5491	0.1250	0.1127	
39 p-Phenylene diamine	108	6.193	6.187	0.006	95	7072	0.1250	0.1060	
66 4-Chloro-3-methylphenol	107	6.316	6.322	-0.006	88	4772	0.1250	0.0986	
67 Safrole, Total	162	6.398	6.398	0.000	89	6114	0.1250	0.1315	
68 2-Methylnaphthalene	142	6.487	6.487	0.000	90	13258	0.1250	0.1257	
69 1-Methylnaphthalene	142	6.581	6.581	0.000	89	13713	0.1250	0.1252	
71 Hexachlorocyclopentadiene	237	6.645	6.645	0.000	73	4087	0.1250	0.1086	
72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	94	7866	0.1250	0.1316	
73 Isosafrole Peak 1	162	6.687	6.687	0.000	46	1418	0.0200	0.0250	a
74 2,4,6-Trichlorophenol	196	6.757	6.763	-0.006	65	2608	0.1250	0.0866	
75 2,4,5-Trichlorophenol	196	6.793	6.793	0.001	90	3069	0.1250	0.0784	
$ 76 2-Fluorobiphenyl (Surr)	172	6.851	6.851	0.000	99	35792	0.2500	0.2637	
77 Isosafrole Peak 2	162	6.910	6.910	0.000	88	5585	0.1050	0.0975	
78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	19294	0.1250	0.1303	
79 2-Chloronaphthalene	162	6.969	6.969	0.000	90	16712	0.1250	0.1371	M
80 1-Chloronaphthalene	162	6.987	6.992	-0.005	97	13617	0.1250	0.1265	Ma
81 Phenyl ether	170	7.057	7.057	0.000	89	11547	0.1250	0.1360	
82 2-Nitroaniline	138	7.057	7.063	-0.006	56	3070	0.1250	0.0940	
84 1,4-Naphthoquinone	158	7.140	7.140	0.000	93	5359	0.1250	0.1140	
85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	44	1399	0.1250	0.1022	
86 Dimethyl phthalate	163	7.245	7.251	-0.006	98	17710	0.1250	0.1264	
87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	36	1572	0.1250	0.0890	a
88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	83	2876	0.1250	0.1070	
89 Acenaphthylene	152	7.375	7.381	-0.006	98	22142	0.1250	0.1199	
90 3-Nitroaniline	138	7.463	7.463	0.000	82	2994	0.1250	0.0980	
* 91 Acenaphthene-d10	164	7.516	7.516	0.000	95	502809	5.00	5.00	
93 Acenaphthene	153	7.551	7.551	0.000	95	17145	0.1250	0.1372	
94 2,4-Dinitrophenol	184	7.569	7.569	0.000	56	4953	1.25	0.8072	
95 4-Nitrophenol	109	7.616	7.622	-0.006	95	8817	0.7500	0.5306	
96 Pentachlorobenzene	250	7.681	7.681	0.000	96	7538	0.1250	0.1306	
98 2,4-Dinitrotoluene	165	7.698	7.698	0.000	50	3790	0.1250	0.1067	
97 Dibenzofuran	168	7.722	7.722	0.000	98	23498	0.1250	0.1338	
99 1-Naphthylamine	143	7.792	7.792	0.000	98	13524	0.1250	0.1096	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	66	2852	0.1250	0.0852	
103 2-Naphthylamine	143	7.869	7.875	-0.006	98	16146	0.1250	0.1201	
104 Diethyl phthalate	149	7.945	7.951	-0.006	97	17265	0.1250	0.1225	
106 Thionazin	107	8.028	8.028	0.000	78	2806	0.1250	0.1283	
105 Fluorene	166	8.057	8.057	0.000	91	17522	0.1250	0.1211	
109 4-Nitroaniline	138	8.063	8.063	0.000	66	3725	0.1250	0.1092	
108 4-Chlorophenyl phenyl ether	204	8.057	8.063	-0.006	79	9296	0.1250	0.1304	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	60	4571	0.1250	0.1277	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	74	4382	0.7500	1.18	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	64	11839	0.1063	0.0986	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	98	18731	0.1250	0.1255	
$ 113 2,4,6-Tribromophenol	330	8.292	8.292	0.000	87	4032	0.2500	0.1913	
114 Sulfotepp	97	8.339	8.339	0.000	81	3294	0.1250	0.1348	
172 1,3,5-Trinitrobenzene	213	8.410	8.416	-0.006	28	901	0.1250	0.3110	
115 cis-Diallate	86	8.463	8.463	0.000	70	5122	0.0925	0.0890	
117 Phenacetin	108	8.469	8.469	0.000	64	5695	0.1250	0.0839	
116 Phorate	75	8.469	8.469	0.000	91	10900	0.1250	0.1214	
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	67	5972	0.1250	0.1333	
119 trans-Diallate	86	8.557	8.551	0.006	61	2873	0.0325	0.0445	
120 Hexachlorobenzene	284	8.598	8.598	0.000	92	7741	0.1250	0.1442	
121 Dimethoate	87	8.628	8.628	0.000	90	4120	0.1250	0.1640	
122 Atrazine	200	8.698	8.698	0.000	88	4763	0.1250	0.1118	
123 Pentachlorophenol	266	8.787	8.792	-0.005	90	7658	0.6250	1.24	
125 4-Aminobiphenyl	169	8.792	8.792	0.000	91	20467	0.1250	0.1191	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	50	2001	0.1250	0.1076	
126 Pronamide	173	8.851	8.857	-0.006	88	8289	0.1250	0.1214	
128 Dinoseb	211	8.969	8.975	-0.006	61	1424	0.1250	0.0942	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	98	1010165	5.00	5.00	
70 Disulfoton	88	8.981	8.986	-0.005	56	20545	0.1250	0.1287	
129 Phenanthrene	178	9.004	9.004	0.000	95	31660	0.1250	0.1406	
S 56 Dinitrotoluene	165				0		0.2500	0.2137	
130 Anthracene	178	9.057	9.057	0.000	98	26773	0.1250	0.1212	
131 Carbazole	167	9.210	9.210	0.000	95	25487	0.1250	0.1233	
132 Methyl parathion	109	9.351	9.351	0.000	85	2735	0.1250	0.0703	
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	98	25006	0.1250	0.1129	
S 65 Diallate	86				0		0.1250	0.1335	
134 Ethyl Parathion	109	9.734	9.733	0.001	29	2372	0.1250	0.0972	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	28	937	0.1250	0.4725	
136 Octachlorostyrene	308	9.986	9.986	0.000	87	2673	0.1250	0.1206	
137 Isodrin	193	10.034	10.033	0.001	89	6281	0.1250	0.2227	
138 Fluoranthene	202	10.175	10.175	0.000	97	31289	0.1250	0.1245	
139 Benzidine	184	10.304	10.310	-0.006	99	52739	0.3750	0.3281	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1095497	5.00	5.00	
141 Pyrene	202	10.404	10.404	0.000	99	38270	0.1250	0.1425	
$ 142 p-Terphenyl-d14	244	10.575	10.575	0.000	99	46477	0.2500	0.2612	
143 p-Dimethylamino azobenzene	225	10.722	10.722	0.000	92	4810	0.1250	0.0990	
144 Chlorobenzilate	139	10.781	10.780	0.000	91	5826	0.1250	0.0857	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	98	17005	0.1250	0.1053	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	93	6966	0.1250	0.0707	
147 2-Acetylaminofluorene	181	11.398	11.404	-0.006	72	4430	0.1250	0.0483	
149 3,3'-Dichlorobenzidine	252	11.775	11.780	-0.005	77	10383	0.1250	0.1030	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	87	4669	0.1250	0.0899	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.804	11.810	-0.006	98	28573	0.1250	0.1093	
151 Chrysene	228	11.857	11.857	0.000	96	30468	0.1250	0.1202	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	94	10995	0.1250	0.0732	
153 6-Methylchrysene	242	12.475	12.480	-0.005	98	20094	0.1250	0.1107	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	96	13116	0.1250	0.6407	
156 7,12-Dimethylbenz(a)anthracene	256	13.310	13.316	-0.006	80	11397	0.1250	0.1120	
155 Benzo[b]fluoranthene	252	13.316	13.316	0.000	96	29474	0.1250	0.1235	
157 Benzo[k]fluoranthene	252	13.357	13.357	0.000	98	28834	0.1250	0.1216	
158 Benzo[a]pyrene	252	13.786	13.792	-0.006	77	25410	0.1250	0.1198	
* 159 Perylene-d12	264	13.874	13.874	0.000	99	960900	5.00	5.00	
160 3-Methylcholanthrene	268	14.321	14.327	-0.006	67	11314	0.1250	0.1051	a
161 Dibenz[a,h]acridine	279	15.221	15.227	-0.006	35	17542	0.1250	0.1077	a
162 Dibenz[a,j]acridine	279	15.304	15.310	-0.006	93	16321	0.1250	0.0980	
163 Indeno[1,2,3-cd]pyrene	276	15.627	15.633	-0.006	92	21877	0.1250	0.1126	M
164 Dibenz(a,h)anthracene	278	15.680	15.680	0.000	89	20417	0.1250	0.1042	
165 Benzo[g,h,i]perylene	276	16.133	16.133	0.000	89	23155	0.1250	0.1188	M
S 166 Isosafrole	162				0		0.1250	0.1225	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

MSS_RV8270_1_00043 Amount Added: 1.00 Units: mL

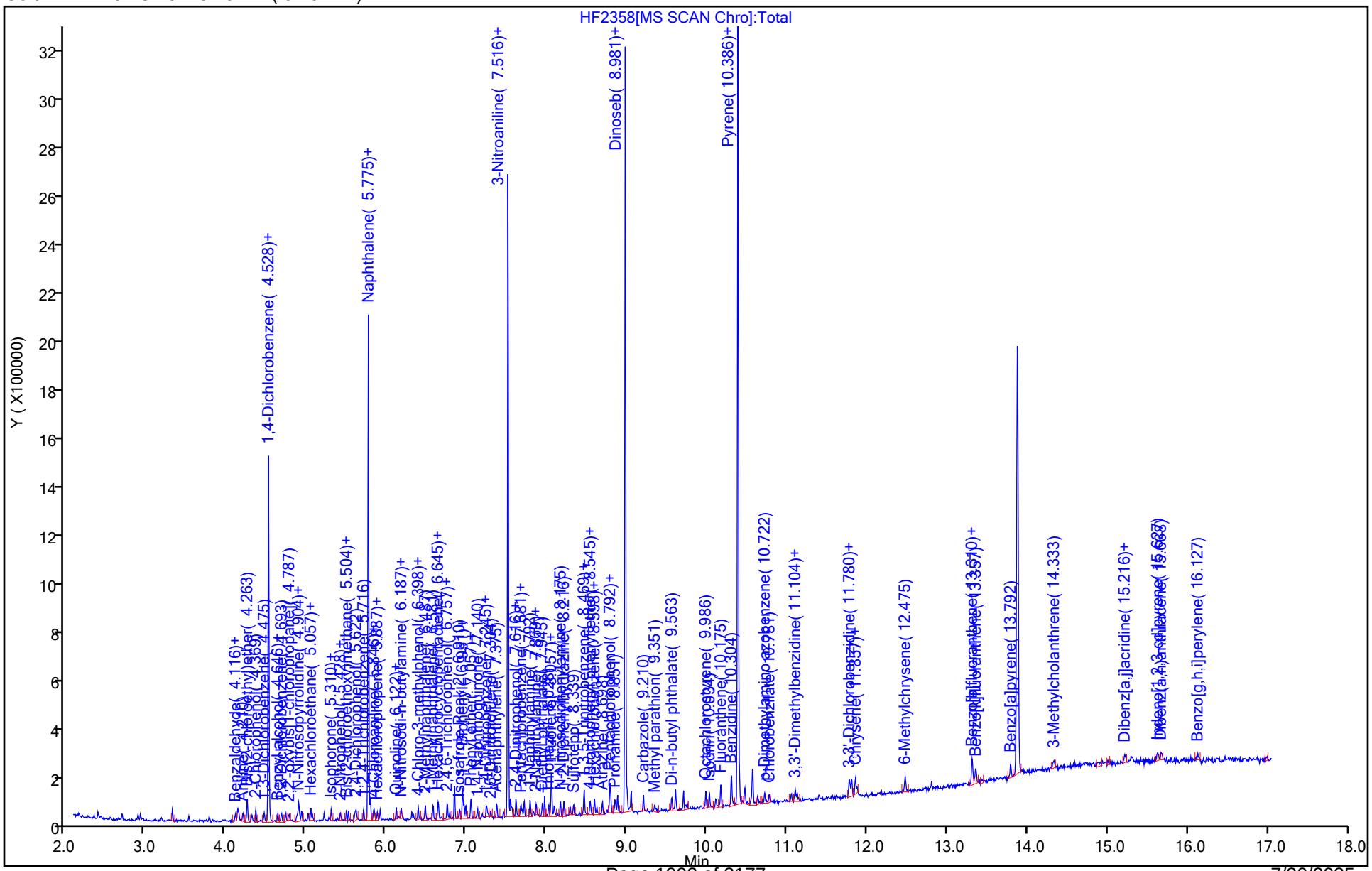
Report Date: 24-Jun-2025 10:08:12 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D

Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	IC L1			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

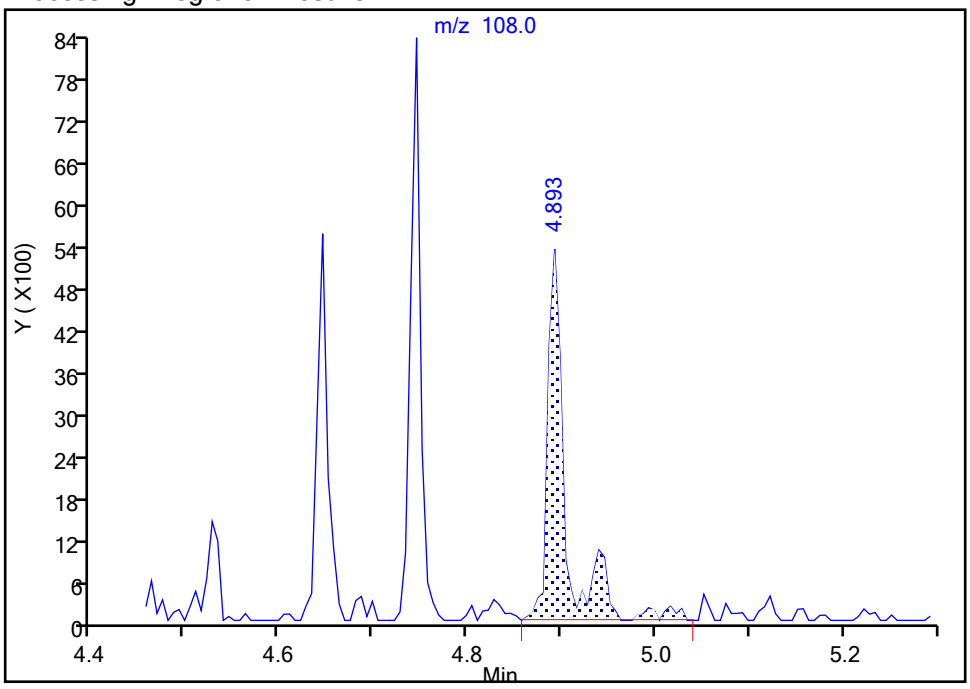
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 2-Methylphenol, CAS: 95-48-7

Signal: 1

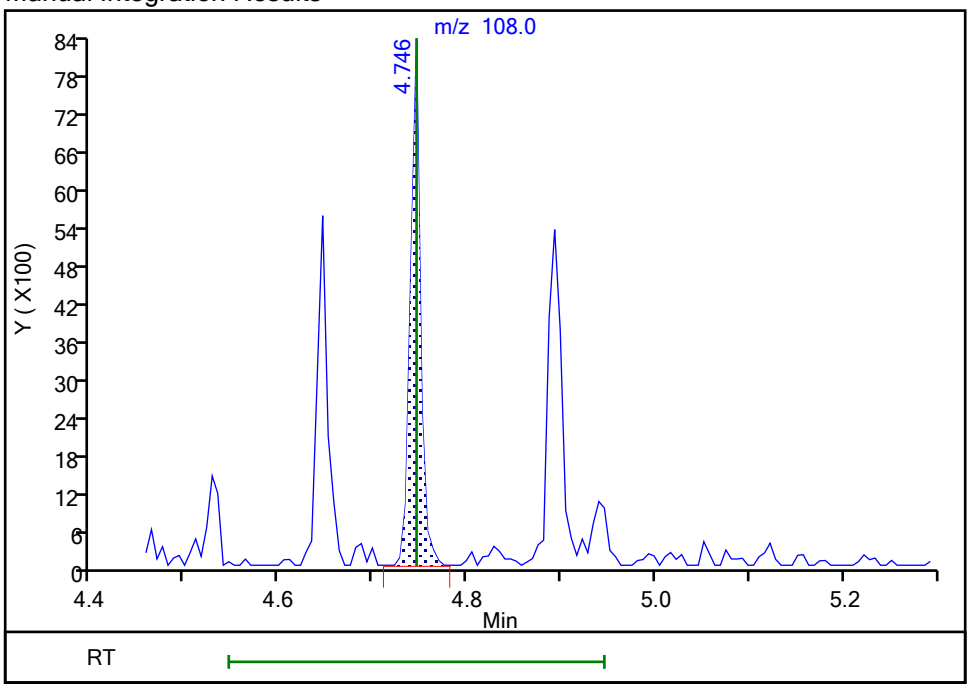
Processing Integration Results

RT: 4.89
Area: 7093
Amount: 0.139176
Amount Units: ug/ml



Manual Integration Results

RT: 4.75
Area: 6255
Amount: 0.124785
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:04 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

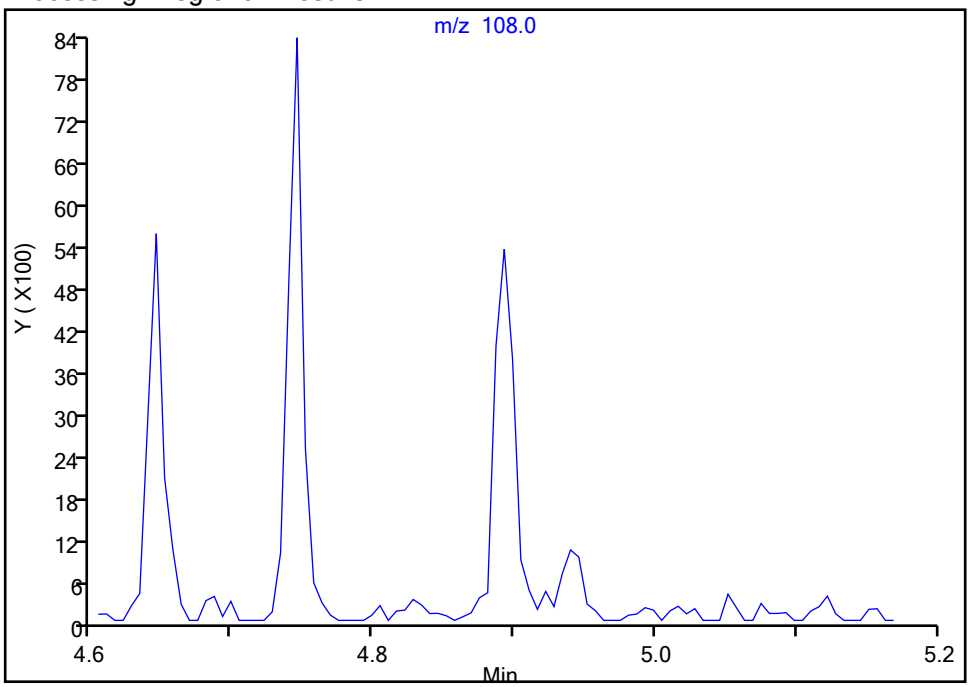
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

36 4-Methylphenol, CAS: 106-44-5

Signal: 1

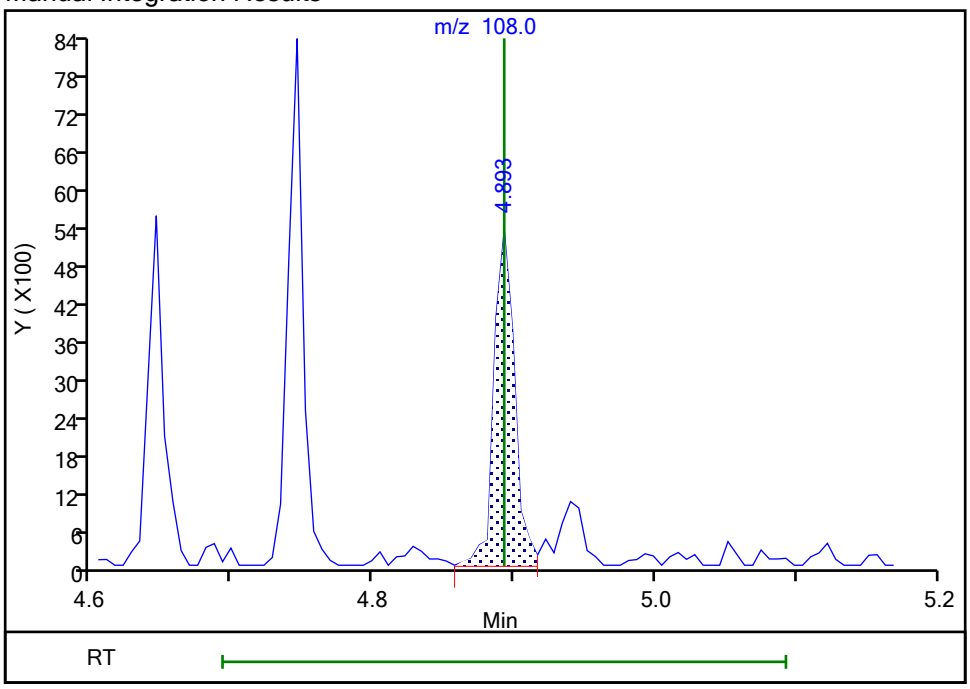
Not Detected
Expected RT: 4.89

Processing Integration Results



Manual Integration Results

RT: 4.89
Area: 5411
Amount: 0.104257
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:07 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

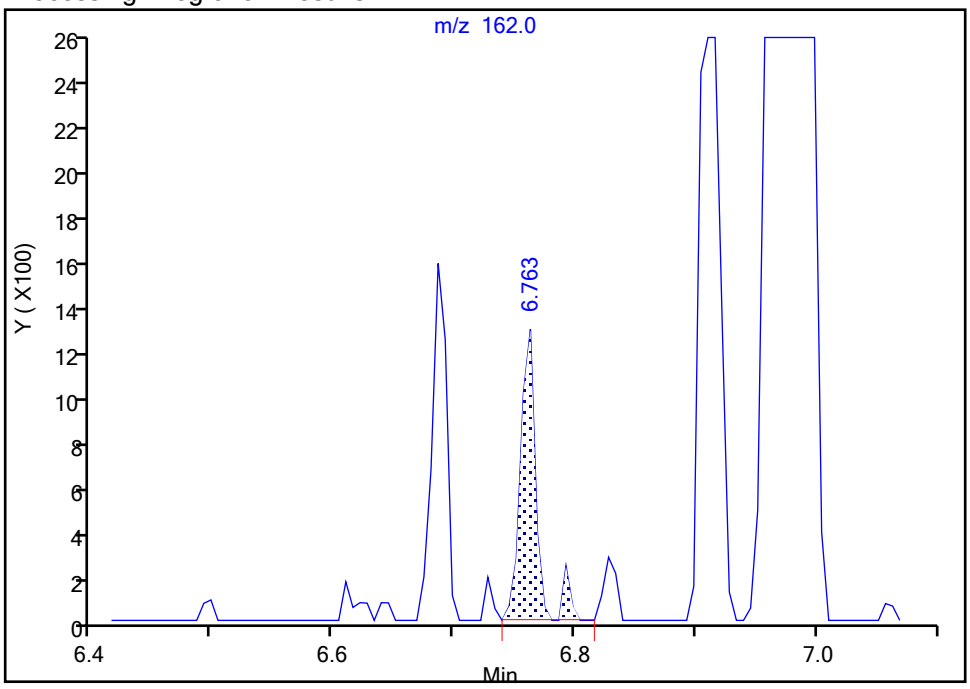
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

73 Isosafrole Peak 1, CAS: STL03315

Signal: 1

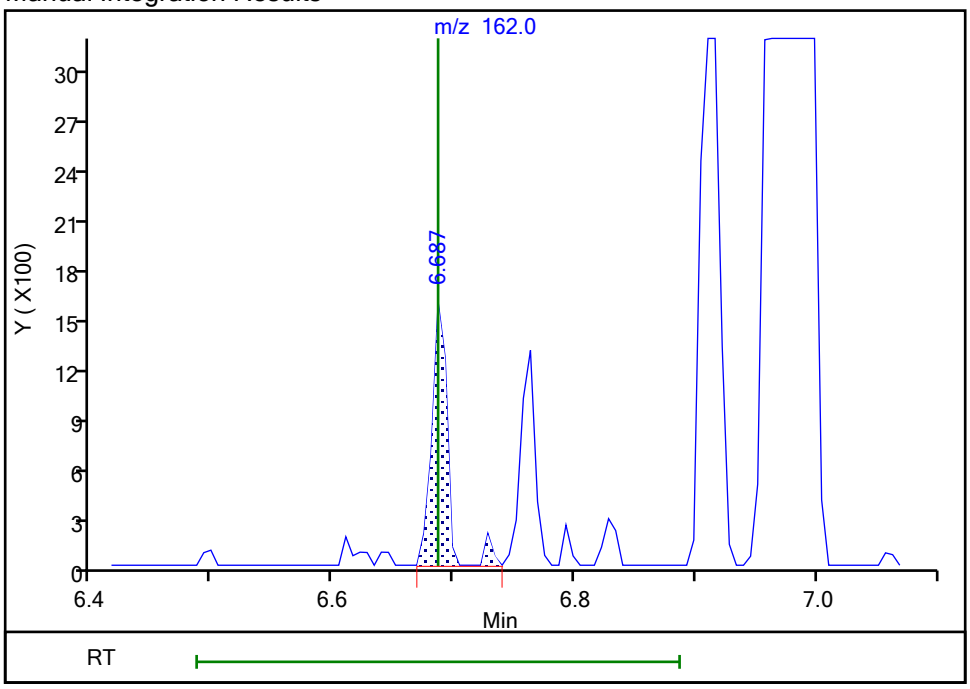
Processing Integration Results

RT: 6.76
Area: 1180
Amount: 0.021402
Amount Units: ug/ml



Manual Integration Results

RT: 6.69
Area: 1418
Amount: 0.025043
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:23 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

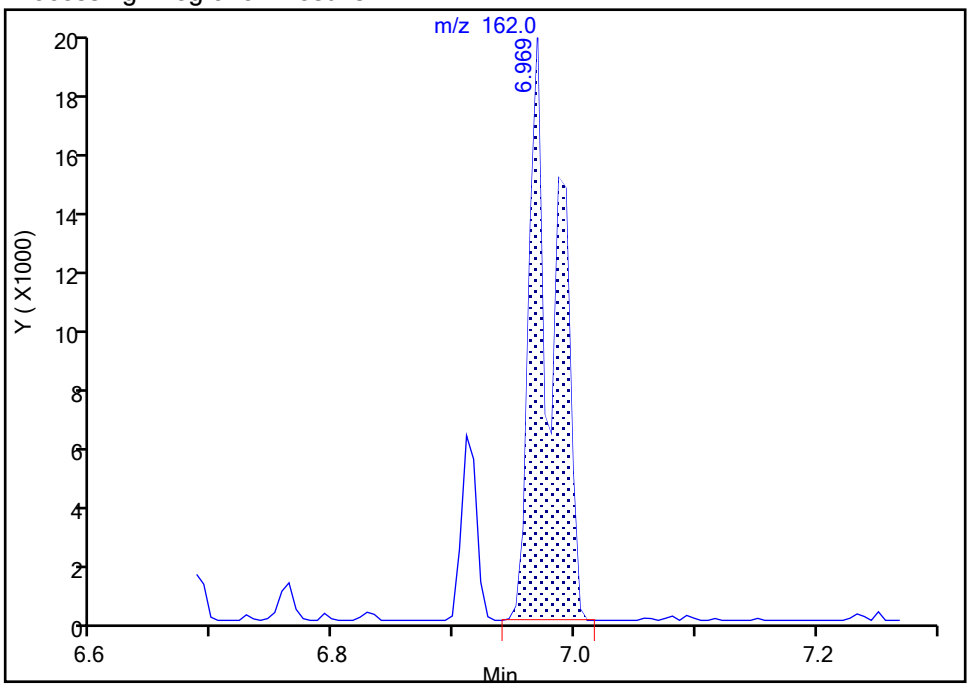
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

79 2-Chloronaphthalene, CAS: 91-58-7

Signal: 1

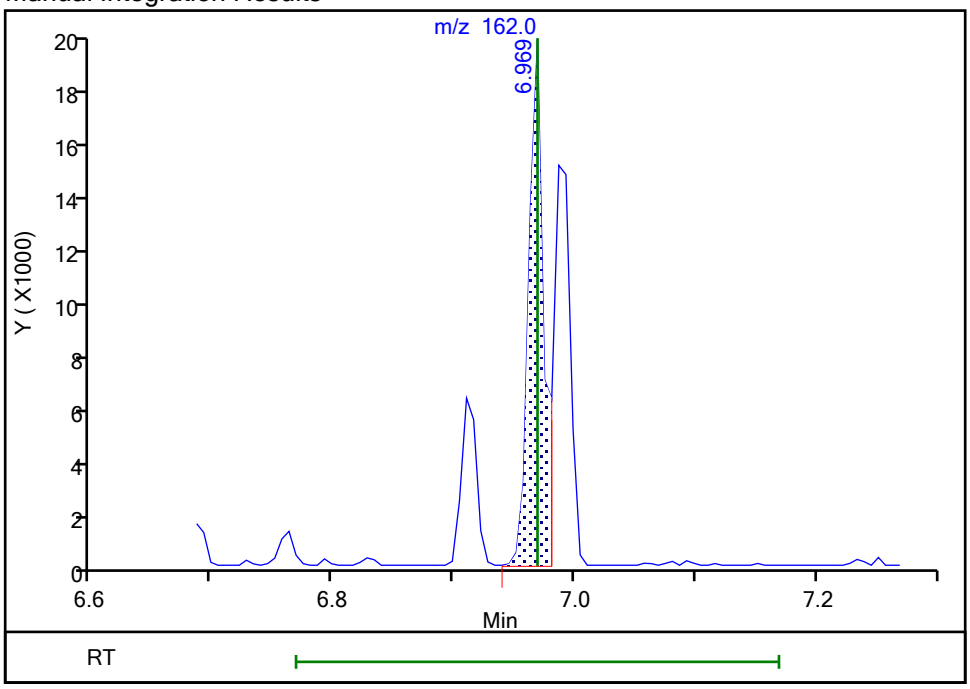
Processing Integration Results

RT: 6.97
Area: 30329
Amount: 0.150181
Amount Units: ug/ml



Manual Integration Results

RT: 6.97
Area: 16712
Amount: 0.137110
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

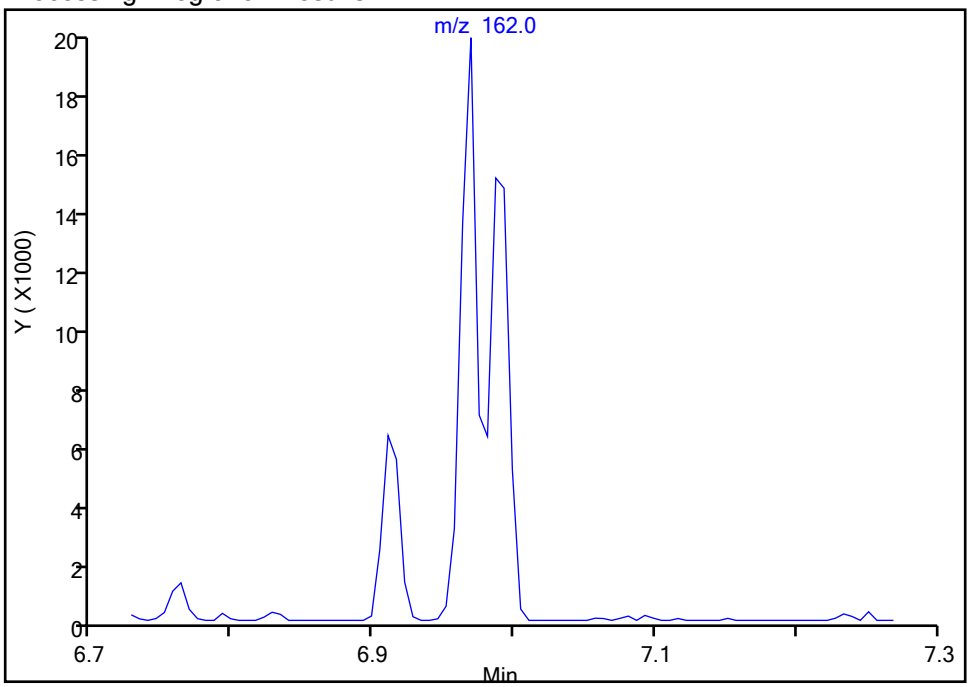
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

80 1-Chloronaphthalene, CAS: 90-13-1

Signal: 1

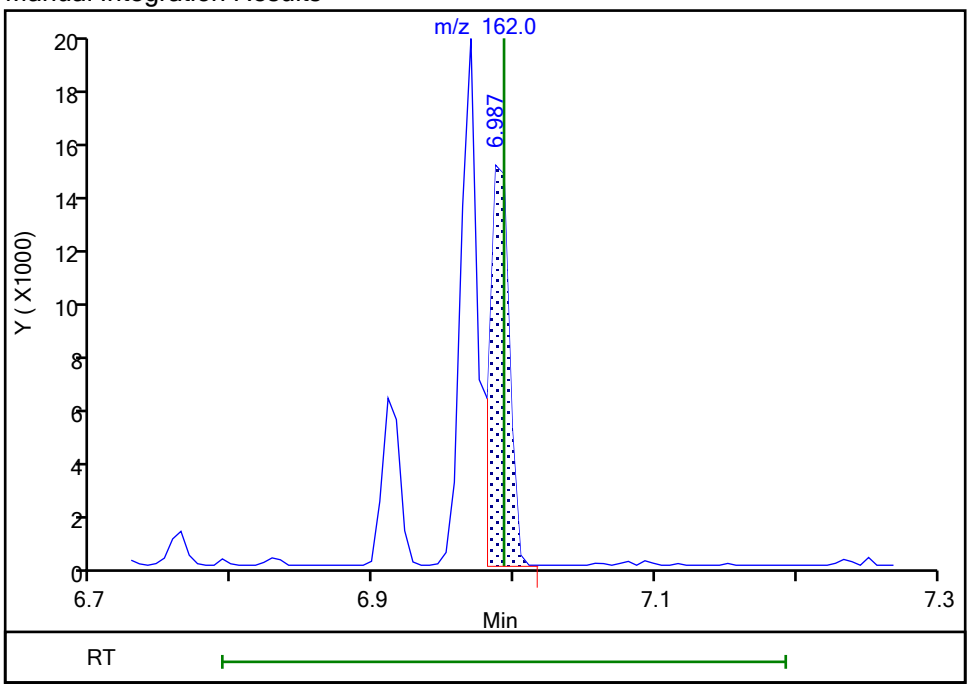
Not Detected
Expected RT: 6.99

Processing Integration Results



Manual Integration Results

RT: 6.99
Area: 13617
Amount: 0.126513
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:33 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

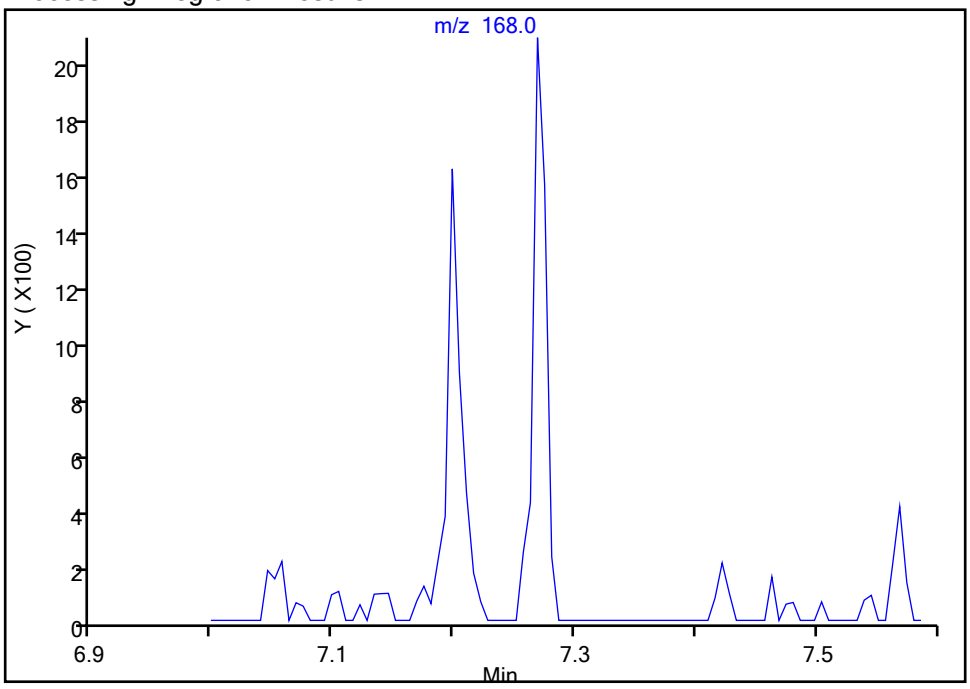
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

87 1,3-Dinitrobenzene, CAS: 99-65-0

Signal: 1

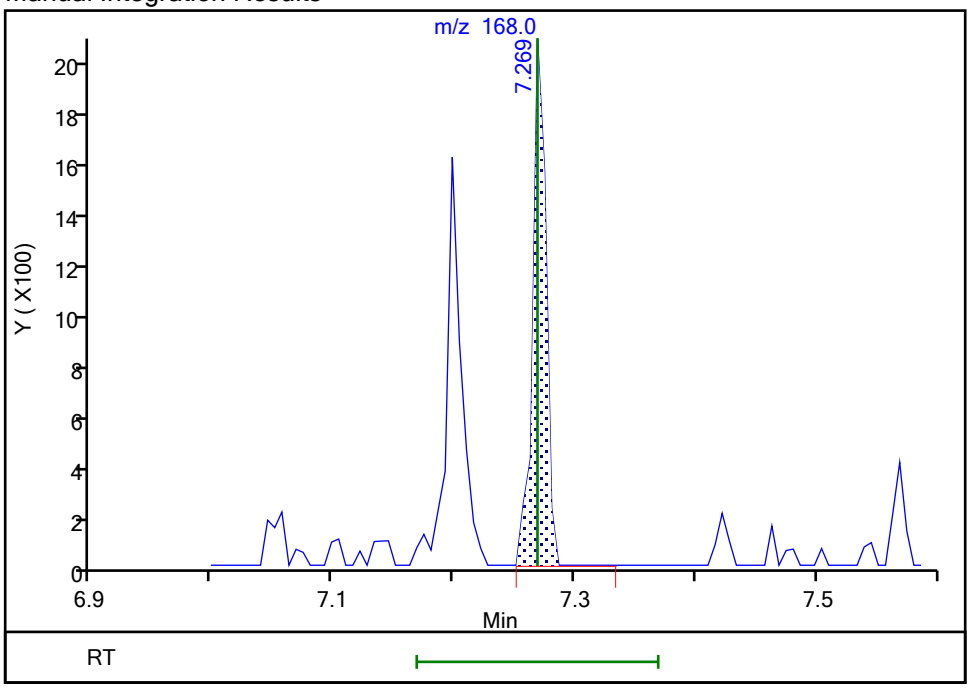
Not Detected
Expected RT: 7.27

Processing Integration Results



Manual Integration Results

RT: 7.27
Area: 1572
Amount: 0.088963
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:58:38 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

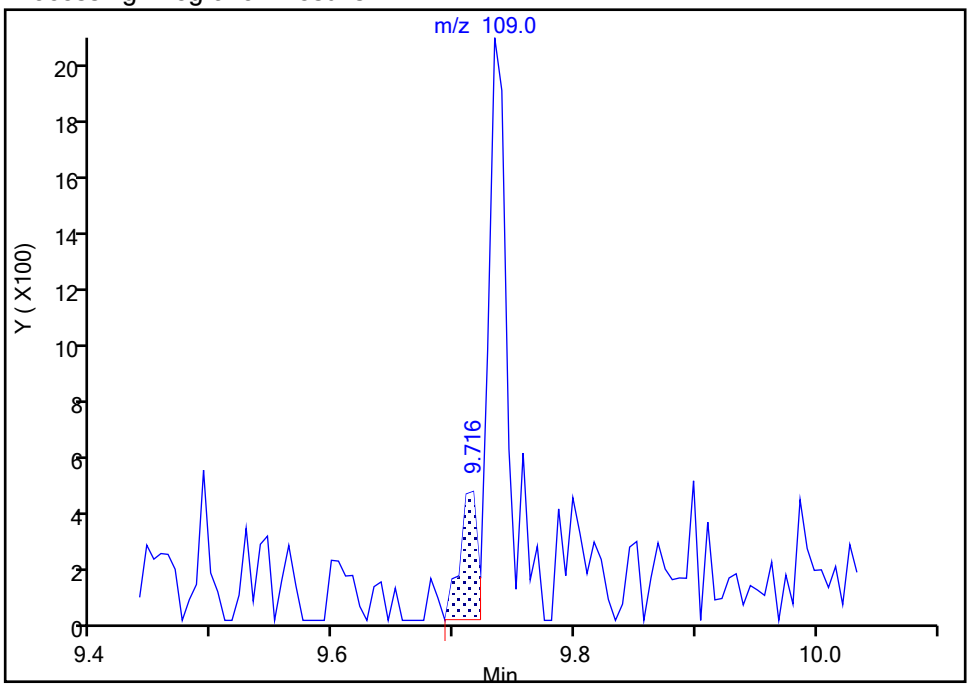
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

134 Ethyl Parathion, CAS: 56-38-2

Signal: 1

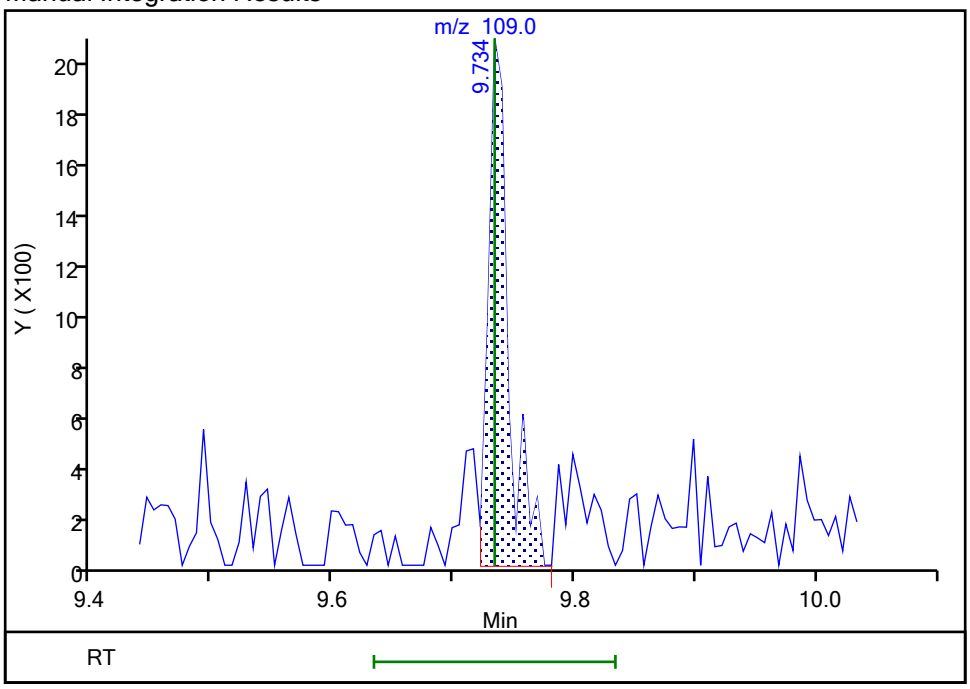
Processing Integration Results

RT: 9.72
Area: 455
Amount: 0.159325
Amount Units: ug/ml



Manual Integration Results

RT: 9.73
Area: 2372
Amount: 0.097182
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:13:45 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

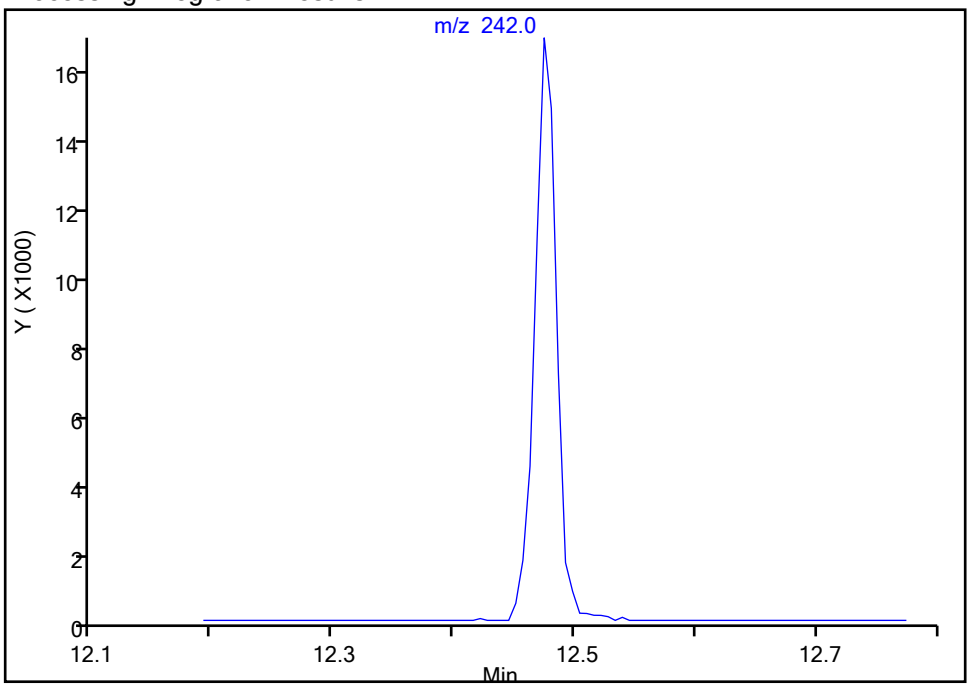
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

153 6-Methylchrysene, CAS: 1705-85-7

Signal: 1

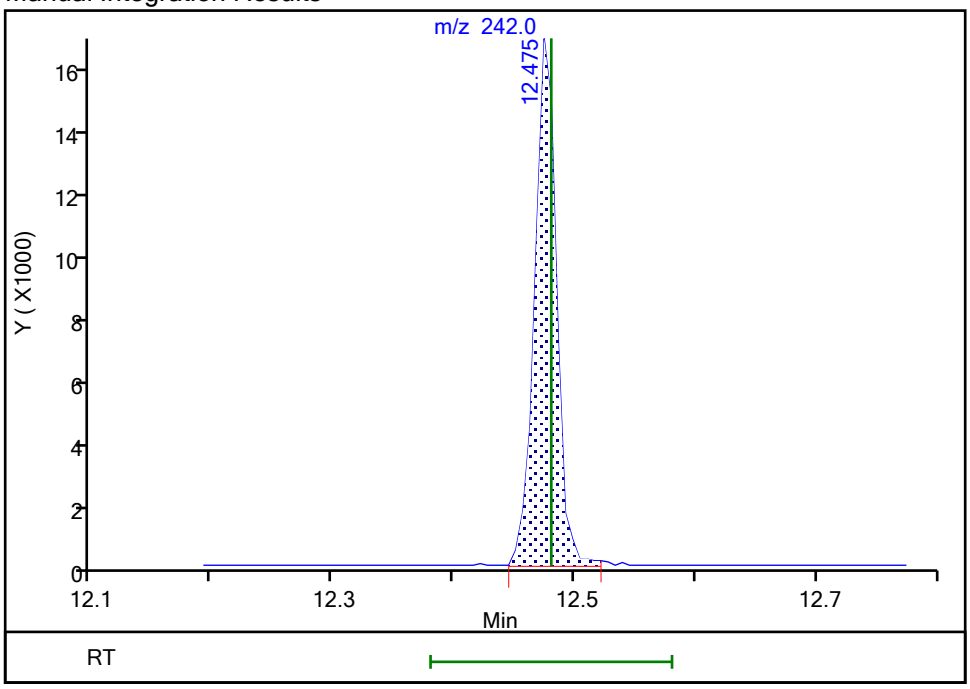
Not Detected
Expected RT: 12.48

Processing Integration Results



Manual Integration Results

RT: 12.47
Area: 20094
Amount: 0.110711
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:13:12 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

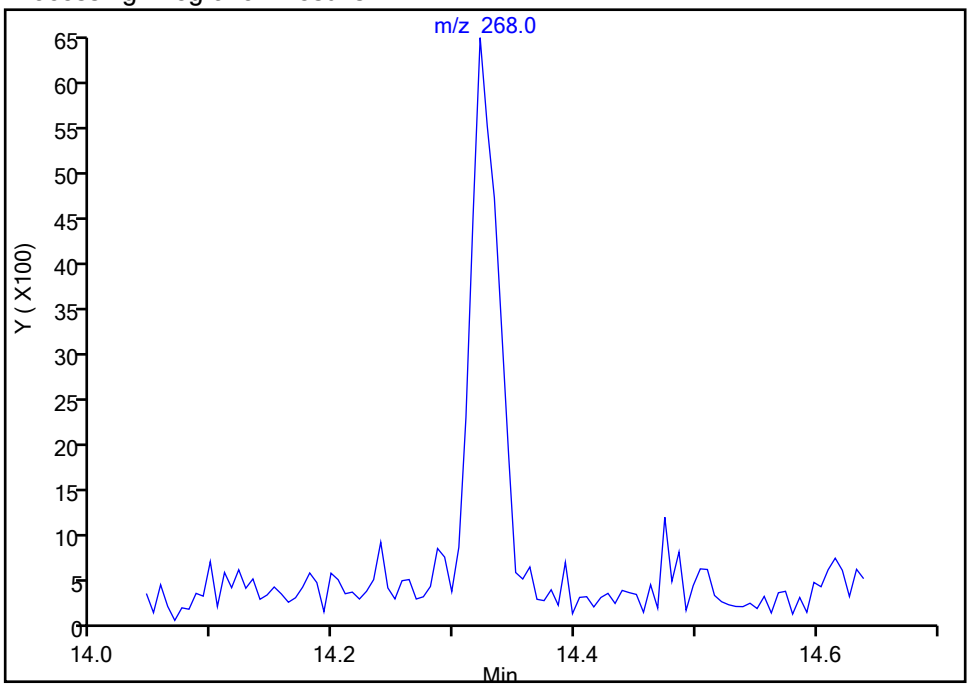
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

160 3-Methylcholanthrene, CAS: 56-49-5

Signal: 1

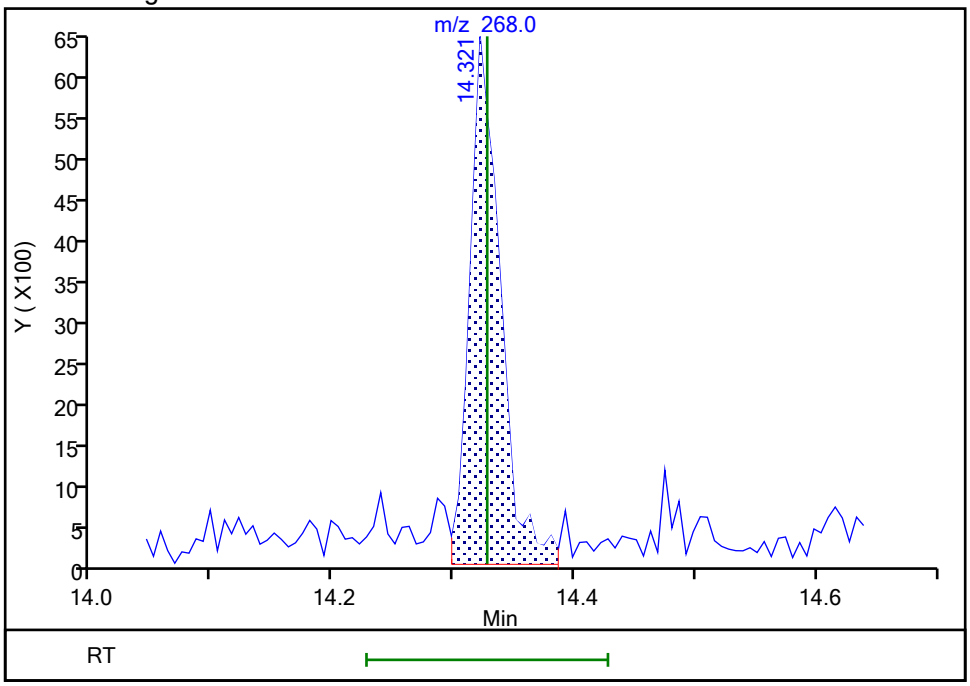
Not Detected
Expected RT: 14.33

Processing Integration Results



Manual Integration Results

RT: 14.32
Area: 11314
Amount: 0.105134
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:13:16 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

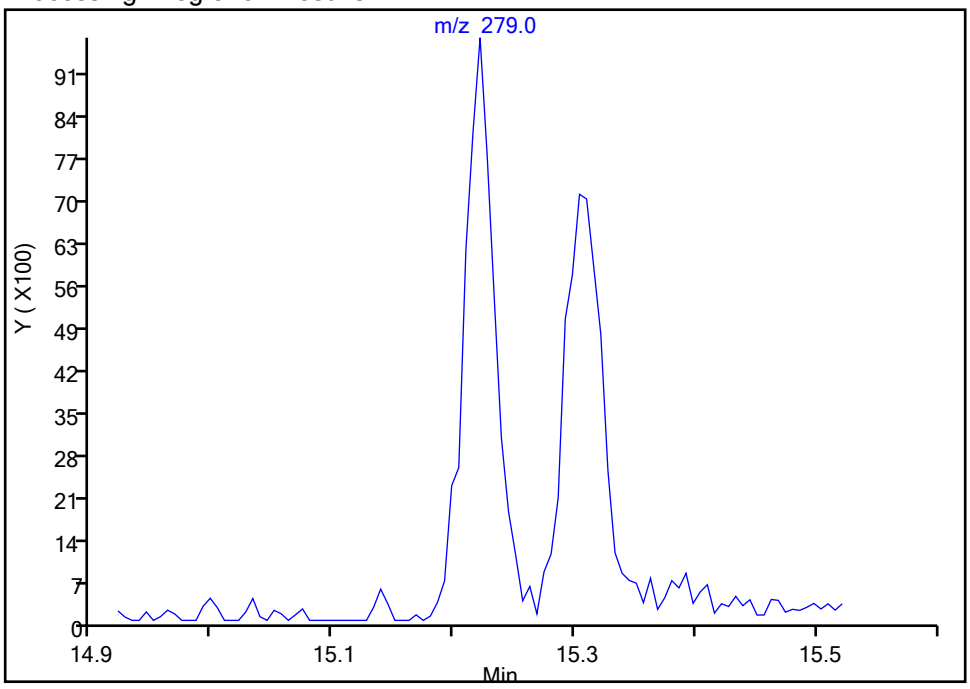
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

161 Dibenz[a,h]acridine, CAS: 226-36-8

Signal: 1

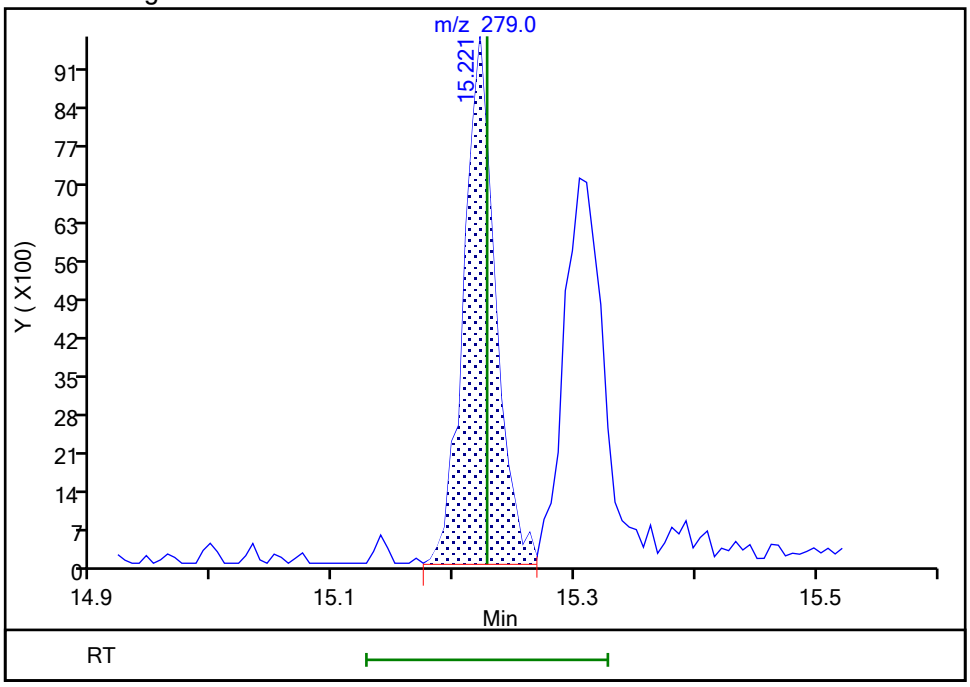
Not Detected
Expected RT: 15.23

Processing Integration Results



Manual Integration Results

RT: 15.22
Area: 17542
Amount: 0.107654
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:59:00 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

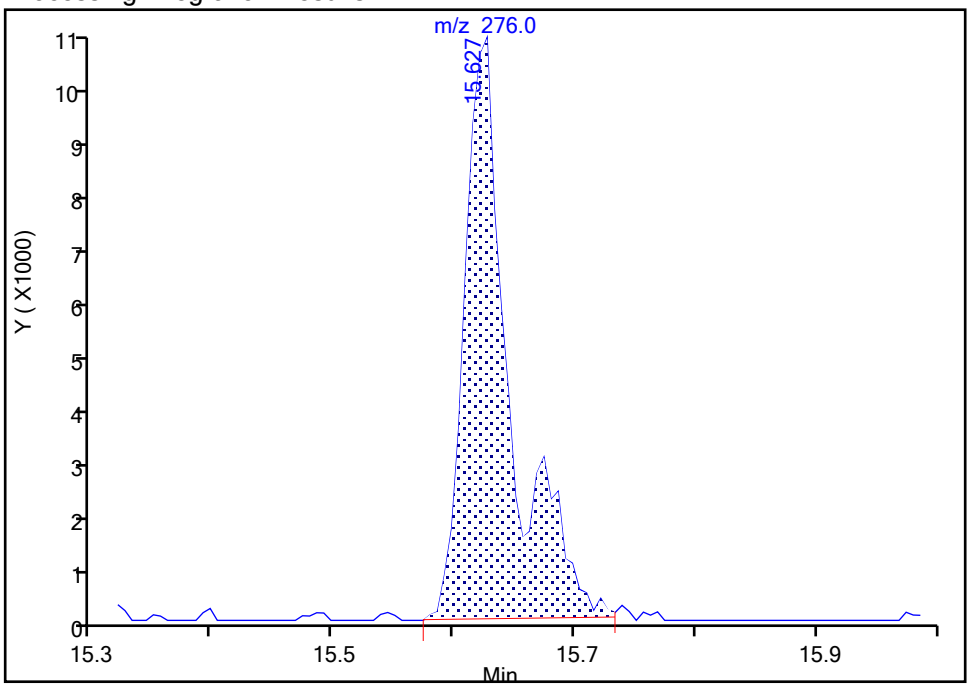
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

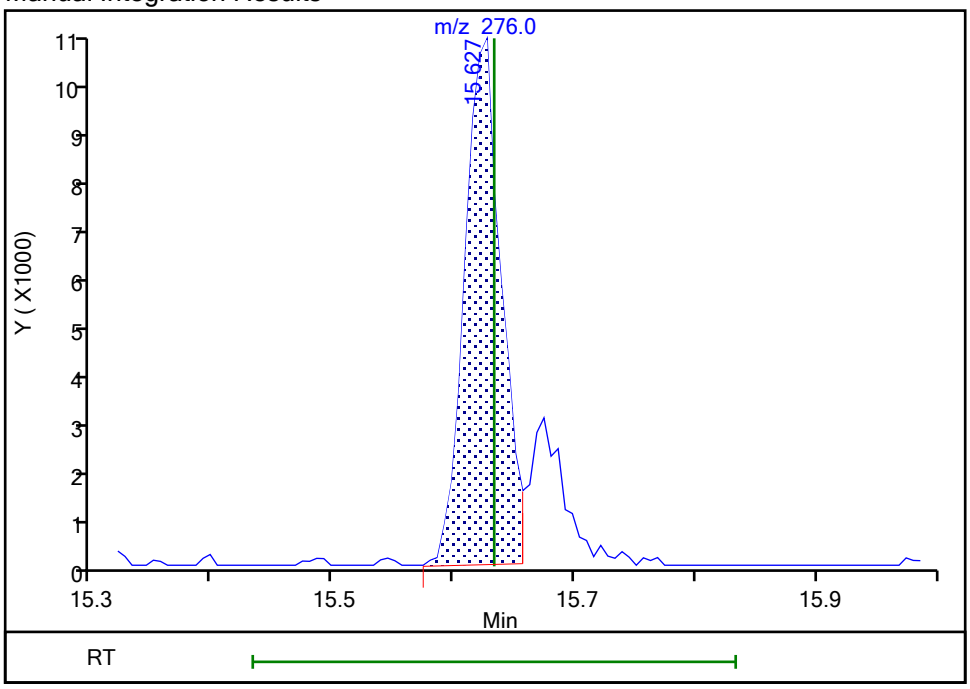
Processing Integration Results

RT: 15.63
Area: 27442
Amount: 0.137336
Amount Units: ug/ml



Manual Integration Results

RT: 15.63
Area: 21877
Amount: 0.112622
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:59:06 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

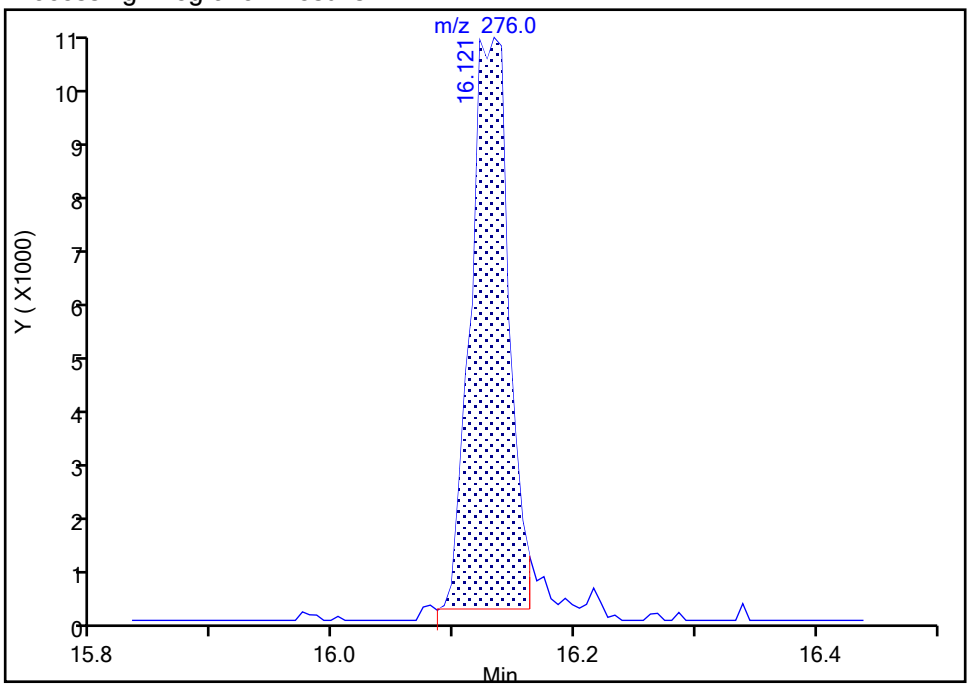
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

165 Benzo[g,h,i]perylene, CAS: 191-24-2

Signal: 1

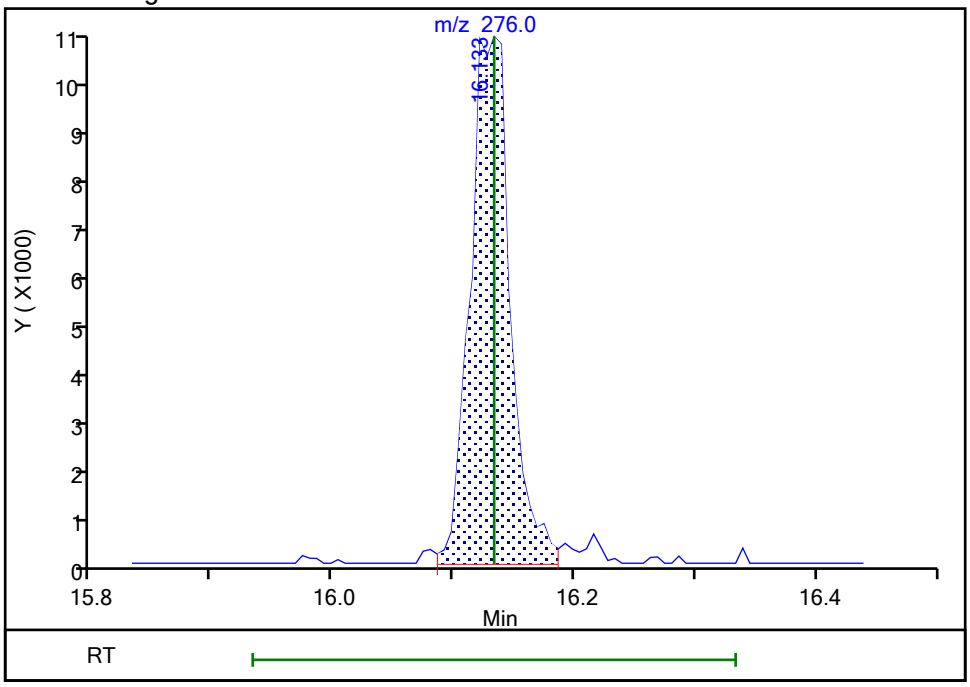
Processing Integration Results

RT: 16.12
Area: 21384
Amount: 0.110734
Amount Units: ug/ml



Manual Integration Results

RT: 16.13
Area: 23155
Amount: 0.118816
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 07:59:19 -04:00:00 (UTC)

Audit Action: Manually Integrated Audit Reason: Split Peak

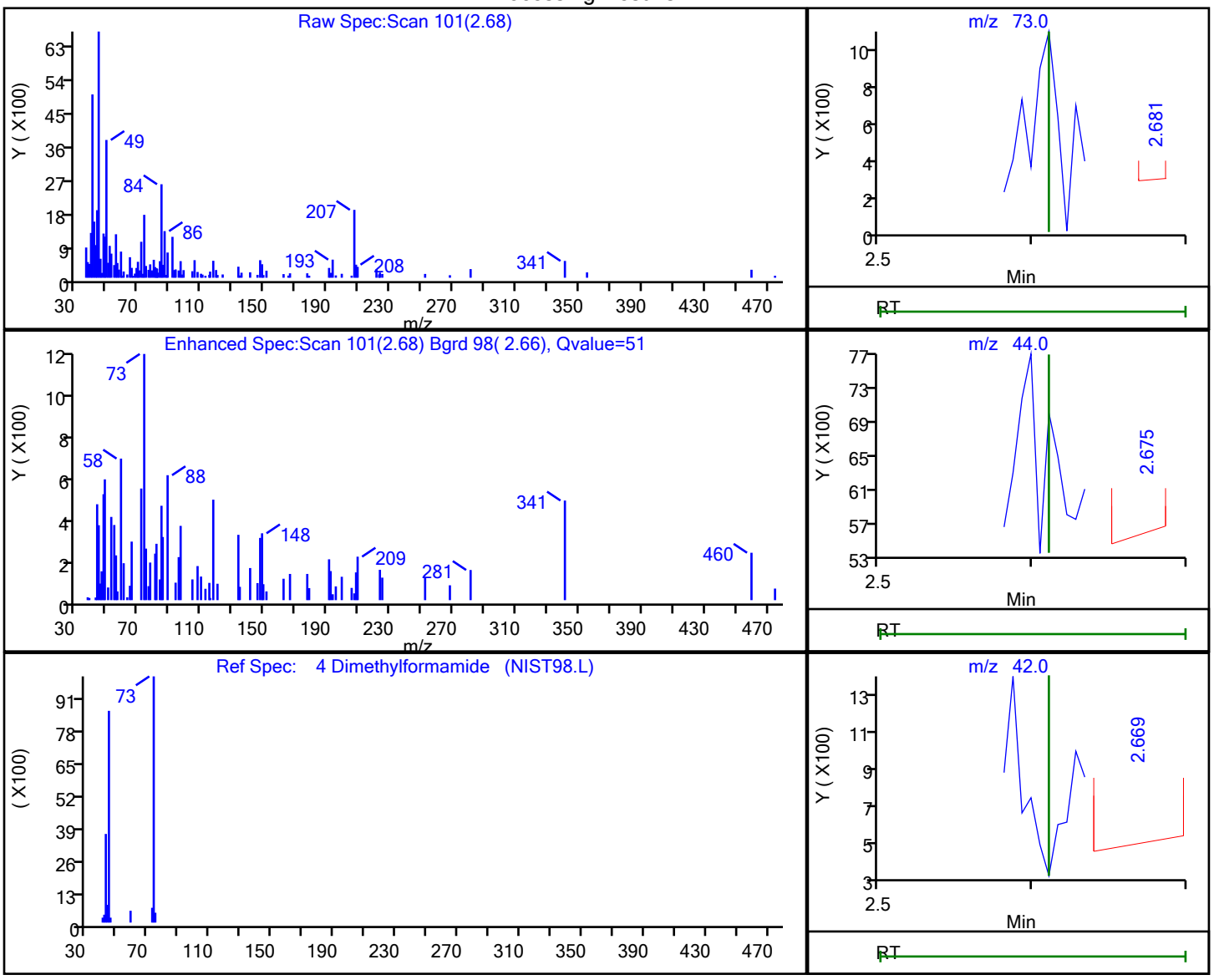
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2358.D				
Injection Date:	23-Jun-2025 23:36:30	Instrument ID:	HP18831		
Lims ID:	IC L1				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

4 Dimethylformamide, CAS: 68-12-2

Processing Results



RT	Mass	Response	Amount
2.68	73.00	729	0.126467
2.68	44.00	2353	
2.67	42.00	1934	

Reviewer: SJ89, 24-Jun-2025 07:57:51 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

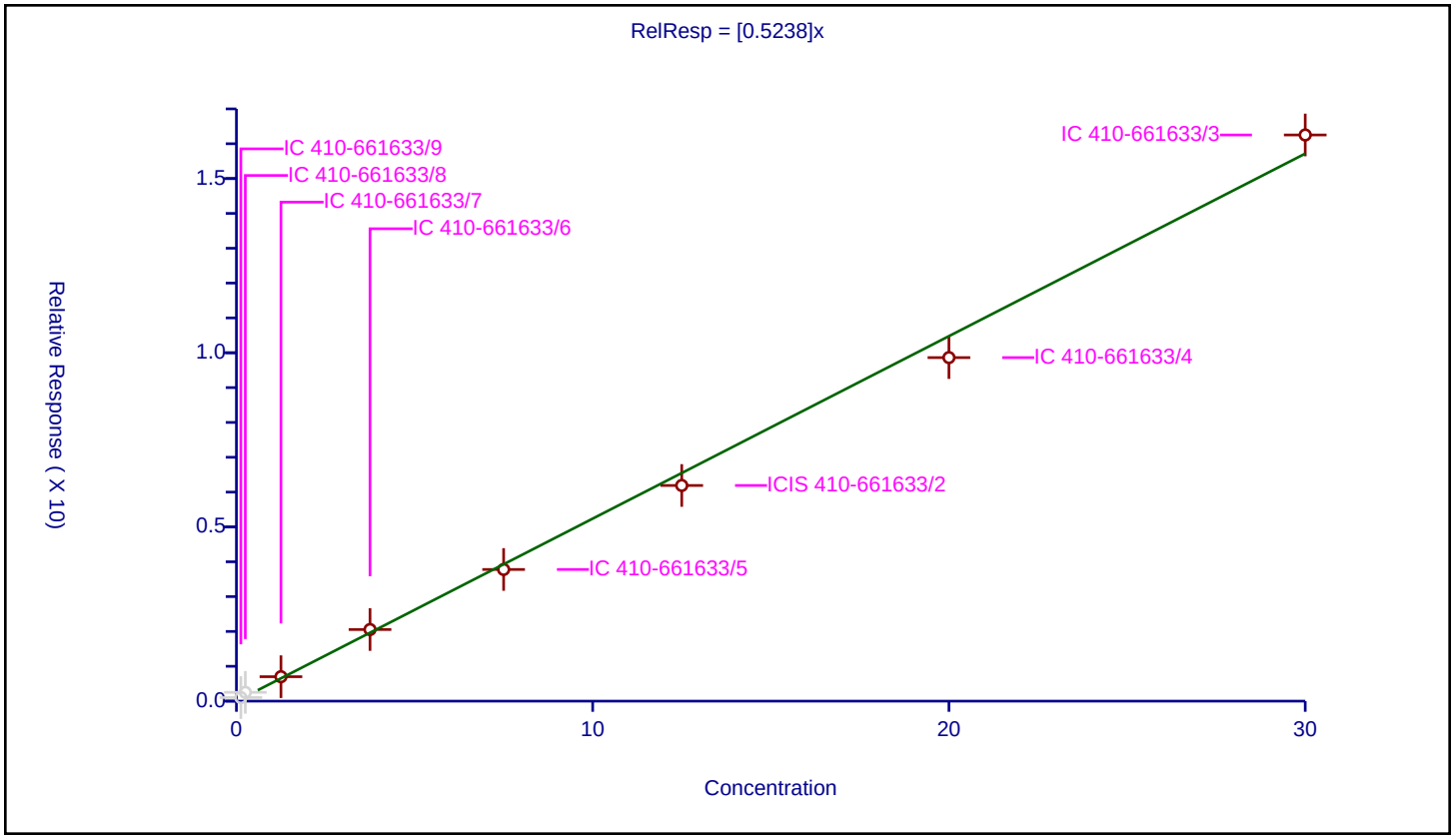
Curve Coefficients

Intercept:	0
Slope:	0.5238

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.102153	5.0	195246.0	0.817225	N
2	IC 410-661633/8	0.25	0.252695	5.0	178456.0	1.010781	N
3	IC 410-661633/7	1.25	0.701335	5.0	171031.0	0.561068	Y
4	IC 410-661633/6	3.75	2.055129	5.0	187959.0	0.548034	Y
5	IC 410-661633/5	7.5	3.779638	5.0	194766.0	0.503952	Y
6	ICIS 410-661633/2	12.5	6.190518	5.0	181463.0	0.495241	Y
7	IC 410-661633/4	20.0	9.86096	5.0	199008.0	0.493048	Y
8	IC 410-661633/3	30.0	16.251789	5.0	180262.0	0.541726	Y



Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

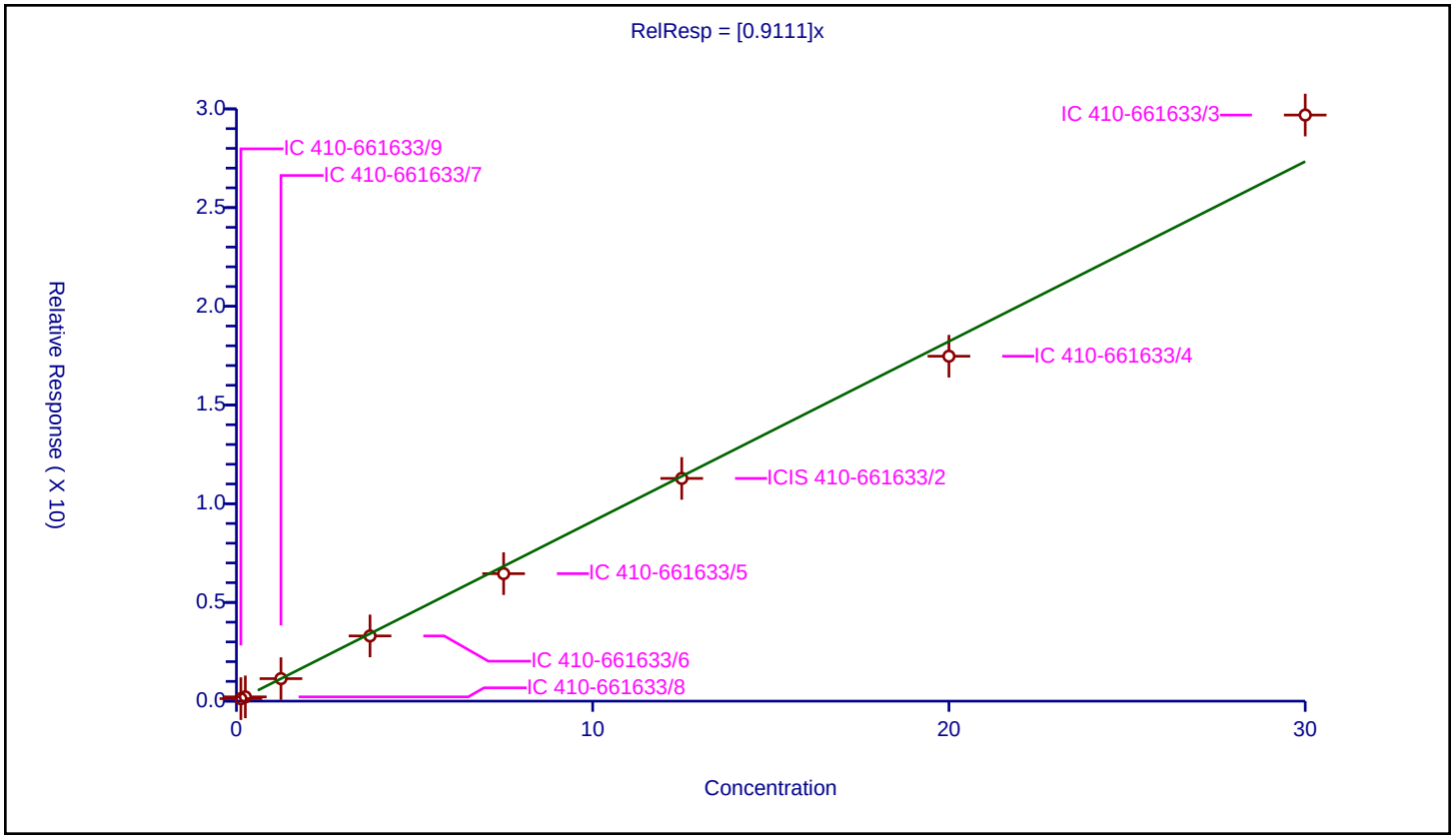
Curve Coefficients

Intercept:	0
Slope:	0.9111

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.125688	5.0	195246.0	1.005501	Y
2	IC 410-661633/8	0.25	0.21602	5.0	178456.0	0.864079	Y
3	IC 410-661633/7	1.25	1.139589	5.0	171031.0	0.911671	Y
4	IC 410-661633/6	3.75	3.303646	5.0	187959.0	0.880972	Y
5	IC 410-661633/5	7.5	6.457159	5.0	194766.0	0.860955	Y
6	ICIS 410-661633/2	12.5	11.282355	5.0	181463.0	0.902588	Y
7	IC 410-661633/4	20.0	17.471509	5.0	199008.0	0.873575	Y
8	IC 410-661633/3	30.0	29.687677	5.0	180262.0	0.989589	Y



Calibration / Pyridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

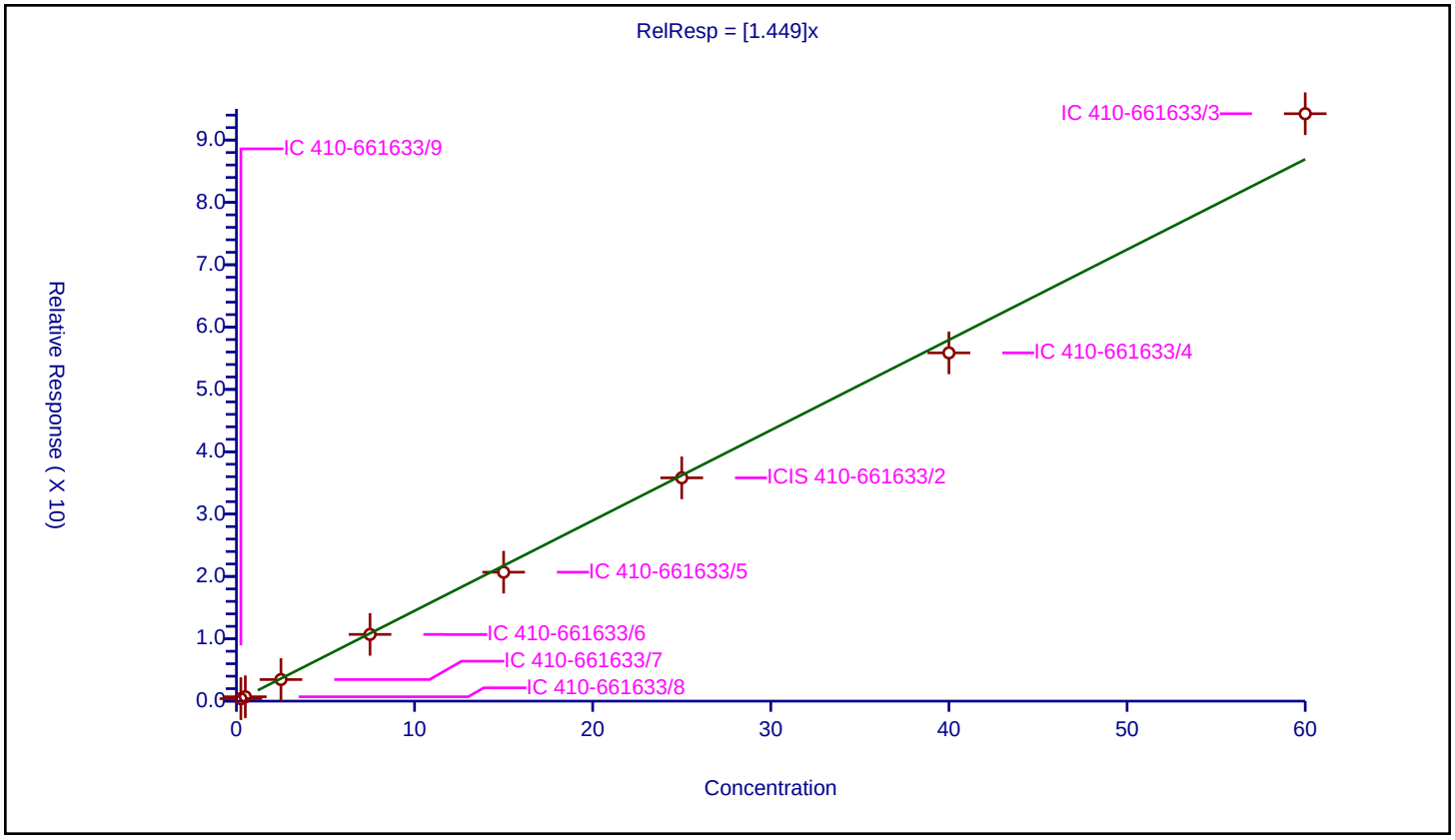
Curve Coefficients

Intercept:	0
Slope:	1.449

Error Coefficients

Relative Standard Deviation:	5.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.397166	5.0	195246.0	1.588663	Y
2	IC 410-661633/8	0.5	0.704684	5.0	178456.0	1.409367	Y
3	IC 410-661633/7	2.5	3.462793	5.0	171031.0	1.385117	Y
4	IC 410-661633/6	7.5	10.7055	5.0	187959.0	1.4274	Y
5	IC 410-661633/5	15.0	20.684745	5.0	194766.0	1.378983	Y
6	ICIS 410-661633/2	25.0	35.815648	5.0	181463.0	1.432626	Y
7	IC 410-661633/4	40.0	55.866171	5.0	199008.0	1.396654	Y
8	IC 410-661633/3	60.0	94.227486	5.0	180262.0	1.570458	Y



7/30/2025
1:47:08 PM

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

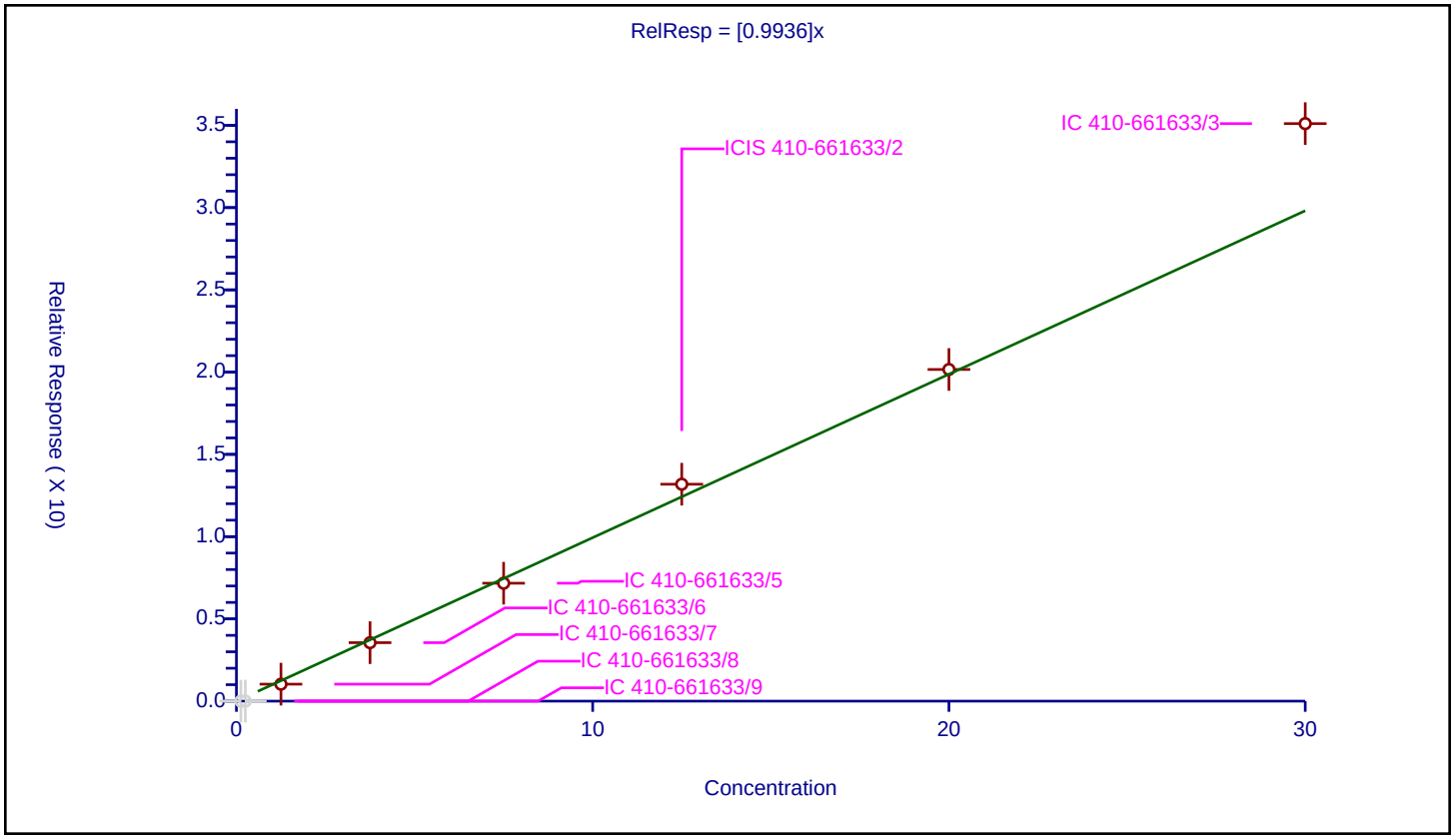
Curve Coefficients

Intercept:	0
Slope:	0.9936

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.0	5.0	195246.0	0.0	N
2	IC 410-661633/8	0.25	0.0	5.0	178456.0	0.0	N
3	IC 410-661633/7	1.25	1.031538	5.0	171031.0	0.825231	Y
4	IC 410-661633/6	3.75	3.554286	5.0	187959.0	0.94781	Y
5	IC 410-661633/5	7.5	7.16814	5.0	194766.0	0.955752	Y
6	ICIS 410-661633/2	12.5	13.186132	5.0	181463.0	1.054891	Y
7	IC 410-661633/4	20.0	20.160345	5.0	199008.0	1.008017	Y
8	IC 410-661633/3	30.0	35.104515	5.0	180262.0	1.17015	Y



Calibration / 2-Picoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

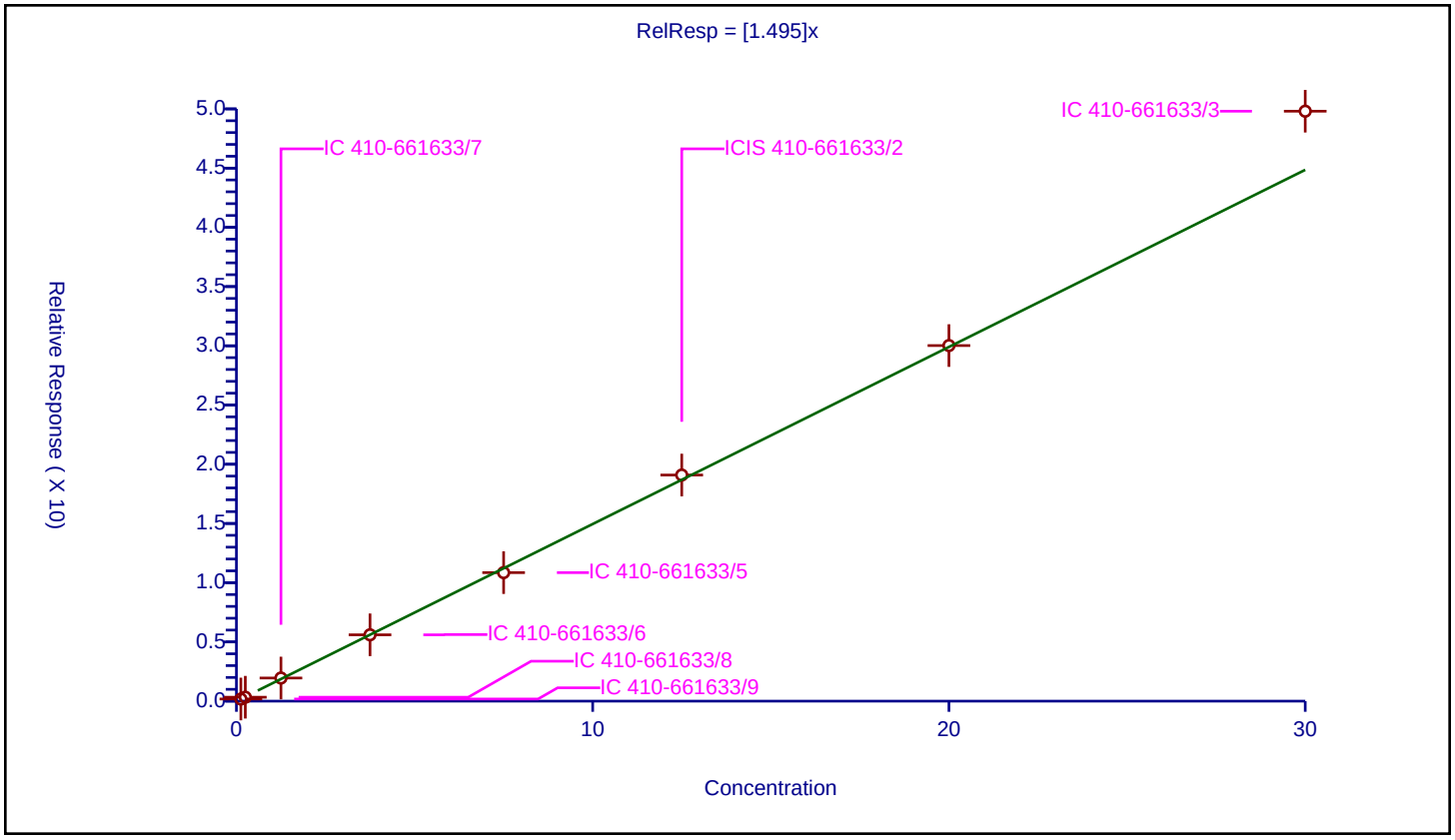
Curve Coefficients

Intercept:	0
Slope:	1.495

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.180695	5.0	195246.0	1.445561	Y
2	IC 410-661633/8	0.25	0.330978	5.0	178456.0	1.323912	Y
3	IC 410-661633/7	1.25	1.953301	5.0	171031.0	1.562641	Y
4	IC 410-661633/6	3.75	5.601115	5.0	187959.0	1.493631	Y
5	IC 410-661633/5	7.5	10.850097	5.0	194766.0	1.44668	Y
6	ICIS 410-661633/2	12.5	19.08896	5.0	181463.0	1.527117	Y
7	IC 410-661633/4	20.0	30.020351	5.0	199008.0	1.501018	Y
8	IC 410-661633/3	30.0	49.80459	5.0	180262.0	1.660153	Y



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Calibration / N-Nitrosomethylethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

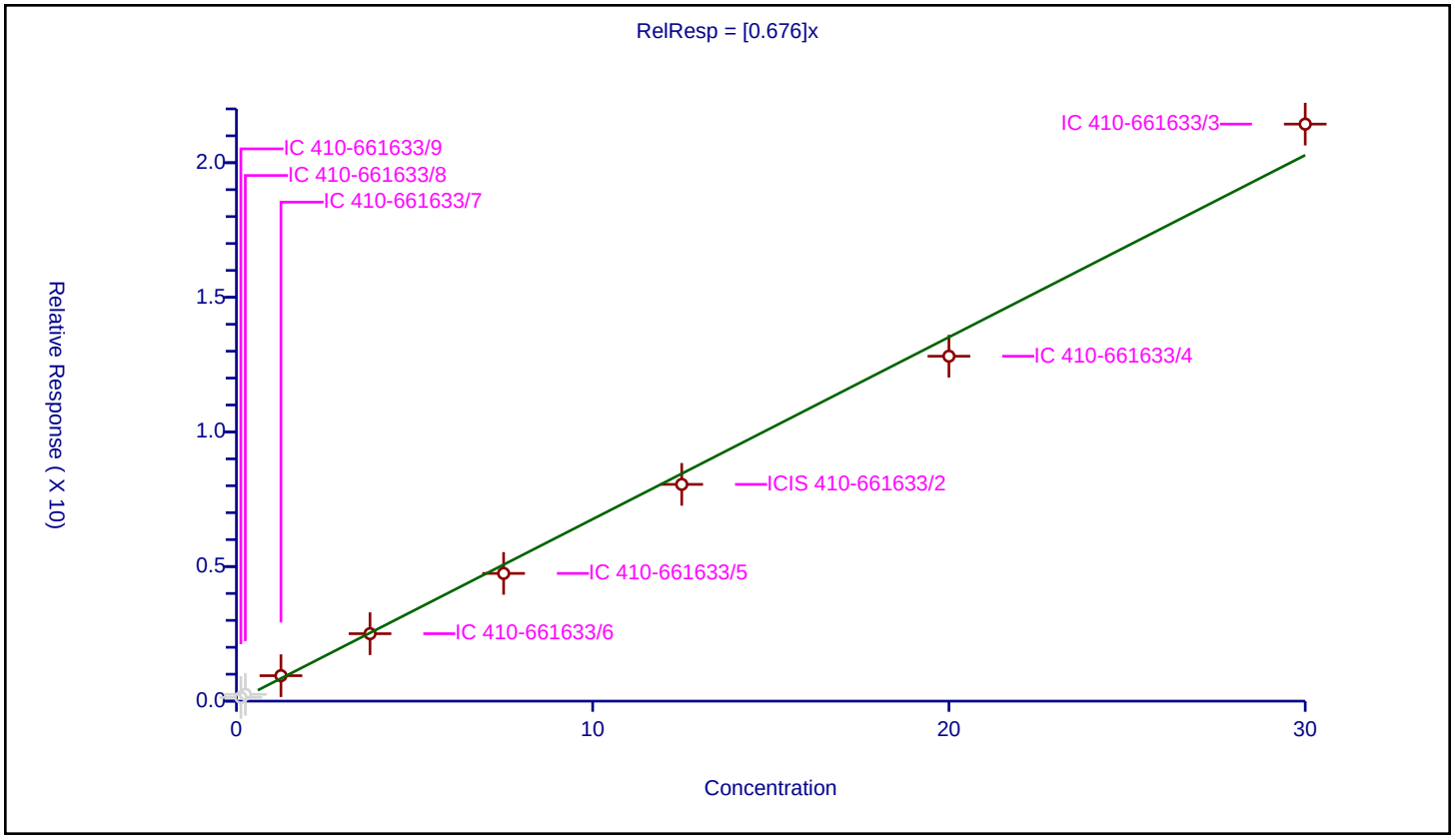
Curve Coefficients

Intercept:	0
Slope:	0.676

Error Coefficients

Relative Standard Deviation:	7.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.138492	5.0	195246.0	1.107936	N
2	IC 410-661633/8	0.25	0.252835	5.0	178456.0	1.011342	N
3	IC 410-661633/7	1.25	0.945209	5.0	171031.0	0.756167	Y
4	IC 410-661633/6	3.75	2.505919	5.0	187959.0	0.668245	Y
5	IC 410-661633/5	7.5	4.744334	5.0	194766.0	0.632578	Y
6	ICIS 410-661633/2	12.5	8.051476	5.0	181463.0	0.644118	Y
7	IC 410-661633/4	20.0	12.812801	5.0	199008.0	0.64064	Y
8	IC 410-661633/3	30.0	21.435078	5.0	180262.0	0.714503	Y



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Calibration / Methyl methanesulfonate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

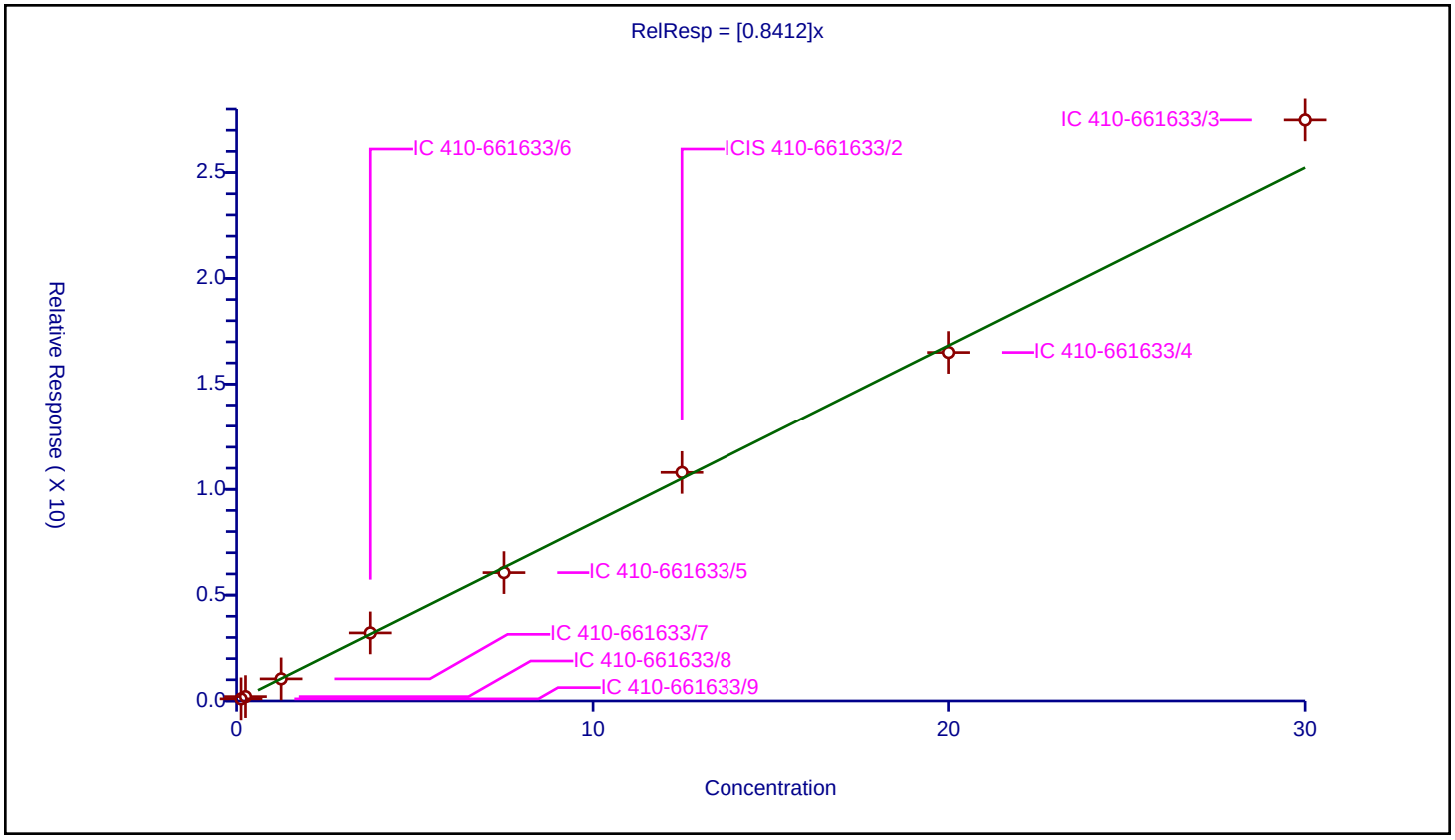
Curve Coefficients

Intercept:	0
Slope:	0.8412

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.100361	5.0	195246.0	0.802885	Y
2	IC 410-661633/8	0.25	0.205457	5.0	178456.0	0.821827	Y
3	IC 410-661633/7	1.25	1.042881	5.0	171031.0	0.834305	Y
4	IC 410-661633/6	3.75	3.213467	5.0	187959.0	0.856924	Y
5	IC 410-661633/5	7.5	6.062531	5.0	194766.0	0.808338	Y
6	ICIS 410-661633/2	12.5	10.799254	5.0	181463.0	0.86394	Y
7	IC 410-661633/4	20.0	16.497327	5.0	199008.0	0.824866	Y
8	IC 410-661633/3	30.0	27.48713	5.0	180262.0	0.916238	Y



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Calibration / 2-Fluorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

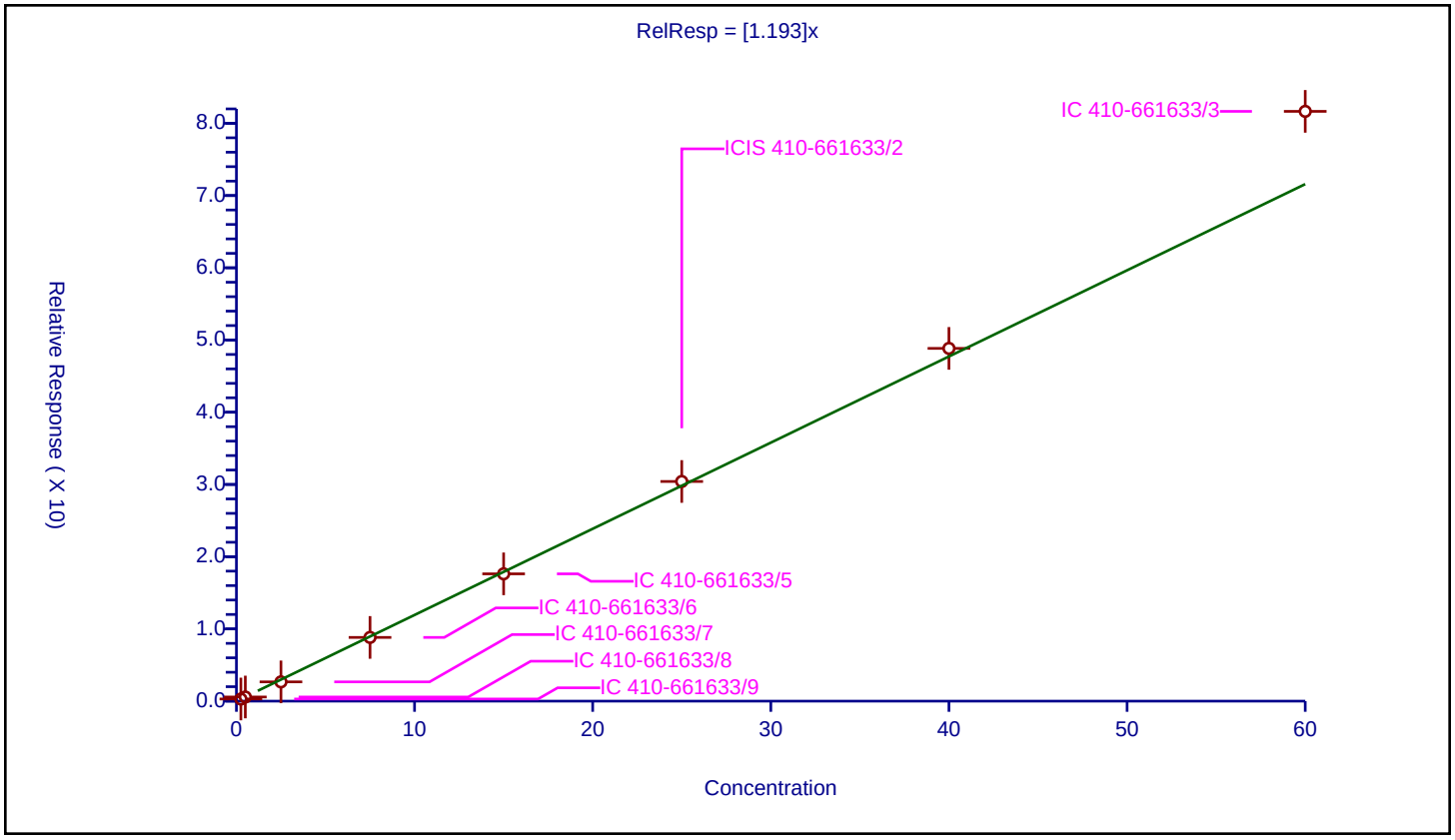
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.29596	5.0	195246.0	1.18384	Y
2	IC 410-661633/8	0.5	0.571682	5.0	178456.0	1.143363	Y
3	IC 410-661633/7	2.5	2.667411	5.0	171031.0	1.066964	Y
4	IC 410-661633/6	7.5	8.822722	5.0	187959.0	1.176363	Y
5	IC 410-661633/5	15.0	17.625997	5.0	194766.0	1.175066	Y
6	ICIS 410-661633/2	25.0	30.414602	5.0	181463.0	1.216584	Y
7	IC 410-661633/4	40.0	48.841931	5.0	199008.0	1.221048	Y
8	IC 410-661633/3	60.0	81.656977	5.0	180262.0	1.36095	Y



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Calibration / N-Nitrosodiethylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

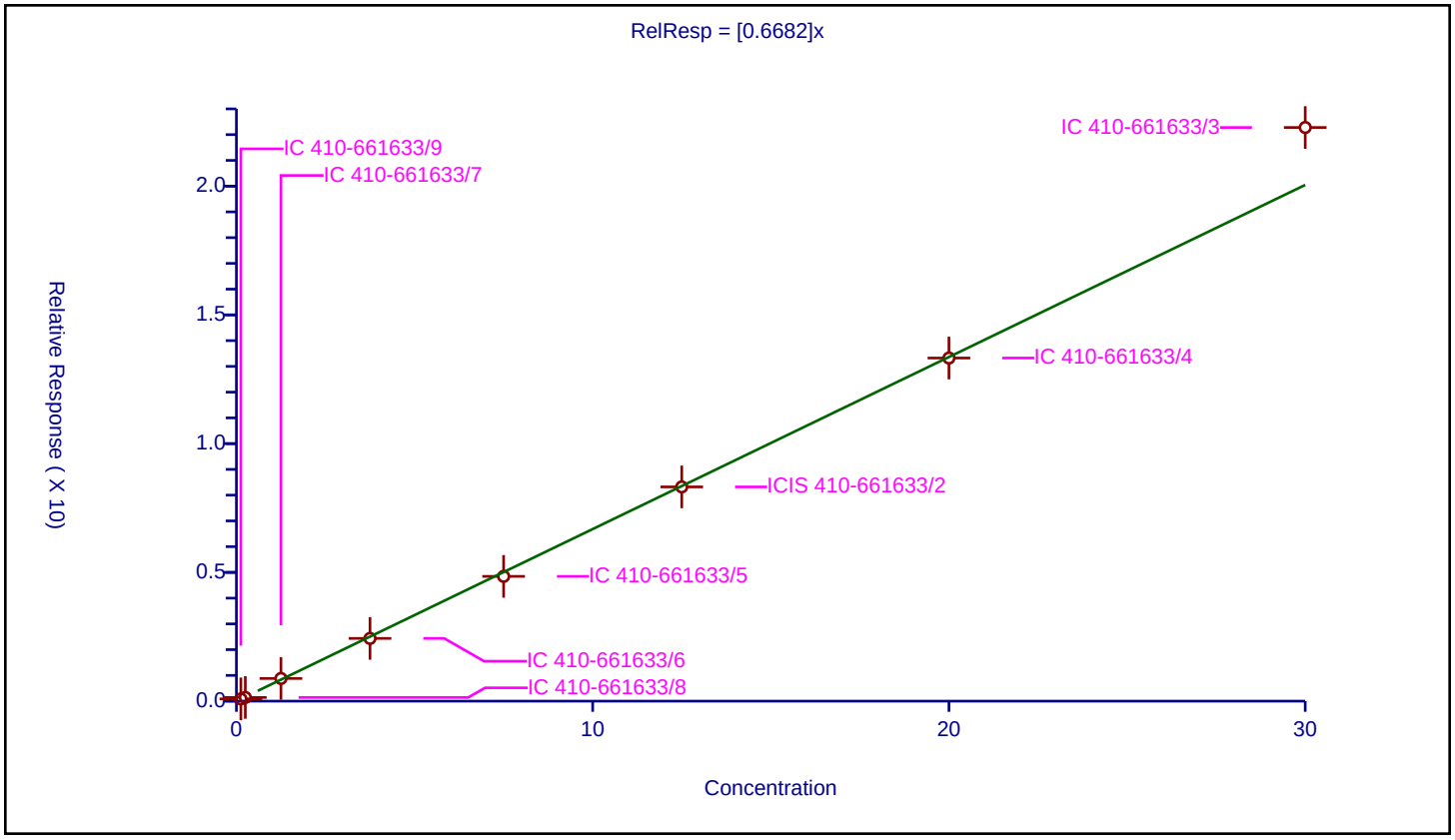
Curve Coefficients

Intercept:	0
Slope:	0.6682

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.087428	5.0	195246.0	0.699425	Y
2	IC 410-661633/8	0.25	0.14292	5.0	178456.0	0.571682	Y
3	IC 410-661633/7	1.25	0.880776	5.0	171031.0	0.704621	Y
4	IC 410-661633/6	3.75	2.43593	5.0	187959.0	0.649581	Y
5	IC 410-661633/5	7.5	4.845173	5.0	194766.0	0.646023	Y
6	ICIS 410-661633/2	12.5	8.319547	5.0	181463.0	0.665564	Y
7	IC 410-661633/4	20.0	13.324339	5.0	199008.0	0.666217	Y
8	IC 410-661633/3	30.0	22.276908	5.0	180262.0	0.742564	Y



Calibration / Ethyl methanesulfonate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

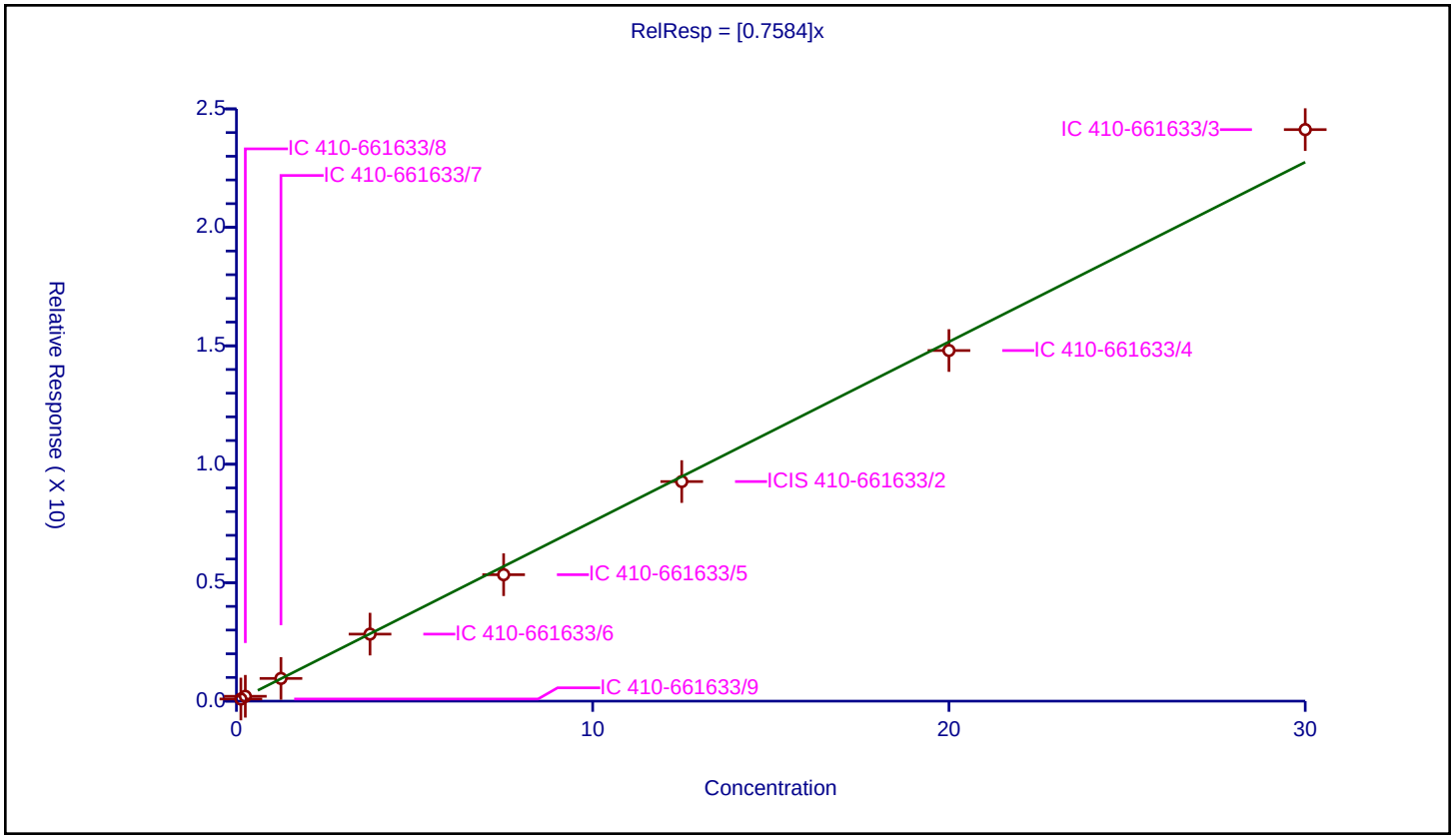
Curve Coefficients

Intercept:	0
Slope:	0.7584

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.091039	5.0	195246.0	0.728312	Y
2	IC 410-661633/8	0.25	0.205037	5.0	178456.0	0.820146	Y
3	IC 410-661633/7	1.25	0.958715	5.0	171031.0	0.766972	Y
4	IC 410-661633/6	3.75	2.829261	5.0	187959.0	0.75447	Y
5	IC 410-661633/5	7.5	5.337764	5.0	194766.0	0.711702	Y
6	ICIS 410-661633/2	12.5	9.269521	5.0	181463.0	0.741562	Y
7	IC 410-661633/4	20.0	14.801013	5.0	199008.0	0.740051	Y
8	IC 410-661633/3	30.0	24.125689	5.0	180262.0	0.80419	Y



Calibration / Benzaldehyde

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

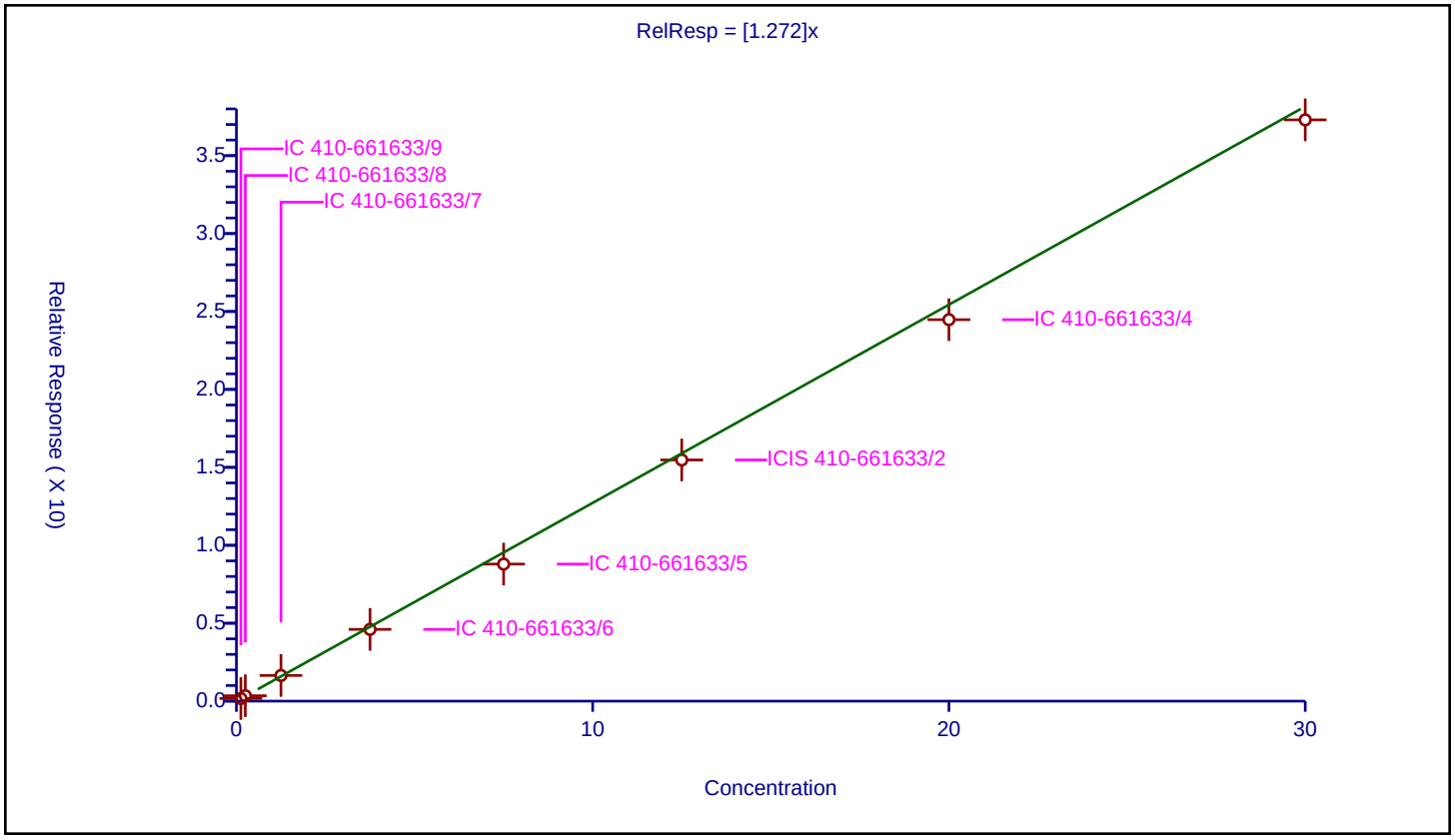
Curve Coefficients

Intercept:	0
Slope:	1.272

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.170733	5.0	195246.0	1.365867	Y
2	IC 410-661633/8	0.25	0.346836	5.0	178456.0	1.387345	Y
3	IC 410-661633/7	1.25	1.645725	5.0	171031.0	1.31658	Y
4	IC 410-661633/6	3.75	4.605047	5.0	187959.0	1.228012	Y
5	IC 410-661633/5	7.5	8.793732	5.0	194766.0	1.172498	Y
6	ICIS 410-661633/2	12.5	15.474615	5.0	181463.0	1.237969	Y
7	IC 410-661633/4	20.0	24.475599	5.0	199008.0	1.22378	Y
8	IC 410-661633/3	30.0	37.296186	5.0	180262.0	1.243206	Y



Calibration / Phenol-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

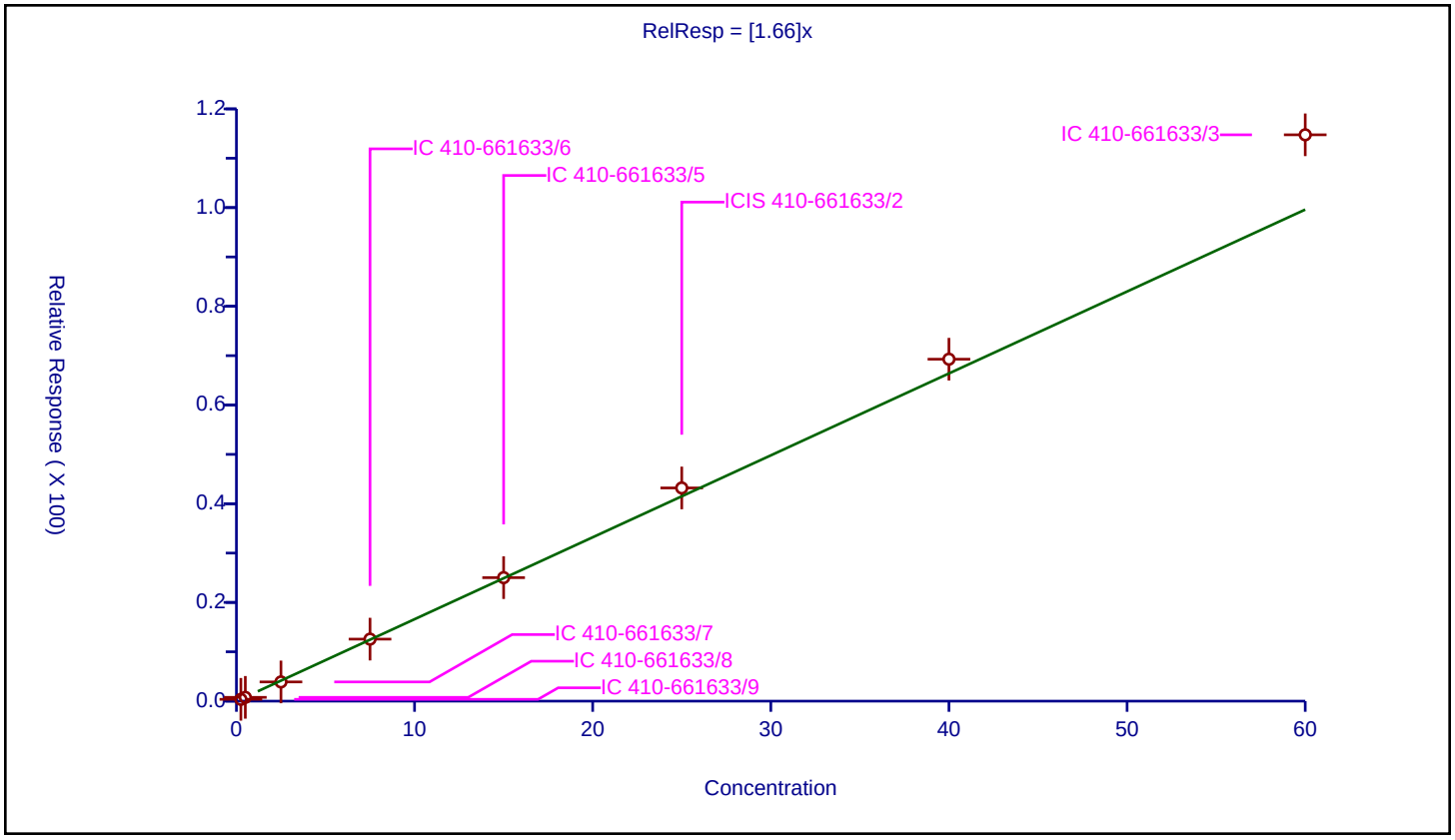
Curve Coefficients

Intercept:	0
Slope:	1.66

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.3681	5.0	195246.0	1.472399	Y
2	IC 410-661633/8	0.5	0.766912	5.0	178456.0	1.533823	Y
3	IC 410-661633/7	2.5	3.893505	5.0	171031.0	1.557402	Y
4	IC 410-661633/6	7.5	12.566757	5.0	187959.0	1.675568	Y
5	IC 410-661633/5	15.0	25.02177	5.0	194766.0	1.668118	Y
6	ICIS 410-661633/2	25.0	43.195555	5.0	181463.0	1.727822	Y
7	IC 410-661633/4	40.0	69.284777	5.0	199008.0	1.732119	Y
8	IC 410-661633/3	60.0	114.74673	5.0	180262.0	1.912445	Y



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Calibration / Phenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

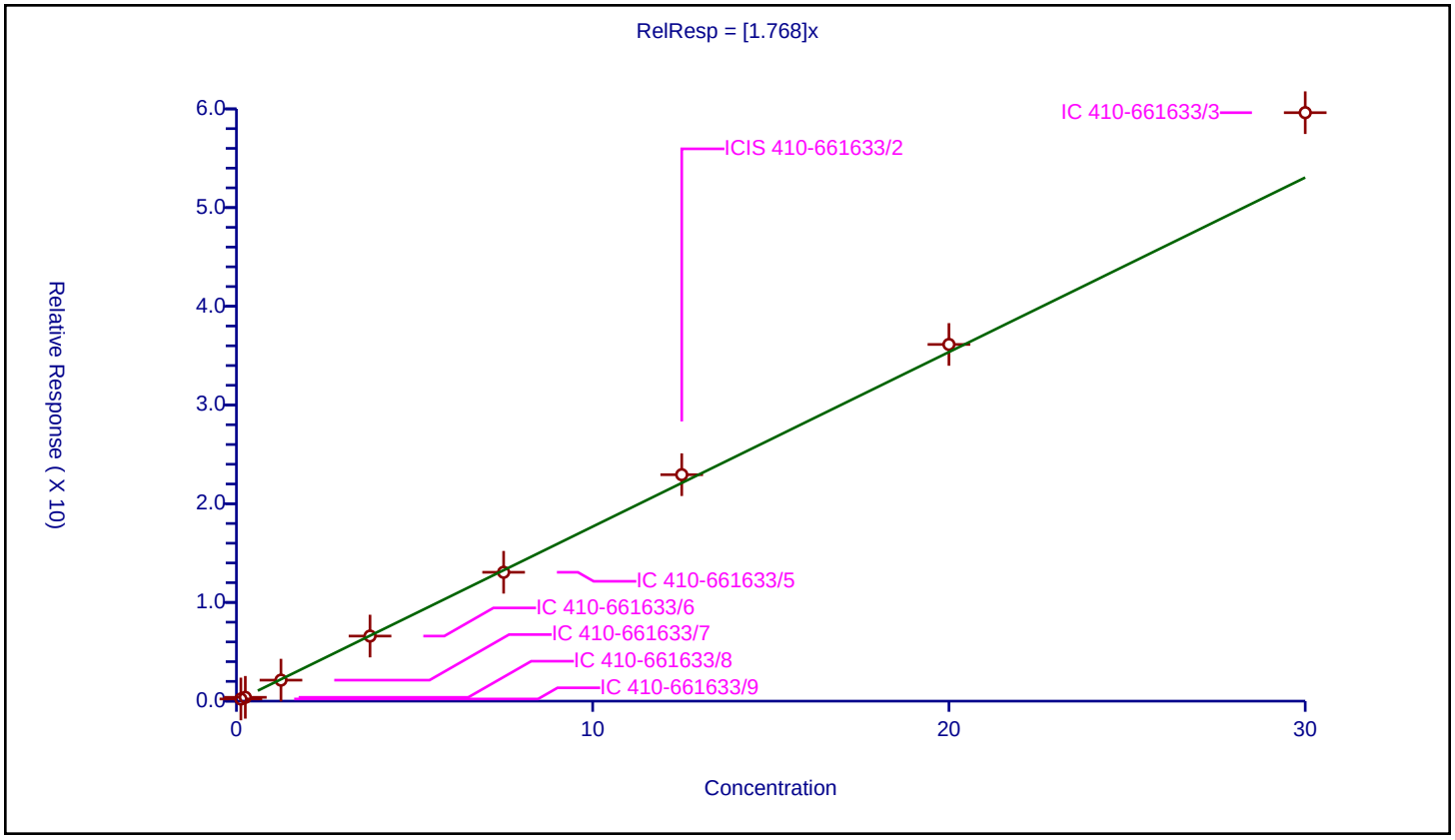
Curve Coefficients

Intercept:	0
Slope:	1.768

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.220645	5.0	195246.0	1.765158	Y
2	IC 410-661633/8	0.25	0.387715	5.0	178456.0	1.550858	Y
3	IC 410-661633/7	1.25	2.127275	5.0	171031.0	1.70182	Y
4	IC 410-661633/6	3.75	6.592049	5.0	187959.0	1.75788	Y
5	IC 410-661633/5	7.5	13.055769	5.0	194766.0	1.740769	Y
6	ICIS 410-661633/2	12.5	22.943162	5.0	181463.0	1.835453	Y
7	IC 410-661633/4	20.0	36.136587	5.0	199008.0	1.806829	Y
8	IC 410-661633/3	30.0	59.617806	5.0	180262.0	1.98726	Y



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Calibration / Aniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

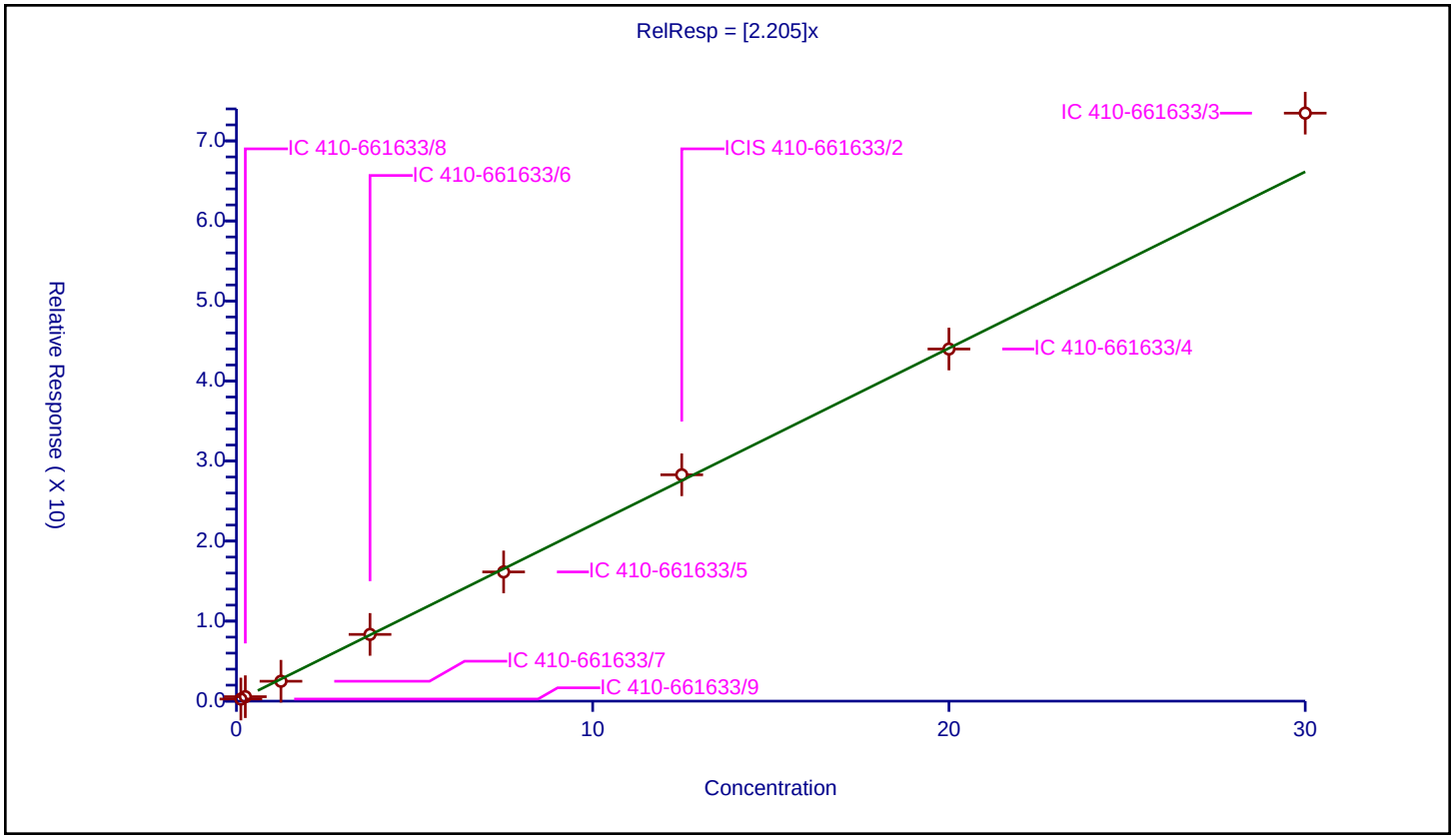
Curve Coefficients

Intercept:	0
Slope:	2.205

Error Coefficients

Relative Standard Deviation:	5.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.265819	5.0	195246.0	2.126548	Y
2	IC 410-661633/8	0.25	0.558793	5.0	178456.0	2.235173	Y
3	IC 410-661633/7	1.25	2.486099	5.0	171031.0	1.988879	Y
4	IC 410-661633/6	3.75	8.338813	5.0	187959.0	2.223684	Y
5	IC 410-661633/5	7.5	16.146555	5.0	194766.0	2.152874	Y
6	ICIS 410-661633/2	12.5	28.280779	5.0	181463.0	2.262462	Y
7	IC 410-661633/4	20.0	43.996648	5.0	199008.0	2.199832	Y
8	IC 410-661633/3	30.0	73.465927	5.0	180262.0	2.448864	Y



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Calibration / Bis(2-chloroethyl)ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

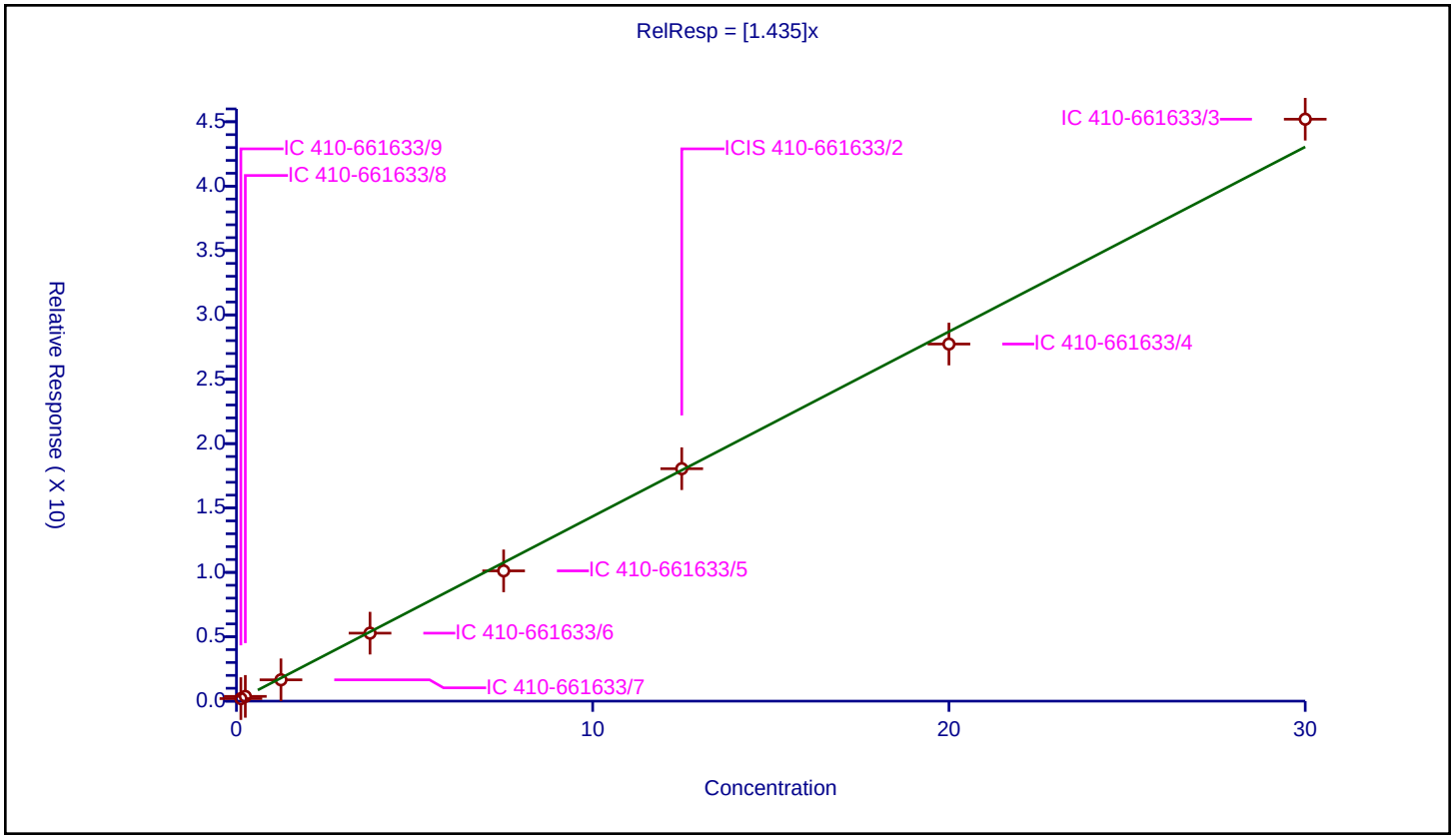
Curve Coefficients

Intercept:	0
Slope:	1.435

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.198032	5.0	195246.0	1.584258	Y
2	IC 410-661633/8	0.25	0.368971	5.0	178456.0	1.475882	Y
3	IC 410-661633/7	1.25	1.655489	5.0	171031.0	1.324391	Y
4	IC 410-661633/6	3.75	5.280247	5.0	187959.0	1.408066	Y
5	IC 410-661633/5	7.5	10.11922	5.0	194766.0	1.349229	Y
6	ICIS 410-661633/2	12.5	18.053791	5.0	181463.0	1.444303	Y
7	IC 410-661633/4	20.0	27.736071	5.0	199008.0	1.386804	Y
8	IC 410-661633/3	30.0	45.200264	5.0	180262.0	1.506675	Y



Calibration / 2-Chlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

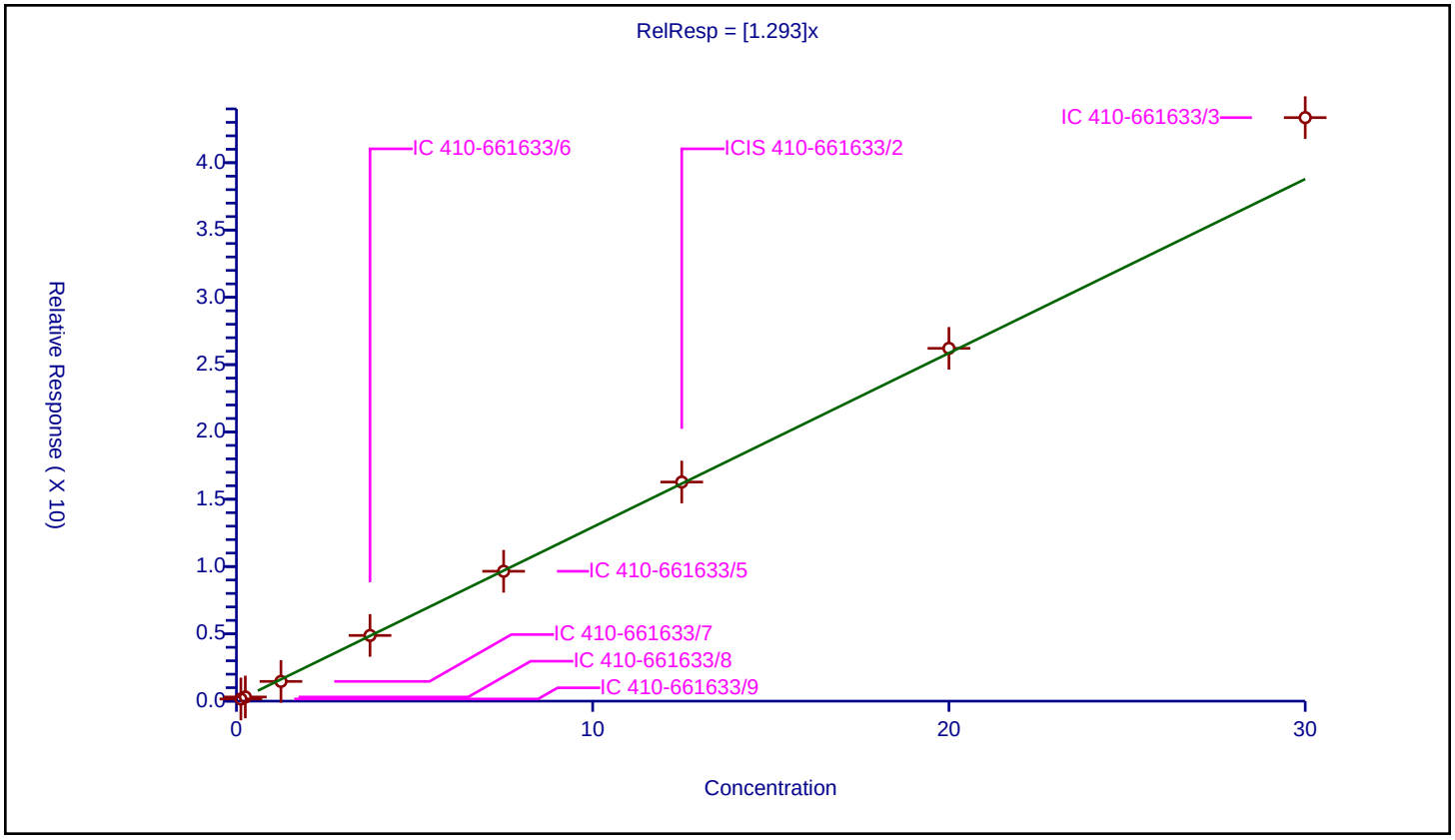
Curve Coefficients

Intercept:	0
Slope:	1.293

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.161181	5.0	195246.0	1.28945	Y
2	IC 410-661633/8	0.25	0.309096	5.0	178456.0	1.236383	Y
3	IC 410-661633/7	1.25	1.464734	5.0	171031.0	1.171788	Y
4	IC 410-661633/6	3.75	4.879628	5.0	187959.0	1.301234	Y
5	IC 410-661633/5	7.5	9.649682	5.0	194766.0	1.286624	Y
6	ICIS 410-661633/2	12.5	16.277092	5.0	181463.0	1.302167	Y
7	IC 410-661633/4	20.0	26.210529	5.0	199008.0	1.310526	Y
8	IC 410-661633/3	30.0	43.351427	5.0	180262.0	1.445048	Y



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Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

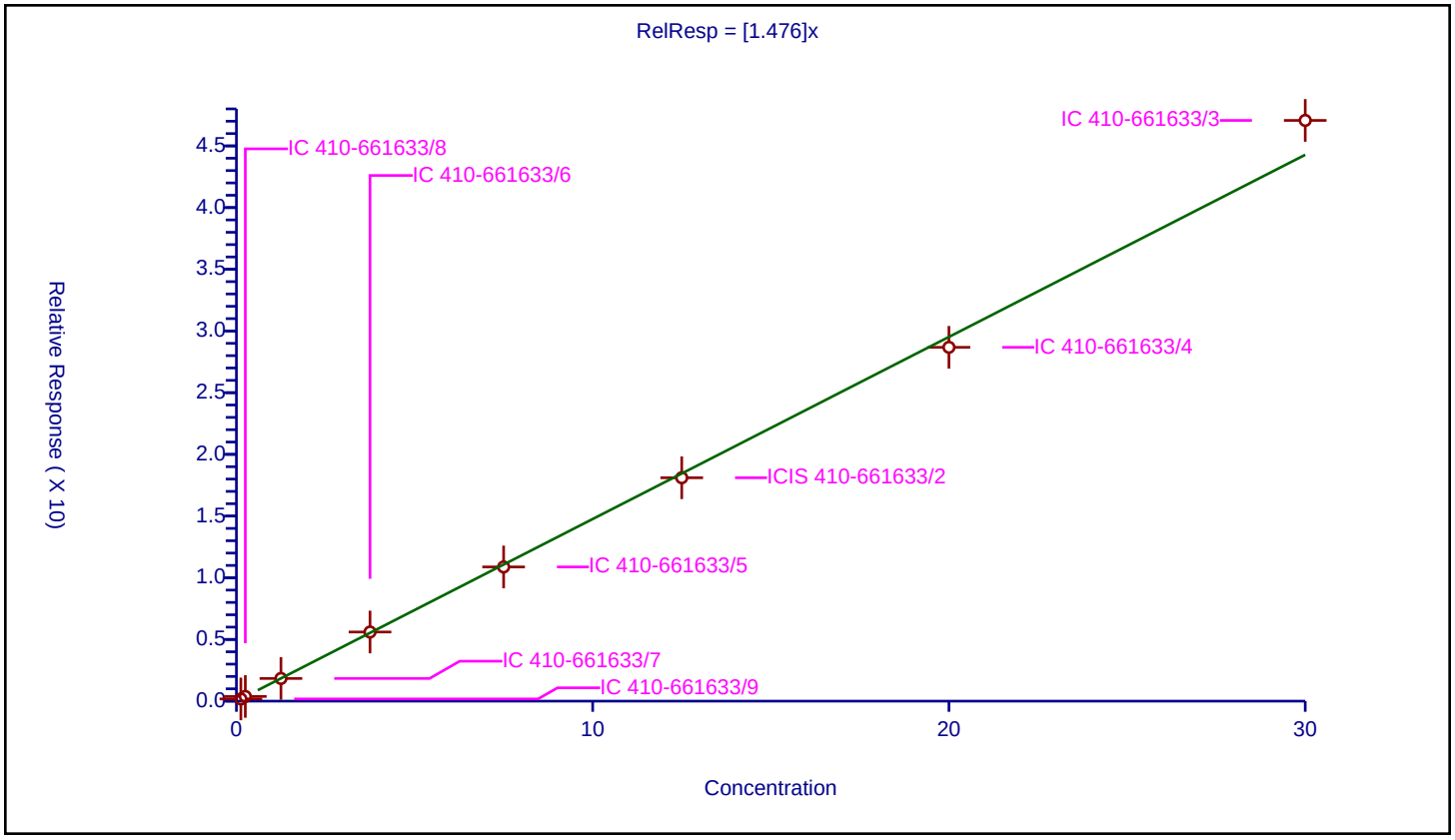
Curve Coefficients

Intercept:	0
Slope:	1.476

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.177366	5.0	195246.0	1.418928	Y
2	IC 410-661633/8	0.25	0.38085	5.0	178456.0	1.523401	Y
3	IC 410-661633/7	1.25	1.837649	5.0	171031.0	1.470119	Y
4	IC 410-661633/6	3.75	5.602871	5.0	187959.0	1.494099	Y
5	IC 410-661633/5	7.5	10.875204	5.0	194766.0	1.450027	Y
6	ICIS 410-661633/2	12.5	18.105178	5.0	181463.0	1.448414	Y
7	IC 410-661633/4	20.0	28.676611	5.0	199008.0	1.433831	Y
8	IC 410-661633/3	30.0	47.065077	5.0	180262.0	1.568836	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

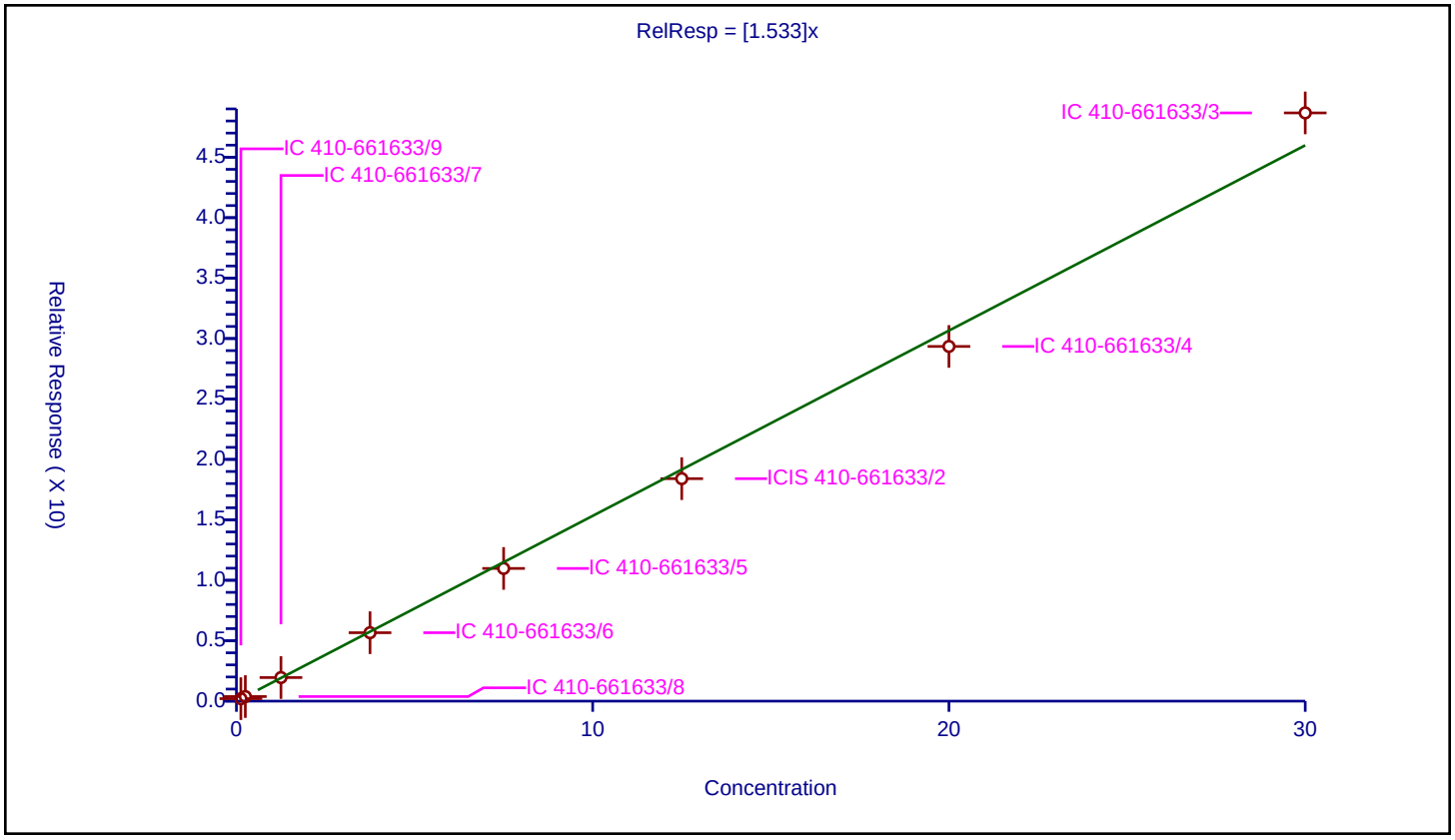
Curve Coefficients

Intercept:	0
Slope:	1.533

Error Coefficients

Relative Standard Deviation:	4.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.206329	5.0	195246.0	1.650636	Y
2	IC 410-661633/8	0.25	0.379001	5.0	178456.0	1.516004	Y
3	IC 410-661633/7	1.25	1.950173	5.0	171031.0	1.560138	Y
4	IC 410-661633/6	3.75	5.661687	5.0	187959.0	1.509783	Y
5	IC 410-661633/5	7.5	10.978713	5.0	194766.0	1.463828	Y
6	ICIS 410-661633/2	12.5	18.40816	5.0	181463.0	1.472653	Y
7	IC 410-661633/4	20.0	29.346659	5.0	199008.0	1.467333	Y
8	IC 410-661633/3	30.0	48.667689	5.0	180262.0	1.622256	Y



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Calibration / Benzyl alcohol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

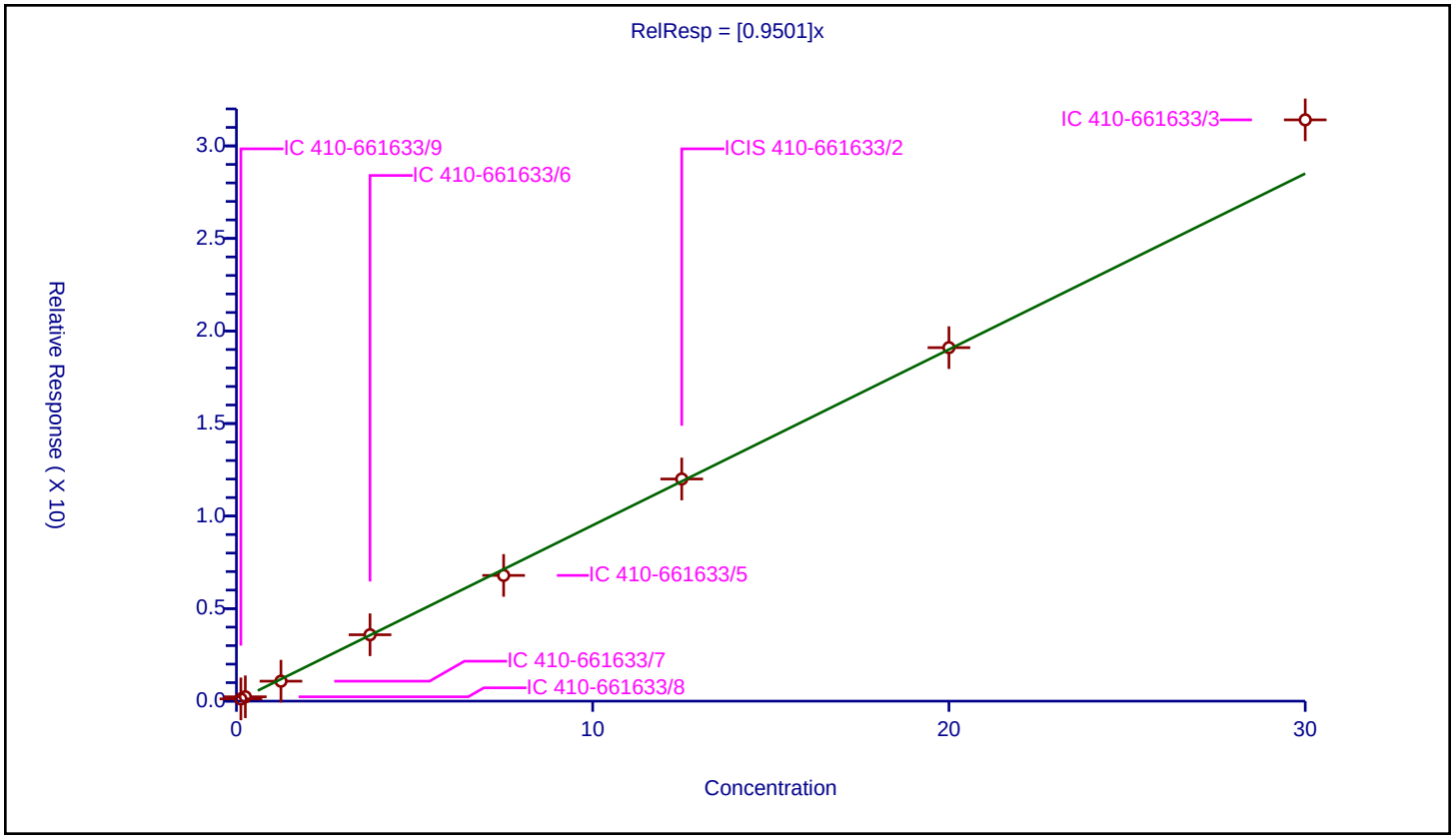
Curve Coefficients

Intercept:	0
Slope:	0.9501

Error Coefficients

Relative Standard Deviation:	5.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.121206	5.0	195246.0	0.969649	Y
2	IC 410-661633/8	0.25	0.235941	5.0	178456.0	0.943762	Y
3	IC 410-661633/7	1.25	1.07919	5.0	171031.0	0.863352	Y
4	IC 410-661633/6	3.75	3.586394	5.0	187959.0	0.956372	Y
5	IC 410-661633/5	7.5	6.7931	5.0	194766.0	0.905747	Y
6	ICIS 410-661633/2	12.5	12.003301	5.0	181463.0	0.960264	Y
7	IC 410-661633/4	20.0	19.100514	5.0	199008.0	0.955026	Y
8	IC 410-661633/3	30.0	31.40698	5.0	180262.0	1.046899	Y



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Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

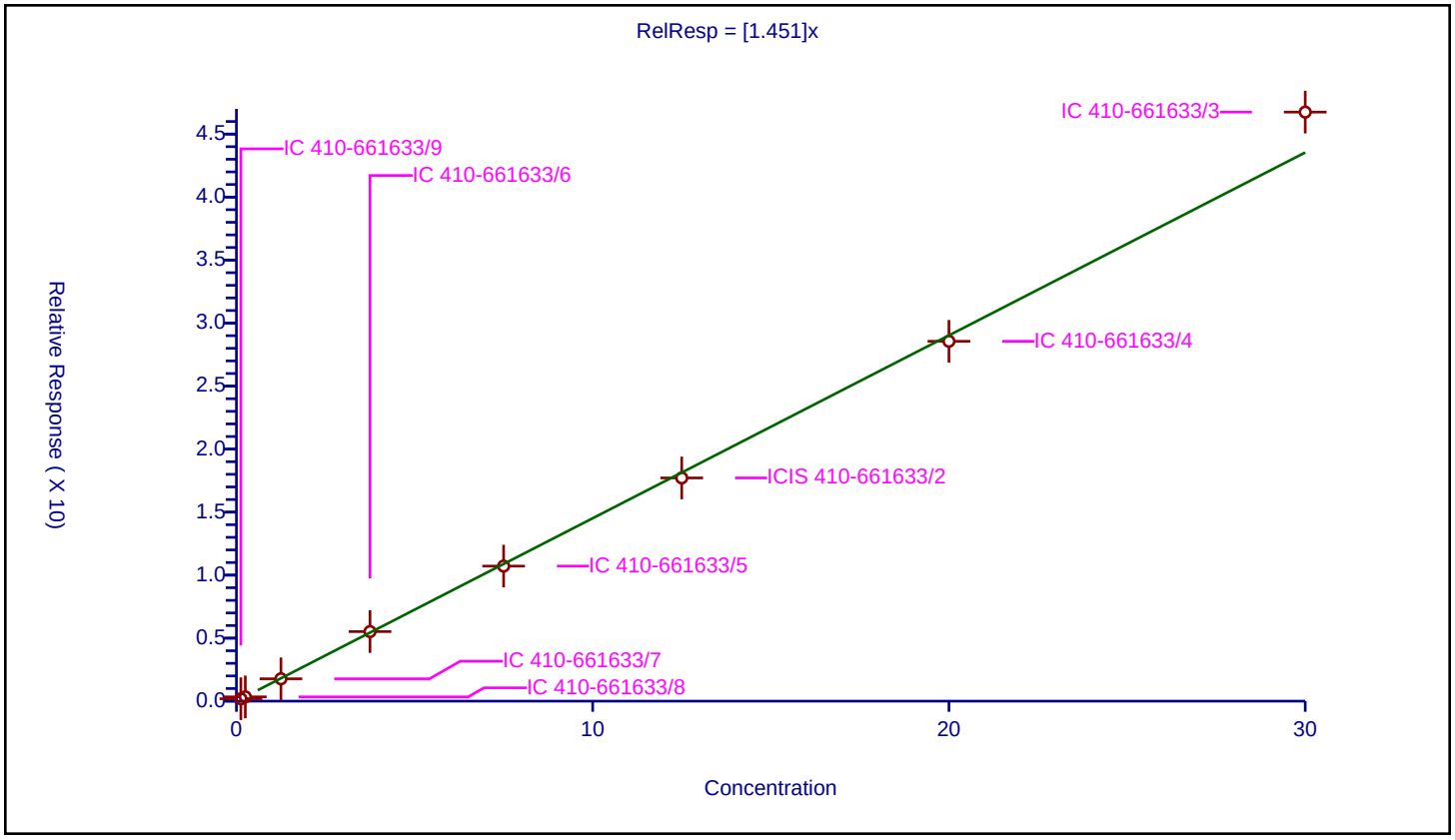
Curve Coefficients

Intercept:	0
Slope:	1.451

Error Coefficients

Relative Standard Deviation:	4.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.19163	5.0	195246.0	1.53304	Y
2	IC 410-661633/8	0.25	0.338403	5.0	178456.0	1.353611	Y
3	IC 410-661633/7	1.25	1.774737	5.0	171031.0	1.419789	Y
4	IC 410-661633/6	3.75	5.519954	5.0	187959.0	1.471988	Y
5	IC 410-661633/5	7.5	10.718144	5.0	194766.0	1.429086	Y
6	ICIS 410-661633/2	12.5	17.713473	5.0	181463.0	1.417078	Y
7	IC 410-661633/4	20.0	28.559028	5.0	199008.0	1.427951	Y
8	IC 410-661633/3	30.0	46.743601	5.0	180262.0	1.55812	Y



Calibration / 2-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

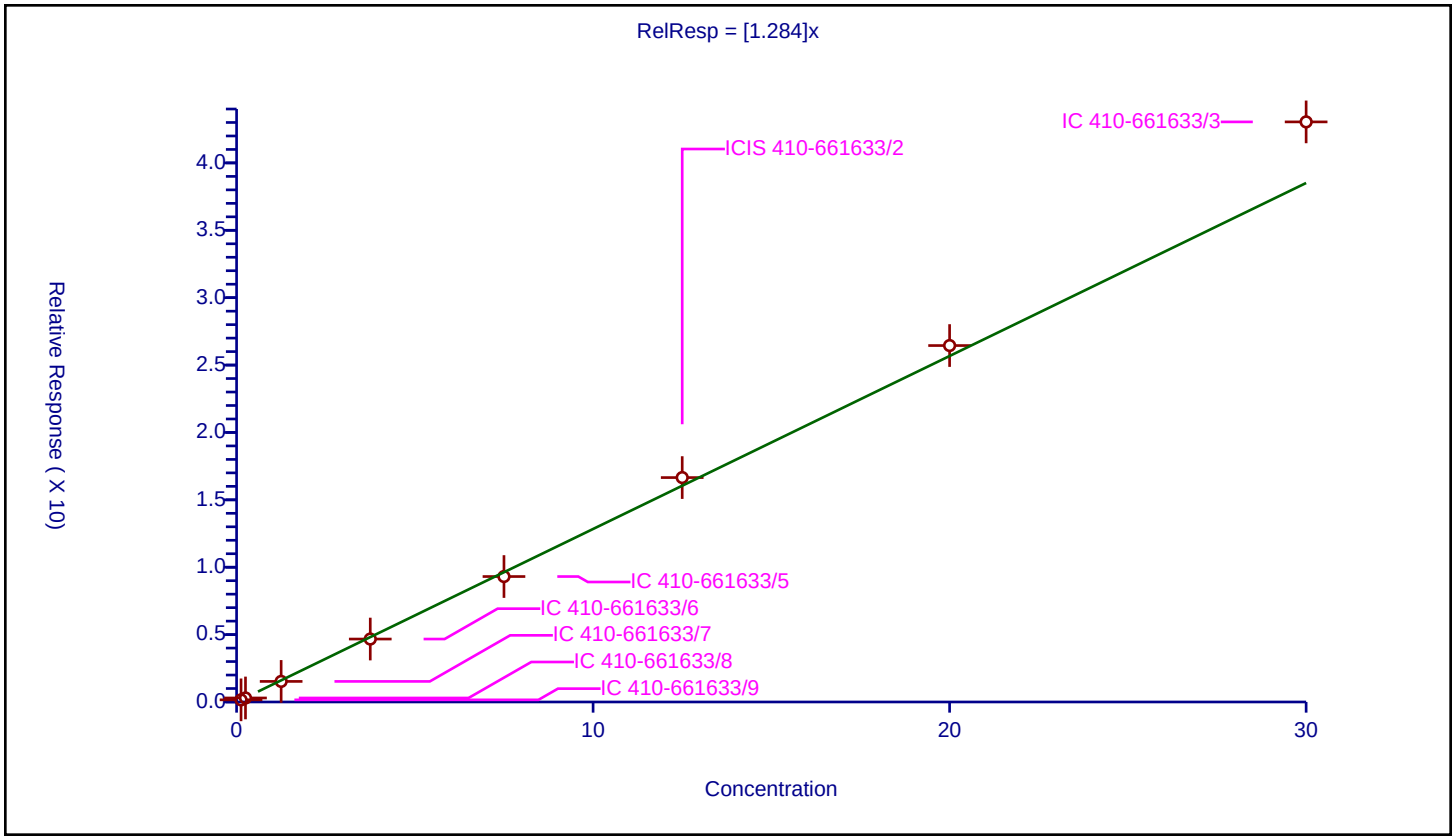
Curve Coefficients

Intercept:	0
Slope:	1.284

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.160183	5.0	195246.0	1.28146	Y
2	IC 410-661633/8	0.25	0.297748	5.0	178456.0	1.190994	Y
3	IC 410-661633/7	1.25	1.526215	5.0	171031.0	1.220972	Y
4	IC 410-661633/6	3.75	4.670221	5.0	187959.0	1.245392	Y
5	IC 410-661633/5	7.5	9.308735	5.0	194766.0	1.241165	Y
6	ICIS 410-661633/2	12.5	16.651879	5.0	181463.0	1.33215	Y
7	IC 410-661633/4	20.0	26.448359	5.0	199008.0	1.322418	Y
8	IC 410-661633/3	30.0	43.044568	5.0	180262.0	1.434819	Y



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Calibration / 2,2'-oxybis[1-chloropropane]

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

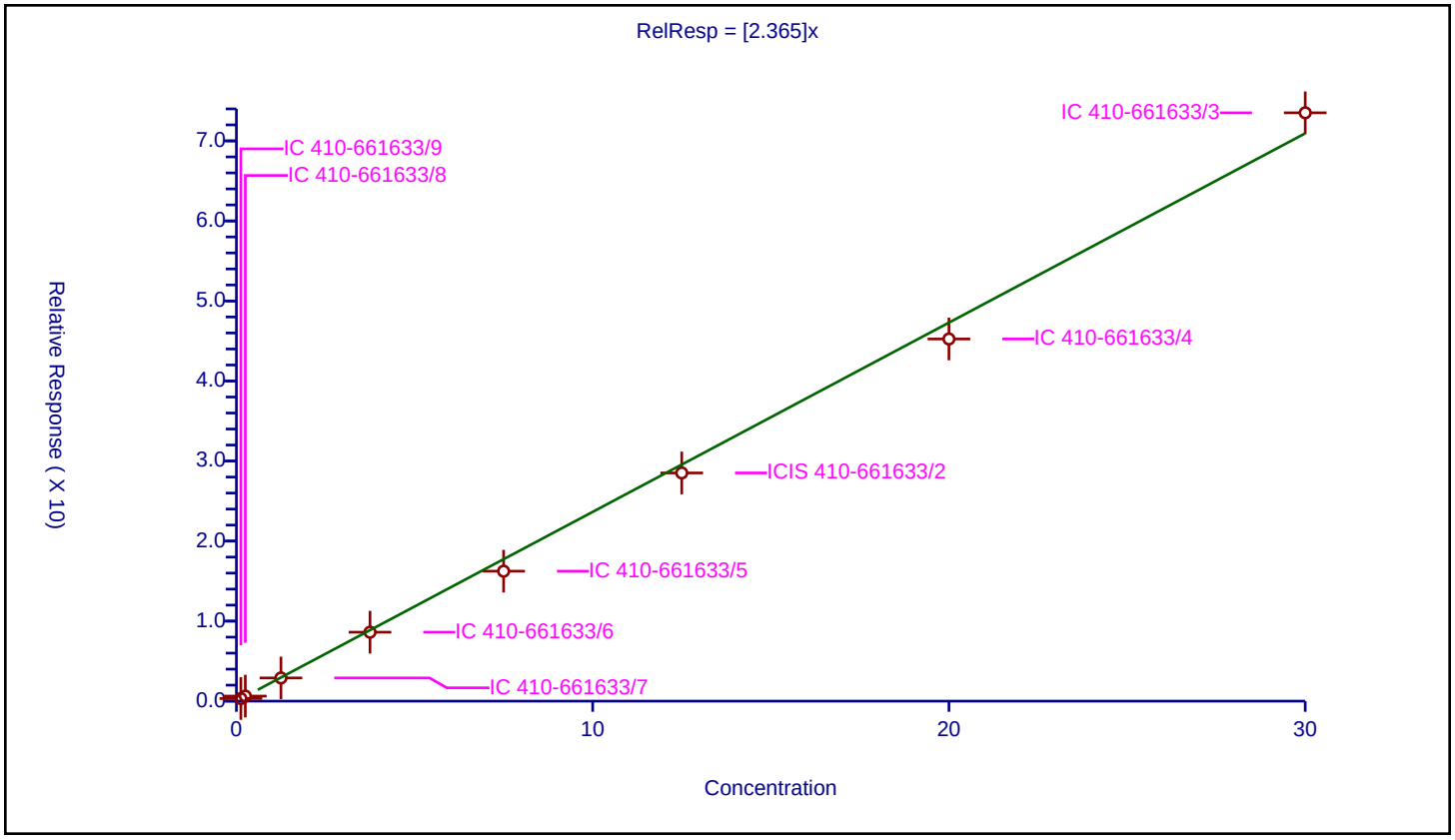
Curve Coefficients

Intercept:	0
Slope:	2.365

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.326742	5.0	195246.0	2.613933	Y
2	IC 410-661633/8	0.25	0.632257	5.0	178456.0	2.529027	Y
3	IC 410-661633/7	1.25	2.898393	5.0	171031.0	2.318714	Y
4	IC 410-661633/6	3.75	8.614565	5.0	187959.0	2.297217	Y
5	IC 410-661633/5	7.5	16.239821	5.0	194766.0	2.165309	Y
6	ICIS 410-661633/2	12.5	28.509806	5.0	181463.0	2.280785	Y
7	IC 410-661633/4	20.0	45.250668	5.0	199008.0	2.262533	Y
8	IC 410-661633/3	30.0	73.509642	5.0	180262.0	2.450321	Y



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Calibration / N-Nitrosopyrrolidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

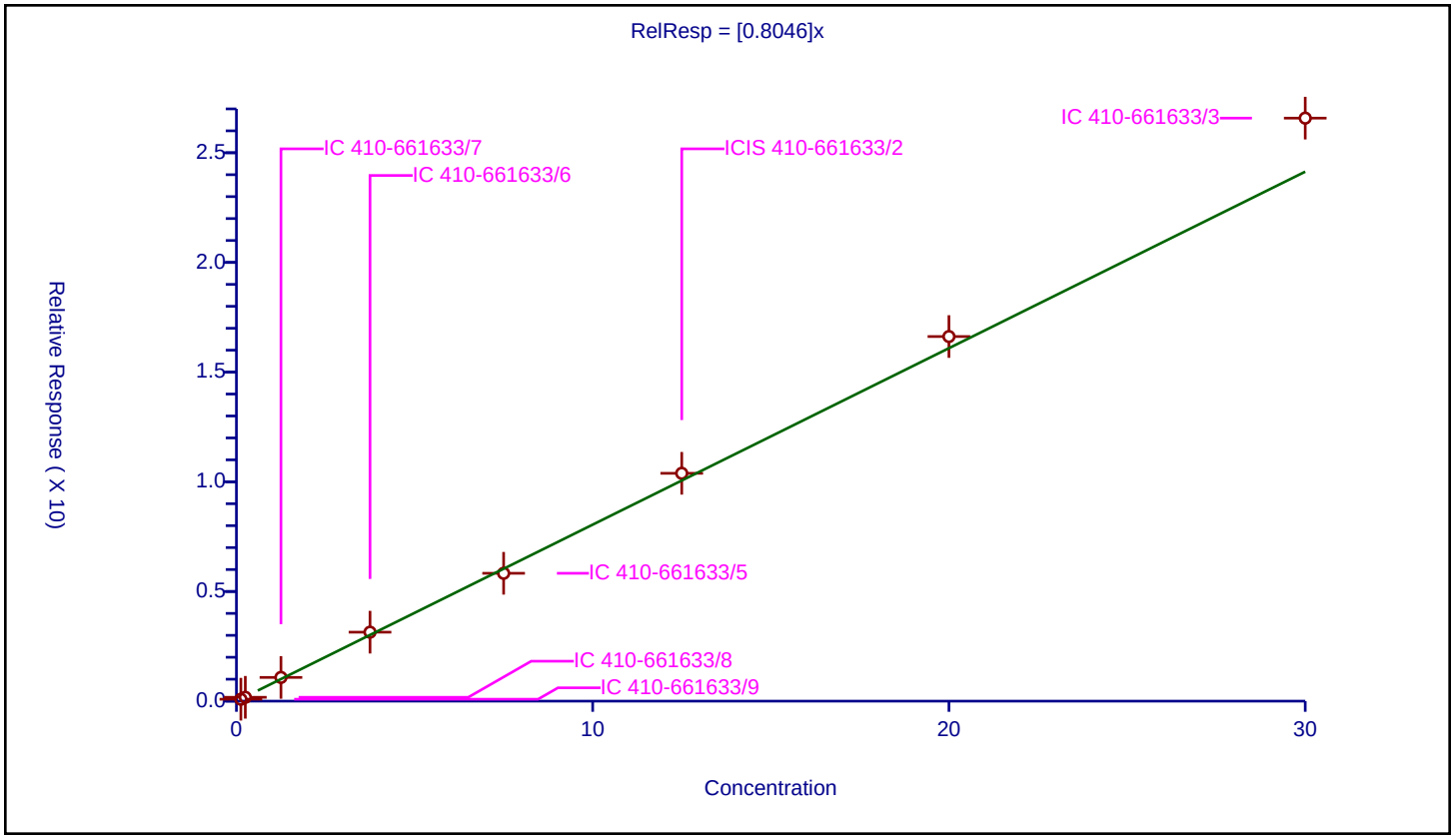
Curve Coefficients

Intercept:	0
Slope:	0.8046

Error Coefficients

Relative Standard Deviation:	8.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.087966	5.0	195246.0	0.703728	Y
2	IC 410-661633/8	0.25	0.175926	5.0	178456.0	0.703703	Y
3	IC 410-661633/7	1.25	1.081734	5.0	171031.0	0.865387	Y
4	IC 410-661633/6	3.75	3.144808	5.0	187959.0	0.838616	Y
5	IC 410-661633/5	7.5	5.828327	5.0	194766.0	0.77711	Y
6	ICIS 410-661633/2	12.5	10.38647	5.0	181463.0	0.830918	Y
7	IC 410-661633/4	20.0	16.622171	5.0	199008.0	0.831109	Y
8	IC 410-661633/3	30.0	26.578397	5.0	180262.0	0.885947	Y



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Calibration / 4-Methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

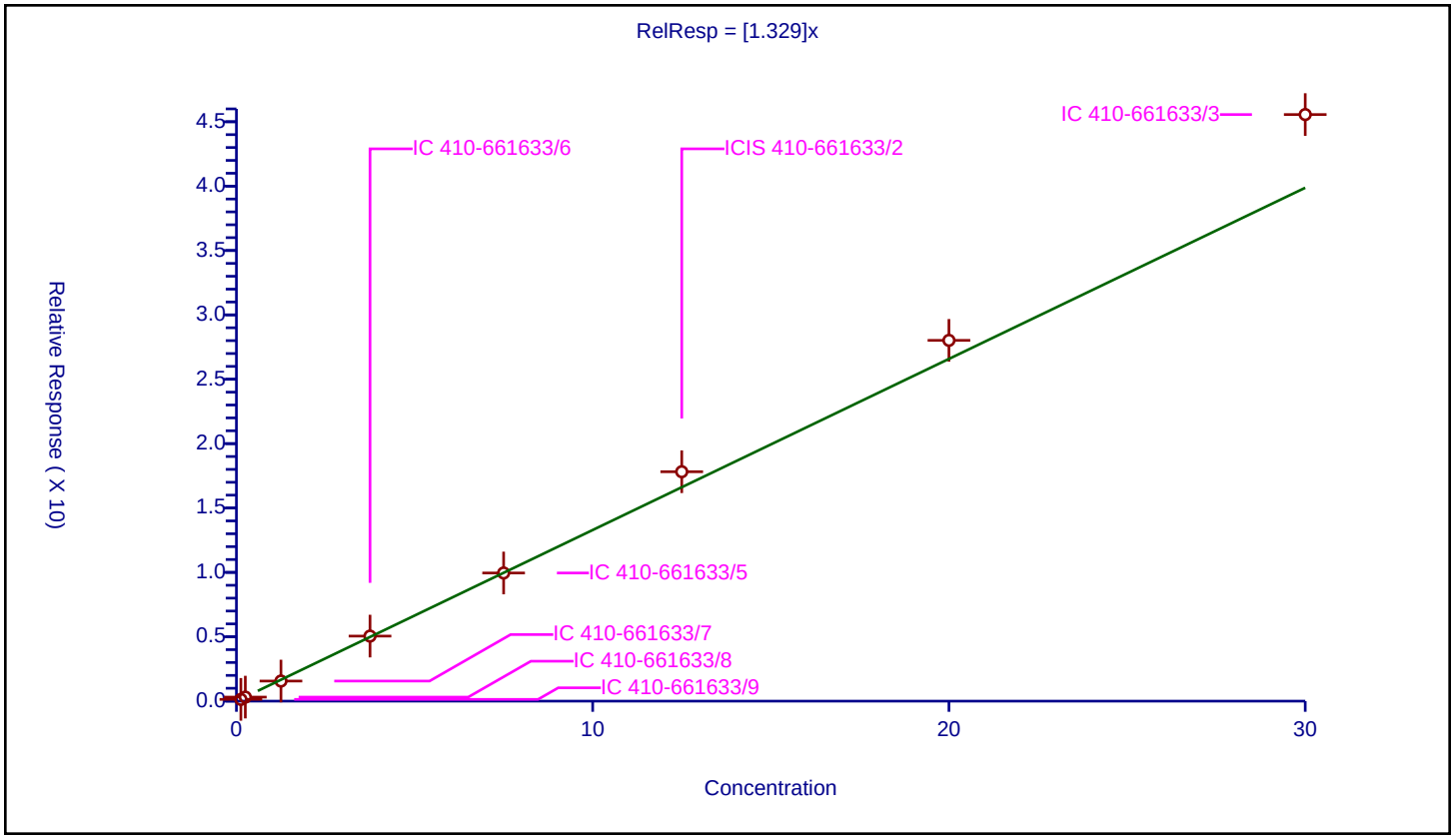
Curve Coefficients

Intercept:	0
Slope:	1.329

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.138569	5.0	195246.0	1.10855	Y
2	IC 410-661633/8	0.25	0.313887	5.0	178456.0	1.255548	Y
3	IC 410-661633/7	1.25	1.561208	5.0	171031.0	1.248967	Y
4	IC 410-661633/6	3.75	5.053097	5.0	187959.0	1.347492	Y
5	IC 410-661633/5	7.5	9.954073	5.0	194766.0	1.32721	Y
6	ICIS 410-661633/2	12.5	17.817957	5.0	181463.0	1.425437	Y
7	IC 410-661633/4	20.0	28.020331	5.0	199008.0	1.401017	Y
8	IC 410-661633/3	30.0	45.55963	5.0	180262.0	1.518654	Y



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Calibration / N-Nitrosodi-n-propylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

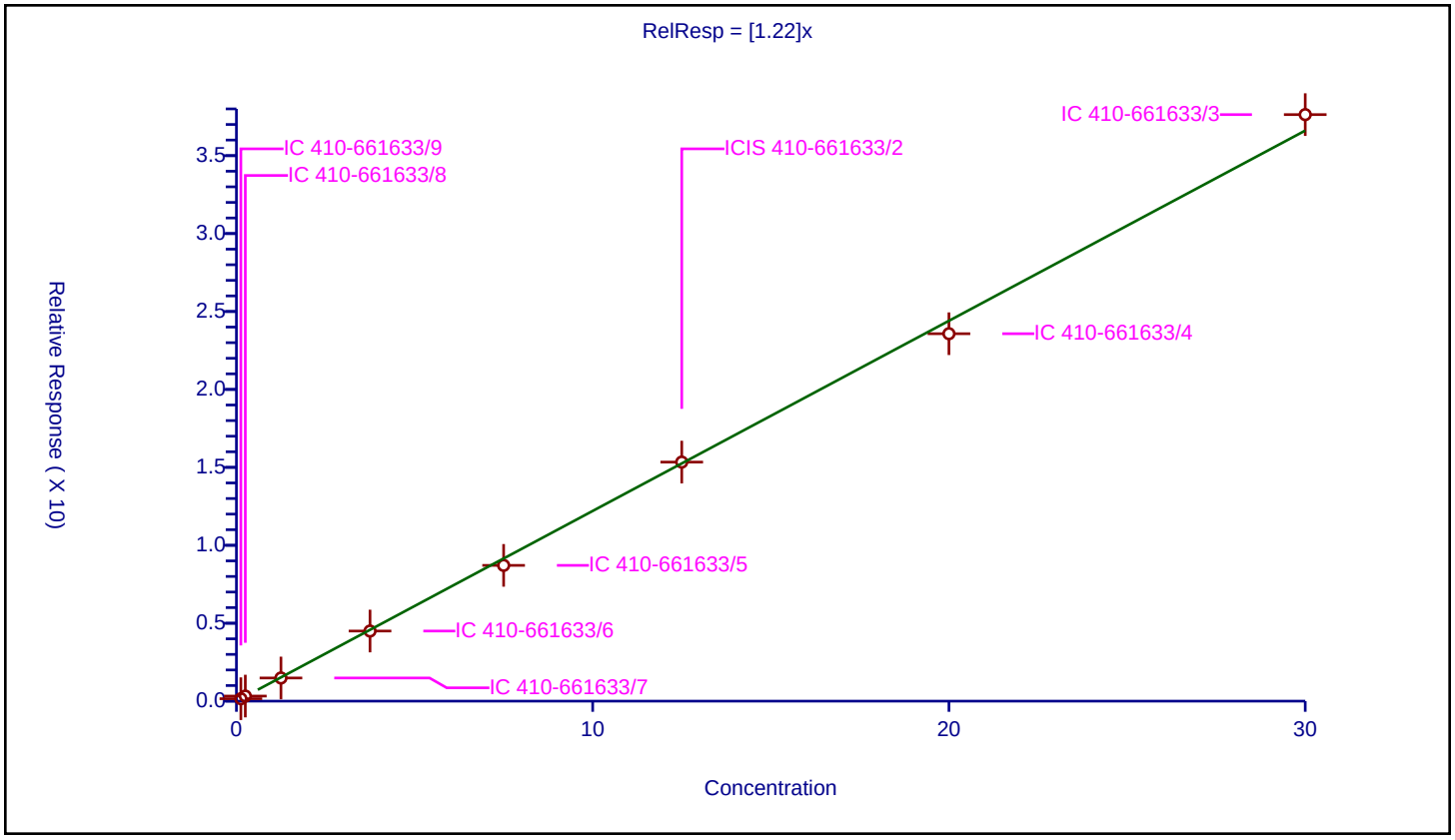
Curve Coefficients

Intercept:	0
Slope:	1.22

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.156162	5.0	195246.0	1.249296	Y
2	IC 410-661633/8	0.25	0.32557	5.0	178456.0	1.302282	Y
3	IC 410-661633/7	1.25	1.486339	5.0	171031.0	1.189071	Y
4	IC 410-661633/6	3.75	4.497869	5.0	187959.0	1.199432	Y
5	IC 410-661633/5	7.5	8.710786	5.0	194766.0	1.161438	Y
6	ICIS 410-661633/2	12.5	15.337893	5.0	181463.0	1.227031	Y
7	IC 410-661633/4	20.0	23.575585	5.0	199008.0	1.178779	Y
8	IC 410-661633/3	30.0	37.631947	5.0	180262.0	1.254398	Y



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Calibration / Acetophenone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

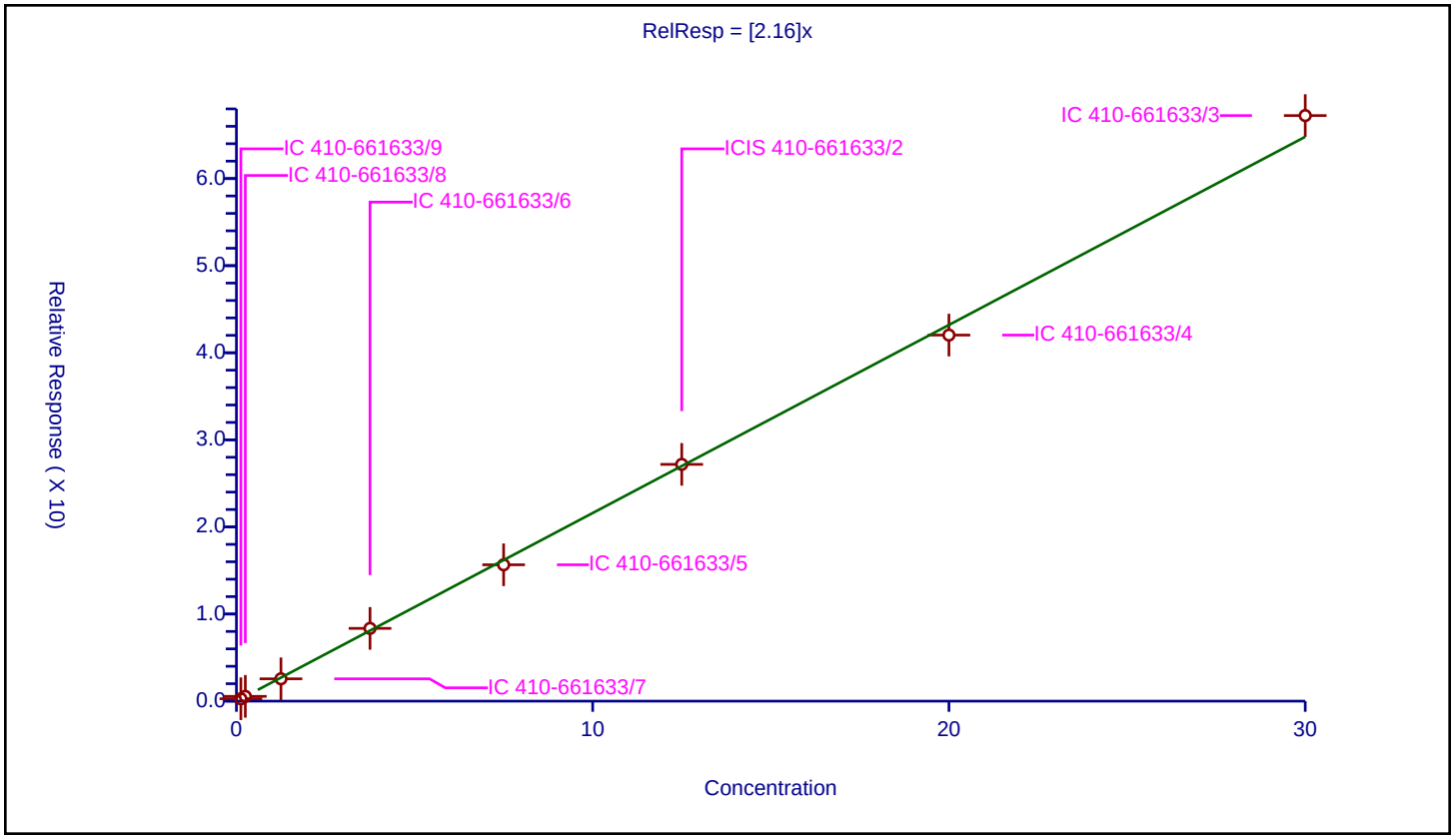
Curve Coefficients

Intercept:	0
Slope:	2.16

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.274756	5.0	195246.0	2.198048	Y
2	IC 410-661633/8	0.25	0.548735	5.0	178456.0	2.194939	Y
3	IC 410-661633/7	1.25	2.565617	5.0	171031.0	2.052493	Y
4	IC 410-661633/6	3.75	8.354003	5.0	187959.0	2.227734	Y
5	IC 410-661633/5	7.5	15.656377	5.0	194766.0	2.087517	Y
6	ICIS 410-661633/2	12.5	27.185239	5.0	181463.0	2.174819	Y
7	IC 410-661633/4	20.0	42.027381	5.0	199008.0	2.101369	Y
8	IC 410-661633/3	30.0	67.232112	5.0	180262.0	2.24107	Y



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Calibration / N-Nitrosomorpholine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

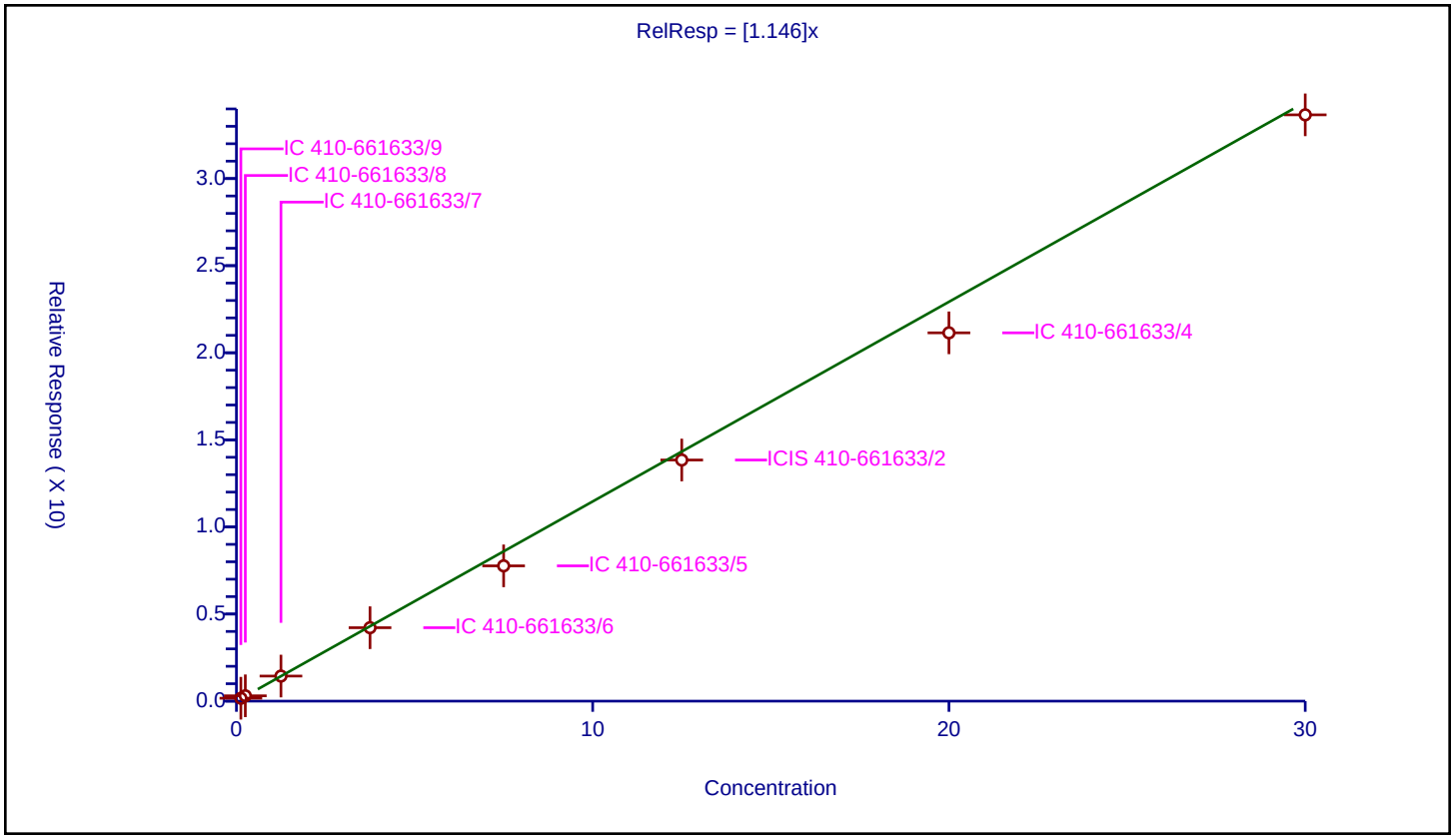
Curve Coefficients

Intercept:	0
Slope:	1.146

Error Coefficients

Relative Standard Deviation:	8.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.167968	5.0	195246.0	1.343741	Y
2	IC 410-661633/8	0.25	0.307022	5.0	178456.0	1.22809	Y
3	IC 410-661633/7	1.25	1.43892	5.0	171031.0	1.151136	Y
4	IC 410-661633/6	3.75	4.216159	5.0	187959.0	1.124309	Y
5	IC 410-661633/5	7.5	7.766499	5.0	194766.0	1.035533	Y
6	ICIS 410-661633/2	12.5	13.842657	5.0	181463.0	1.107413	Y
7	IC 410-661633/4	20.0	21.144753	5.0	199008.0	1.057238	Y
8	IC 410-661633/3	30.0	33.659257	5.0	180262.0	1.121975	Y



Calibration / 2-Toluidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

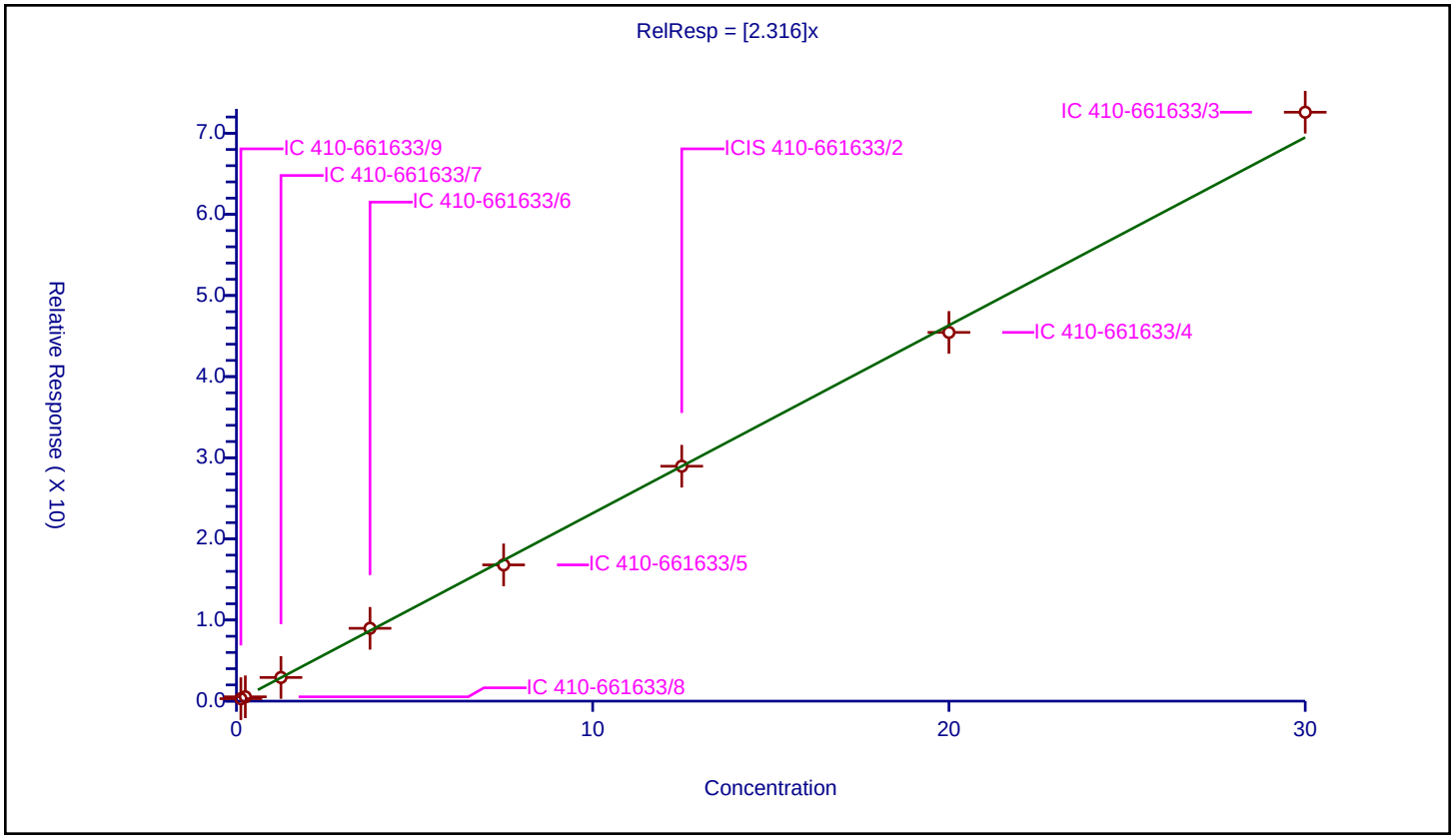
Curve Coefficients

Intercept:	0
Slope:	2.316

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.303335	5.0	195246.0	2.426682	Y
2	IC 410-661633/8	0.25	0.532064	5.0	178456.0	2.128256	Y
3	IC 410-661633/7	1.25	2.917044	5.0	171031.0	2.333635	Y
4	IC 410-661633/6	3.75	8.976958	5.0	187959.0	2.393855	Y
5	IC 410-661633/5	7.5	16.792279	5.0	194766.0	2.238971	Y
6	ICIS 410-661633/2	12.5	28.957115	5.0	181463.0	2.316569	Y
7	IC 410-661633/4	20.0	45.4485	5.0	199008.0	2.272425	Y
8	IC 410-661633/3	30.0	72.588316	5.0	180262.0	2.419611	Y



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Calibration / Hexachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

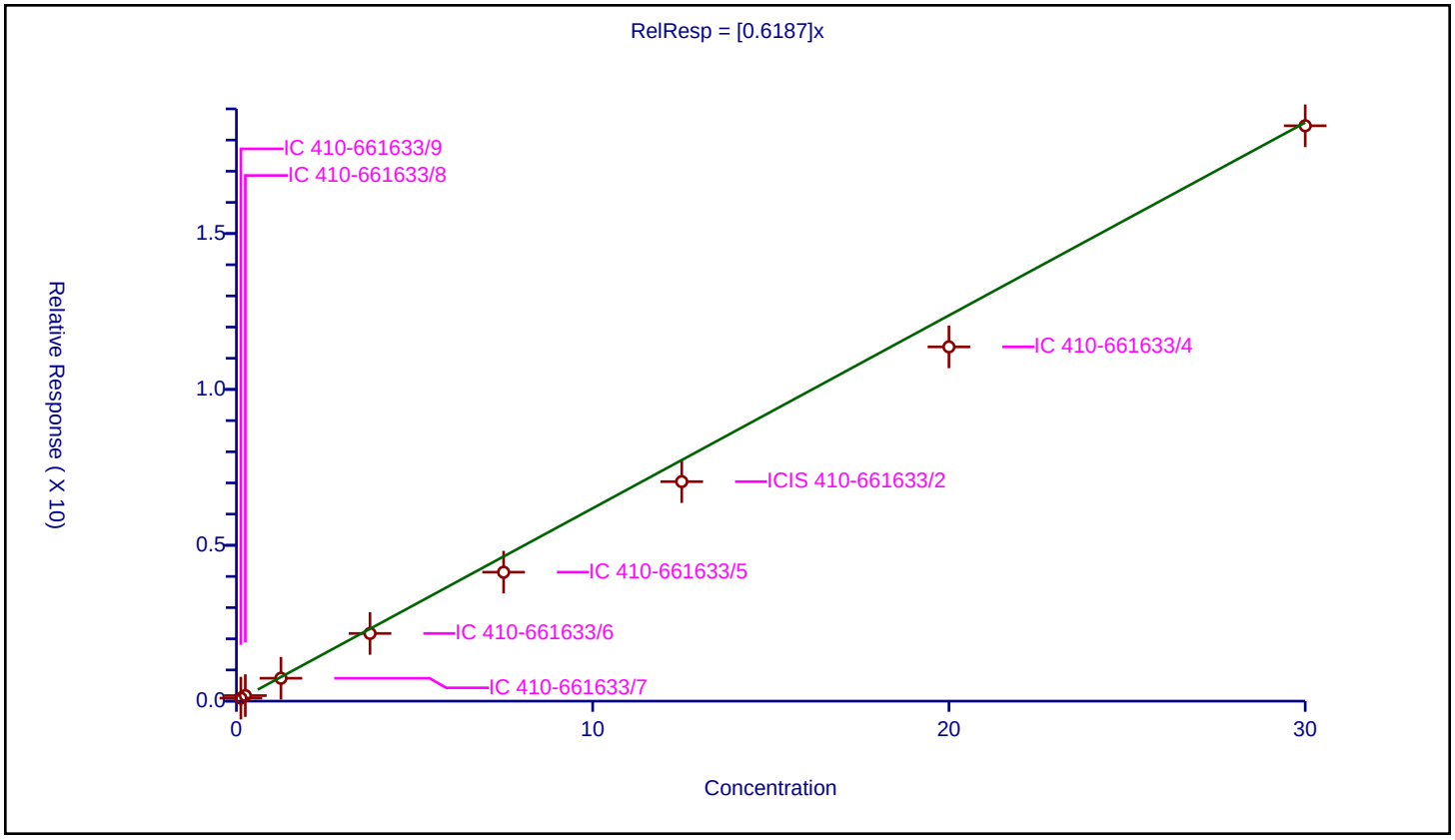
Curve Coefficients

Intercept:	0
Slope:	0.6187

Error Coefficients

Relative Standard Deviation:	13.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.096647	5.0	195246.0	0.773178	Y
2	IC 410-661633/8	0.25	0.177887	5.0	178456.0	0.711548	Y
3	IC 410-661633/7	1.25	0.734399	5.0	171031.0	0.587519	Y
4	IC 410-661633/6	3.75	2.171245	5.0	187959.0	0.578999	Y
5	IC 410-661633/5	7.5	4.136554	5.0	194766.0	0.55154	Y
6	ICIS 410-661633/2	12.5	7.042207	5.0	181463.0	0.563377	Y
7	IC 410-661633/4	20.0	11.365146	5.0	199008.0	0.568257	Y
8	IC 410-661633/3	30.0	18.458411	5.0	180262.0	0.61528	Y



Calibration / Nitrobenzene-d5

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

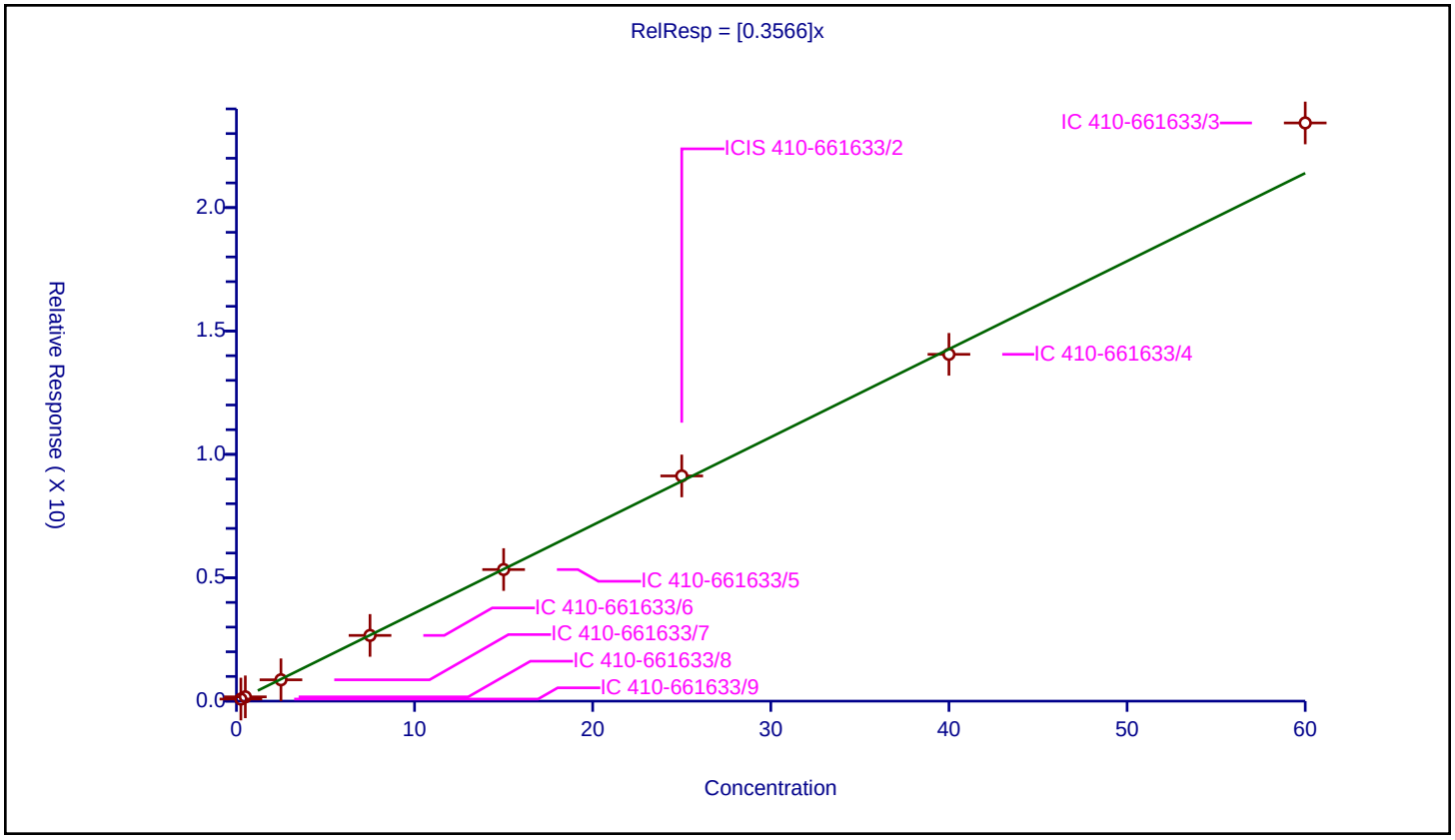
Curve Coefficients

Intercept:	0
Slope:	0.3566

Error Coefficients

Relative Standard Deviation:	4.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.084907	5.0	789215.0	0.339629	Y
2	IC 410-661633/8	0.5	0.174712	5.0	723592.0	0.349423	Y
3	IC 410-661633/7	2.5	0.865509	5.0	718069.0	0.346203	Y
4	IC 410-661633/6	7.5	2.663679	5.0	804213.0	0.355157	Y
5	IC 410-661633/5	15.0	5.332325	5.0	810998.0	0.355488	Y
6	ICIS 410-661633/2	25.0	9.12575	5.0	770741.0	0.36503	Y
7	IC 410-661633/4	40.0	14.054579	5.0	865212.0	0.351364	Y
8	IC 410-661633/3	60.0	23.429782	5.0	772262.0	0.390496	Y



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Calibration / Nitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

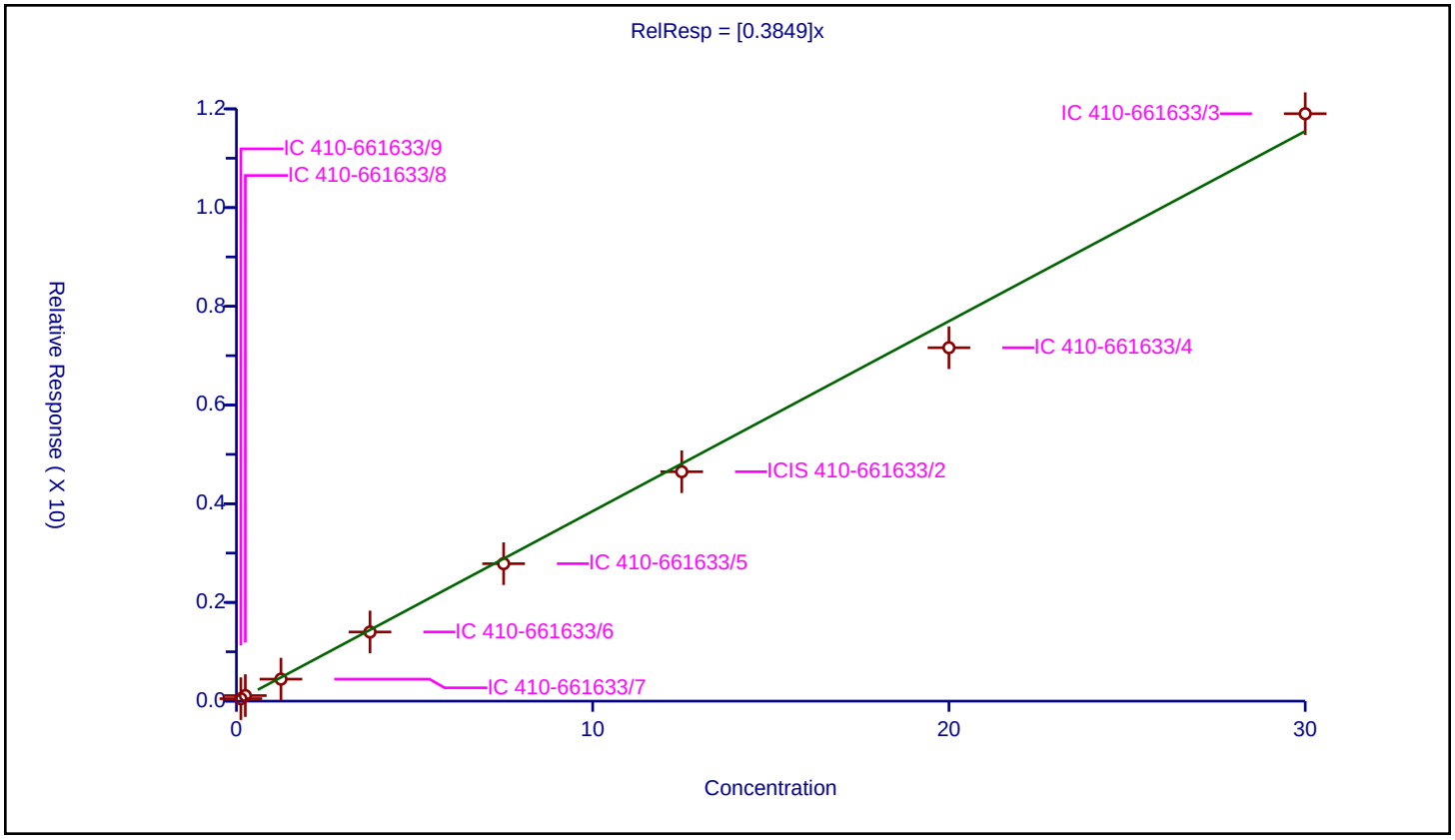
Curve Coefficients

Intercept:	0
Slope:	0.3849

Error Coefficients

Relative Standard Deviation:	8.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.050069	5.0	789215.0	0.40055	Y
2	IC 410-661633/8	0.25	0.112633	5.0	723592.0	0.45053	Y
3	IC 410-661633/7	1.25	0.44596	5.0	718069.0	0.356768	Y
4	IC 410-661633/6	3.75	1.401084	5.0	804213.0	0.373622	Y
5	IC 410-661633/5	7.5	2.78476	5.0	810998.0	0.371301	Y
6	ICIS 410-661633/2	12.5	4.648442	5.0	770741.0	0.371875	Y
7	IC 410-661633/4	20.0	7.161025	5.0	865212.0	0.358051	Y
8	IC 410-661633/3	30.0	11.902262	5.0	772262.0	0.396742	Y



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Calibration / N-Nitrosopiperidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

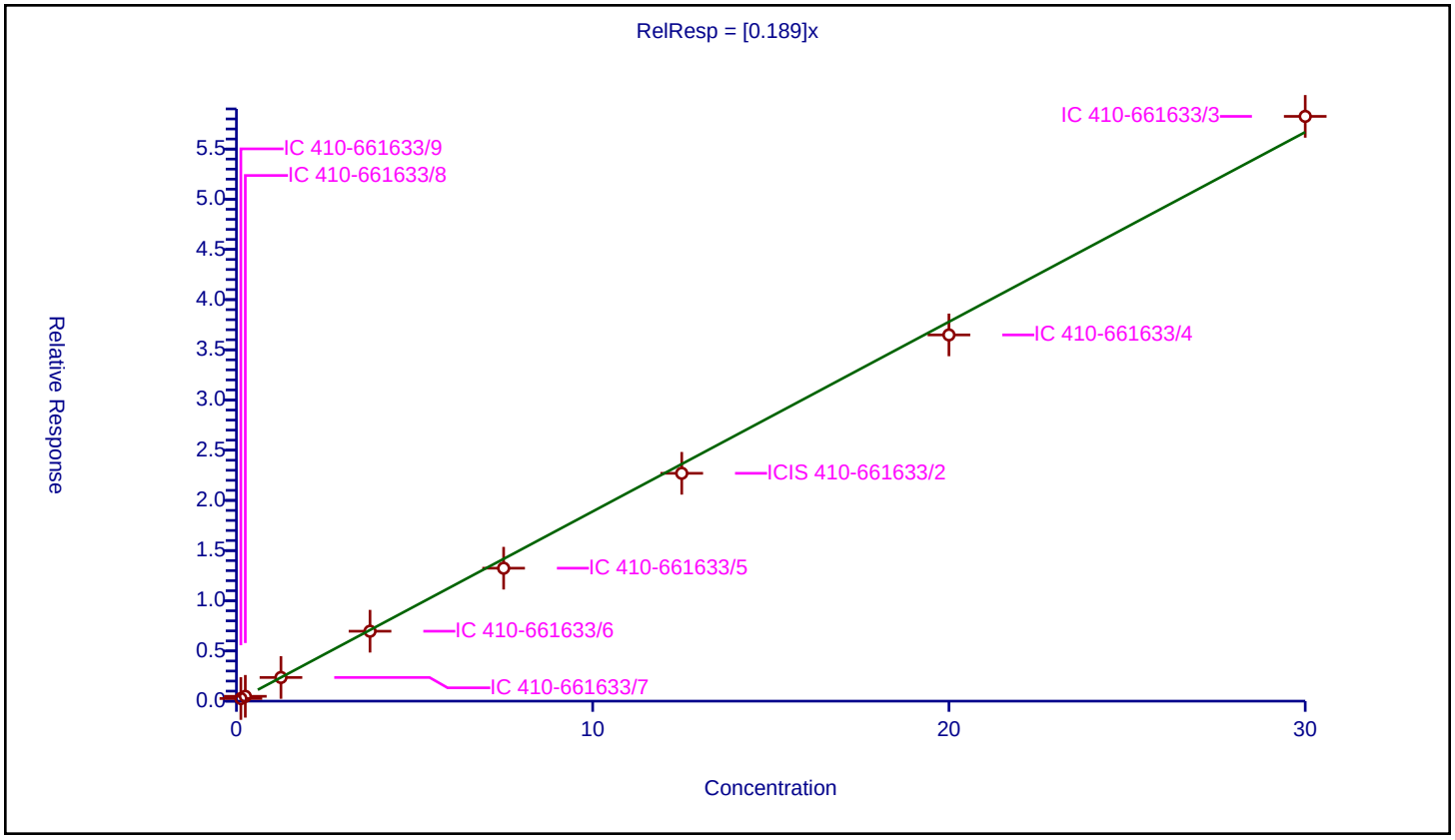
Curve Coefficients

Intercept:	0
Slope:	0.189

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.026197	5.0	789215.0	0.209575	Y
2	IC 410-661633/8	0.25	0.048225	5.0	723592.0	0.192899	Y
3	IC 410-661633/7	1.25	0.235799	5.0	718069.0	0.188639	Y
4	IC 410-661633/6	3.75	0.696557	5.0	804213.0	0.185748	Y
5	IC 410-661633/5	7.5	1.324374	5.0	810998.0	0.176583	Y
6	ICIS 410-661633/2	12.5	2.269855	5.0	770741.0	0.181588	Y
7	IC 410-661633/4	20.0	3.648325	5.0	865212.0	0.182416	Y
8	IC 410-661633/3	30.0	5.825368	5.0	772262.0	0.194179	Y



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Calibration / Isophorone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

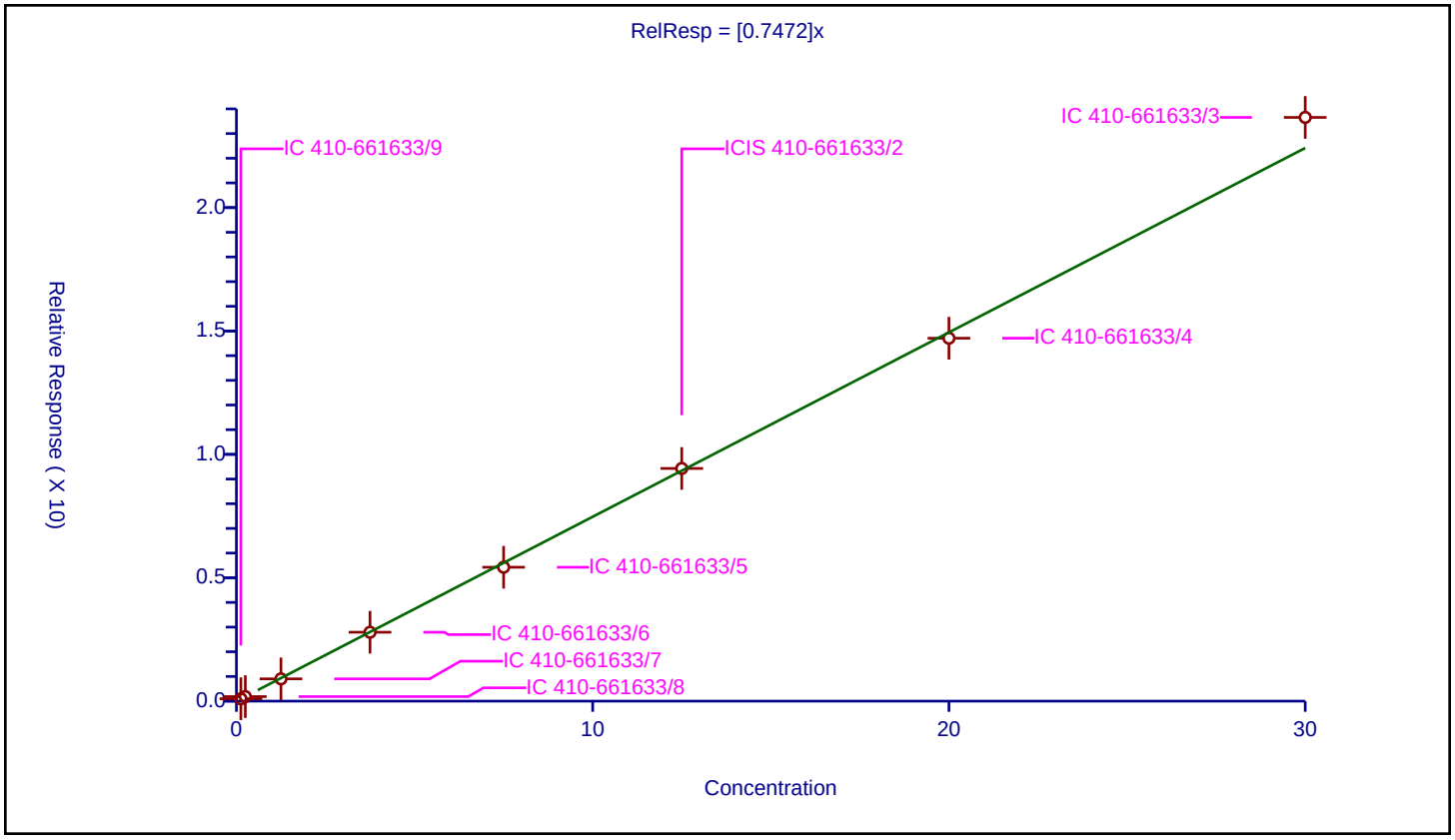
Curve Coefficients

Intercept:	0
Slope:	0.7472

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.096824	5.0	789215.0	0.774592	Y
2	IC 410-661633/8	0.25	0.183563	5.0	723592.0	0.734254	Y
3	IC 410-661633/7	1.25	0.902699	5.0	718069.0	0.722159	Y
4	IC 410-661633/6	3.75	2.792494	5.0	804213.0	0.744665	Y
5	IC 410-661633/5	7.5	5.425809	5.0	810998.0	0.723441	Y
6	ICIS 410-661633/2	12.5	9.429225	5.0	770741.0	0.754338	Y
7	IC 410-661633/4	20.0	14.706939	5.0	865212.0	0.735347	Y
8	IC 410-661633/3	30.0	23.654725	5.0	772262.0	0.788491	Y



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Calibration / 2-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

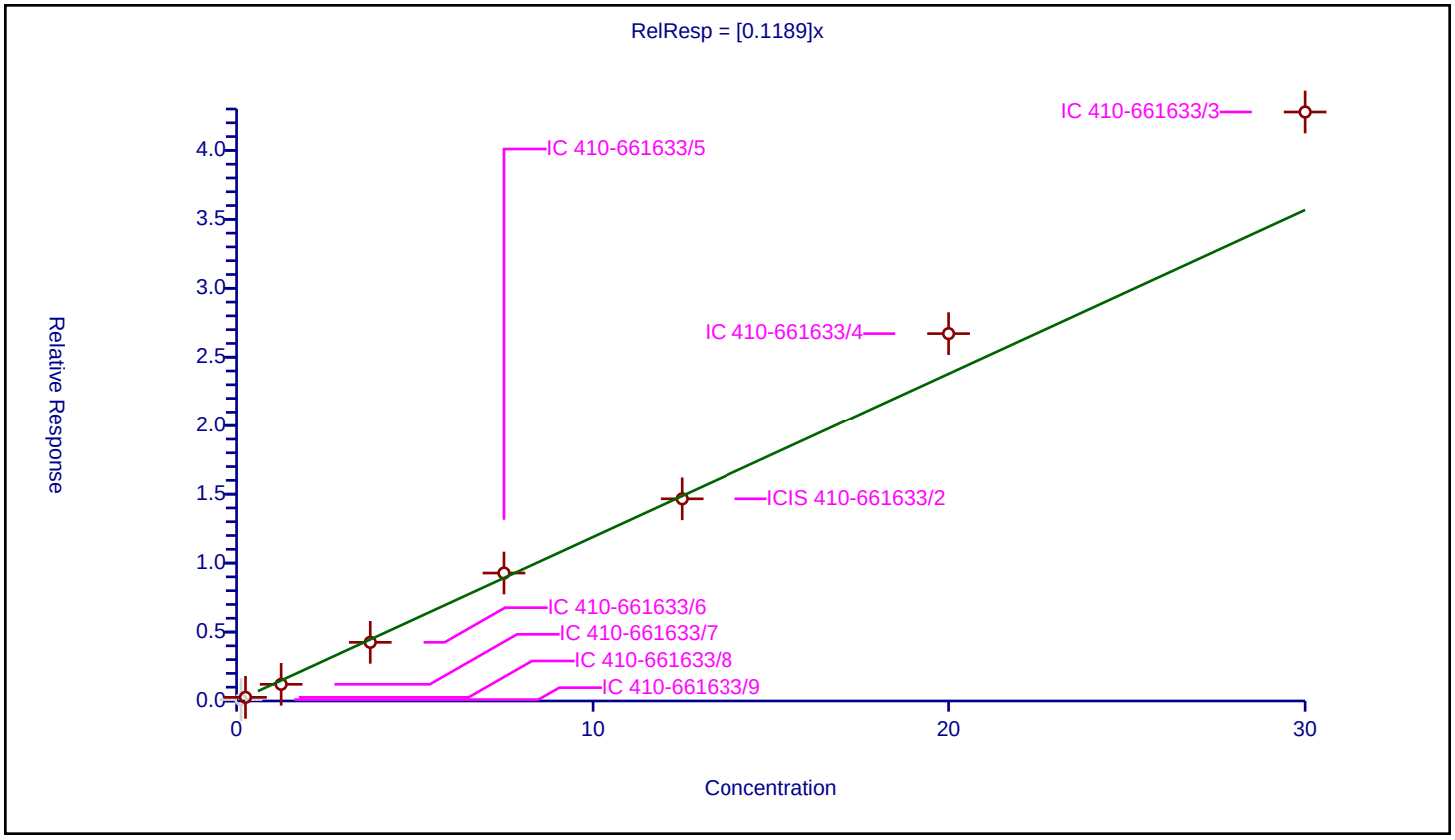
Curve Coefficients

Intercept:	0
Slope:	0.1189

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.009902	5.0	789215.0	0.079218	N
2	IC 410-661633/8	0.25	0.026313	5.0	723592.0	0.105253	Y
3	IC 410-661633/7	1.25	0.120887	5.0	718069.0	0.096709	Y
4	IC 410-661633/6	3.75	0.42541	5.0	804213.0	0.113443	Y
5	IC 410-661633/5	7.5	0.927857	5.0	810998.0	0.123714	Y
6	ICIS 410-661633/2	12.5	1.466083	5.0	770741.0	0.117287	Y
7	IC 410-661633/4	20.0	2.671189	5.0	865212.0	0.133559	Y
8	IC 410-661633/3	30.0	4.27825	5.0	772262.0	0.142608	Y



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Calibration / 2,4-Dimethylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

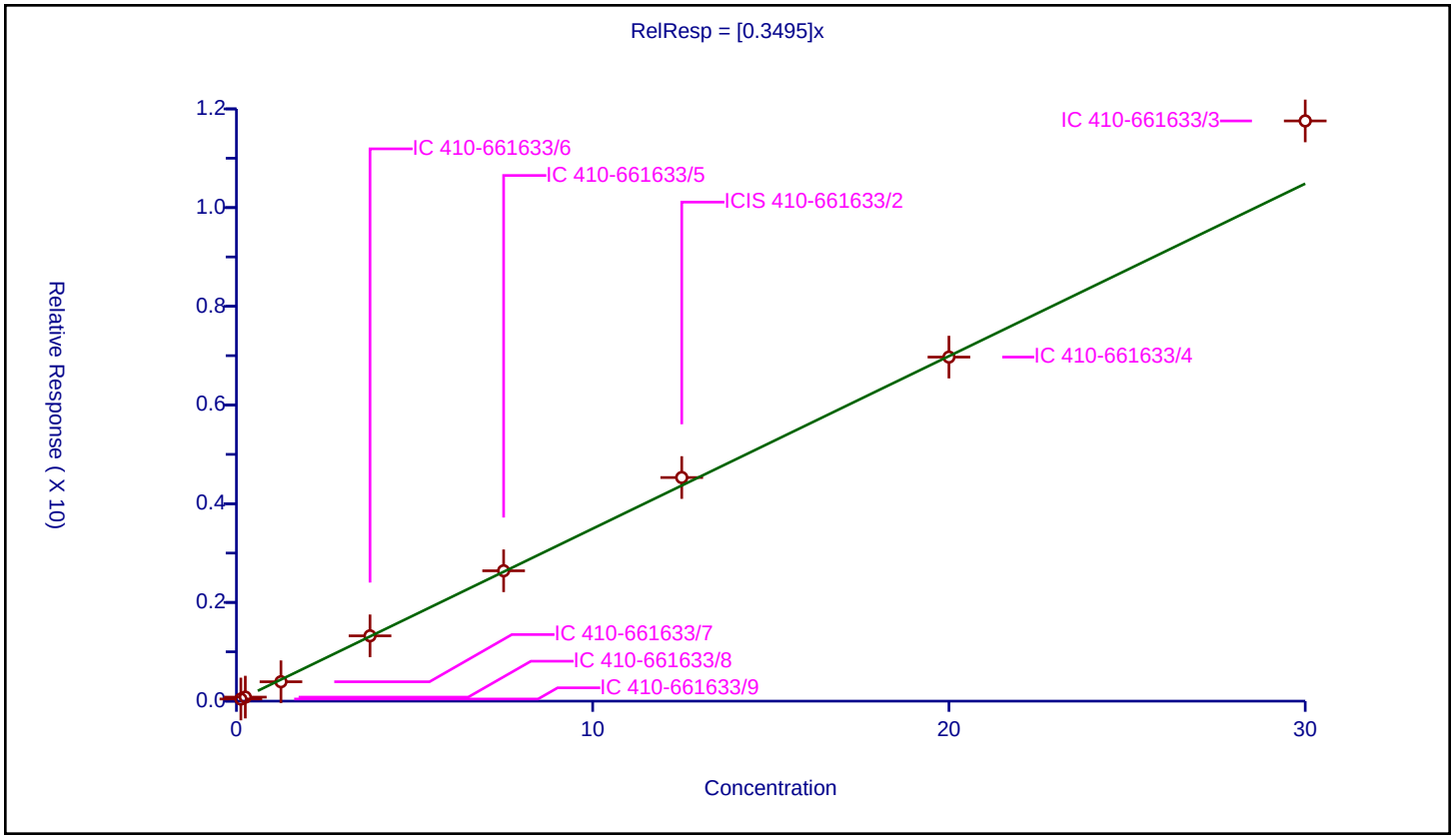
Curve Coefficients

Intercept:	0
Slope:	0.3495

Error Coefficients

Relative Standard Deviation:	6.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.043379	5.0	789215.0	0.347028	Y
2	IC 410-661633/8	0.25	0.0816	5.0	723592.0	0.326399	Y
3	IC 410-661633/7	1.25	0.393235	5.0	718069.0	0.314588	Y
4	IC 410-661633/6	3.75	1.323412	5.0	804213.0	0.35291	Y
5	IC 410-661633/5	7.5	2.64132	5.0	810998.0	0.352176	Y
6	ICIS 410-661633/2	12.5	4.53075	5.0	770741.0	0.36246	Y
7	IC 410-661633/4	20.0	6.970812	5.0	865212.0	0.348541	Y
8	IC 410-661633/3	30.0	11.75614	5.0	772262.0	0.391871	Y



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Calibration / o,o',o''-Triethylphosphorothioate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

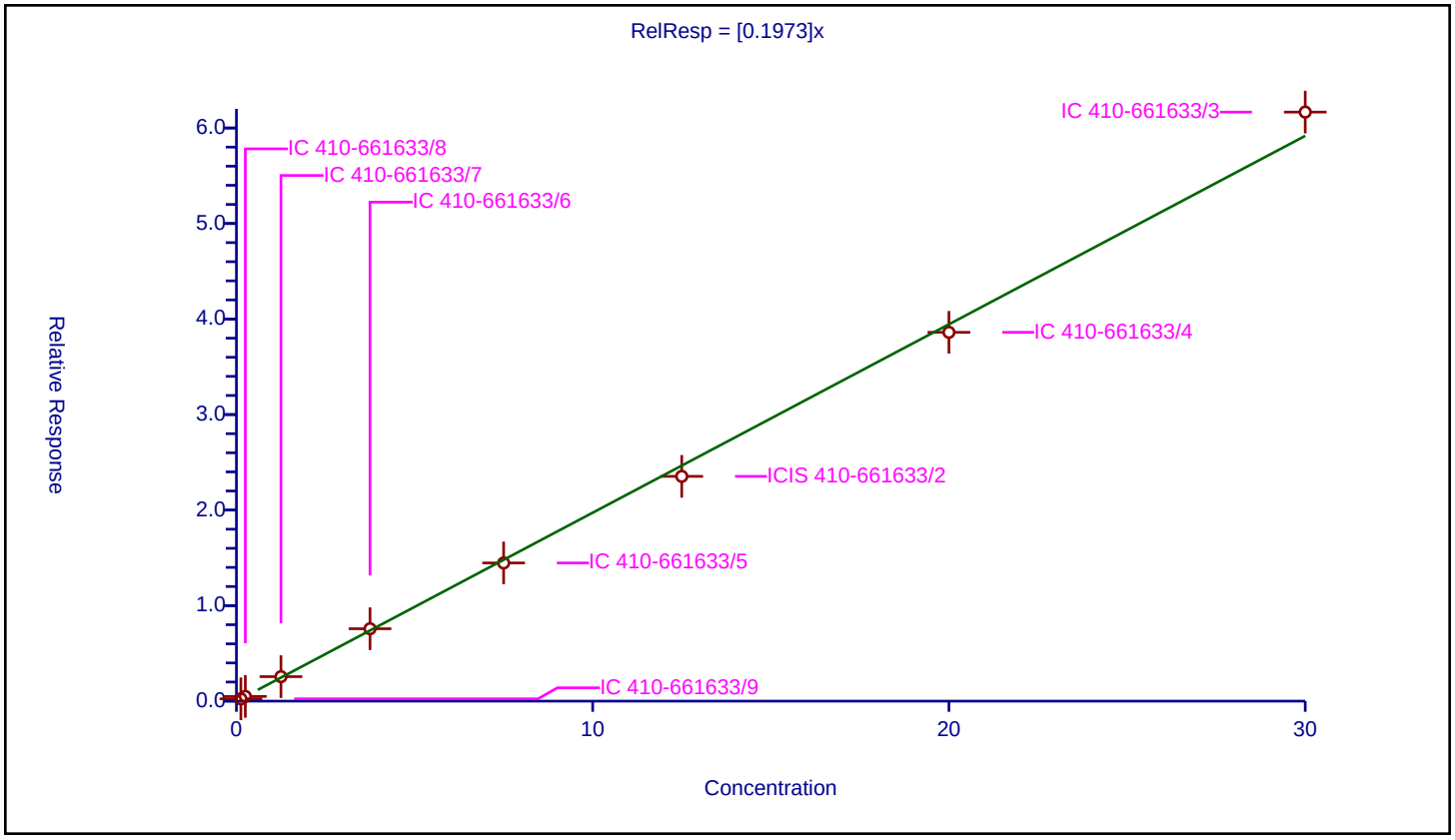
Curve Coefficients

Intercept:	0
Slope:	0.1973

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.024132	5.0	789215.0	0.193053	Y
2	IC 410-661633/8	0.25	0.049517	5.0	723592.0	0.198067	Y
3	IC 410-661633/7	1.25	0.256305	5.0	718069.0	0.205044	Y
4	IC 410-661633/6	3.75	0.75794	5.0	804213.0	0.202117	Y
5	IC 410-661633/5	7.5	1.44652	5.0	810998.0	0.192869	Y
6	ICIS 410-661633/2	12.5	2.353158	5.0	770741.0	0.188253	Y
7	IC 410-661633/4	20.0	3.860967	5.0	865212.0	0.193048	Y
8	IC 410-661633/3	30.0	6.166644	5.0	772262.0	0.205555	Y



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Calibration / Bis(2-chloroethoxy)methane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

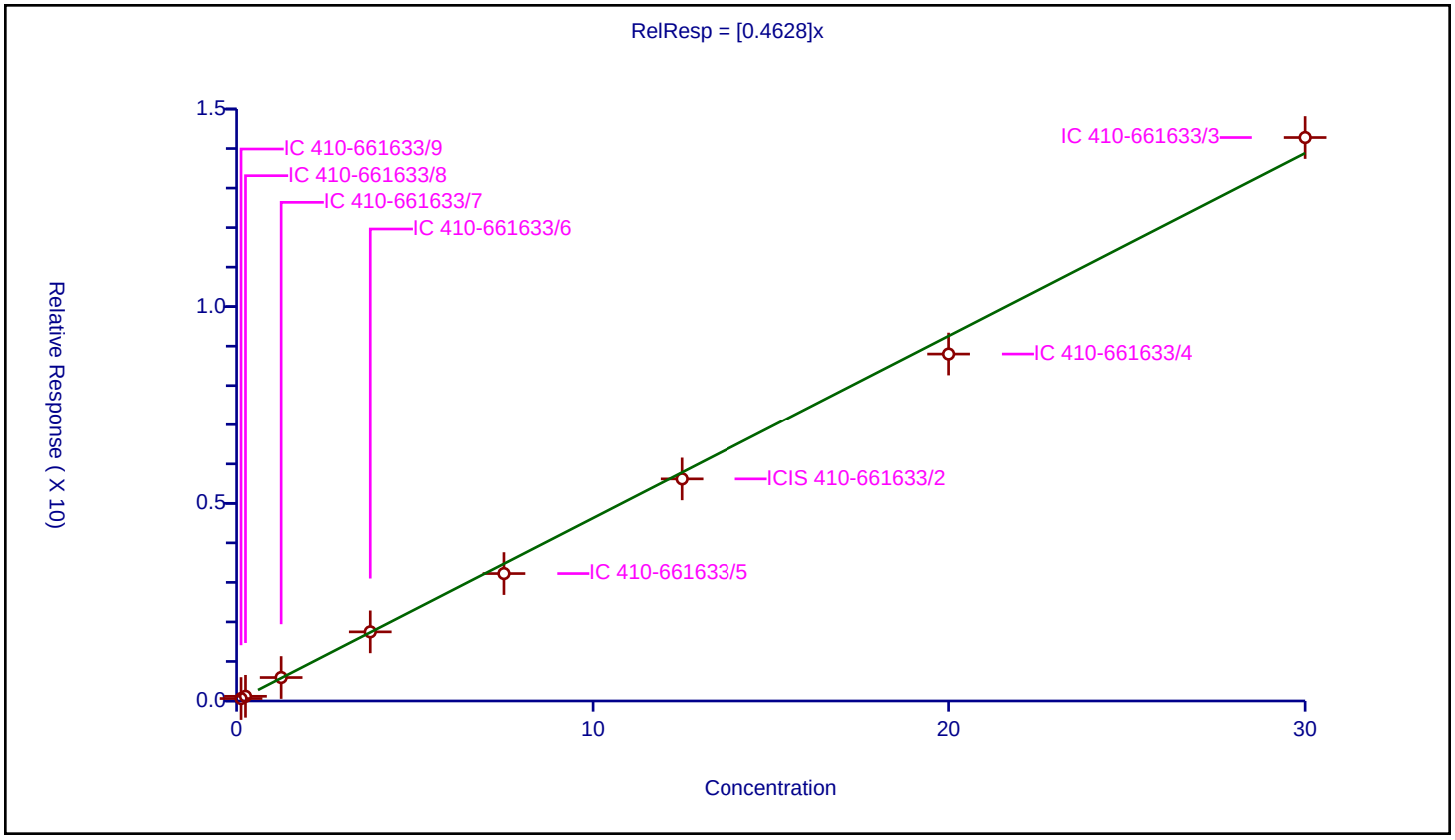
Curve Coefficients

Intercept:	0
Slope:	0.4628

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.061403	5.0	789215.0	0.491222	Y
2	IC 410-661633/8	0.25	0.118651	5.0	723592.0	0.474604	Y
3	IC 410-661633/7	1.25	0.59346	5.0	718069.0	0.474768	Y
4	IC 410-661633/6	3.75	1.749139	5.0	804213.0	0.466437	Y
5	IC 410-661633/5	7.5	3.223645	5.0	810998.0	0.429819	Y
6	ICIS 410-661633/2	12.5	5.619339	5.0	770741.0	0.449547	Y
7	IC 410-661633/4	20.0	8.801028	5.0	865212.0	0.440051	Y
8	IC 410-661633/3	30.0	14.27869	5.0	772262.0	0.475956	Y



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Calibration / 2,4-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

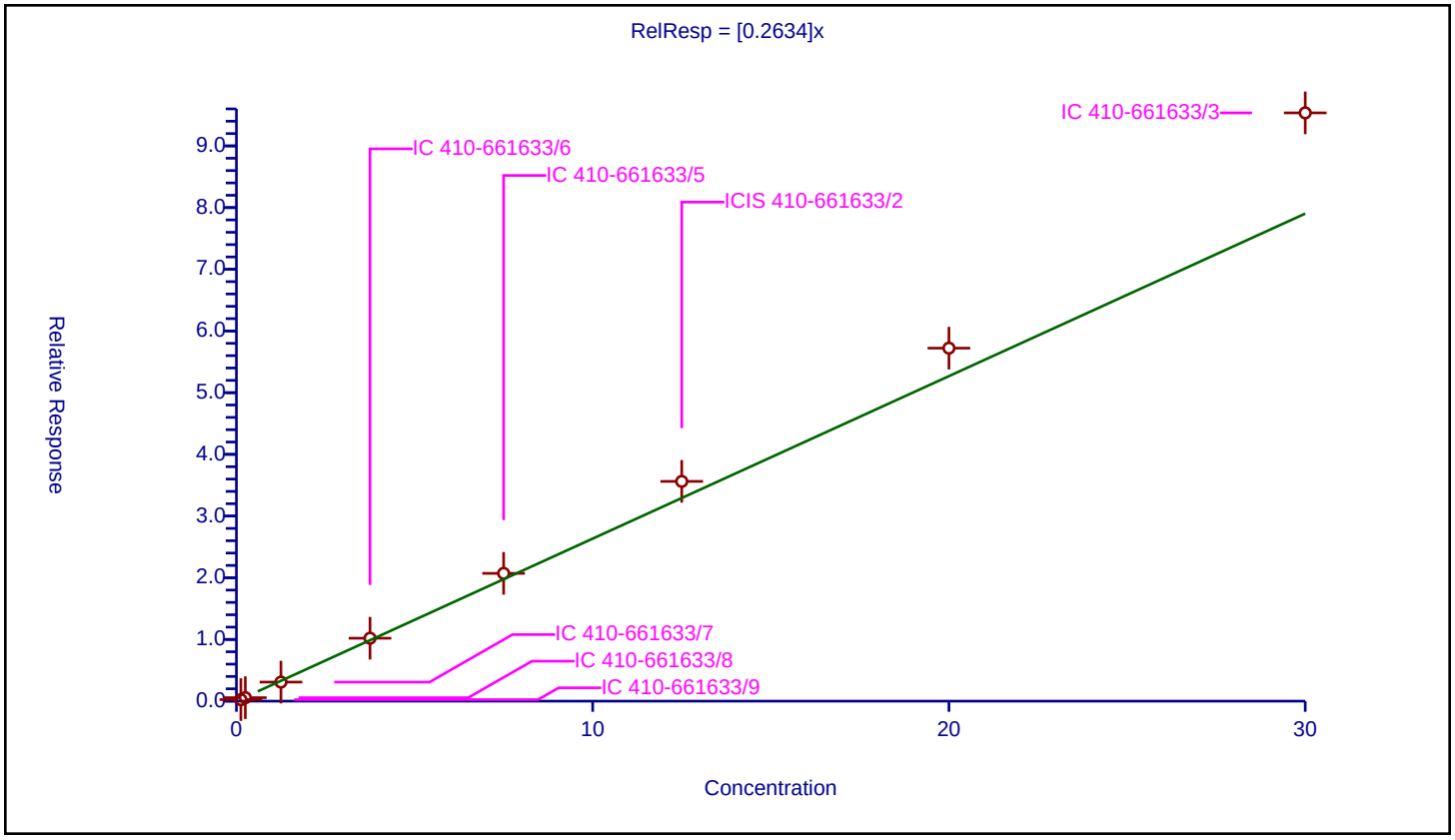
Curve Coefficients

Intercept:	0
Slope:	0.2634

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.024816	5.0	789215.0	0.198526	Y
2	IC 410-661633/8	0.25	0.056185	5.0	723592.0	0.22474	Y
3	IC 410-661633/7	1.25	0.308738	5.0	718069.0	0.24699	Y
4	IC 410-661633/6	3.75	1.019966	5.0	804213.0	0.271991	Y
5	IC 410-661633/5	7.5	2.071324	5.0	810998.0	0.276177	Y
6	ICIS 410-661633/2	12.5	3.562072	5.0	770741.0	0.284966	Y
7	IC 410-661633/4	20.0	5.722008	5.0	865212.0	0.2861	Y
8	IC 410-661633/3	30.0	9.53508	5.0	772262.0	0.317836	Y



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Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

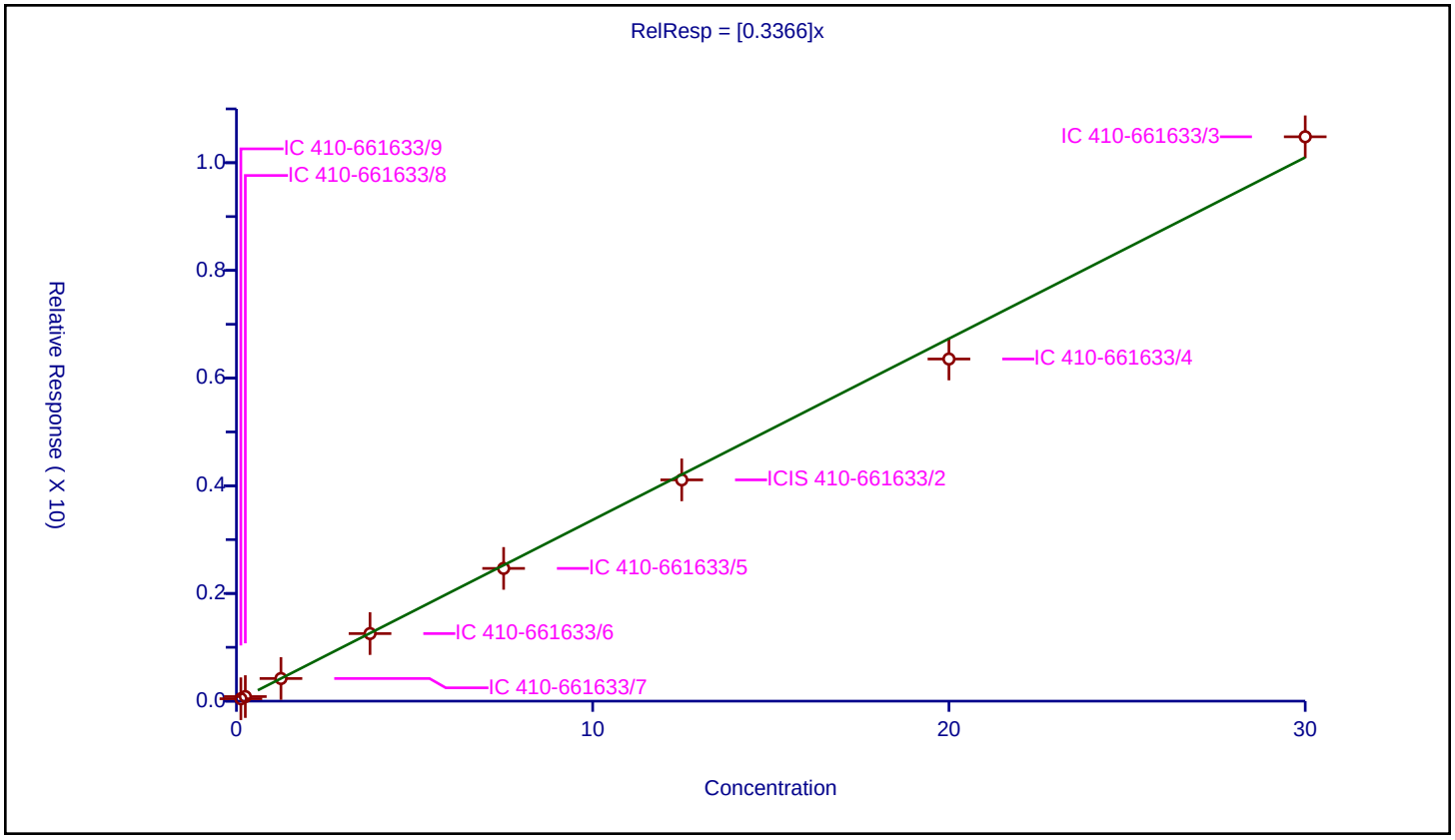
Curve Coefficients

Intercept:	0
Slope:	0.3366

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.044753	5.0	789215.0	0.358027	Y
2	IC 410-661633/8	0.25	0.08491	5.0	723592.0	0.339639	Y
3	IC 410-661633/7	1.25	0.420238	5.0	718069.0	0.336191	Y
4	IC 410-661633/6	3.75	1.254848	5.0	804213.0	0.334626	Y
5	IC 410-661633/5	7.5	2.465438	5.0	810998.0	0.328725	Y
6	ICIS 410-661633/2	12.5	4.109351	5.0	770741.0	0.328748	Y
7	IC 410-661633/4	20.0	6.354529	5.0	865212.0	0.317726	Y
8	IC 410-661633/3	30.0	10.482129	5.0	772262.0	0.349404	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

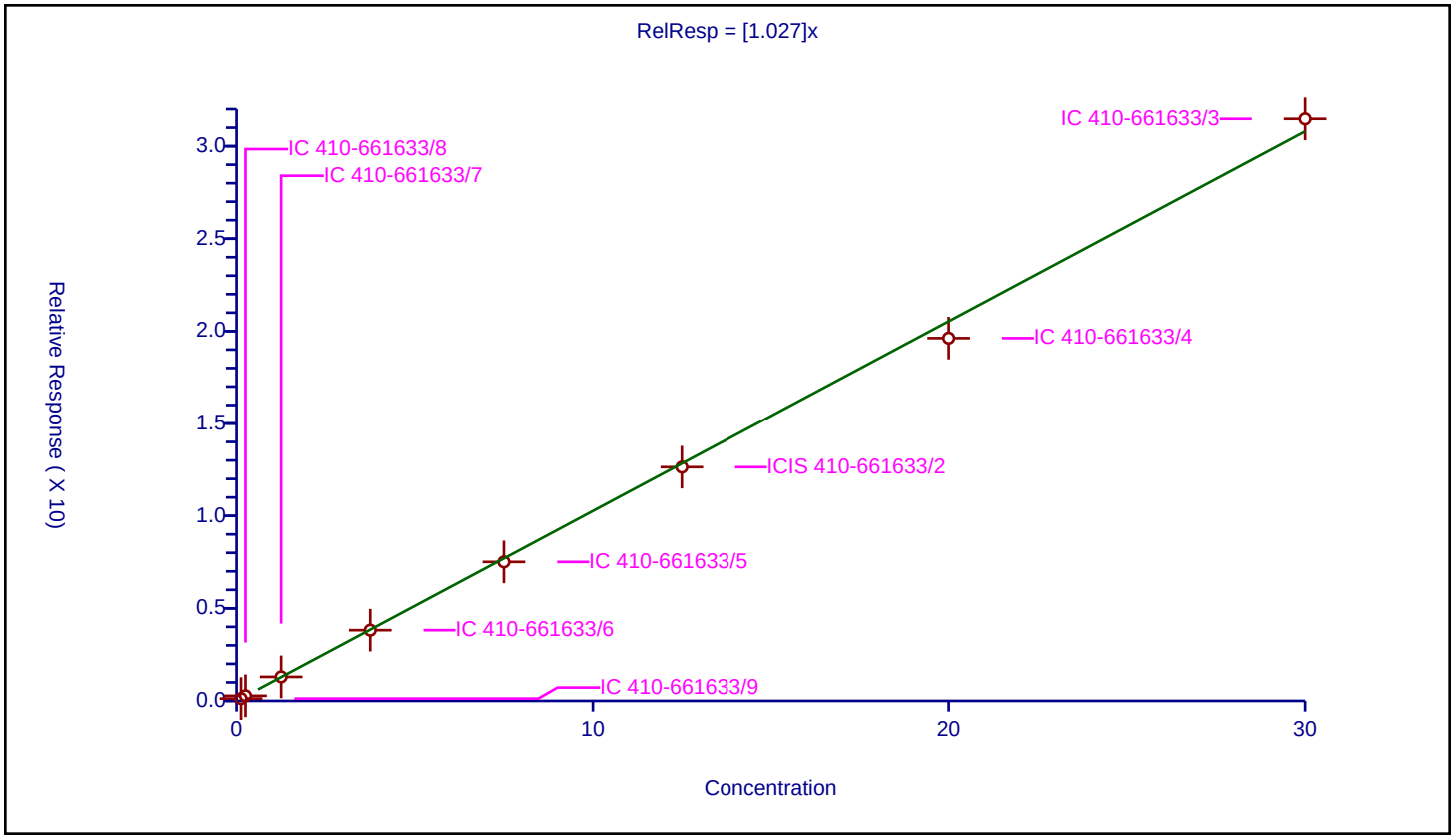
Curve Coefficients

Intercept:	0
Slope:	1.027

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.126132	5.0	789215.0	1.009053	Y
2	IC 410-661633/8	0.25	0.276109	5.0	723592.0	1.104435	Y
3	IC 410-661633/7	1.25	1.297898	5.0	718069.0	1.038318	Y
4	IC 410-661633/6	3.75	3.820959	5.0	804213.0	1.018922	Y
5	IC 410-661633/5	7.5	7.509877	5.0	810998.0	1.001317	Y
6	ICIS 410-661633/2	12.5	12.63813	5.0	770741.0	1.01105	Y
7	IC 410-661633/4	20.0	19.621607	5.0	865212.0	0.98108	Y
8	IC 410-661633/3	30.0	31.476338	5.0	772262.0	1.049211	Y



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Calibration / Alpha-Terpineol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

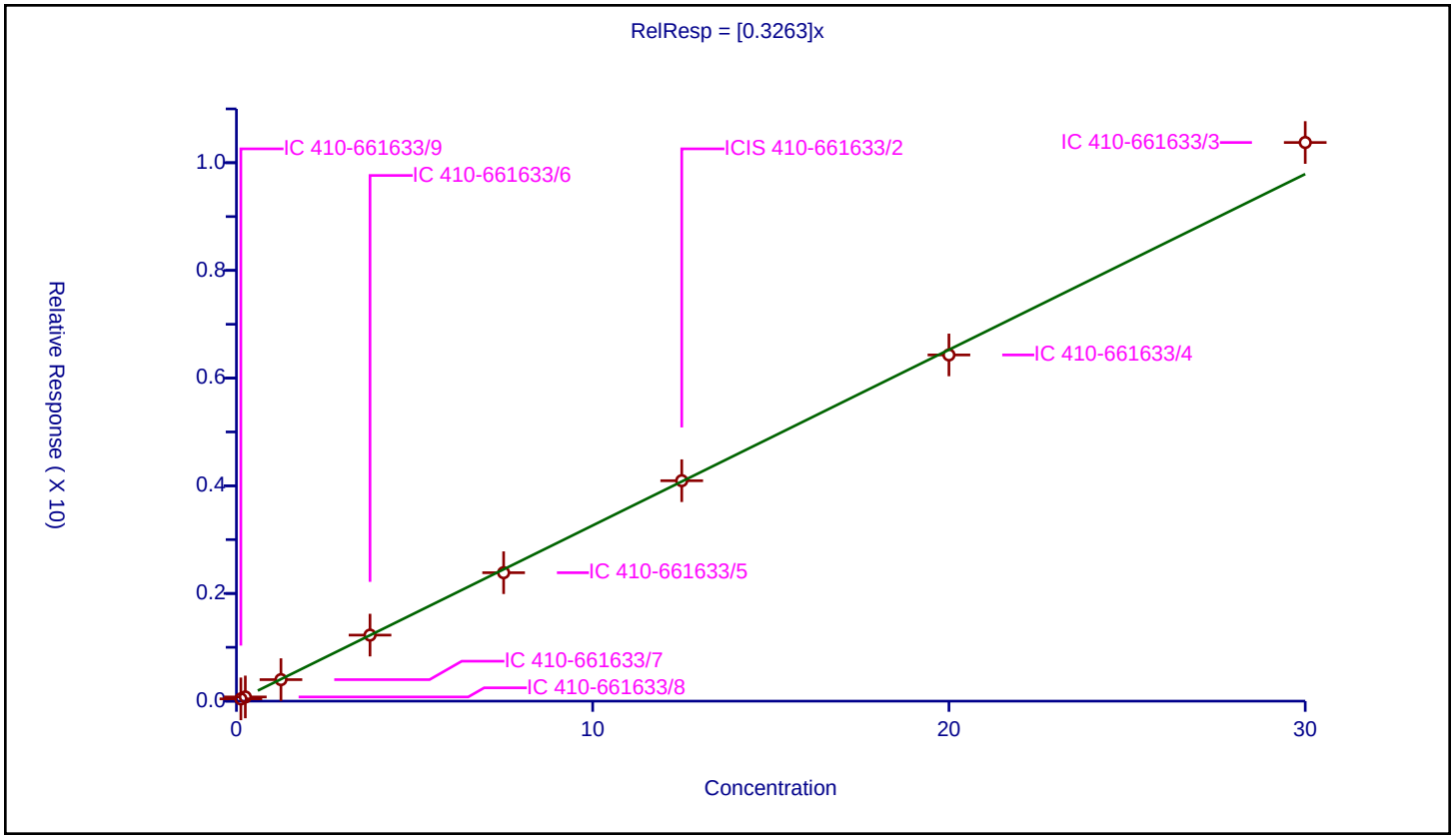
Curve Coefficients

Intercept:	0
Slope:	0.3263

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.042492	5.0	789215.0	0.339933	Y
2	IC 410-661633/8	0.25	0.07773	5.0	723592.0	0.310921	Y
3	IC 410-661633/7	1.25	0.399627	5.0	718069.0	0.319702	Y
4	IC 410-661633/6	3.75	1.226447	5.0	804213.0	0.327053	Y
5	IC 410-661633/5	7.5	2.385598	5.0	810998.0	0.31808	Y
6	ICIS 410-661633/2	12.5	4.094359	5.0	770741.0	0.327549	Y
7	IC 410-661633/4	20.0	6.429921	5.0	865212.0	0.321496	Y
8	IC 410-661633/3	30.0	10.375792	5.0	772262.0	0.34586	Y



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Calibration / 4-Chloroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

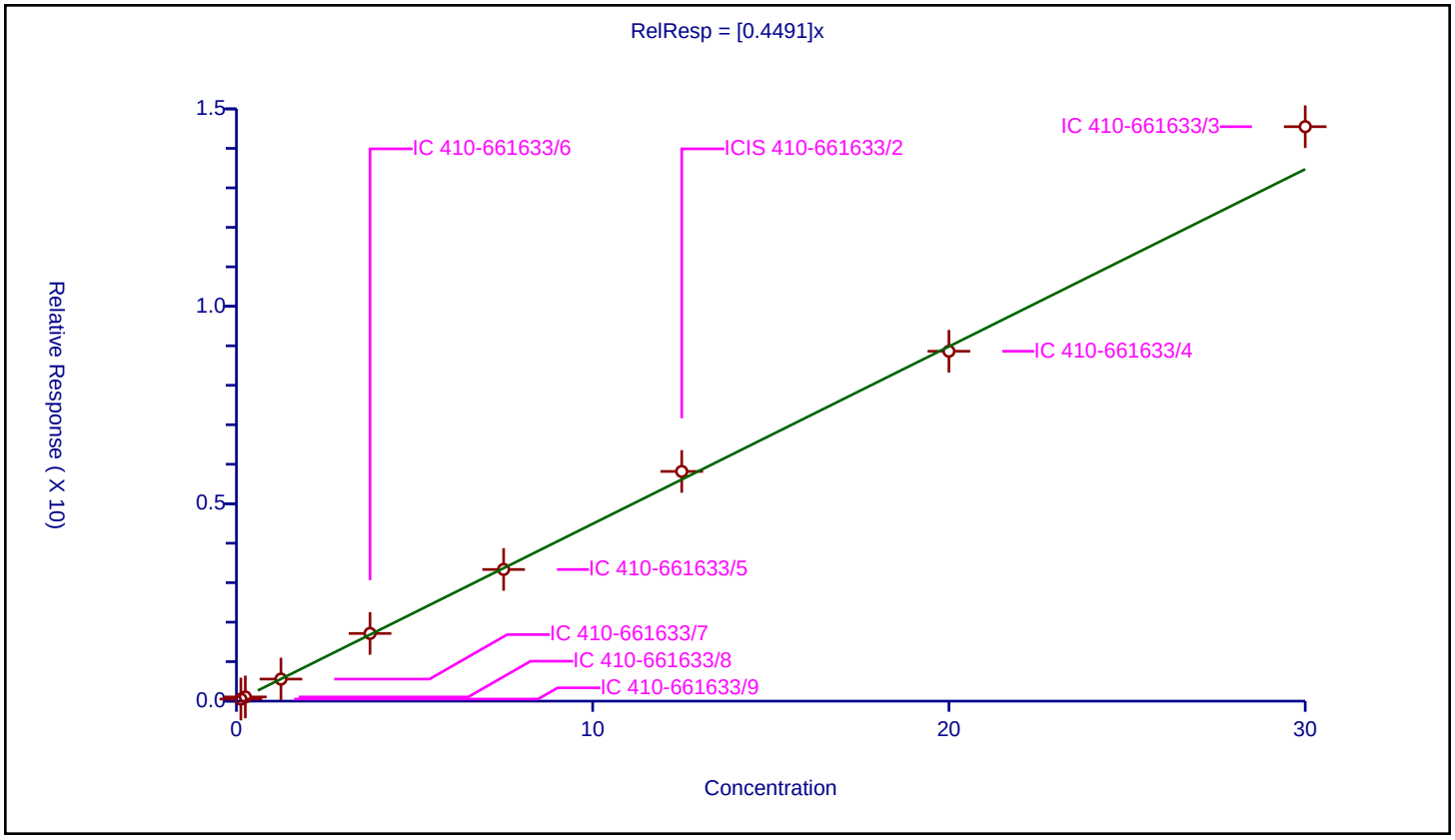
Curve Coefficients

Intercept:	0
Slope:	0.4491

Error Coefficients

Relative Standard Deviation:	4.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.053084	5.0	789215.0	0.424675	Y
2	IC 410-661633/8	0.25	0.106414	5.0	723592.0	0.425654	Y
3	IC 410-661633/7	1.25	0.558762	5.0	718069.0	0.44701	Y
4	IC 410-661633/6	3.75	1.714739	5.0	804213.0	0.457264	Y
5	IC 410-661633/5	7.5	3.33494	5.0	810998.0	0.444659	Y
6	ICIS 410-661633/2	12.5	5.817746	5.0	770741.0	0.46542	Y
7	IC 410-661633/4	20.0	8.861845	5.0	865212.0	0.443092	Y
8	IC 410-661633/3	30.0	14.549667	5.0	772262.0	0.484989	Y



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Calibration / 2,6-Dichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

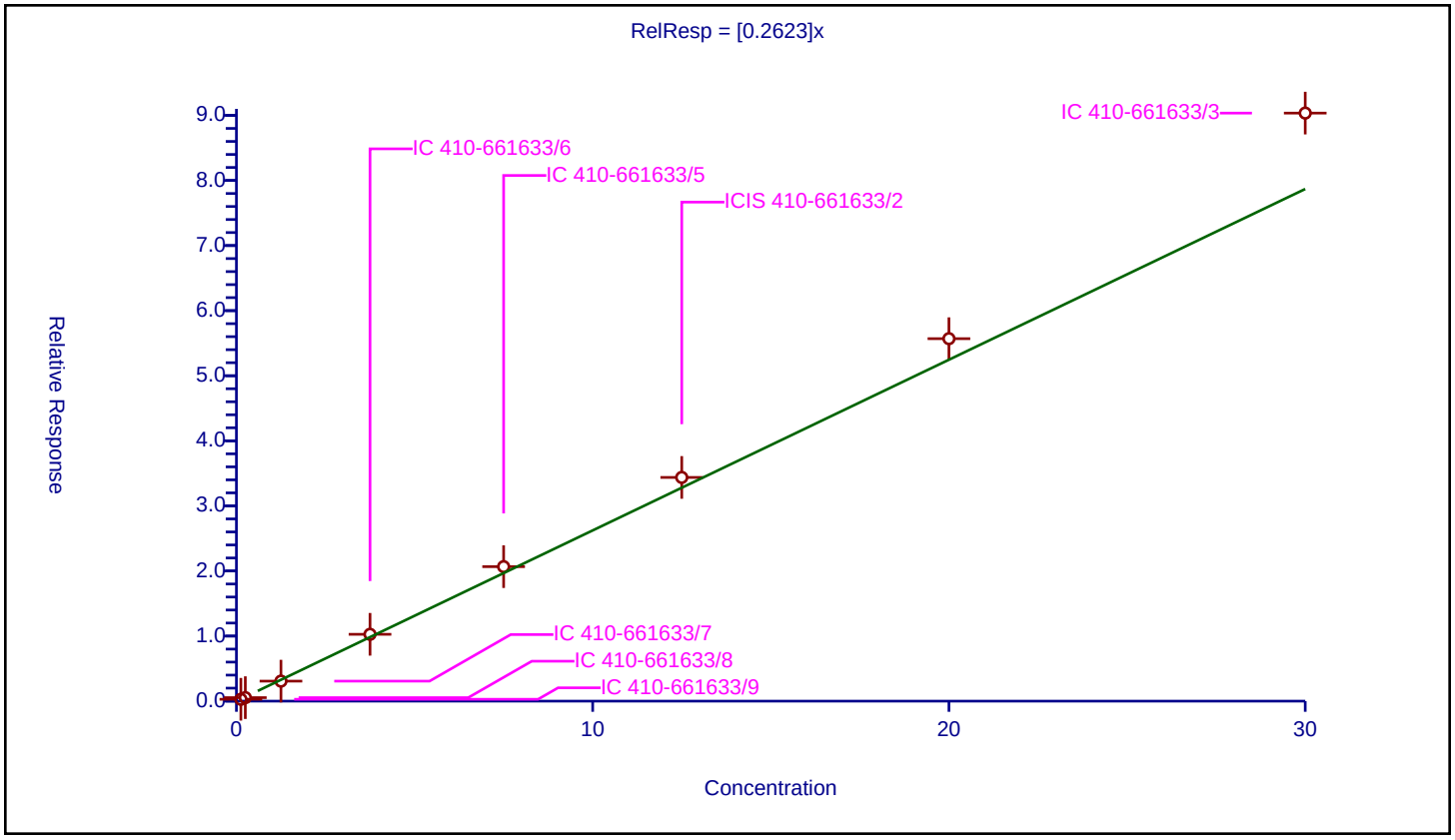
Curve Coefficients

Intercept:	0
Slope:	0.2623

Error Coefficients

Relative Standard Deviation:	10.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.029042	5.0	789215.0	0.232332	Y
2	IC 410-661633/8	0.25	0.053988	5.0	723592.0	0.21595	Y
3	IC 410-661633/7	1.25	0.307728	5.0	718069.0	0.246182	Y
4	IC 410-661633/6	3.75	1.026786	5.0	804213.0	0.27381	Y
5	IC 410-661633/5	7.5	2.066244	5.0	810998.0	0.275499	Y
6	ICIS 410-661633/2	12.5	3.437406	5.0	770741.0	0.274993	Y
7	IC 410-661633/4	20.0	5.569438	5.0	865212.0	0.278472	Y
8	IC 410-661633/3	30.0	9.03536	5.0	772262.0	0.301179	Y



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Calibration / Hexachloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

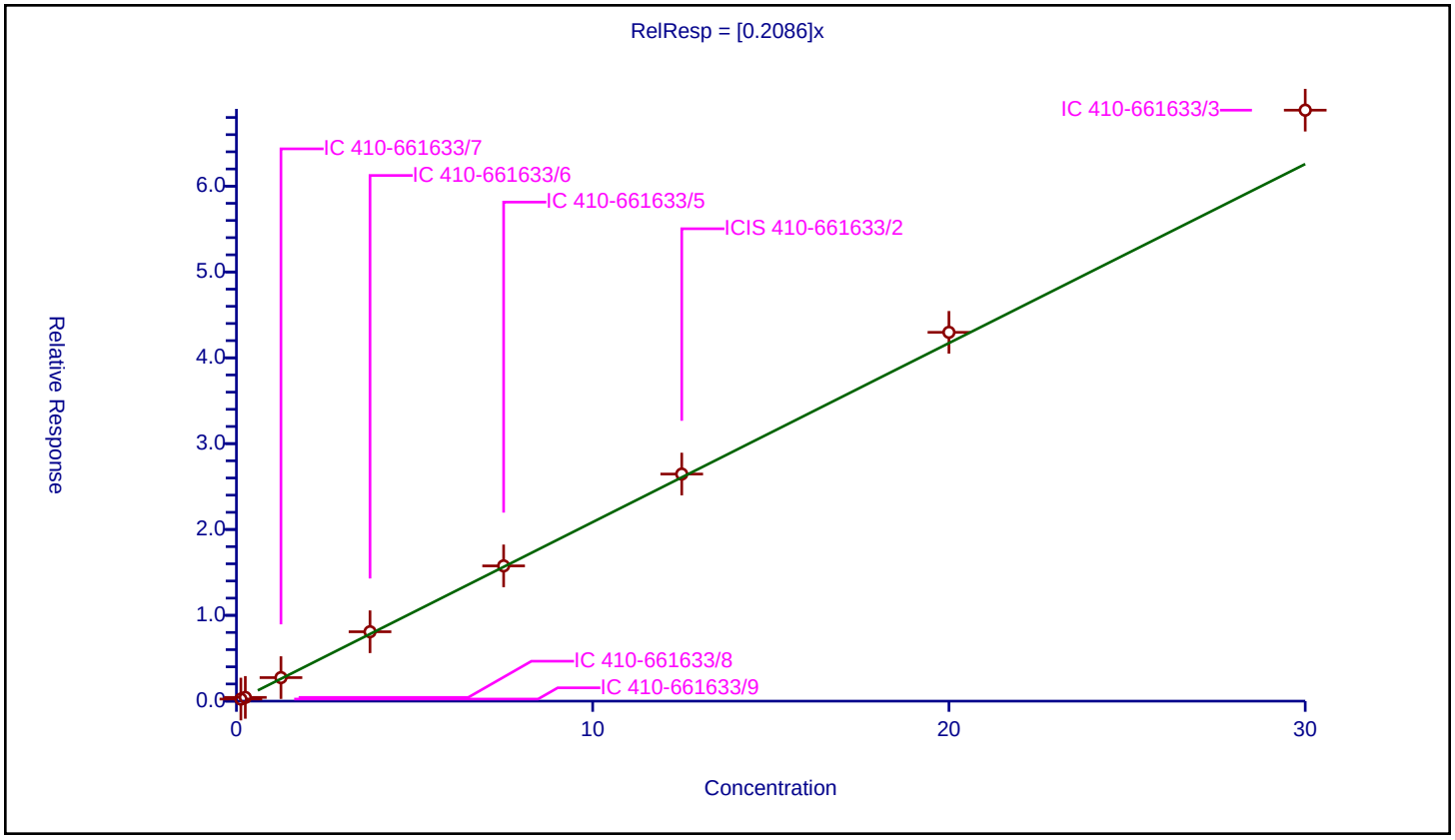
Curve Coefficients

Intercept:	0
Slope:	0.2086

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.024214	5.0	789215.0	0.193711	Y
2	IC 410-661633/8	0.25	0.043478	5.0	723592.0	0.17391	Y
3	IC 410-661633/7	1.25	0.27411	5.0	718069.0	0.219288	Y
4	IC 410-661633/6	3.75	0.808374	5.0	804213.0	0.215566	Y
5	IC 410-661633/5	7.5	1.575892	5.0	810998.0	0.210119	Y
6	ICIS 410-661633/2	12.5	2.64572	5.0	770741.0	0.211658	Y
7	IC 410-661633/4	20.0	4.296791	5.0	865212.0	0.21484	Y
8	IC 410-661633/3	30.0	6.88515	5.0	772262.0	0.229505	Y



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Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

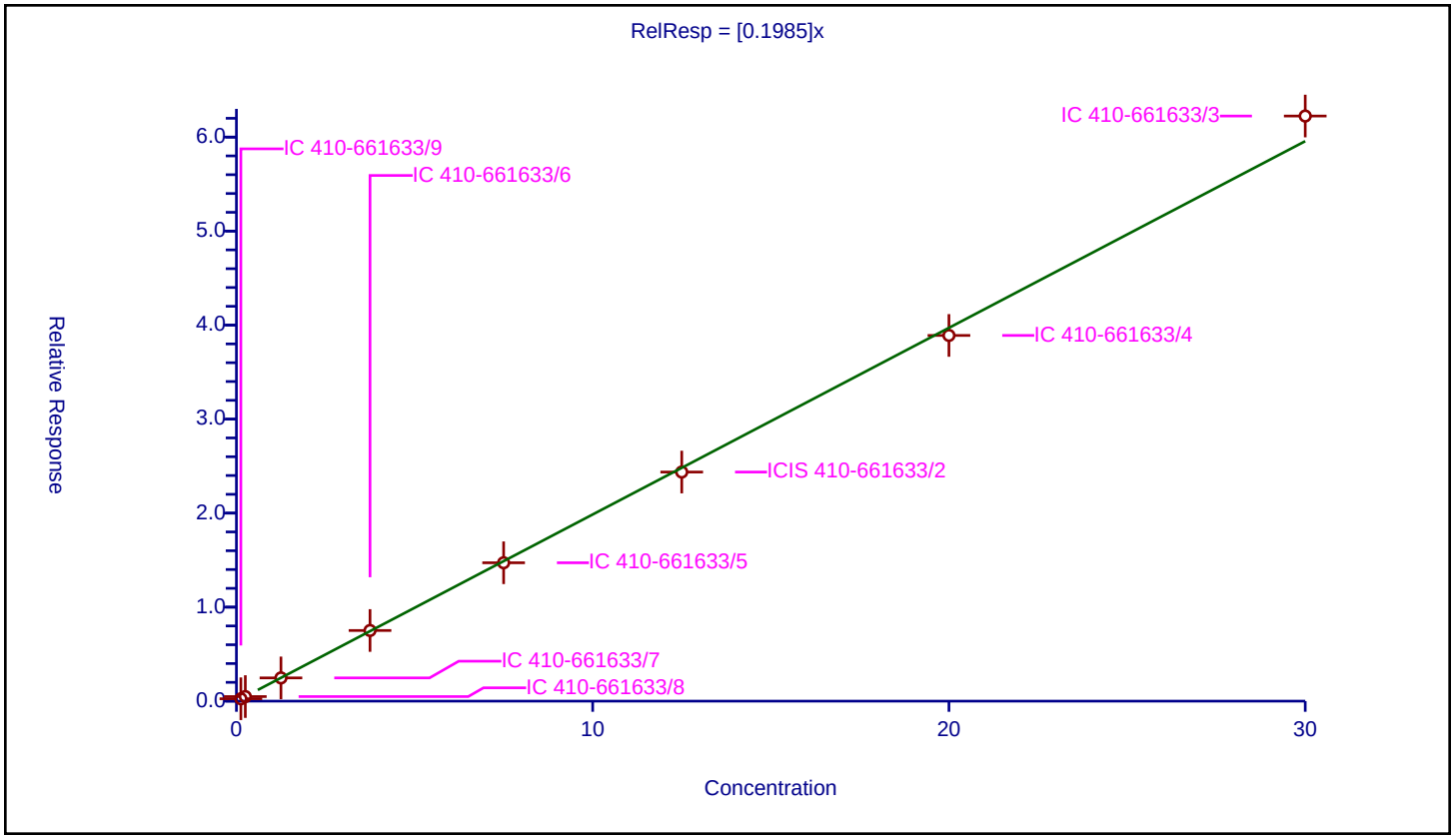
Curve Coefficients

Intercept:	0
Slope:	0.1985

Error Coefficients

Relative Standard Deviation:	2.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.02538	5.0	789215.0	0.203037	Y
2	IC 410-661633/8	0.25	0.048501	5.0	723592.0	0.194004	Y
3	IC 410-661633/7	1.25	0.247149	5.0	718069.0	0.197719	Y
4	IC 410-661633/6	3.75	0.751561	5.0	804213.0	0.200416	Y
5	IC 410-661633/5	7.5	1.471921	5.0	810998.0	0.196256	Y
6	ICIS 410-661633/2	12.5	2.437025	5.0	770741.0	0.194962	Y
7	IC 410-661633/4	20.0	3.890139	5.0	865212.0	0.194507	Y
8	IC 410-661633/3	30.0	6.224118	5.0	772262.0	0.207471	Y



Calibration / Quinoline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

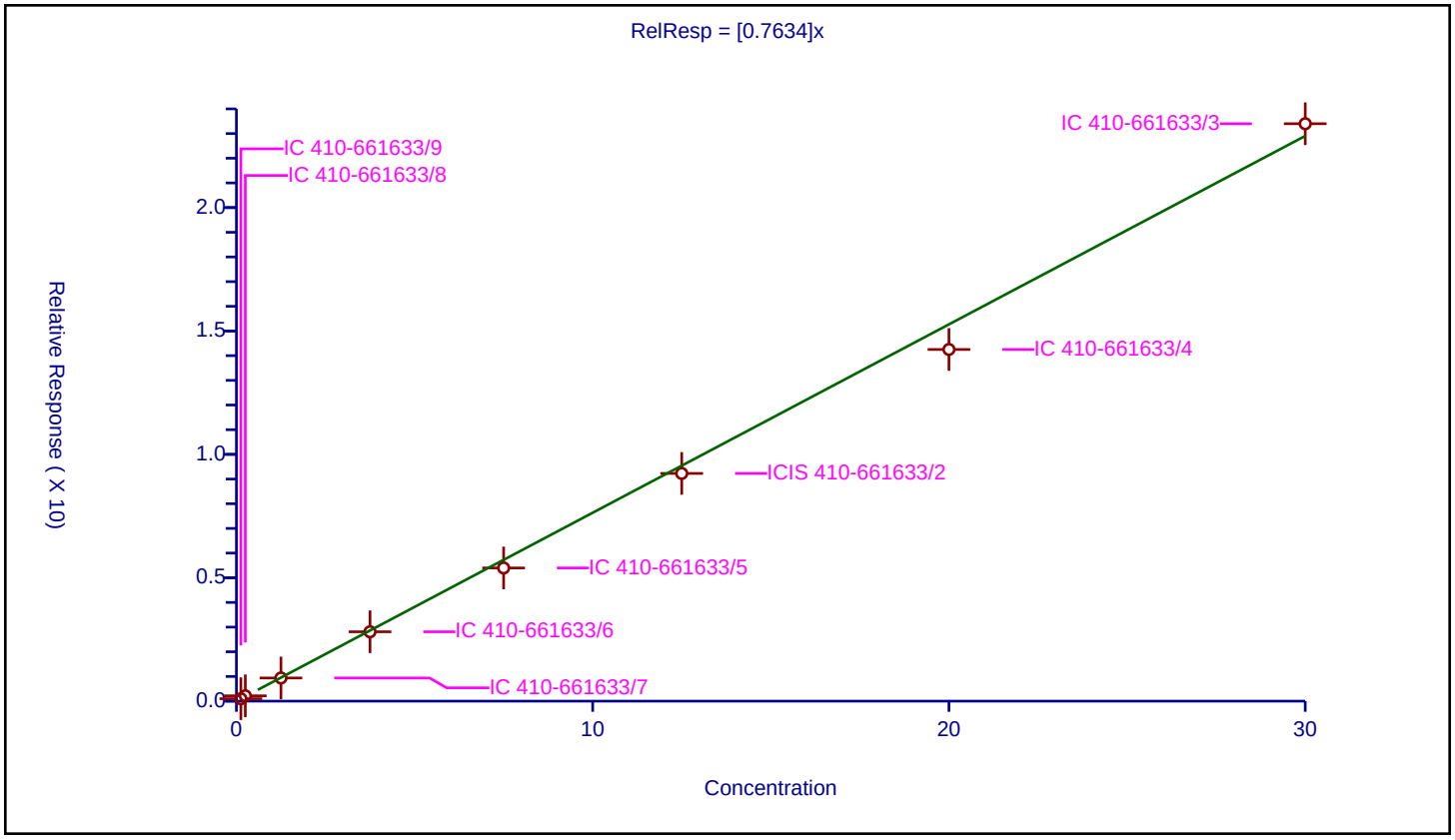
Curve Coefficients

Intercept:	0
Slope:	0.7634

Error Coefficients

Relative Standard Deviation:	6.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.099111	5.0	789215.0	0.792889	Y
2	IC 410-661633/8	0.25	0.215978	5.0	723592.0	0.863912	Y
3	IC 410-661633/7	1.25	0.938301	5.0	718069.0	0.750641	Y
4	IC 410-661633/6	3.75	2.810624	5.0	804213.0	0.7495	Y
5	IC 410-661633/5	7.5	5.39756	5.0	810998.0	0.719675	Y
6	ICIS 410-661633/2	12.5	9.227652	5.0	770741.0	0.738212	Y
7	IC 410-661633/4	20.0	14.250513	5.0	865212.0	0.712526	Y
8	IC 410-661633/3	30.0	23.398976	5.0	772262.0	0.779966	Y



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Calibration / Caprolactam

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

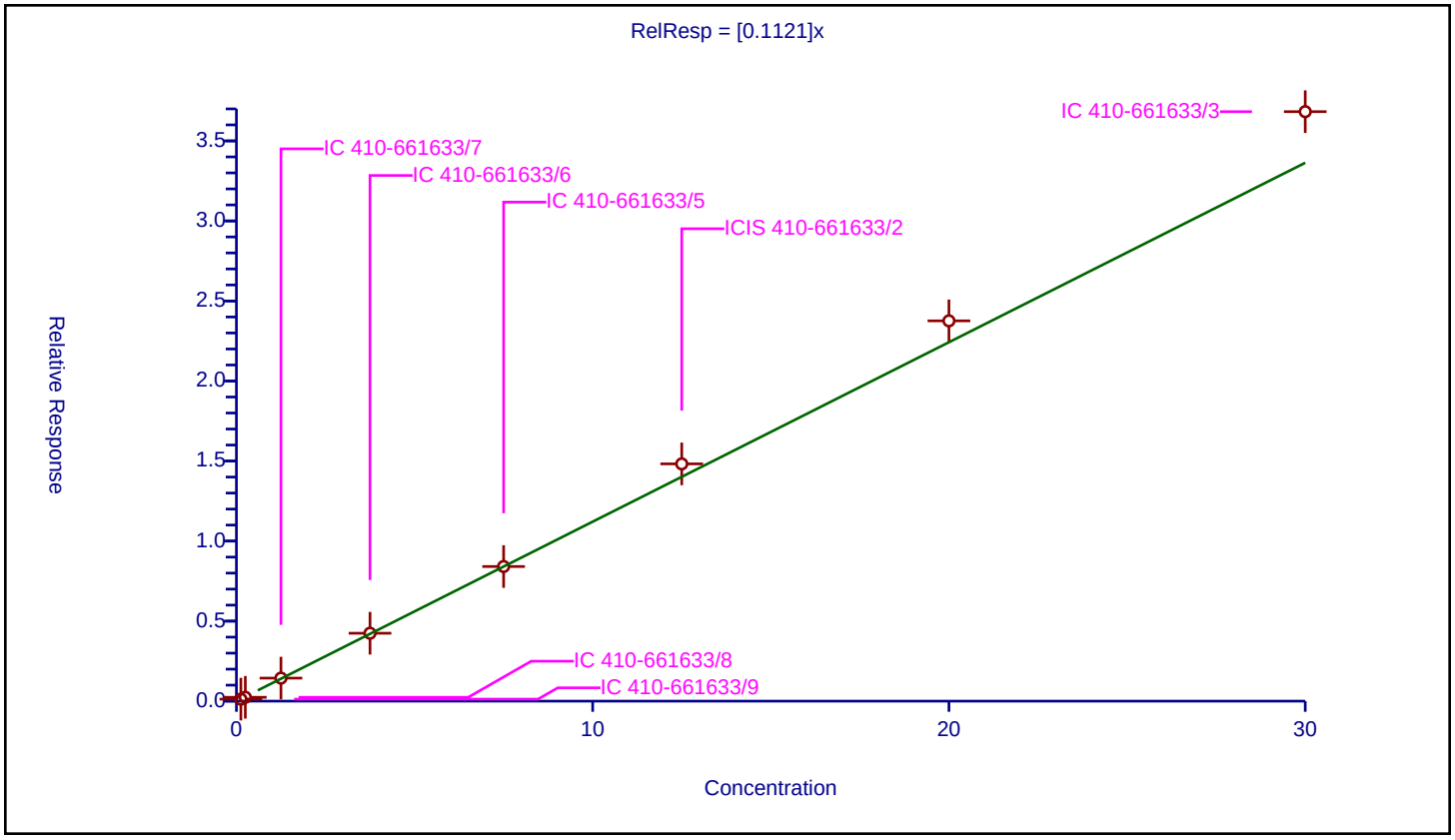
Curve Coefficients

Intercept:	0
Slope:	0.1121

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.012557	5.0	789215.0	0.100454	Y
2	IC 410-661633/8	0.25	0.023985	5.0	723592.0	0.095938	Y
3	IC 410-661633/7	1.25	0.143865	5.0	718069.0	0.115092	Y
4	IC 410-661633/6	3.75	0.424241	5.0	804213.0	0.113131	Y
5	IC 410-661633/5	7.5	0.840989	5.0	810998.0	0.112132	Y
6	ICIS 410-661633/2	12.5	1.482242	5.0	770741.0	0.118579	Y
7	IC 410-661633/4	20.0	2.375788	5.0	865212.0	0.118789	Y
8	IC 410-661633/3	30.0	3.682617	5.0	772262.0	0.122754	Y



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Calibration / N-Nitrosodi-n-butylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

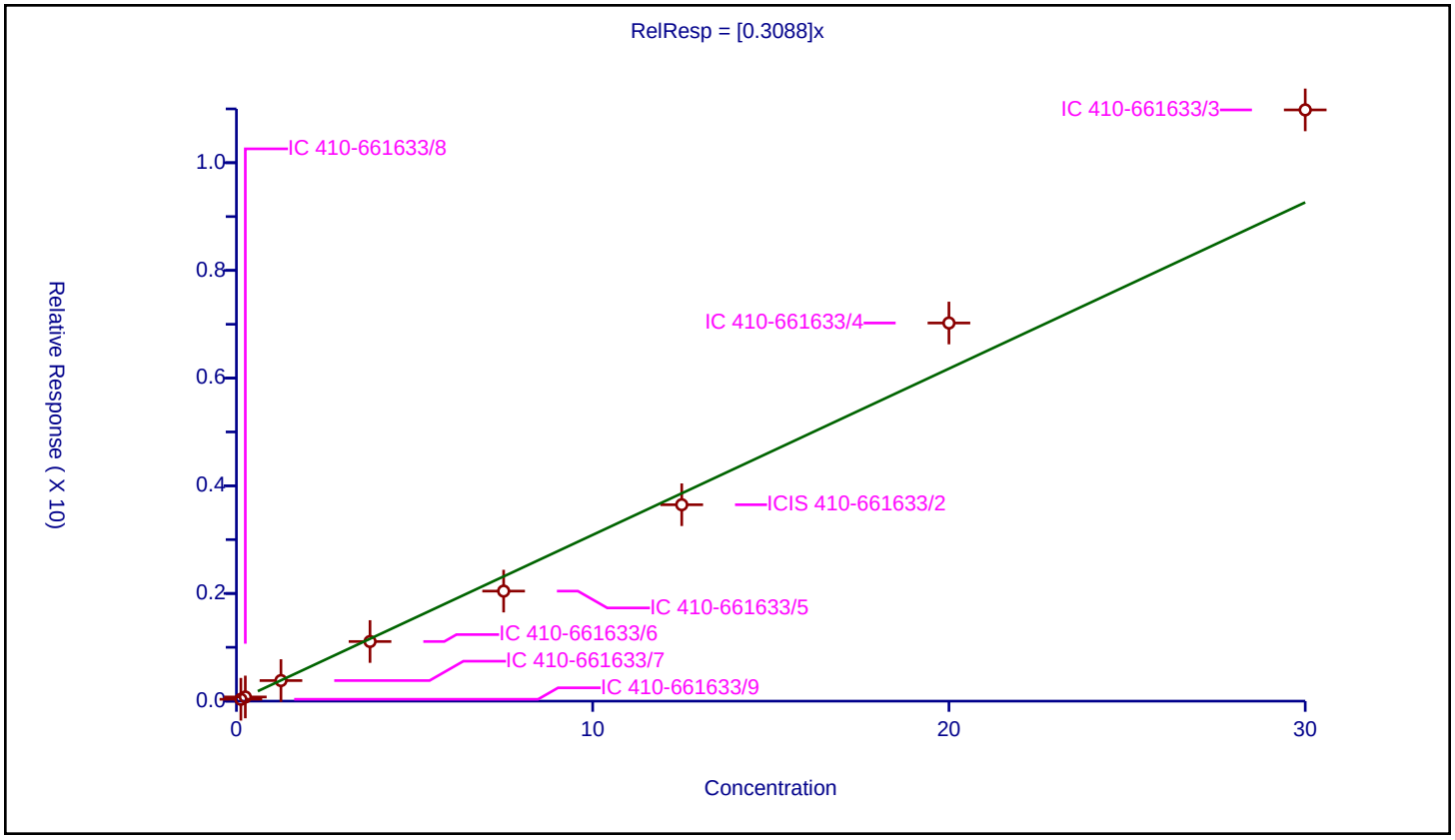
Curve Coefficients

Intercept:	0
Slope:	0.3088

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.034788	5.0	789215.0	0.278302	Y
2	IC 410-661633/8	0.25	0.077343	5.0	723592.0	0.309373	Y
3	IC 410-661633/7	1.25	0.382115	5.0	718069.0	0.305692	Y
4	IC 410-661633/6	3.75	1.107437	5.0	804213.0	0.295316	Y
5	IC 410-661633/5	7.5	2.043858	5.0	810998.0	0.272514	Y
6	ICIS 410-661633/2	12.5	3.648119	5.0	770741.0	0.29185	Y
7	IC 410-661633/4	20.0	7.023435	5.0	865212.0	0.351172	Y
8	IC 410-661633/3	30.0	10.981442	5.0	772262.0	0.366048	Y



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Calibration / p-Phenylene diamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

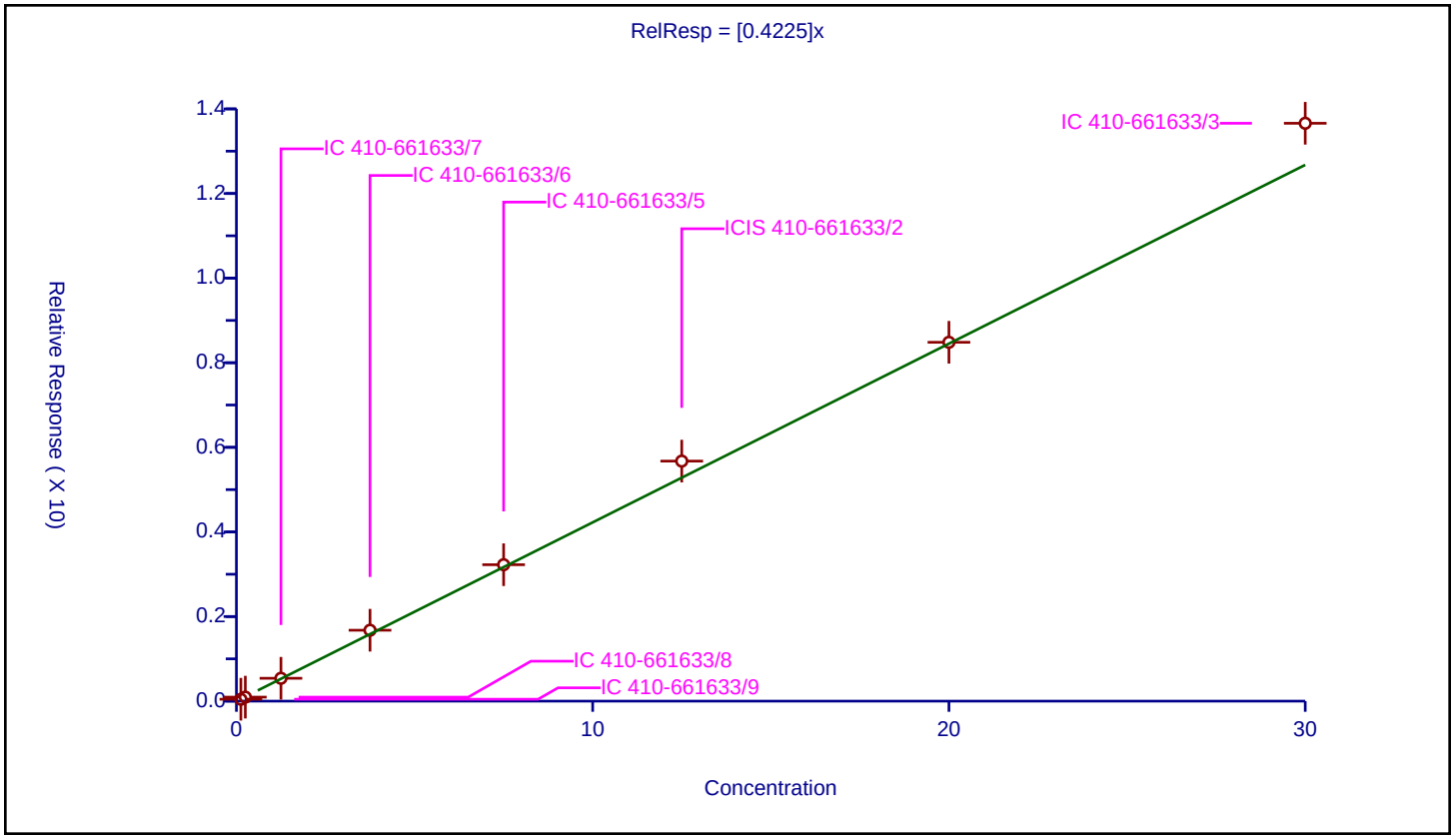
Curve Coefficients

Intercept:	0
Slope:	0.4225

Error Coefficients

Relative Standard Deviation:	8.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.044804	5.0	789215.0	0.358432	Y
2	IC 410-661633/8	0.25	0.094701	5.0	723592.0	0.378805	Y
3	IC 410-661633/7	1.25	0.540651	5.0	718069.0	0.432521	Y
4	IC 410-661633/6	3.75	1.676235	5.0	804213.0	0.446996	Y
5	IC 410-661633/5	7.5	3.22531	5.0	810998.0	0.430041	Y
6	ICIS 410-661633/2	12.5	5.674507	5.0	770741.0	0.453961	Y
7	IC 410-661633/4	20.0	8.482759	5.0	865212.0	0.424138	Y
8	IC 410-661633/3	30.0	13.660021	5.0	772262.0	0.455334	Y



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Calibration / 4-Chloro-3-methylphenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

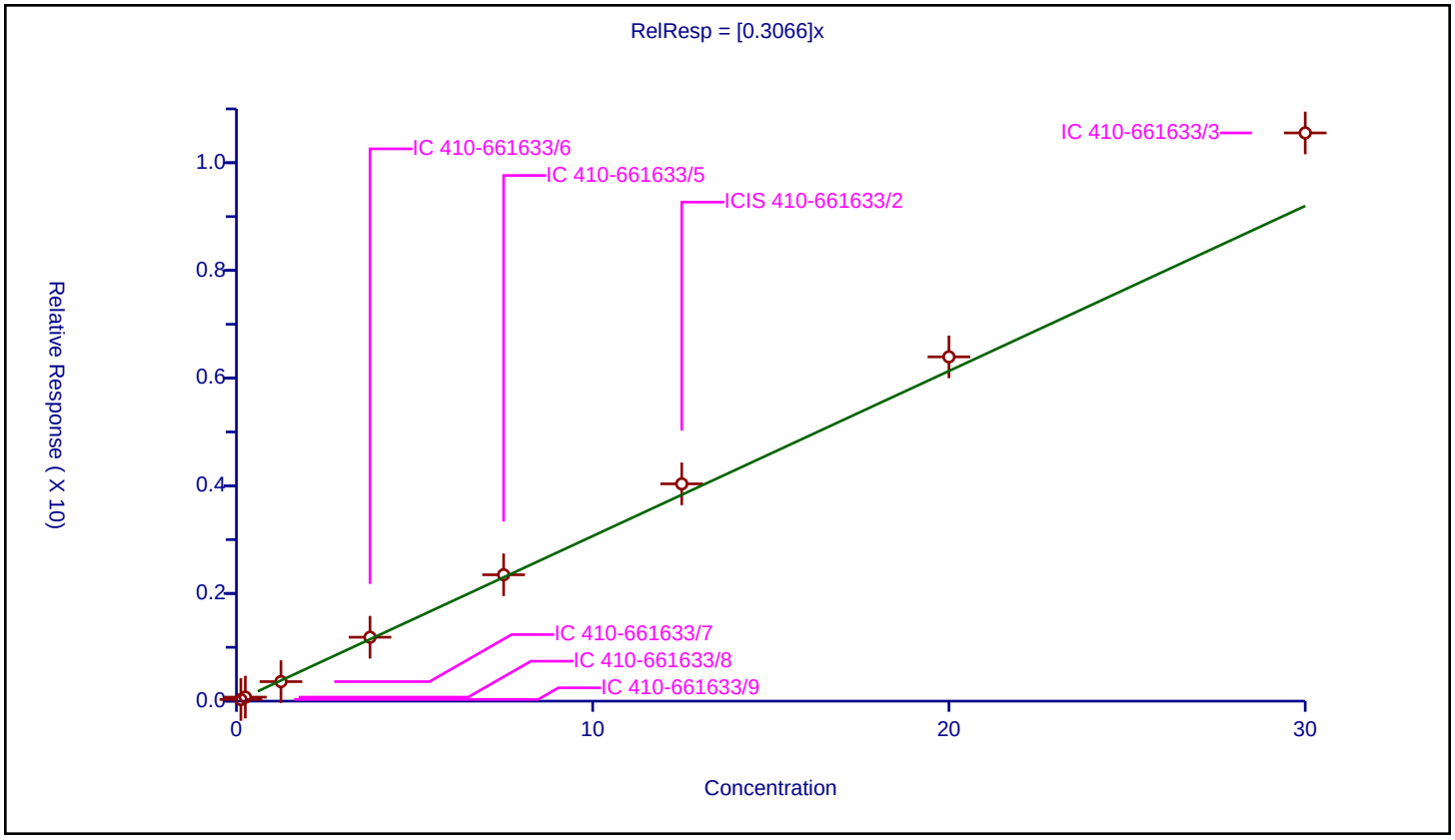
Curve Coefficients

Intercept:	0
Slope:	0.3066

Error Coefficients

Relative Standard Deviation:	10.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.030233	5.0	789215.0	0.241861	Y
2	IC 410-661633/8	0.25	0.074324	5.0	723592.0	0.297295	Y
3	IC 410-661633/7	1.25	0.362228	5.0	718069.0	0.289783	Y
4	IC 410-661633/6	3.75	1.186906	5.0	804213.0	0.316508	Y
5	IC 410-661633/5	7.5	2.346899	5.0	810998.0	0.31292	Y
6	ICIS 410-661633/2	12.5	4.035934	5.0	770741.0	0.322875	Y
7	IC 410-661633/4	20.0	6.394462	5.0	865212.0	0.319723	Y
8	IC 410-661633/3	30.0	10.553666	5.0	772262.0	0.351789	Y



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Calibration / Safrole, Total

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

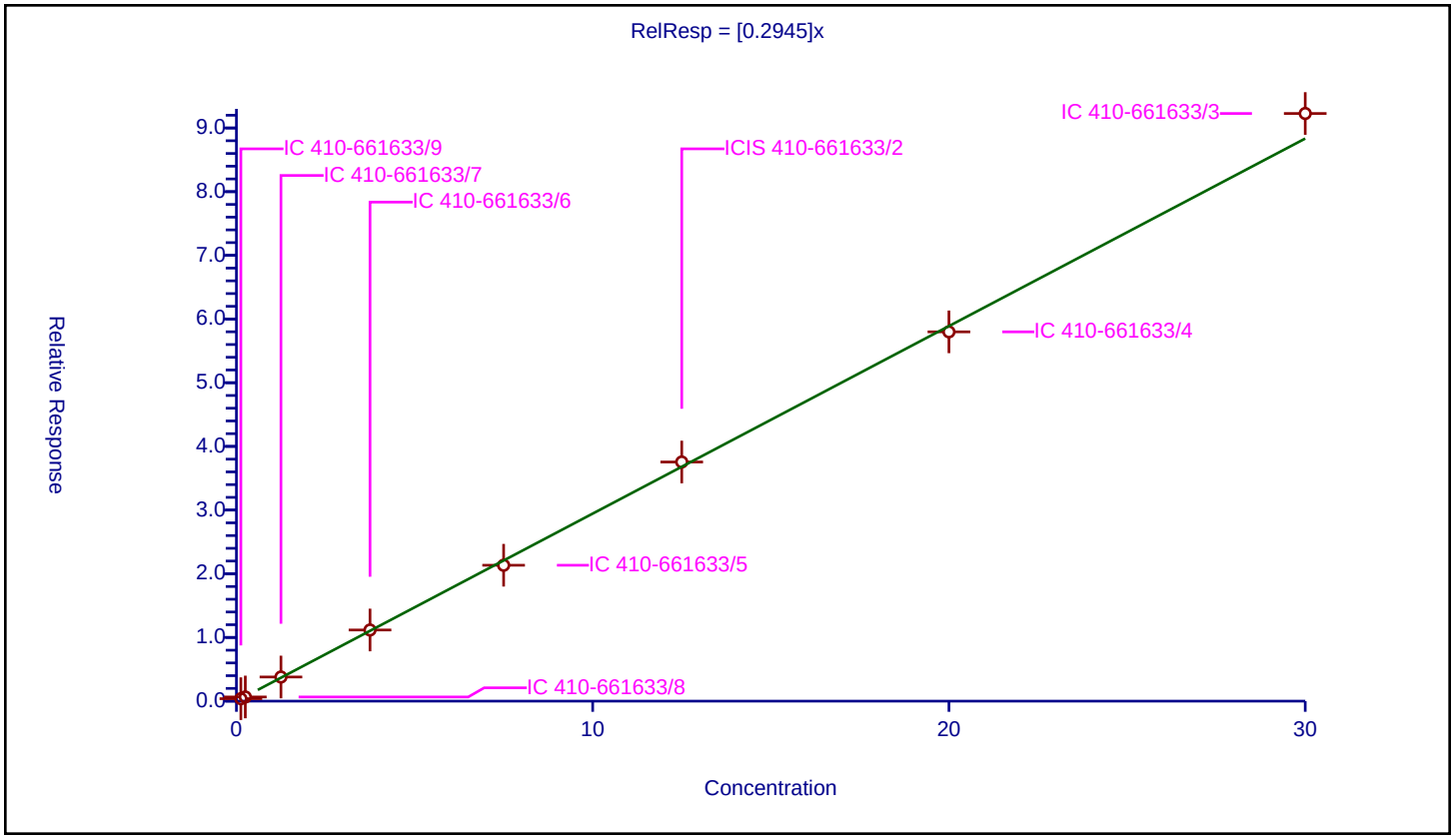
Curve Coefficients

Intercept:	0
Slope:	0.2945

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.038735	5.0	789215.0	0.309878	Y
2	IC 410-661633/8	0.25	0.065548	5.0	723592.0	0.262192	Y
3	IC 410-661633/7	1.25	0.37903	5.0	718069.0	0.303224	Y
4	IC 410-661633/6	3.75	1.117335	5.0	804213.0	0.297956	Y
5	IC 410-661633/5	7.5	2.133963	5.0	810998.0	0.284528	Y
6	ICIS 410-661633/2	12.5	3.755153	5.0	770741.0	0.300412	Y
7	IC 410-661633/4	20.0	5.798839	5.0	865212.0	0.289942	Y
8	IC 410-661633/3	30.0	9.227704	5.0	772262.0	0.30759	Y



Calibration / 2-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

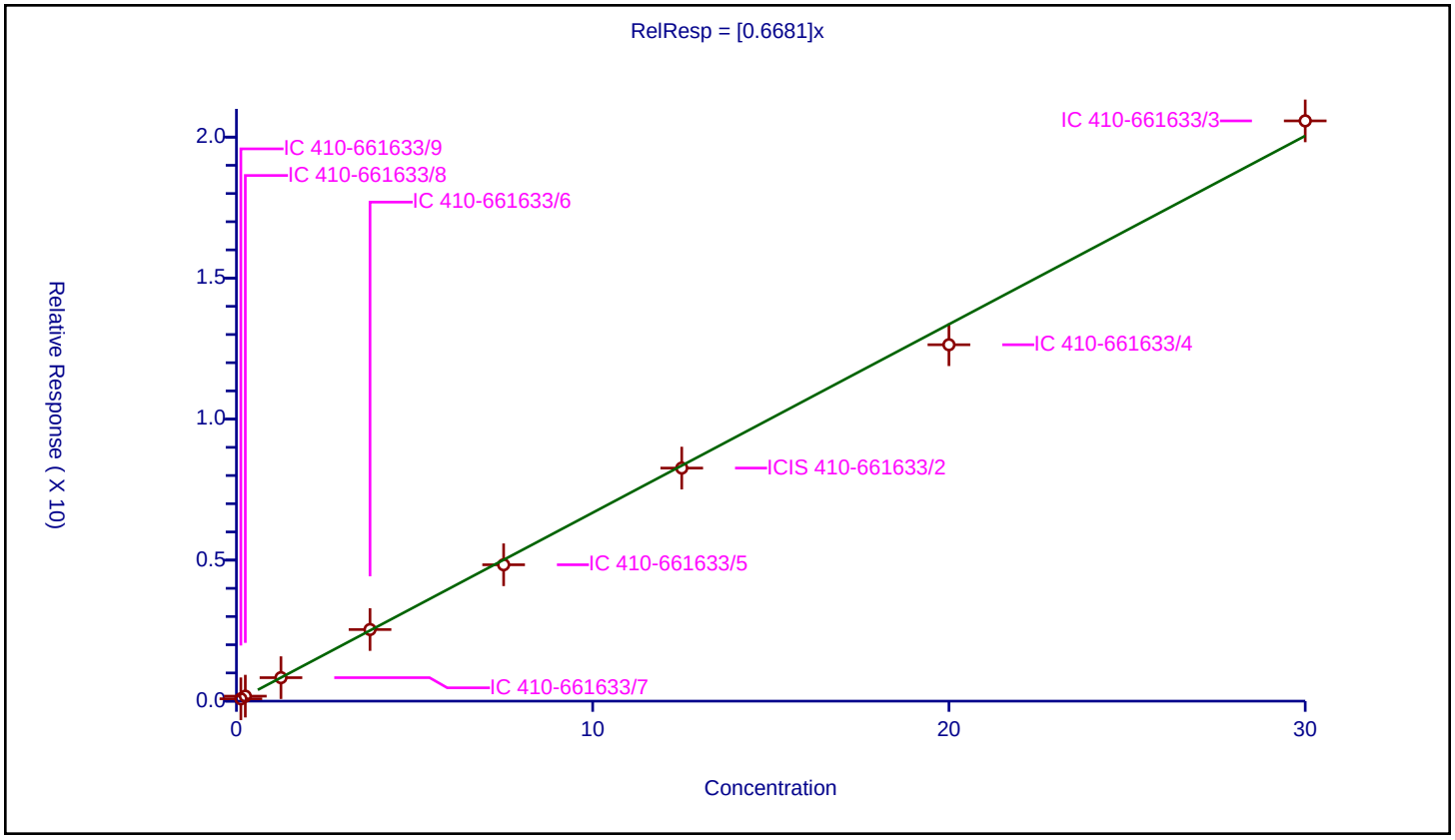
Curve Coefficients

Intercept:	0
Slope:	0.6681

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.083995	5.0	789215.0	0.671959	Y
2	IC 410-661633/8	0.25	0.176626	5.0	723592.0	0.706503	Y
3	IC 410-661633/7	1.25	0.832288	5.0	718069.0	0.66583	Y
4	IC 410-661633/6	3.75	2.539315	5.0	804213.0	0.677151	Y
5	IC 410-661633/5	7.5	4.835789	5.0	810998.0	0.644772	Y
6	ICIS 410-661633/2	12.5	8.264339	5.0	770741.0	0.661147	Y
7	IC 410-661633/4	20.0	12.637024	5.0	865212.0	0.631851	Y
8	IC 410-661633/3	30.0	20.575329	5.0	772262.0	0.685844	Y



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Calibration / 1-Methylnaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

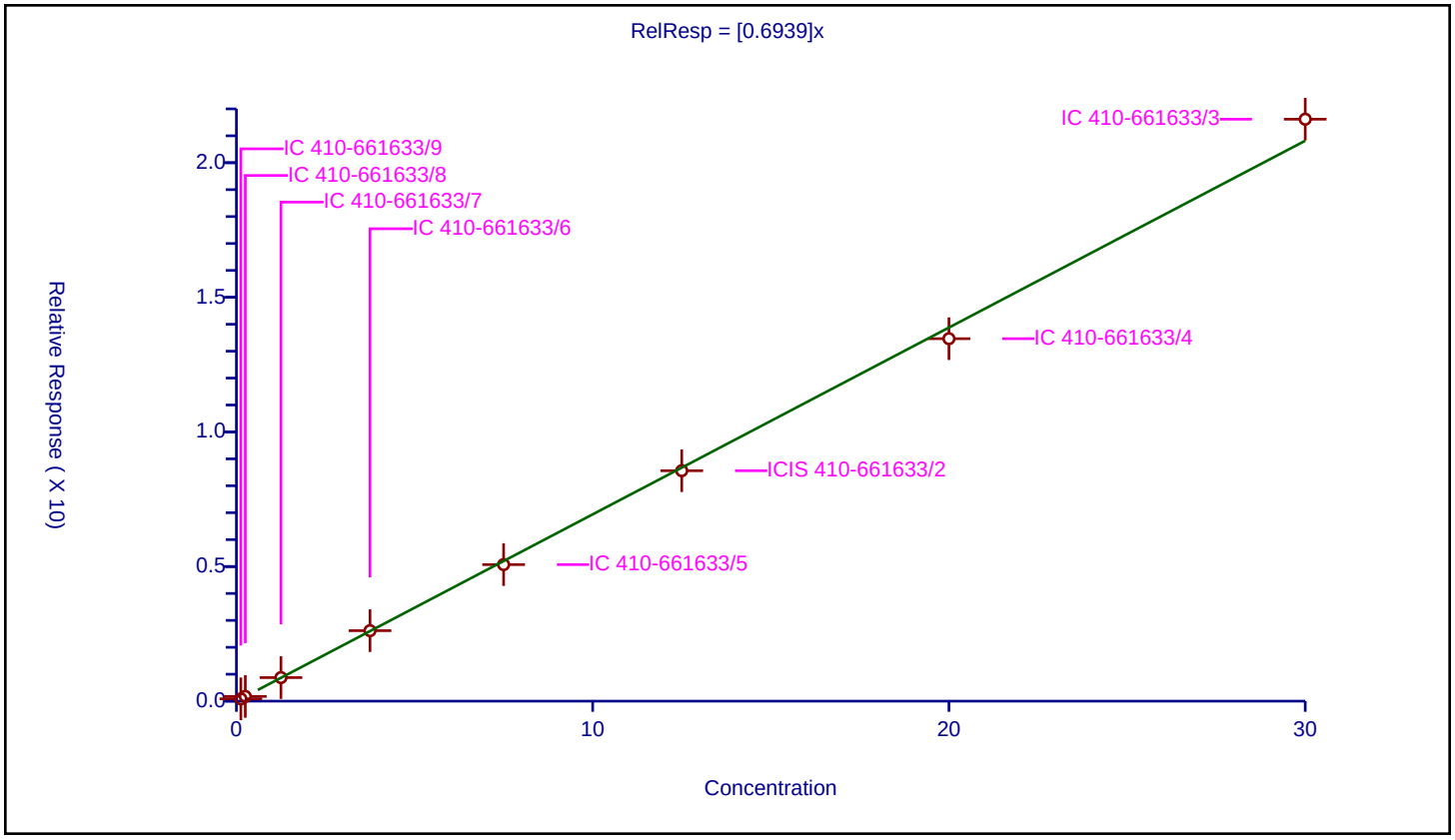
Curve Coefficients

Intercept:	0
Slope:	0.6939

Error Coefficients

Relative Standard Deviation:	2.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.086877	5.0	789215.0	0.69502	Y
2	IC 410-661633/8	0.25	0.1757	5.0	723592.0	0.702799	Y
3	IC 410-661633/7	1.25	0.87502	5.0	718069.0	0.700016	Y
4	IC 410-661633/6	3.75	2.618293	5.0	804213.0	0.698211	Y
5	IC 410-661633/5	7.5	5.071967	5.0	810998.0	0.676262	Y
6	ICIS 410-661633/2	12.5	8.559756	5.0	770741.0	0.68478	Y
7	IC 410-661633/4	20.0	13.463943	5.0	865212.0	0.673197	Y
8	IC 410-661633/3	30.0	21.616427	5.0	772262.0	0.720548	Y



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Calibration / Hexachlorocyclopentadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

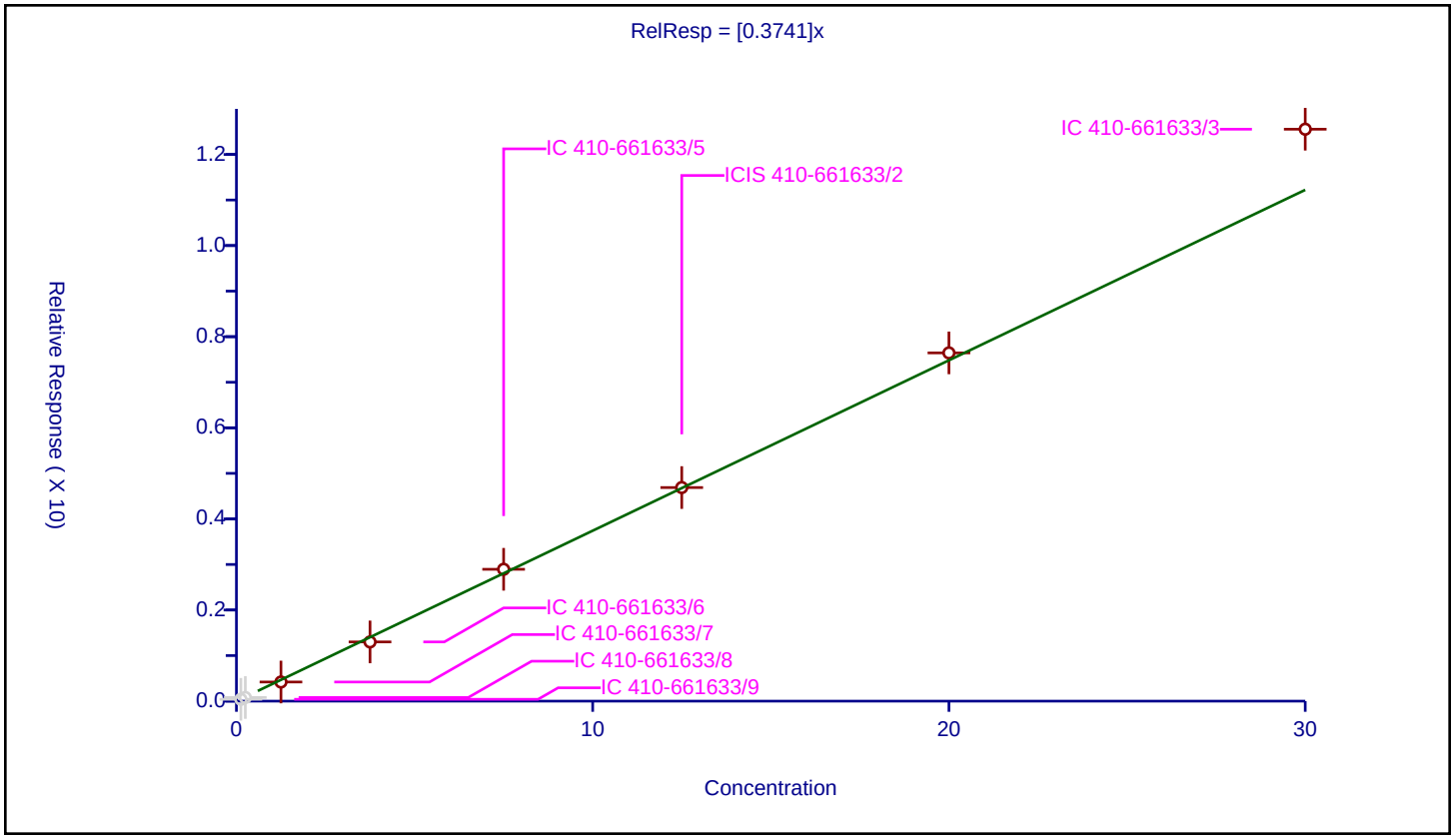
Curve Coefficients

Intercept:	0
Slope:	0.3741

Error Coefficients

Relative Standard Deviation:	7.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.040642	5.0	502809.0	0.325133	N
2	IC 410-661633/8	0.25	0.079569	5.0	472984.0	0.318277	N
3	IC 410-661633/7	1.25	0.420215	5.0	475519.0	0.336172	Y
4	IC 410-661633/6	3.75	1.299927	5.0	534976.0	0.346647	Y
5	IC 410-661633/5	7.5	2.894157	5.0	505071.0	0.385888	Y
6	ICIS 410-661633/2	12.5	4.688663	5.0	500342.0	0.375093	Y
7	IC 410-661633/4	20.0	7.644069	5.0	552270.0	0.382203	Y
8	IC 410-661633/3	30.0	12.553864	5.0	492767.0	0.418462	Y



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Calibration / 1,2,4,5-Tetrachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

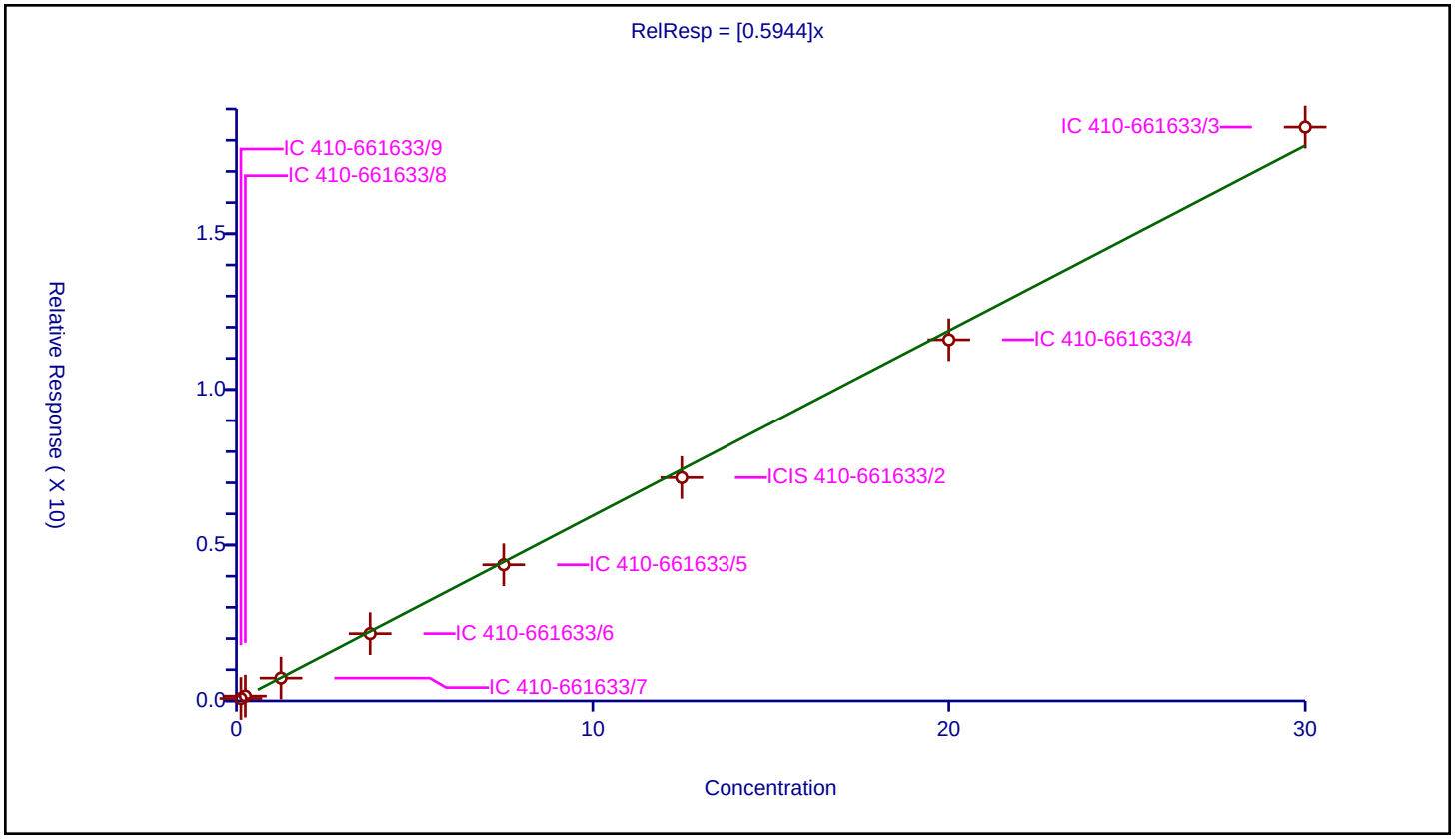
Curve Coefficients

Intercept:	0
Slope:	0.5944

Error Coefficients

Relative Standard Deviation:	3.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.078221	5.0	502809.0	0.625764	Y
2	IC 410-661633/8	0.25	0.154678	5.0	472984.0	0.61871	Y
3	IC 410-661633/7	1.25	0.73221	5.0	475519.0	0.585768	Y
4	IC 410-661633/6	3.75	2.157405	5.0	534976.0	0.575308	Y
5	IC 410-661633/5	7.5	4.366921	5.0	505071.0	0.582256	Y
6	ICIS 410-661633/2	12.5	7.167497	5.0	500342.0	0.5734	Y
7	IC 410-661633/4	20.0	11.597416	5.0	552270.0	0.579871	Y
8	IC 410-661633/3	30.0	18.421303	5.0	492767.0	0.614043	Y



Calibration / Isosafrole Peak 1

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

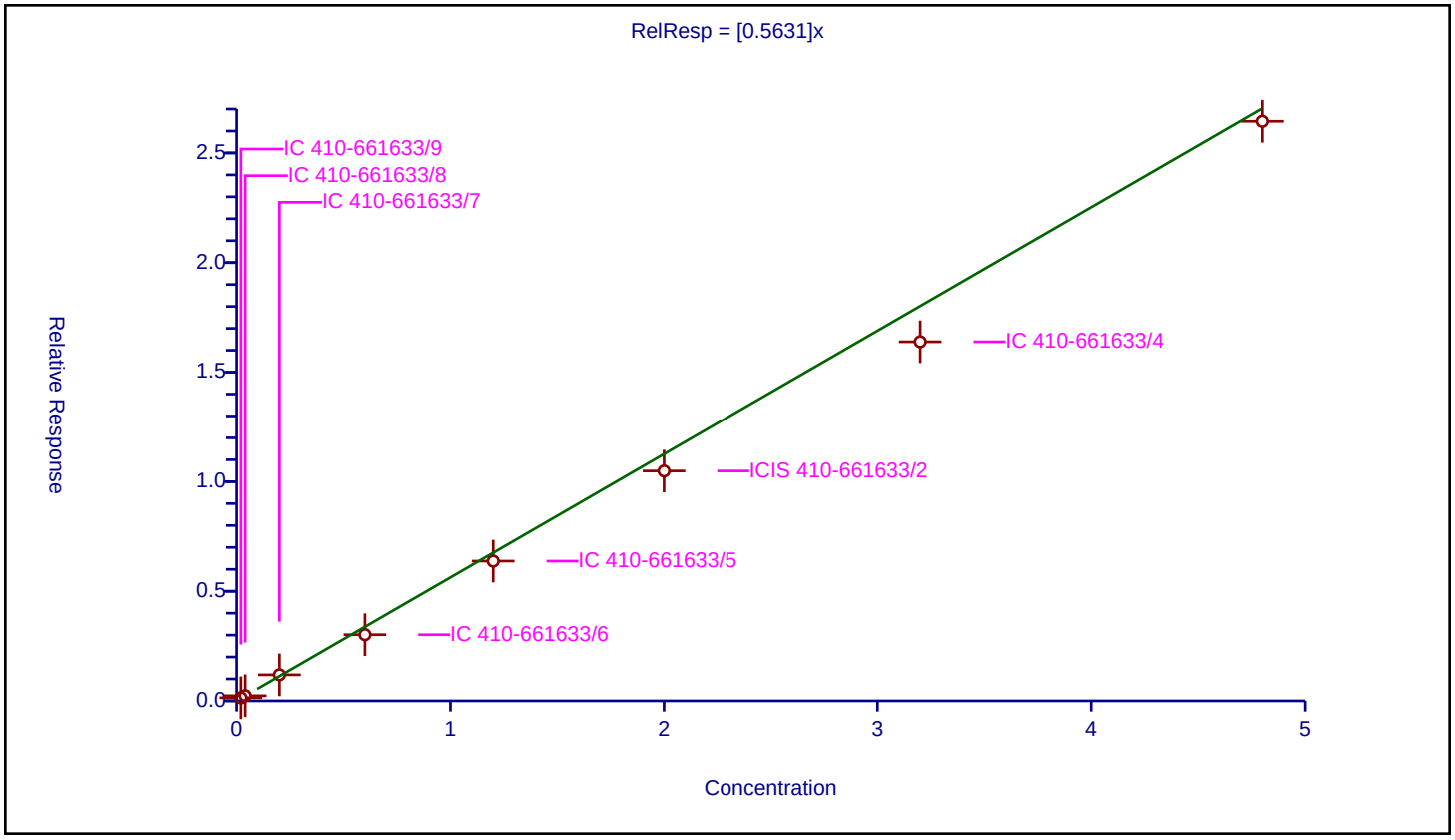
Curve Coefficients

Intercept:	0
Slope:	0.5631

Error Coefficients

Relative Standard Deviation:	11.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.02	0.014101	5.0	502809.0	0.705039	Y
2	IC 410-661633/8	0.04	0.023373	5.0	472984.0	0.584322	Y
3	IC 410-661633/7	0.2	0.118691	5.0	475519.0	0.593457	Y
4	IC 410-661633/6	0.6	0.301761	5.0	534976.0	0.502935	Y
5	IC 410-661633/5	1.2	0.637485	5.0	505071.0	0.531237	Y
6	ICIS 410-661633/2	2.0	1.048783	5.0	500342.0	0.524391	Y
7	IC 410-661633/4	3.2	1.63889	5.0	552270.0	0.512153	Y
8	IC 410-661633/3	4.8	2.644302	5.0	492767.0	0.550896	Y



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Calibration / 2,4,6-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

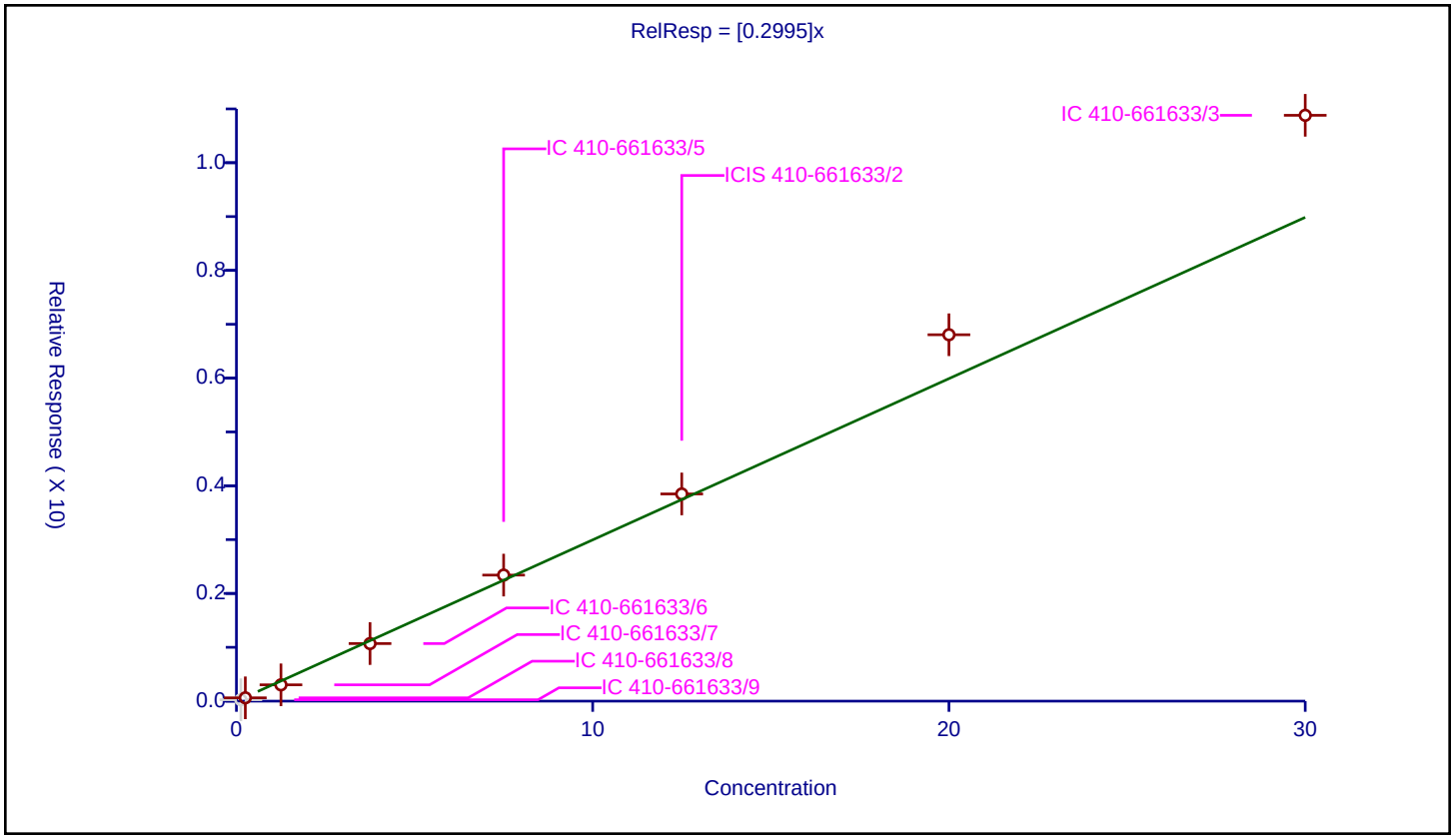
Curve Coefficients

Intercept:	0
Slope:	0.2995

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.025934	5.0	502809.0	0.207474	N
2	IC 410-661633/8	0.25	0.061577	5.0	472984.0	0.246309	Y
3	IC 410-661633/7	1.25	0.30289	5.0	475519.0	0.242312	Y
4	IC 410-661633/6	3.75	1.069048	5.0	534976.0	0.285079	Y
5	IC 410-661633/5	7.5	2.340918	5.0	505071.0	0.312122	Y
6	ICIS 410-661633/2	12.5	3.848238	5.0	500342.0	0.307859	Y
7	IC 410-661633/4	20.0	6.805204	5.0	552270.0	0.34026	Y
8	IC 410-661633/3	30.0	10.880822	5.0	492767.0	0.362694	Y



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Calibration / 2,4,5-Trichlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

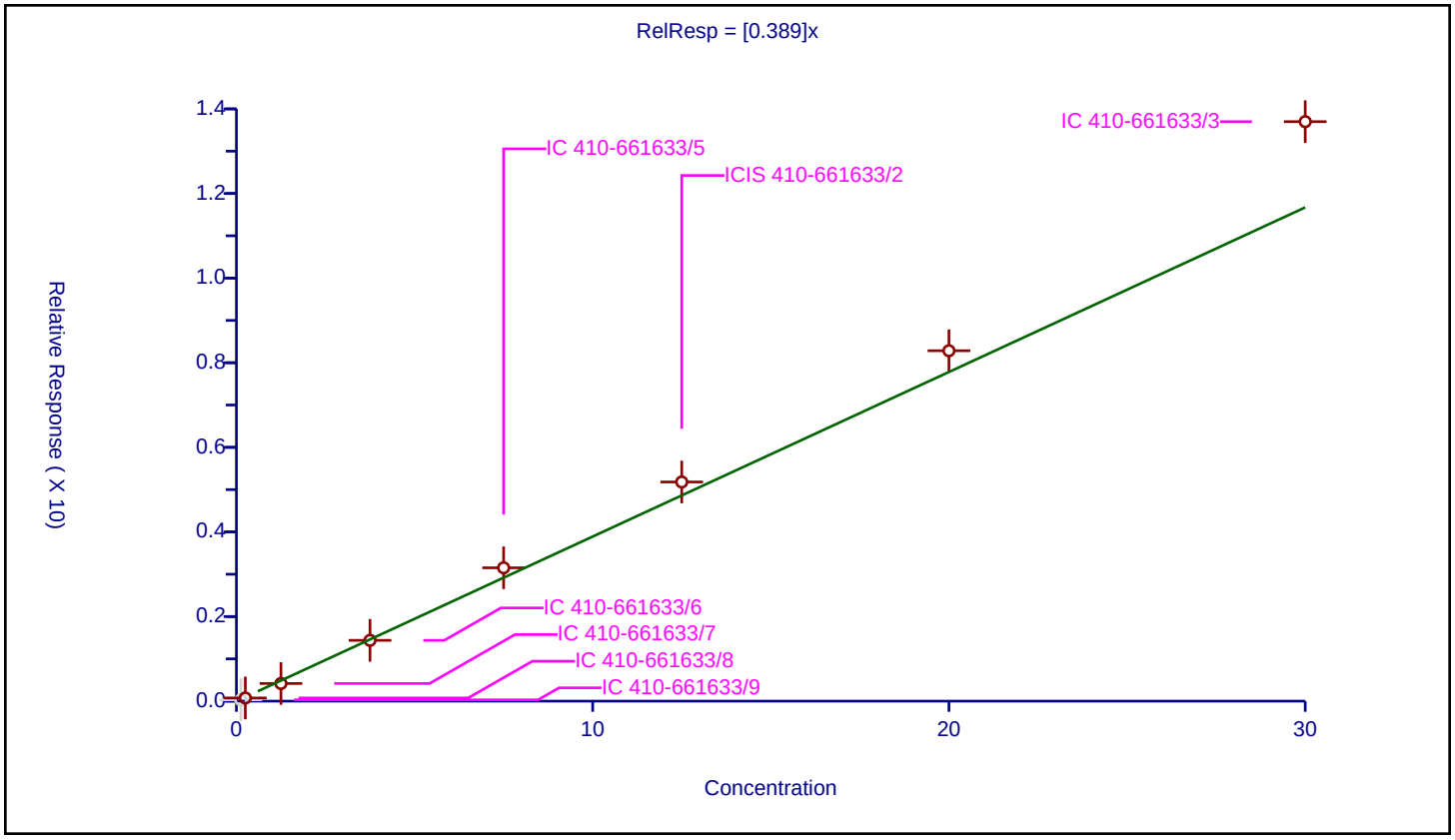
Curve Coefficients

Intercept:	0
Slope:	0.389

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.030519	5.0	502809.0	0.244148	N
2	IC 410-661633/8	0.25	0.075214	5.0	472984.0	0.300856	Y
3	IC 410-661633/7	1.25	0.417102	5.0	475519.0	0.333682	Y
4	IC 410-661633/6	3.75	1.437298	5.0	534976.0	0.383279	Y
5	IC 410-661633/5	7.5	3.151785	5.0	505071.0	0.420238	Y
6	ICIS 410-661633/2	12.5	5.180896	5.0	500342.0	0.414472	Y
7	IC 410-661633/4	20.0	8.28305	5.0	552270.0	0.414152	Y
8	IC 410-661633/3	30.0	13.698107	5.0	492767.0	0.456604	Y



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Calibration / 2-Fluorobiphenyl (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

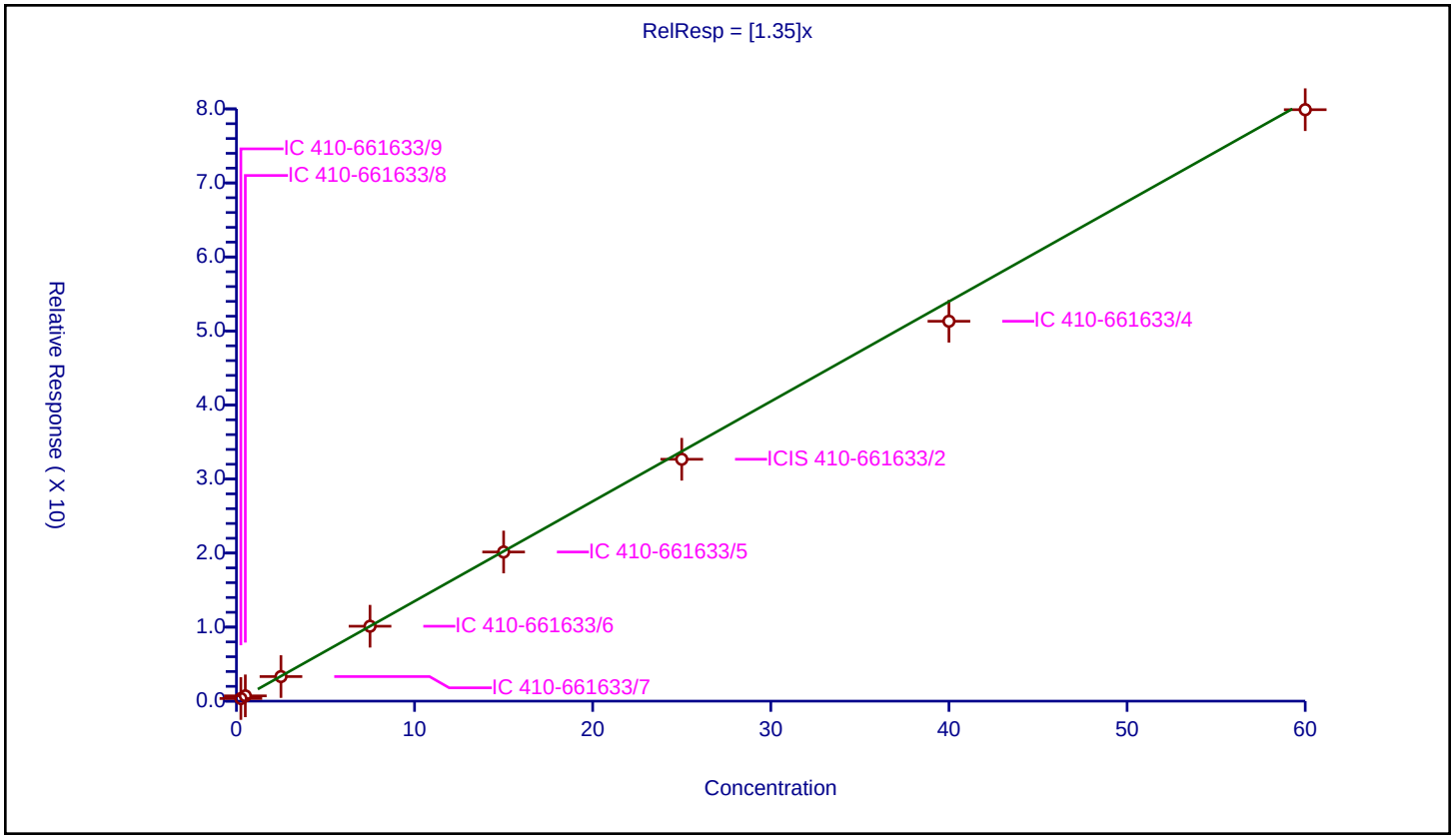
Curve Coefficients

Intercept:	0
Slope:	1.35

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.35592	5.0	502809.0	1.423682	Y
2	IC 410-661633/8	0.5	0.715775	5.0	472984.0	1.431549	Y
3	IC 410-661633/7	2.5	3.3187	5.0	475519.0	1.32748	Y
4	IC 410-661633/6	7.5	10.118716	5.0	534976.0	1.349162	Y
5	IC 410-661633/5	15.0	20.145386	5.0	505071.0	1.343026	Y
6	ICIS 410-661633/2	25.0	32.670793	5.0	500342.0	1.306832	Y
7	IC 410-661633/4	40.0	51.316928	5.0	552270.0	1.282923	Y
8	IC 410-661633/3	60.0	79.890912	5.0	492767.0	1.331515	Y



Calibration / Isosafrole Peak 2

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

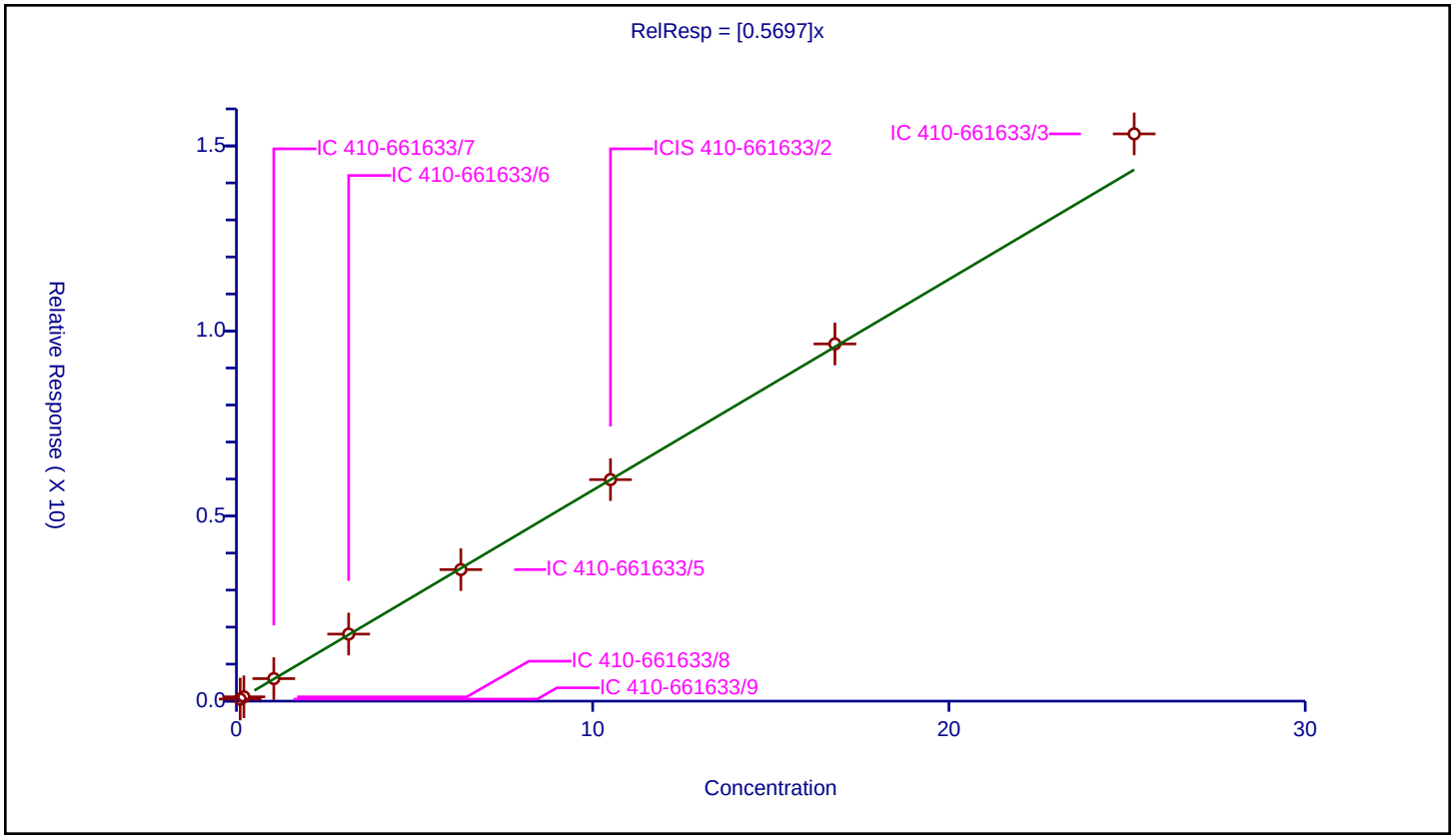
Curve Coefficients

Intercept:	0
Slope:	0.5697

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.105	0.055538	5.0	502809.0	0.528933	Y
2	IC 410-661633/8	0.21	0.117086	5.0	472984.0	0.557554	Y
3	IC 410-661633/7	1.05	0.608546	5.0	475519.0	0.579567	Y
4	IC 410-661633/6	3.15	1.811212	5.0	534976.0	0.574988	Y
5	IC 410-661633/5	6.3	3.553995	5.0	505071.0	0.564126	Y
6	ICIS 410-661633/2	10.5	5.984846	5.0	500342.0	0.569985	Y
7	IC 410-661633/4	16.8	9.651131	5.0	552270.0	0.574472	Y
8	IC 410-661633/3	25.2	15.32487	5.0	492767.0	0.60813	Y



Calibration / 1,1'-Biphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

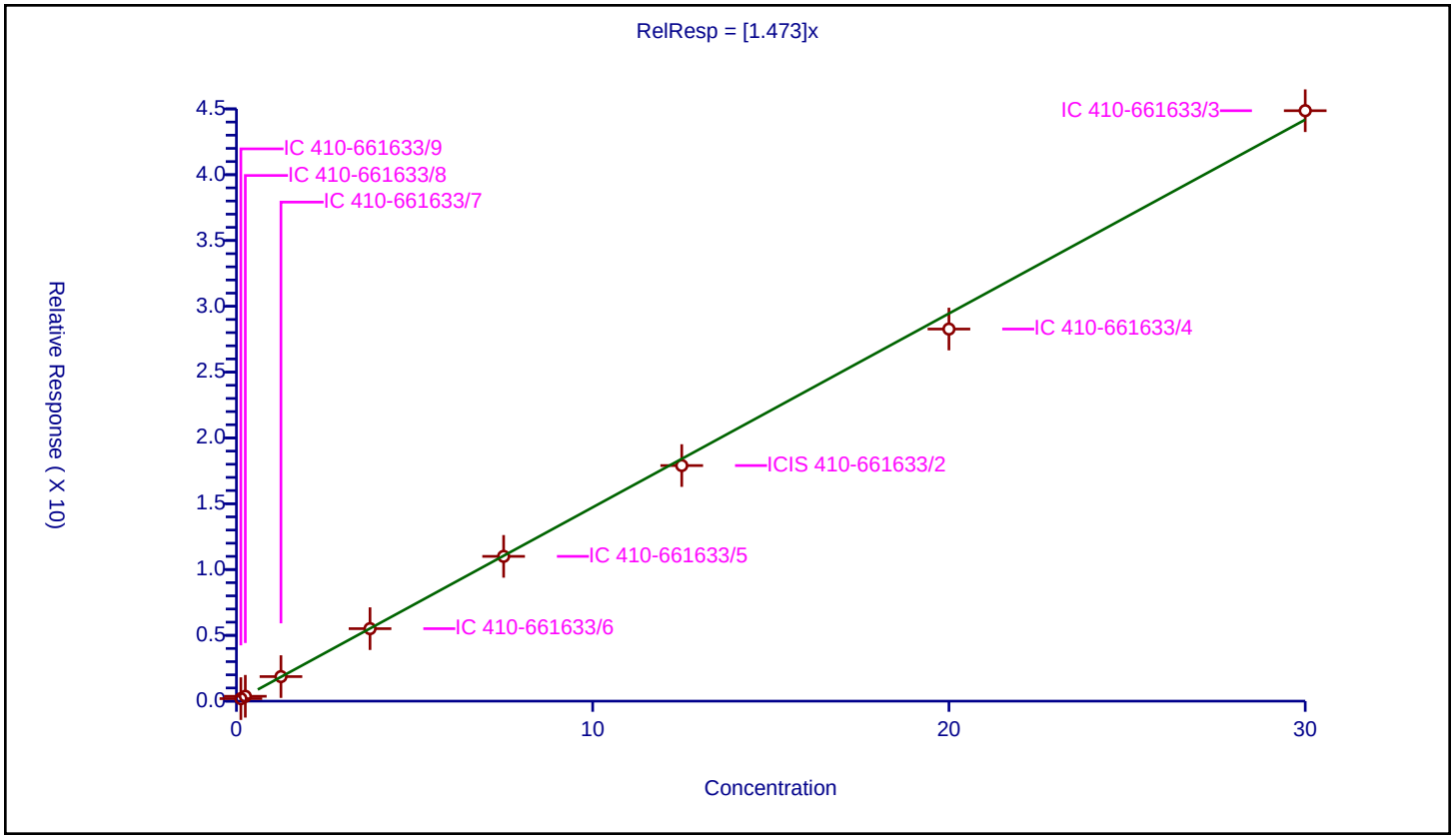
Curve Coefficients

Intercept:	0
Slope:	1.473

Error Coefficients

Relative Standard Deviation:	2.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.191862	5.0	502809.0	1.534897	Y
2	IC 410-661633/8	0.25	0.3696	5.0	472984.0	1.478401	Y
3	IC 410-661633/7	1.25	1.864226	5.0	475519.0	1.491381	Y
4	IC 410-661633/6	3.75	5.507967	5.0	534976.0	1.468791	Y
5	IC 410-661633/5	7.5	10.999998	5.0	505071.0	1.466666	Y
6	ICIS 410-661633/2	12.5	17.901206	5.0	500342.0	1.432096	Y
7	IC 410-661633/4	20.0	28.271561	5.0	552270.0	1.413578	Y
8	IC 410-661633/3	30.0	44.862978	5.0	492767.0	1.495433	Y



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Calibration / 2-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

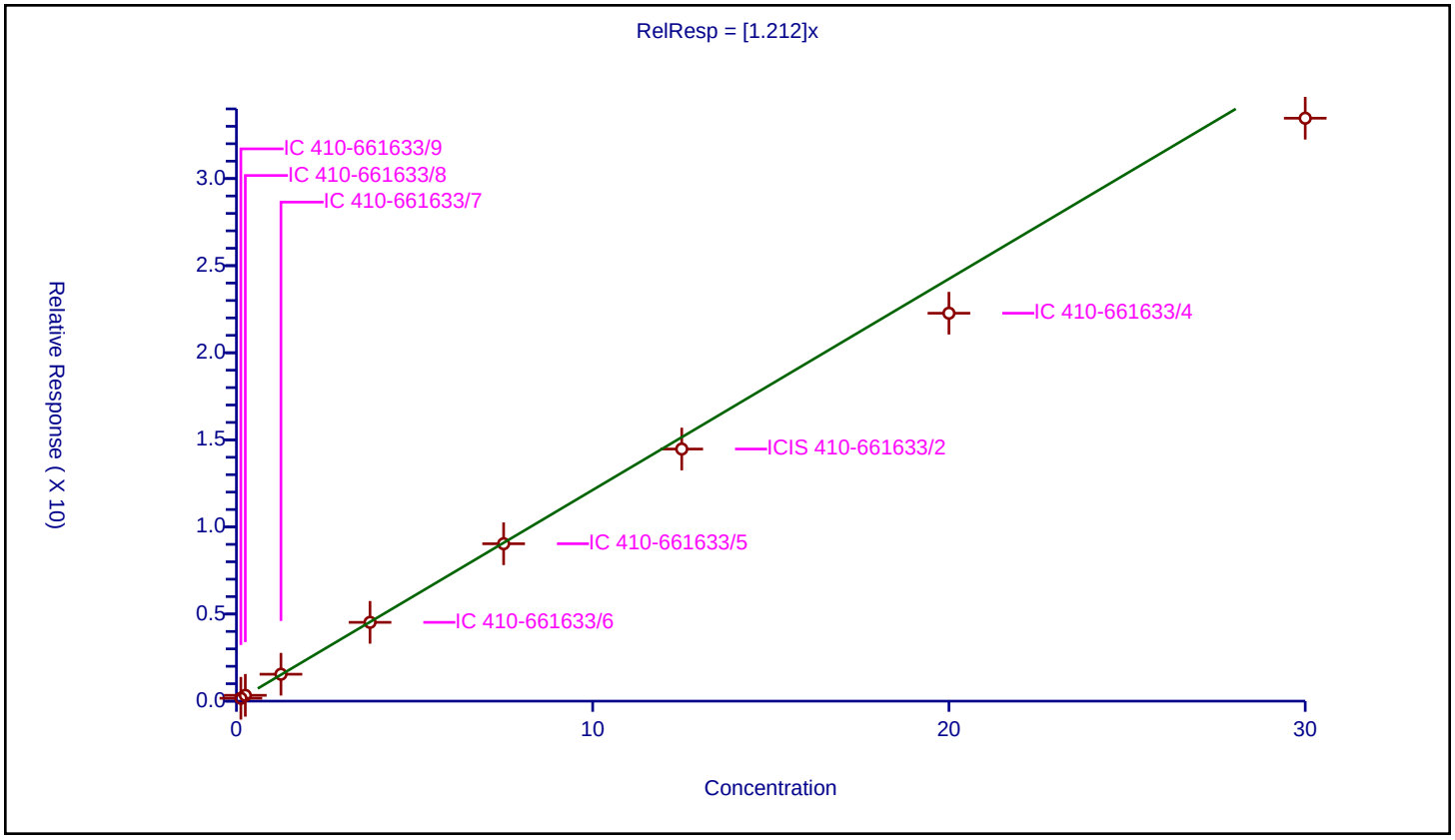
Curve Coefficients

Intercept:	0
Slope:	1.212

Error Coefficients

Relative Standard Deviation:	7.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.166186	5.0	502809.0	1.329491	Y
2	IC 410-661633/8	0.25	0.33332	5.0	472984.0	1.33328	Y
3	IC 410-661633/7	1.25	1.544838	5.0	475519.0	1.235871	Y
4	IC 410-661633/6	3.75	4.523175	5.0	534976.0	1.20618	Y
5	IC 410-661633/5	7.5	9.035898	5.0	505071.0	1.204786	Y
6	ICIS 410-661633/2	12.5	14.47333	5.0	500342.0	1.157866	Y
7	IC 410-661633/4	20.0	22.271425	5.0	552270.0	1.113571	Y
8	IC 410-661633/3	30.0	33.464345	5.0	492767.0	1.115478	Y



Calibration / 1-Chloronaphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

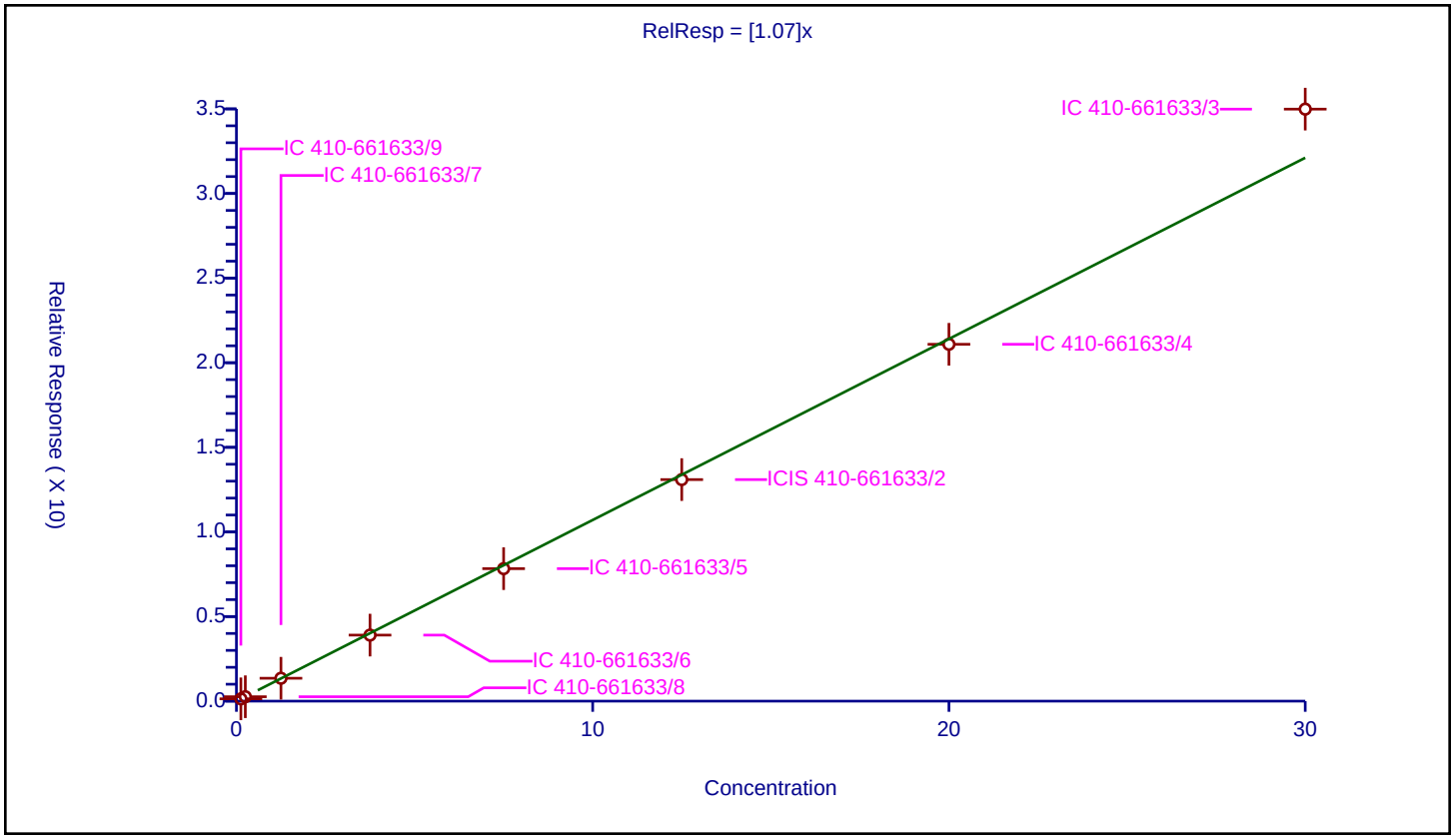
Curve Coefficients

Intercept:	0
Slope:	1.07

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.135409	5.0	502809.0	1.083274	Y
2	IC 410-661633/8	0.25	0.260918	5.0	472984.0	1.043672	Y
3	IC 410-661633/7	1.25	1.353353	5.0	475519.0	1.082682	Y
4	IC 410-661633/6	3.75	3.902811	5.0	534976.0	1.040749	Y
5	IC 410-661633/5	7.5	7.830493	5.0	505071.0	1.044066	Y
6	ICIS 410-661633/2	12.5	13.092944	5.0	500342.0	1.047436	Y
7	IC 410-661633/4	20.0	21.089467	5.0	552270.0	1.054473	Y
8	IC 410-661633/3	30.0	34.985612	5.0	492767.0	1.166187	Y



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Calibration / 2-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

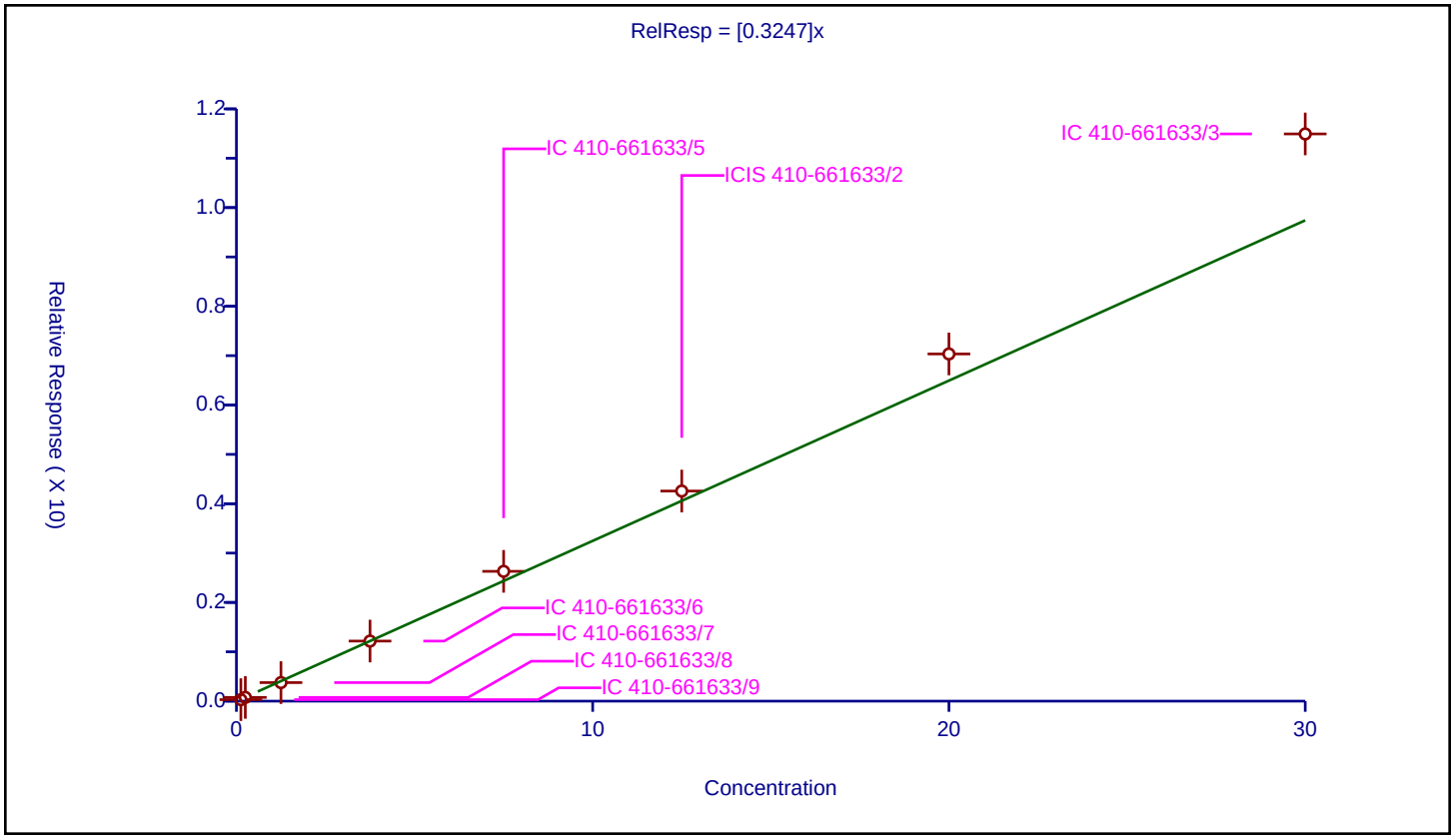
Curve Coefficients

Intercept:	0
Slope:	0.3247

Error Coefficients

Relative Standard Deviation:	13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.030528	5.0	502809.0	0.244228	Y
2	IC 410-661633/8	0.25	0.075563	5.0	472984.0	0.302251	Y
3	IC 410-661633/7	1.25	0.375842	5.0	475519.0	0.300674	Y
4	IC 410-661633/6	3.75	1.217139	5.0	534976.0	0.32457	Y
5	IC 410-661633/5	7.5	2.630036	5.0	505071.0	0.350671	Y
6	ICIS 410-661633/2	12.5	4.257148	5.0	500342.0	0.340572	Y
7	IC 410-661633/4	20.0	7.034422	5.0	552270.0	0.351721	Y
8	IC 410-661633/3	30.0	11.492734	5.0	492767.0	0.383091	Y



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Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

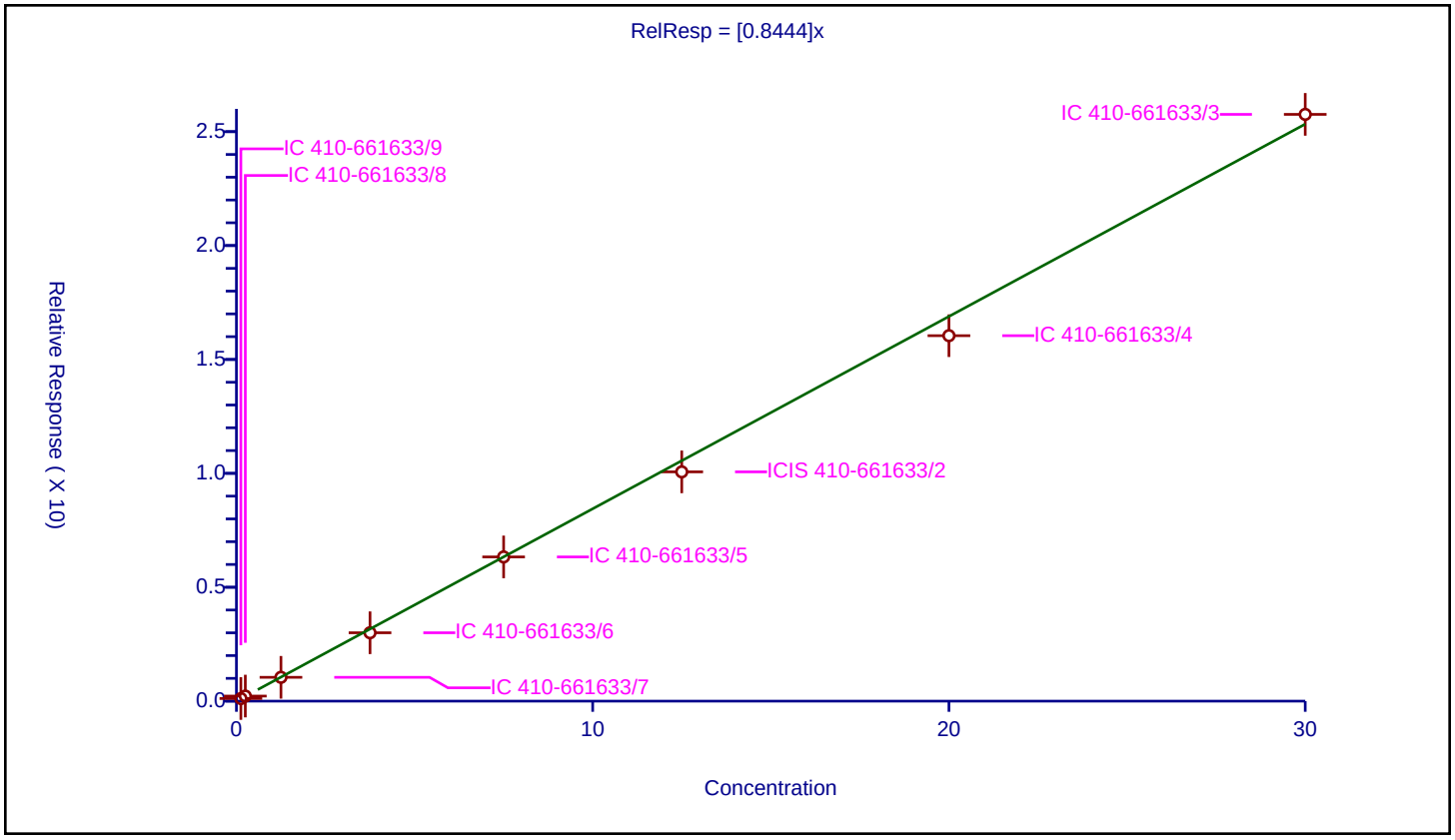
Curve Coefficients

Intercept:	0
Slope:	0.8444

Error Coefficients

Relative Standard Deviation:	5.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.114825	5.0	502809.0	0.918599	Y
2	IC 410-661633/8	0.25	0.222217	5.0	472984.0	0.888867	Y
3	IC 410-661633/7	1.25	1.046288	5.0	475519.0	0.837031	Y
4	IC 410-661633/6	3.75	3.002256	5.0	534976.0	0.800602	Y
5	IC 410-661633/5	7.5	6.330476	5.0	505071.0	0.844064	Y
6	ICIS 410-661633/2	12.5	10.065235	5.0	500342.0	0.805219	Y
7	IC 410-661633/4	20.0	16.044245	5.0	552270.0	0.802212	Y
8	IC 410-661633/3	30.0	25.758888	5.0	492767.0	0.85863	Y



Calibration / 1,4-Naphthoquinone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

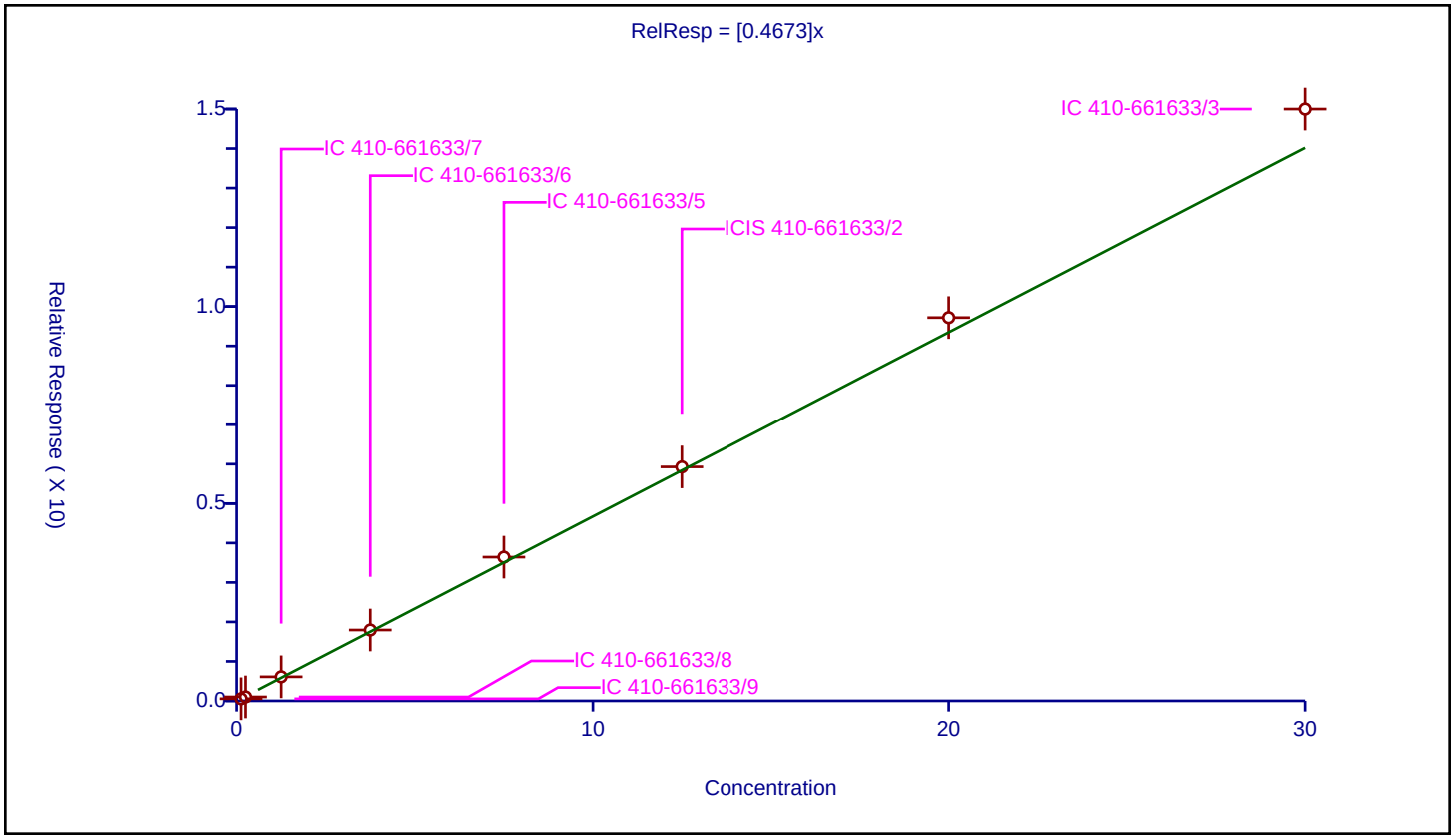
Curve Coefficients

Intercept:	0
Slope:	0.4673

Error Coefficients

Relative Standard Deviation:	7.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.053291	5.0	502809.0	0.426325	Y
2	IC 410-661633/8	0.25	0.099887	5.0	472984.0	0.399548	Y
3	IC 410-661633/7	1.25	0.609639	5.0	475519.0	0.487711	Y
4	IC 410-661633/6	3.75	1.795529	5.0	534976.0	0.478808	Y
5	IC 410-661633/5	7.5	3.642498	5.0	505071.0	0.485666	Y
6	ICIS 410-661633/2	12.5	5.929564	5.0	500342.0	0.474365	Y
7	IC 410-661633/4	20.0	9.717973	5.0	552270.0	0.485899	Y
8	IC 410-661633/3	30.0	14.99931	5.0	492767.0	0.499977	Y



Calibration / 1,4-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

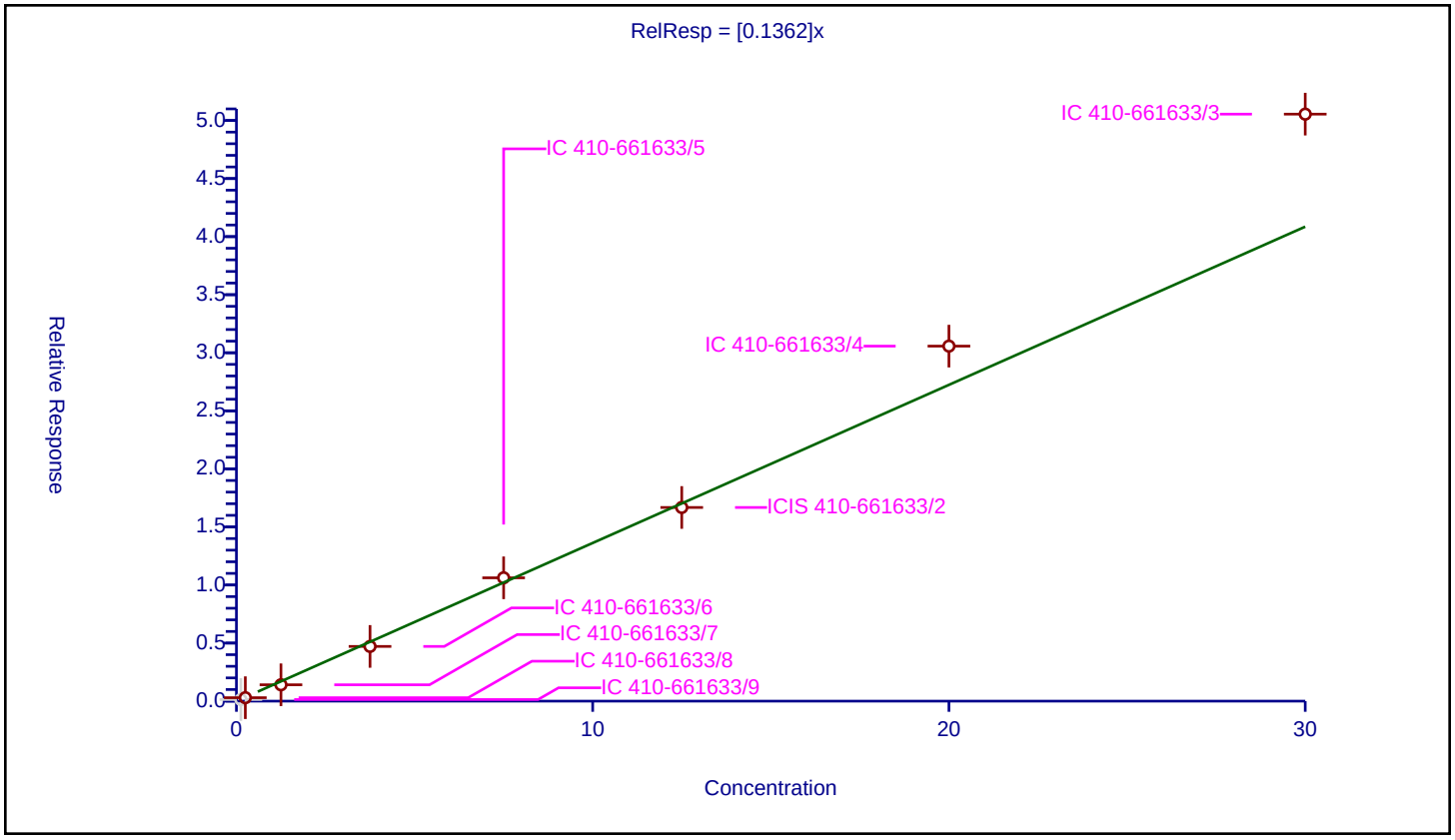
Curve Coefficients

Intercept:	0
Slope:	0.1362

Error Coefficients

Relative Standard Deviation:	14.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.013912	5.0	502809.0	0.111295	N
2	IC 410-661633/8	0.25	0.029642	5.0	472984.0	0.118566	Y
3	IC 410-661633/7	1.25	0.140846	5.0	475519.0	0.112677	Y
4	IC 410-661633/6	3.75	0.471255	5.0	534976.0	0.125668	Y
5	IC 410-661633/5	7.5	1.062128	5.0	505071.0	0.141617	Y
6	ICIS 410-661633/2	12.5	1.667699	5.0	500342.0	0.133416	Y
7	IC 410-661633/4	20.0	3.057209	5.0	552270.0	0.15286	Y
8	IC 410-661633/3	30.0	5.054752	5.0	492767.0	0.168492	Y



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Calibration / Dimethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

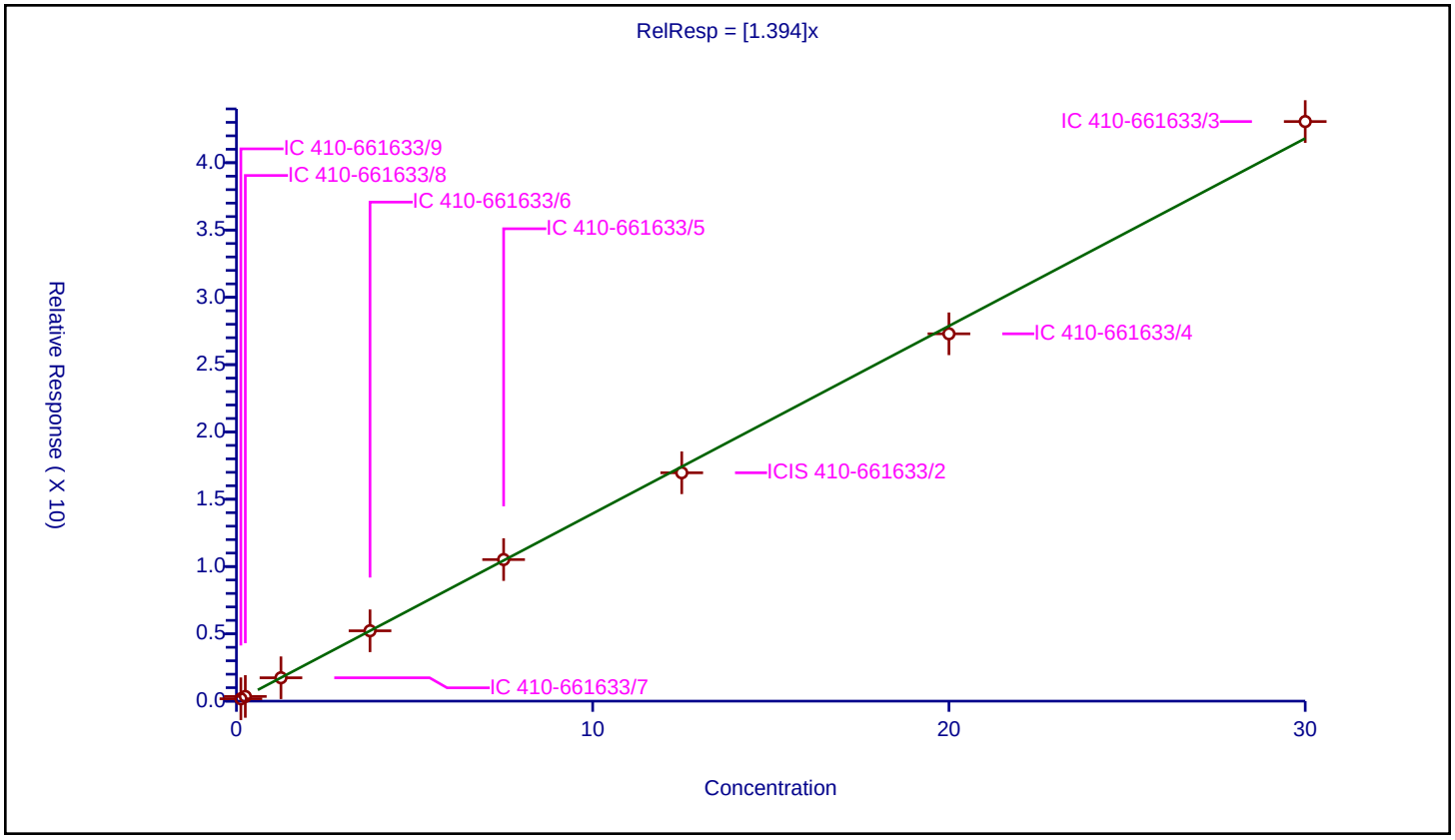
Curve Coefficients

Intercept:	0
Slope:	1.394

Error Coefficients

Relative Standard Deviation:	1.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.176111	5.0	502809.0	1.408885	Y
2	IC 410-661633/8	0.25	0.349483	5.0	472984.0	1.397933	Y
3	IC 410-661633/7	1.25	1.735777	5.0	475519.0	1.388622	Y
4	IC 410-661633/6	3.75	5.225973	5.0	534976.0	1.393593	Y
5	IC 410-661633/5	7.5	10.517353	5.0	505071.0	1.402314	Y
6	ICIS 410-661633/2	12.5	16.967344	5.0	500342.0	1.357388	Y
7	IC 410-661633/4	20.0	27.29089	5.0	552270.0	1.364545	Y
8	IC 410-661633/3	30.0	43.059955	5.0	492767.0	1.435332	Y



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Calibration / 1,3-Dinitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

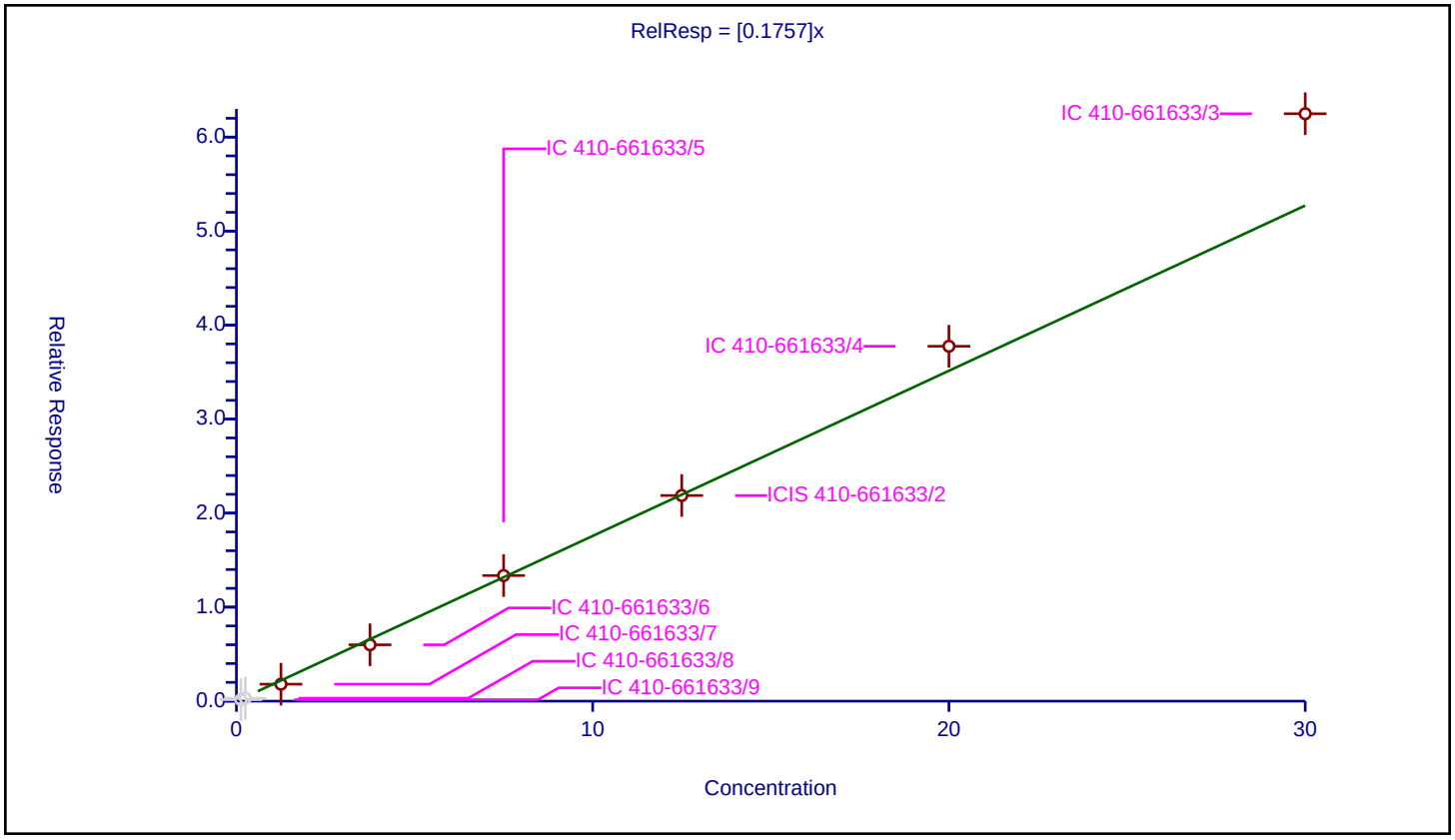
Curve Coefficients

Intercept:	0
Slope:	0.1757

Error Coefficients

Relative Standard Deviation:	12.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.015632	5.0	502809.0	0.125057	N
2	IC 410-661633/8	0.25	0.031079	5.0	472984.0	0.124317	N
3	IC 410-661633/7	1.25	0.180382	5.0	475519.0	0.144305	Y
4	IC 410-661633/6	3.75	0.599457	5.0	534976.0	0.159855	Y
5	IC 410-661633/5	7.5	1.335842	5.0	505071.0	0.178112	Y
6	ICIS 410-661633/2	12.5	2.187294	5.0	500342.0	0.174984	Y
7	IC 410-661633/4	20.0	3.775047	5.0	552270.0	0.188752	Y
8	IC 410-661633/3	30.0	6.24844	5.0	492767.0	0.208281	Y



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Calibration / 2,6-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

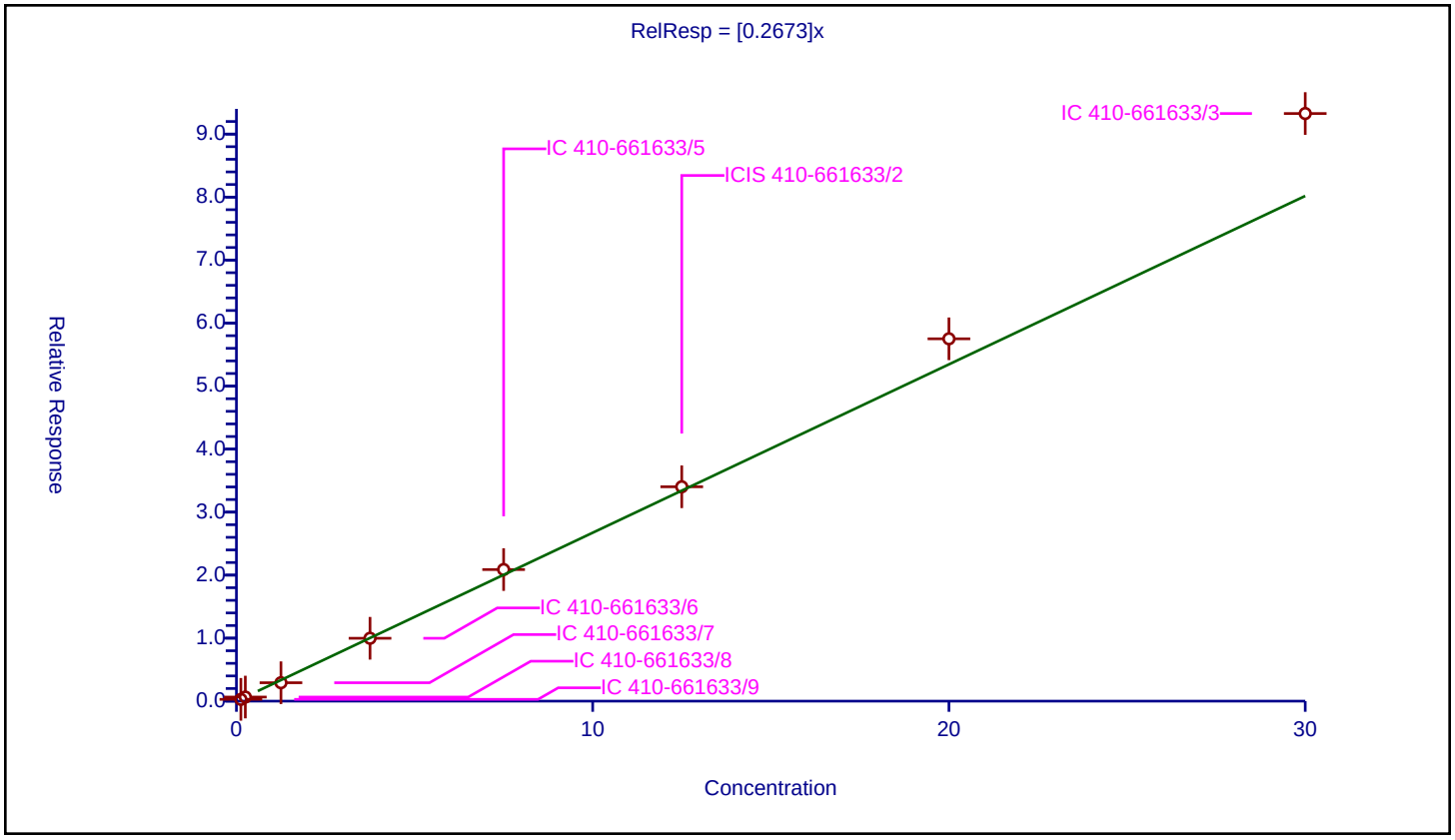
Curve Coefficients

Intercept:	0
Slope:	0.2673

Error Coefficients

Relative Standard Deviation:	10.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.028599	5.0	502809.0	0.228795	Y
2	IC 410-661633/8	0.25	0.065066	5.0	472984.0	0.260263	Y
3	IC 410-661633/7	1.25	0.292428	5.0	475519.0	0.233942	Y
4	IC 410-661633/6	3.75	0.99797	5.0	534976.0	0.266125	Y
5	IC 410-661633/5	7.5	2.088498	5.0	505071.0	0.278466	Y
6	ICIS 410-661633/2	12.5	3.402203	5.0	500342.0	0.272176	Y
7	IC 410-661633/4	20.0	5.7511	5.0	552270.0	0.287555	Y
8	IC 410-661633/3	30.0	9.326517	5.0	492767.0	0.310884	Y



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Calibration / Acenaphthylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

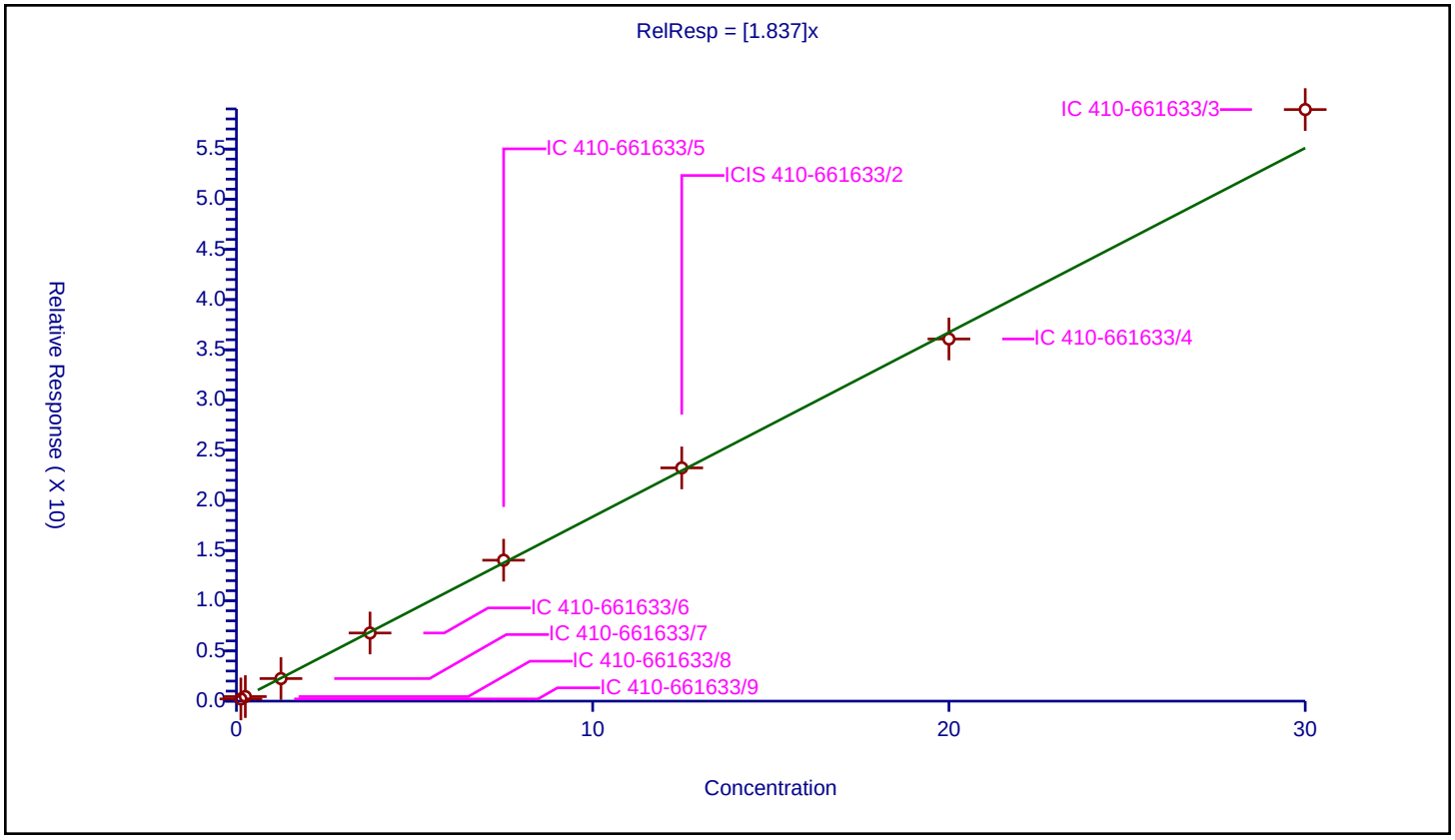
Curve Coefficients

Intercept:	0
Slope:	1.837

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.220183	5.0	502809.0	1.761464	Y
2	IC 410-661633/8	0.25	0.456009	5.0	472984.0	1.824036	Y
3	IC 410-661633/7	1.25	2.249258	5.0	475519.0	1.799407	Y
4	IC 410-661633/6	3.75	6.787146	5.0	534976.0	1.809905	Y
5	IC 410-661633/5	7.5	14.039947	5.0	505071.0	1.871993	Y
6	ICIS 410-661633/2	12.5	23.236806	5.0	500342.0	1.858944	Y
7	IC 410-661633/4	20.0	36.078748	5.0	552270.0	1.803937	Y
8	IC 410-661633/3	30.0	58.934557	5.0	492767.0	1.964485	Y



Calibration / 3-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

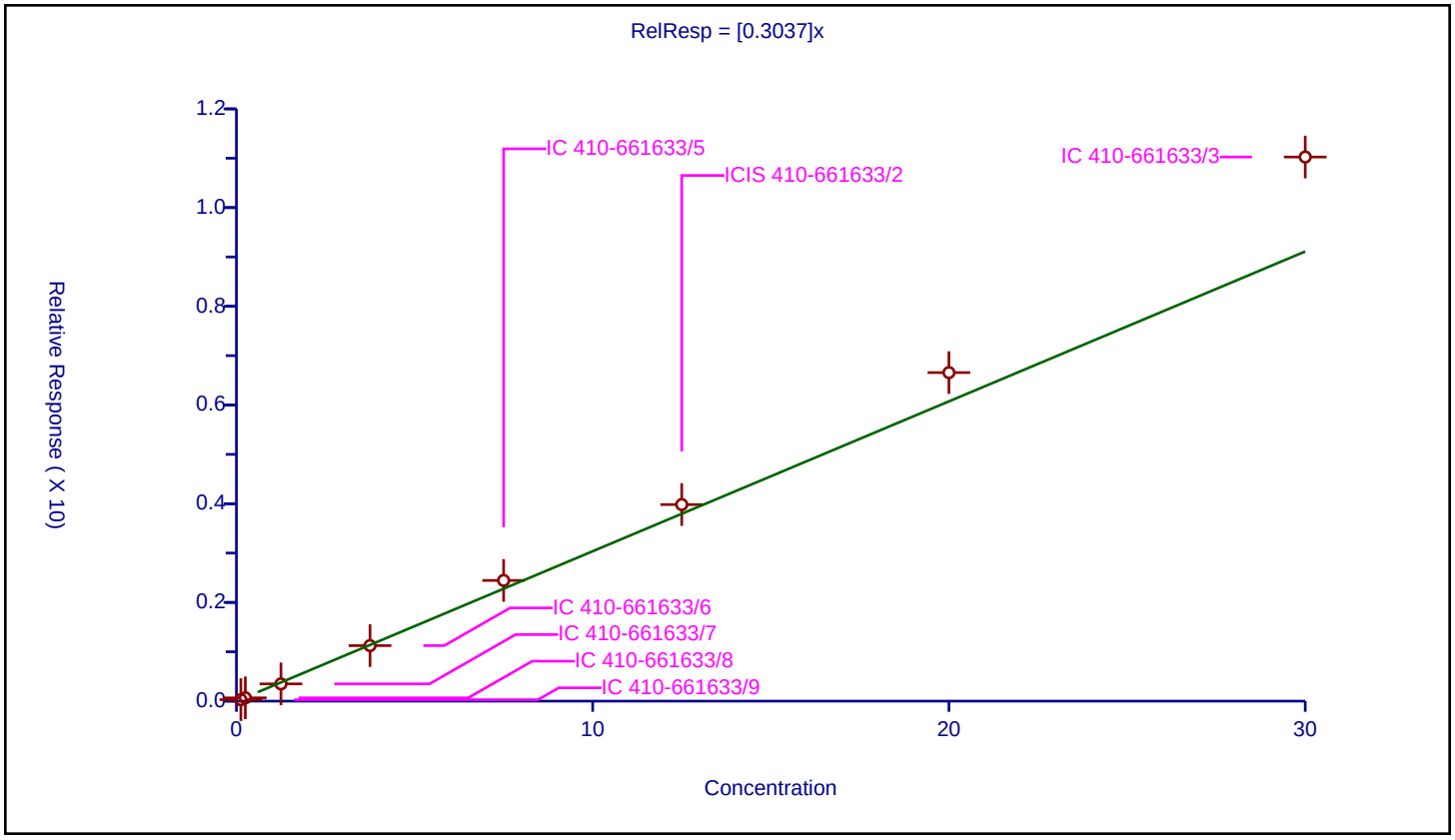
Curve Coefficients

Intercept:	0
Slope:	0.3037

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.029773	5.0	502809.0	0.238182	Y
2	IC 410-661633/8	0.25	0.066725	5.0	472984.0	0.266901	Y
3	IC 410-661633/7	1.25	0.349376	5.0	475519.0	0.279501	Y
4	IC 410-661633/6	3.75	1.124686	5.0	534976.0	0.299916	Y
5	IC 410-661633/5	7.5	2.445518	5.0	505071.0	0.326069	Y
6	ICIS 410-661633/2	12.5	3.983006	5.0	500342.0	0.31864	Y
7	IC 410-661633/4	20.0	6.657034	5.0	552270.0	0.332852	Y
8	IC 410-661633/3	30.0	11.024987	5.0	492767.0	0.3675	Y



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Calibration / Acenaphthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

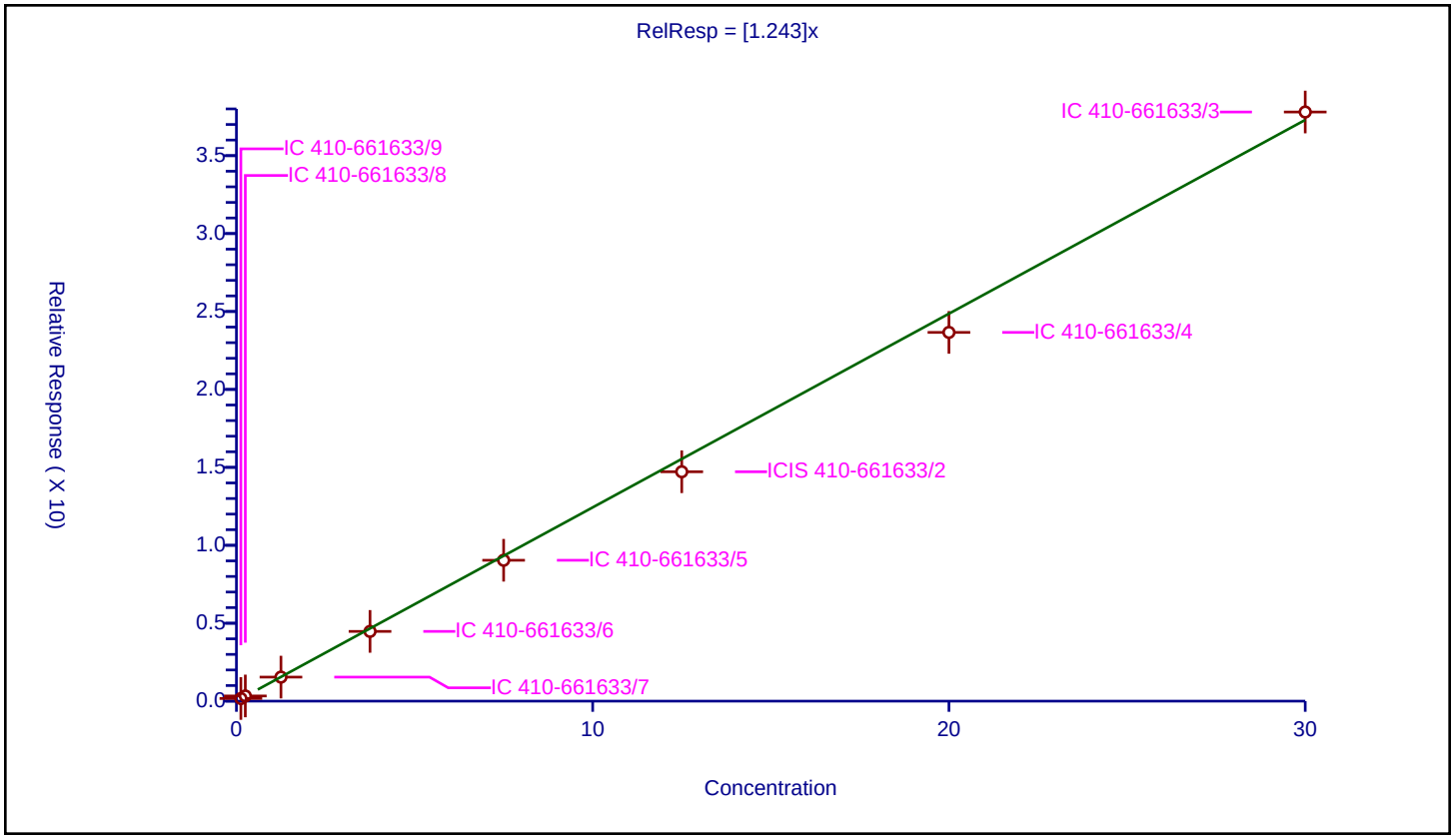
Curve Coefficients

Intercept:	0
Slope:	1.243

Error Coefficients

Relative Standard Deviation:	5.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.170492	5.0	502809.0	1.363937	Y
2	IC 410-661633/8	0.25	0.332041	5.0	472984.0	1.328163	Y
3	IC 410-661633/7	1.25	1.541737	5.0	475519.0	1.233389	Y
4	IC 410-661633/6	3.75	4.474275	5.0	534976.0	1.19314	Y
5	IC 410-661633/5	7.5	9.039333	5.0	505071.0	1.205244	Y
6	ICIS 410-661633/2	12.5	14.718632	5.0	500342.0	1.177491	Y
7	IC 410-661633/4	20.0	23.658356	5.0	552270.0	1.182918	Y
8	IC 410-661633/3	30.0	37.800644	5.0	492767.0	1.260021	Y



Calibration / 2,4-Dinitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

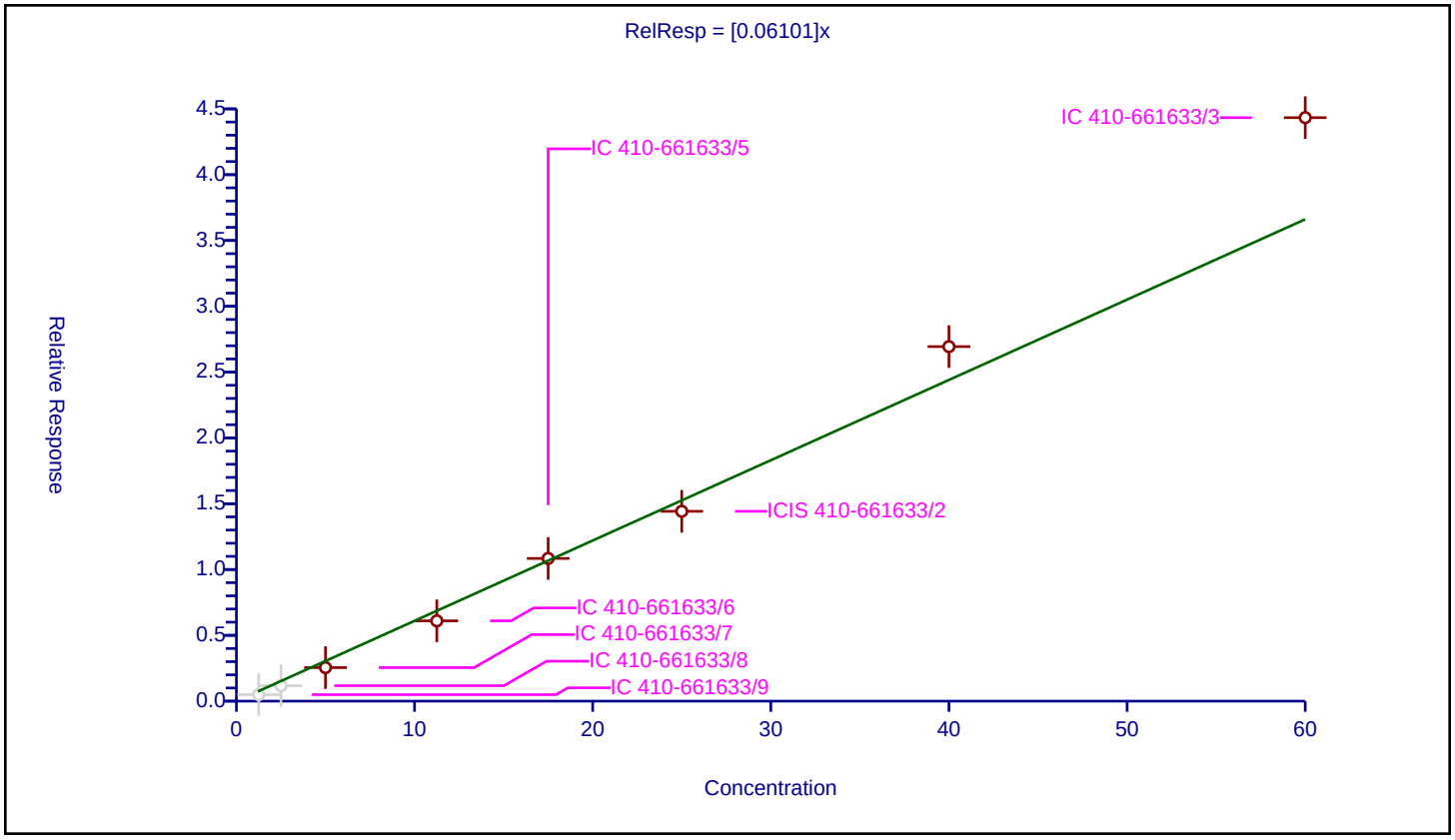
Curve Coefficients

Intercept:	0
Slope:	0.06101

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	1.25	0.049253	5.0	502809.0	0.039403	N
2	IC 410-661633/8	2.5	0.117456	5.0	472984.0	0.046983	N
3	IC 410-661633/7	5.0	0.254837	5.0	475519.0	0.050967	Y
4	IC 410-661633/6	11.25	0.610083	5.0	534976.0	0.05423	Y
5	IC 410-661633/5	17.5	1.084283	5.0	505071.0	0.061959	Y
6	ICIS 410-661633/2	25.0	1.442413	5.0	500342.0	0.057697	Y
7	IC 410-661633/4	40.0	2.693746	5.0	552270.0	0.067344	Y
8	IC 410-661633/3	60.0	4.433343	5.0	492767.0	0.073889	Y



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Calibration / 4-Nitrophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

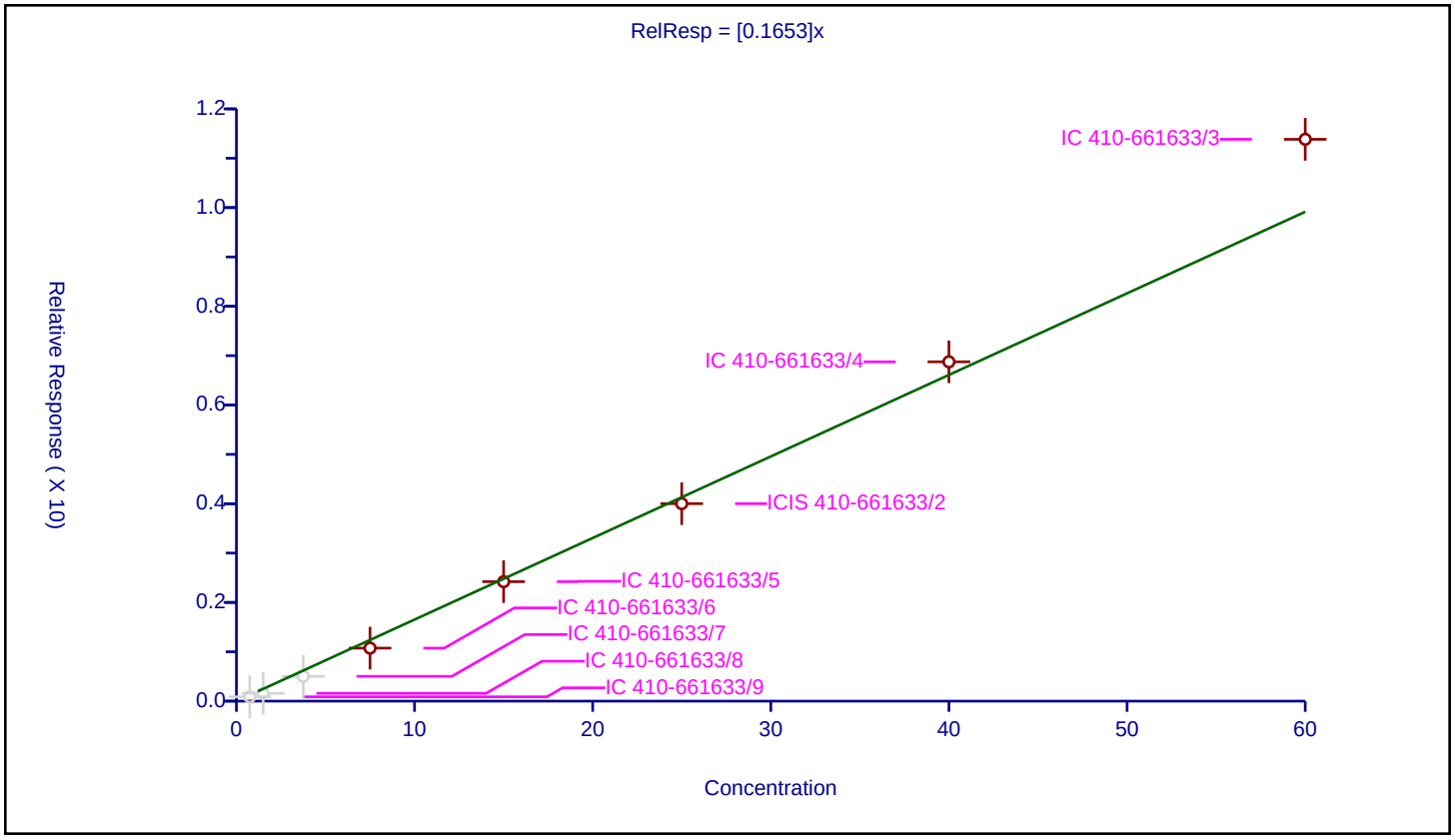
Curve Coefficients

Intercept:	0
Slope:	0.1653

Error Coefficients

Relative Standard Deviation:	10.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.75	0.087677	5.0	502809.0	0.116903	N
2	IC 410-661633/8	1.5	0.158081	5.0	472984.0	0.105388	N
3	IC 410-661633/7	3.75	0.50203	5.0	475519.0	0.133875	N
4	IC 410-661633/6	7.5	1.074226	5.0	534976.0	0.14323	Y
5	IC 410-661633/5	15.0	2.420521	5.0	505071.0	0.161368	Y
6	ICIS 410-661633/2	25.0	4.001393	5.0	500342.0	0.160056	Y
7	IC 410-661633/4	40.0	6.875278	5.0	552270.0	0.171882	Y
8	IC 410-661633/3	60.0	11.383707	5.0	492767.0	0.189728	Y



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Calibration / Pentachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

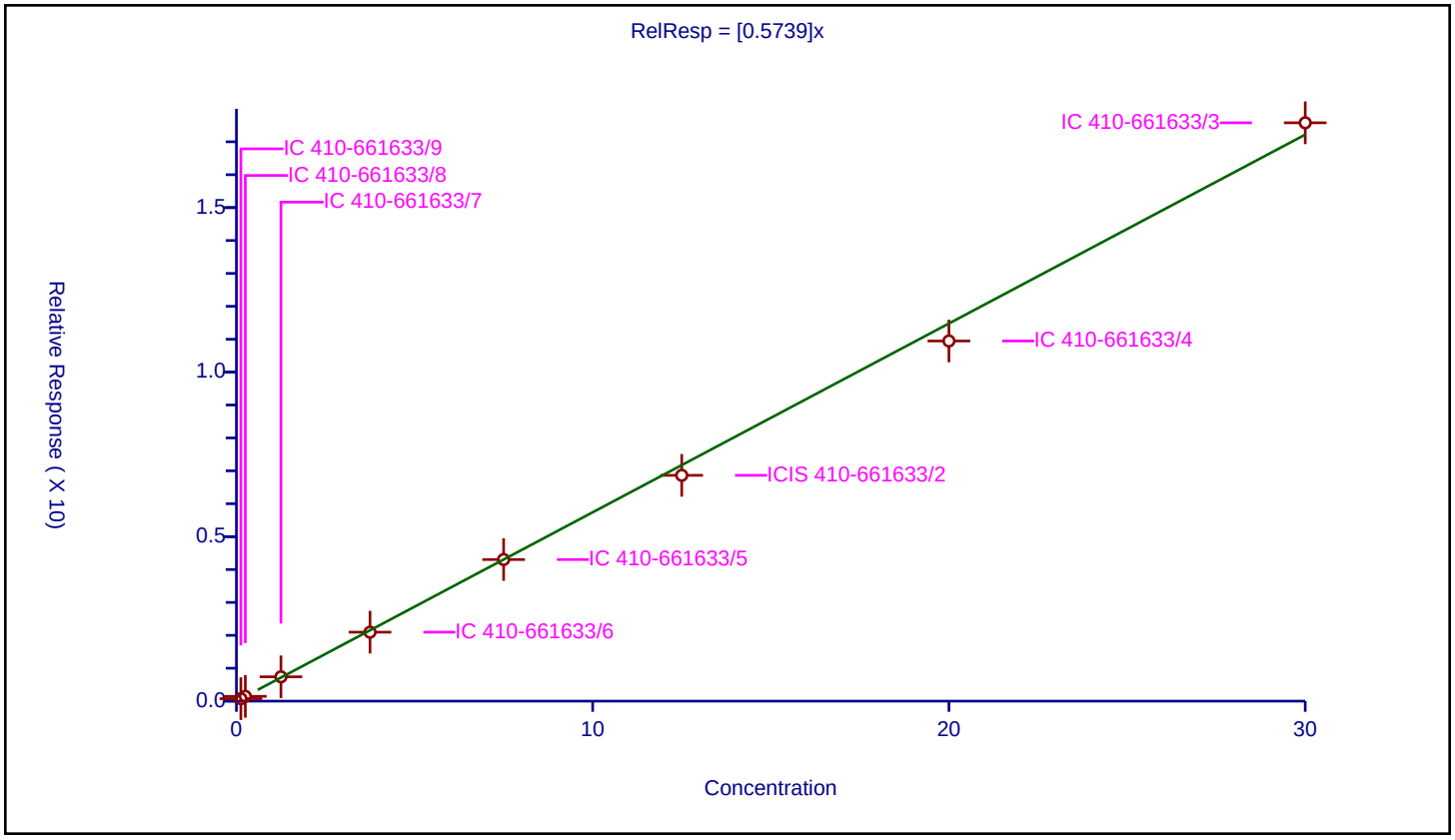
Curve Coefficients

Intercept:	0
Slope:	0.5739

Error Coefficients

Relative Standard Deviation:	3.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.074959	5.0	502809.0	0.599671	Y
2	IC 410-661633/8	0.25	0.146252	5.0	472984.0	0.585009	Y
3	IC 410-661633/7	1.25	0.739476	5.0	475519.0	0.591581	Y
4	IC 410-661633/6	3.75	2.096346	5.0	534976.0	0.559026	Y
5	IC 410-661633/5	7.5	4.303722	5.0	505071.0	0.57383	Y
6	ICIS 410-661633/2	12.5	6.862906	5.0	500342.0	0.549032	Y
7	IC 410-661633/4	20.0	10.946312	5.0	552270.0	0.547316	Y
8	IC 410-661633/3	30.0	17.577506	5.0	492767.0	0.585917	Y



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Calibration / 2,4-Dinitrotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

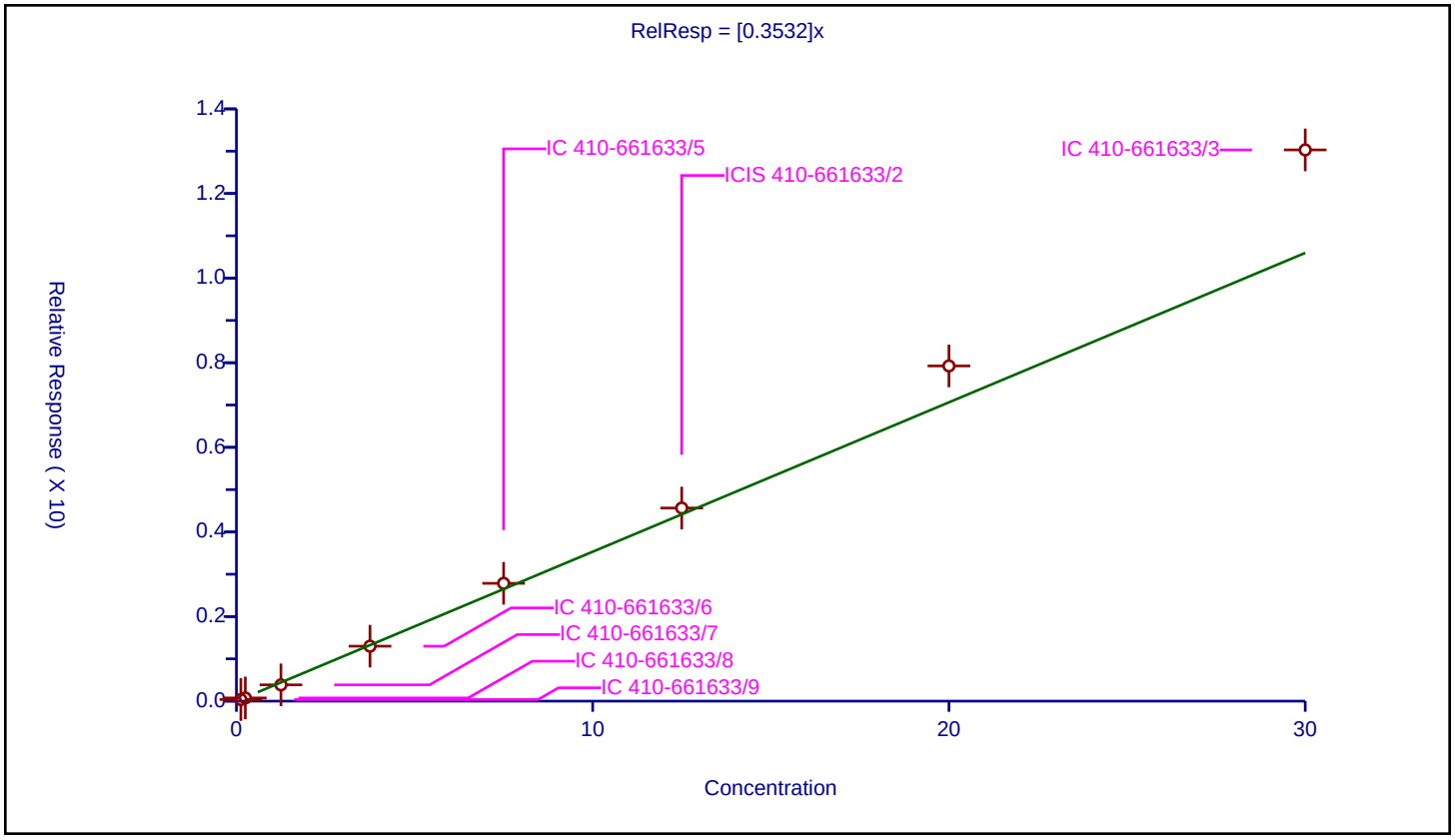
Curve Coefficients

Intercept:	0
Slope:	0.3532

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.037688	5.0	502809.0	0.301506	Y
2	IC 410-661633/8	0.25	0.075542	5.0	472984.0	0.302167	Y
3	IC 410-661633/7	1.25	0.385116	5.0	475519.0	0.308093	Y
4	IC 410-661633/6	3.75	1.29947	5.0	534976.0	0.346525	Y
5	IC 410-661633/5	7.5	2.785123	5.0	505071.0	0.37135	Y
6	ICIS 410-661633/2	12.5	4.564658	5.0	500342.0	0.365173	Y
7	IC 410-661633/4	20.0	7.923814	5.0	552270.0	0.396191	Y
8	IC 410-661633/3	30.0	13.030225	5.0	492767.0	0.434341	Y



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Calibration / Dibenzofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

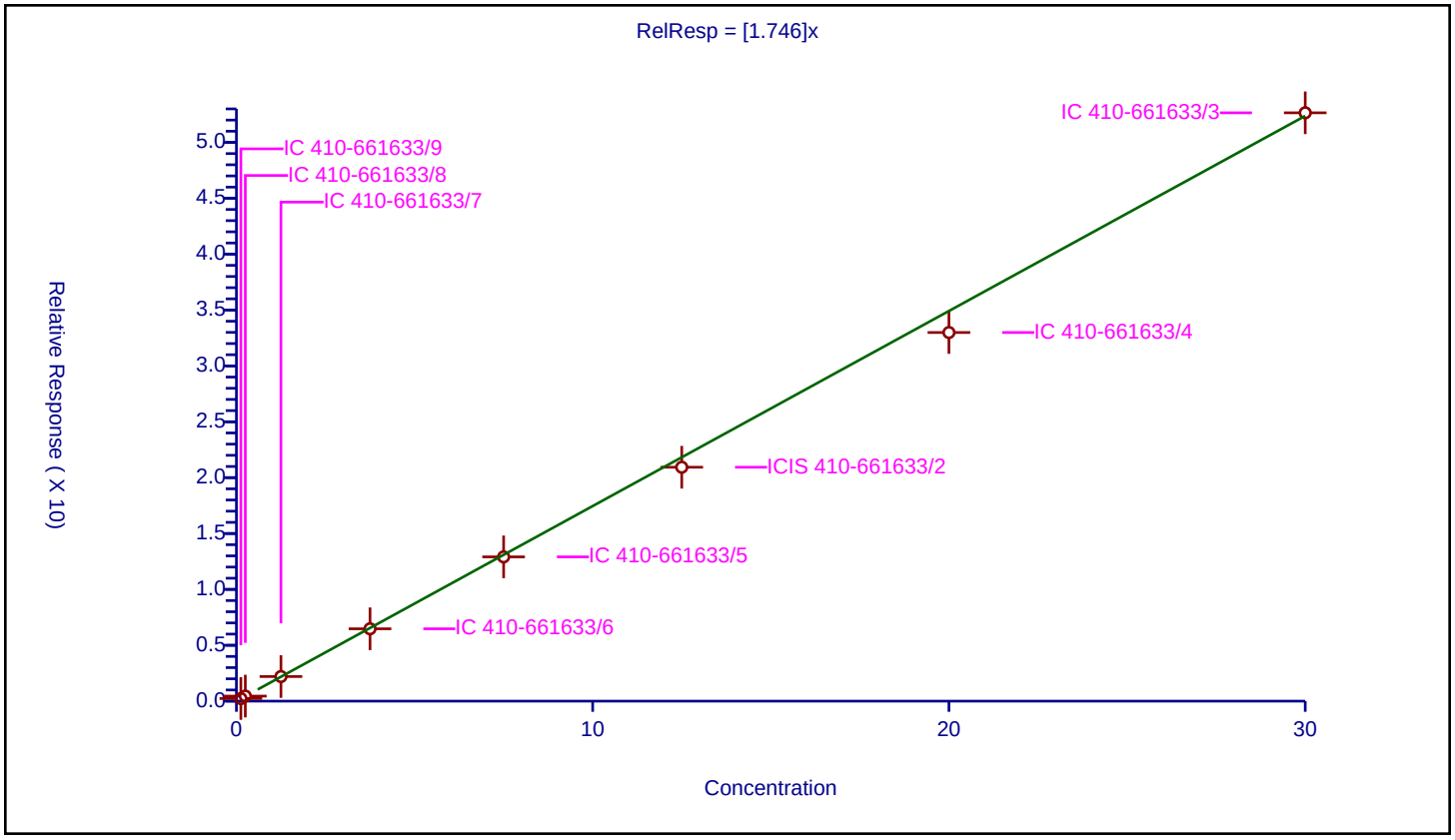
Curve Coefficients

Intercept:	0
Slope:	1.746

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.233667	5.0	502809.0	1.869338	Y
2	IC 410-661633/8	0.25	0.451971	5.0	472984.0	1.807884	Y
3	IC 410-661633/7	1.25	2.202257	5.0	475519.0	1.761806	Y
4	IC 410-661633/6	3.75	6.474655	5.0	534976.0	1.726575	Y
5	IC 410-661633/5	7.5	12.910571	5.0	505071.0	1.721409	Y
6	ICIS 410-661633/2	12.5	20.932862	5.0	500342.0	1.674629	Y
7	IC 410-661633/4	20.0	32.98814	5.0	552270.0	1.649407	Y
8	IC 410-661633/3	30.0	52.649508	5.0	492767.0	1.754984	Y



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Calibration / 1-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

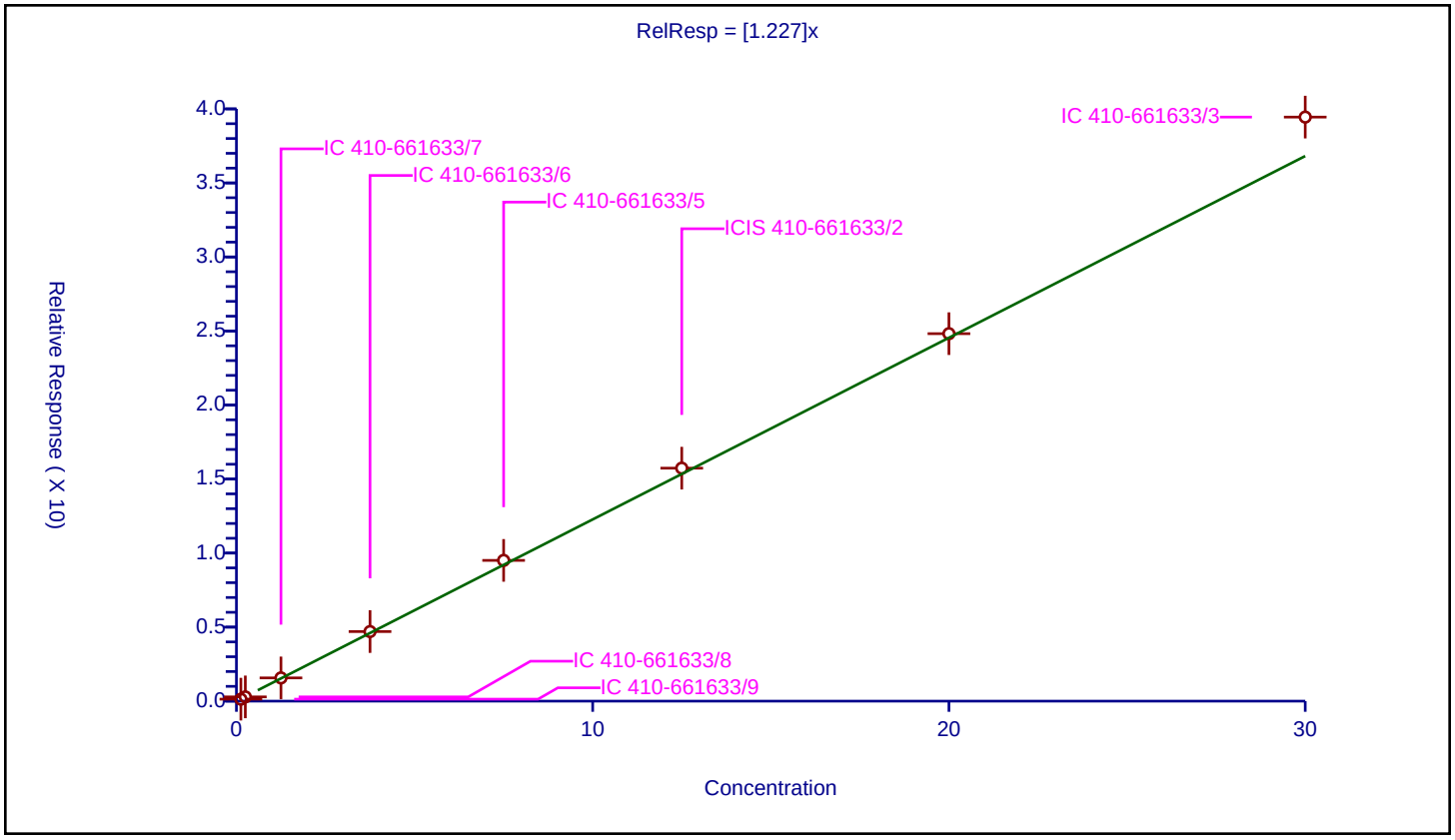
Curve Coefficients

Intercept:	0
Slope:	1.227

Error Coefficients

Relative Standard Deviation:	6.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.134484	5.0	502809.0	1.075876	Y
2	IC 410-661633/8	0.25	0.287684	5.0	472984.0	1.150737	Y
3	IC 410-661633/7	1.25	1.569212	5.0	475519.0	1.255369	Y
4	IC 410-661633/6	3.75	4.699706	5.0	534976.0	1.253255	Y
5	IC 410-661633/5	7.5	9.505713	5.0	505071.0	1.267428	Y
6	ICIS 410-661633/2	12.5	15.734897	5.0	500342.0	1.258792	Y
7	IC 410-661633/4	20.0	24.819382	5.0	552270.0	1.240969	Y
8	IC 410-661633/3	30.0	39.446412	5.0	492767.0	1.31488	Y



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Calibration / 2,3,4,6-Tetrachlorophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

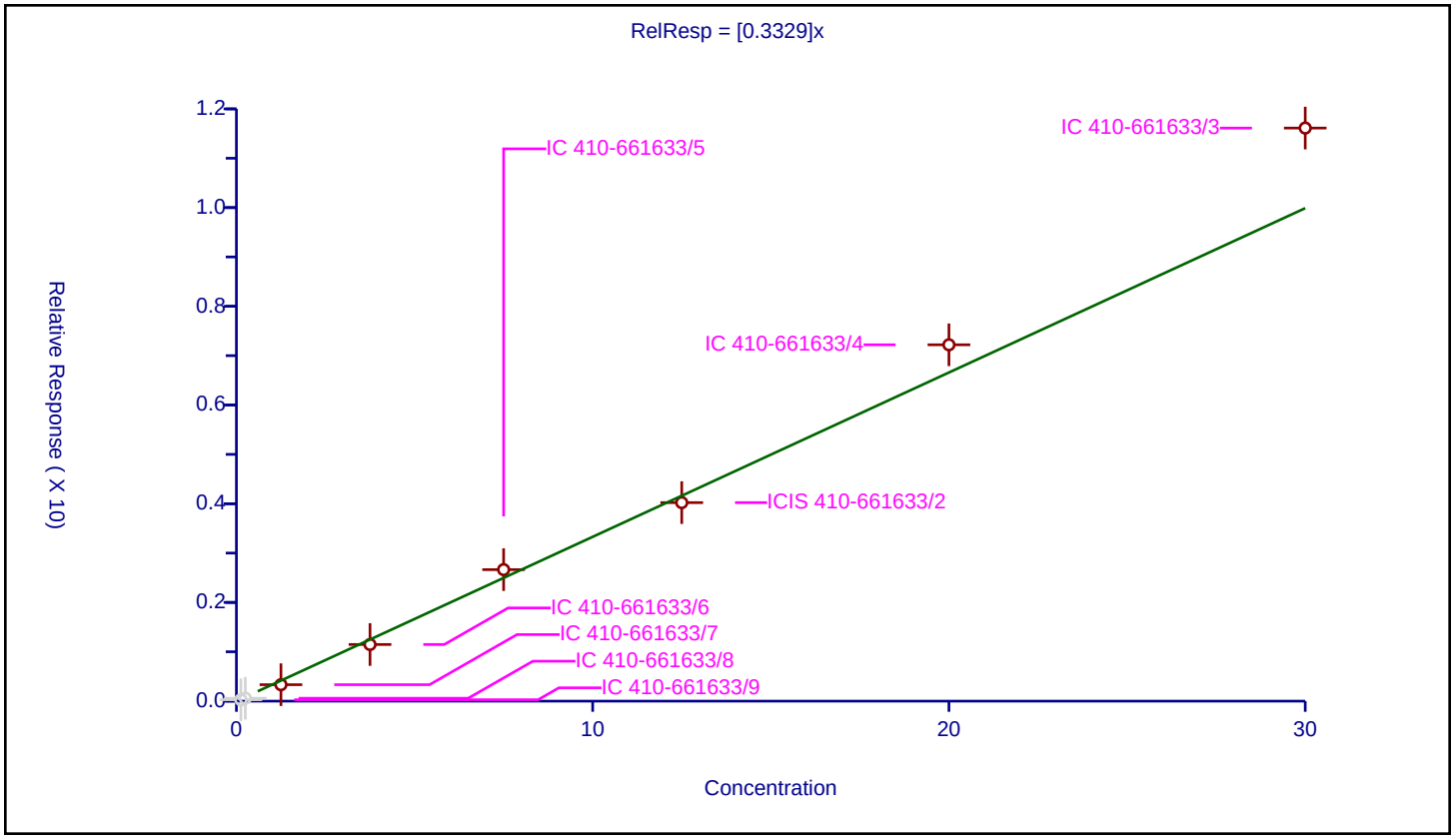
Curve Coefficients

Intercept:	0
Slope:	0.3329

Error Coefficients

Relative Standard Deviation:	13.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.028361	5.0	502809.0	0.226885	N
2	IC 410-661633/8	0.25	0.058744	5.0	472984.0	0.234976	N
3	IC 410-661633/7	1.25	0.333183	5.0	475519.0	0.266547	Y
4	IC 410-661633/6	3.75	1.147397	5.0	534976.0	0.305973	Y
5	IC 410-661633/5	7.5	2.664417	5.0	505071.0	0.355256	Y
6	ICIS 410-661633/2	12.5	4.022109	5.0	500342.0	0.321769	Y
7	IC 410-661633/4	20.0	7.220255	5.0	552270.0	0.361013	Y
8	IC 410-661633/3	30.0	11.611603	5.0	492767.0	0.387053	Y



Calibration / 2-Naphthylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

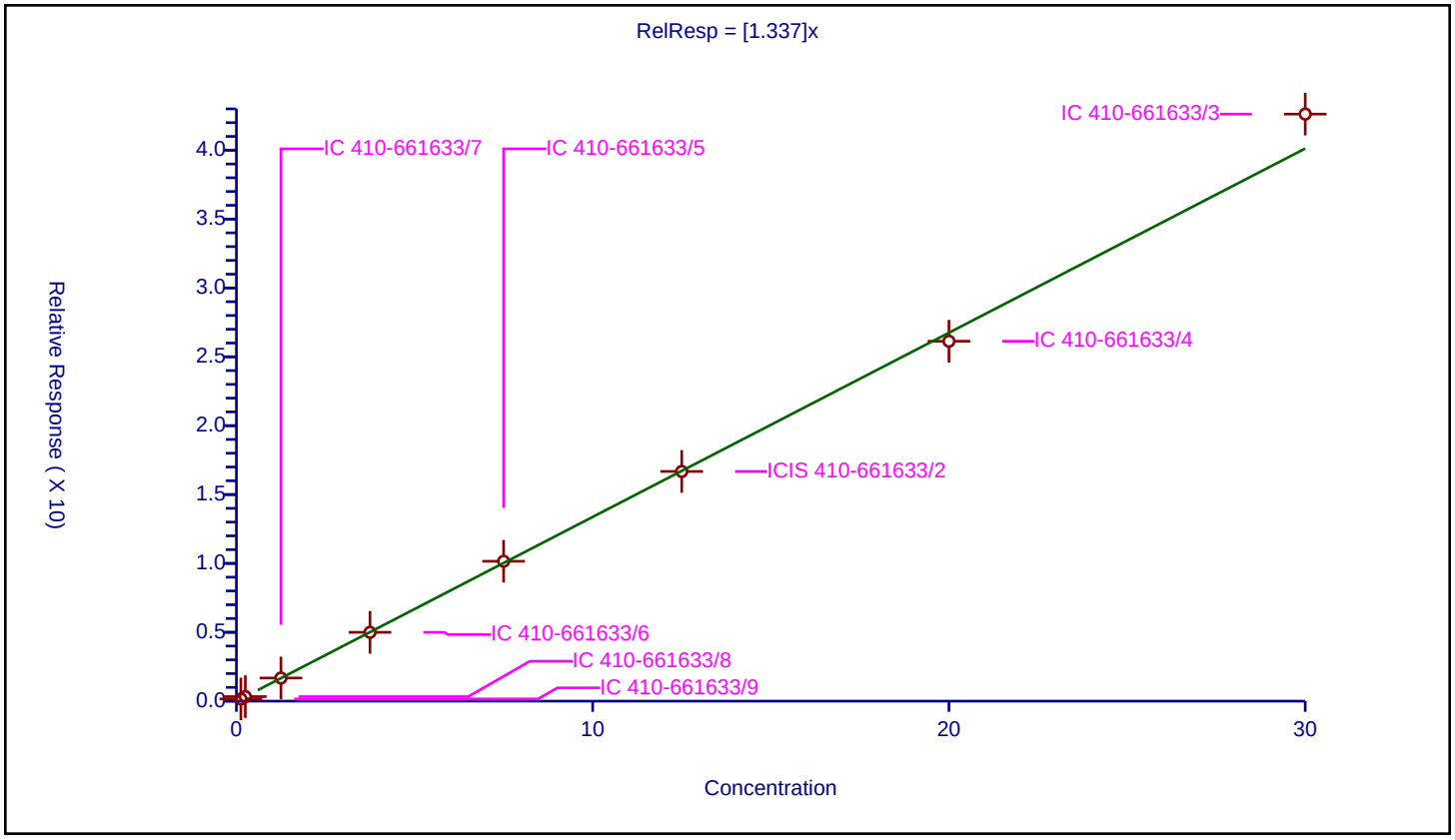
Curve Coefficients

Intercept:	0
Slope:	1.337

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.160558	5.0	502809.0	1.284464	Y
2	IC 410-661633/8	0.25	0.330445	5.0	472984.0	1.321778	Y
3	IC 410-661633/7	1.25	1.680396	5.0	475519.0	1.344316	Y
4	IC 410-661633/6	3.75	4.997645	5.0	534976.0	1.332705	Y
5	IC 410-661633/5	7.5	10.156602	5.0	505071.0	1.354214	Y
6	ICIS 410-661633/2	12.5	16.678282	5.0	500342.0	1.334263	Y
7	IC 410-661633/4	20.0	26.131231	5.0	552270.0	1.306562	Y
8	IC 410-661633/3	30.0	42.621076	5.0	492767.0	1.420703	Y



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Calibration / Diethyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

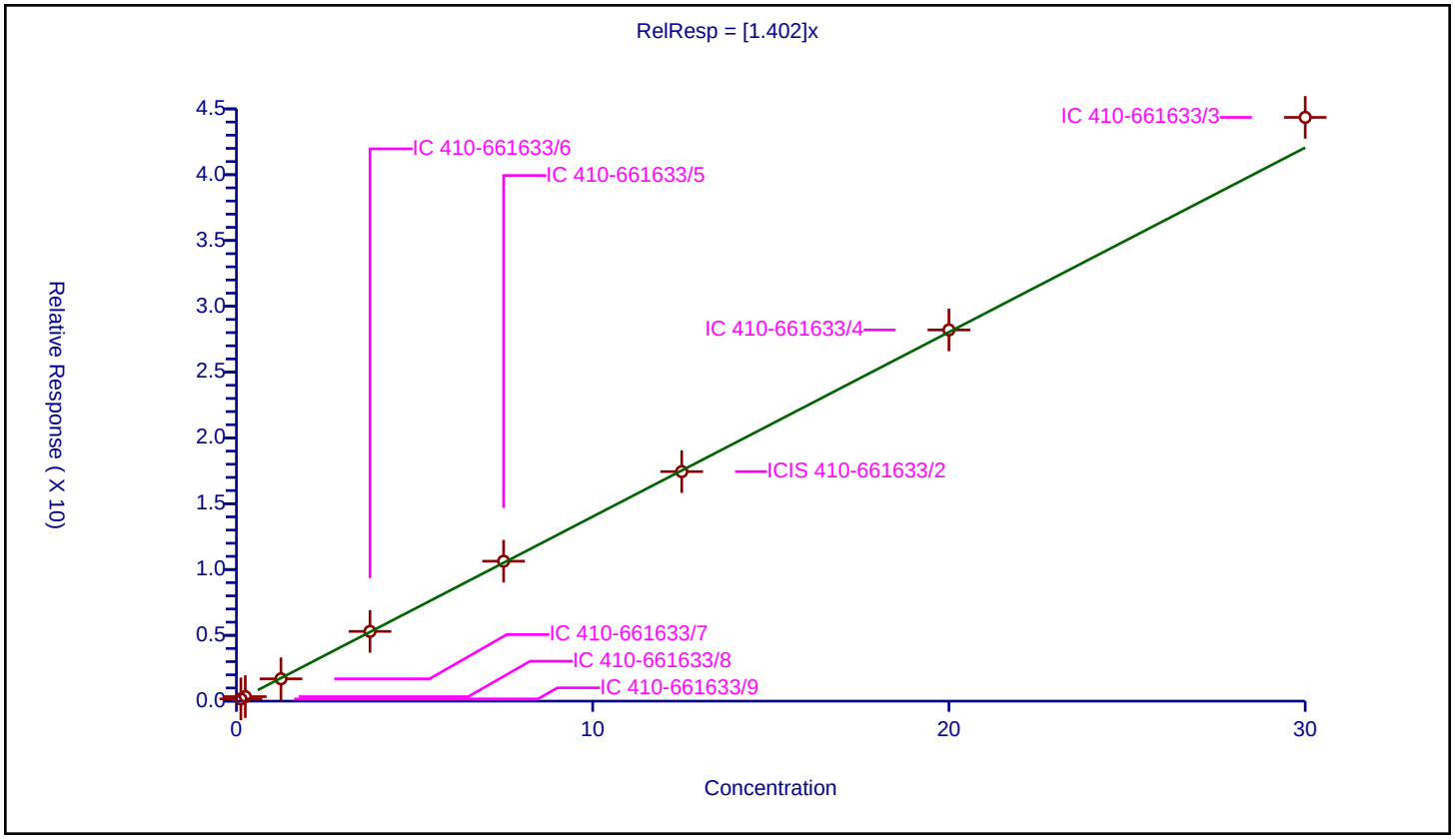
Curve Coefficients

Intercept:	0
Slope:	1.402

Error Coefficients

Relative Standard Deviation:	2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.171685	5.0	502809.0	1.373484	Y
2	IC 410-661633/8	0.25	0.342453	5.0	472984.0	1.369814	Y
3	IC 410-661633/7	1.25	1.696914	5.0	475519.0	1.357531	Y
4	IC 410-661633/6	3.75	5.2982	5.0	534976.0	1.412853	Y
5	IC 410-661633/5	7.5	10.633545	5.0	505071.0	1.417806	Y
6	ICIS 410-661633/2	12.5	17.44086	5.0	500342.0	1.395269	Y
7	IC 410-661633/4	20.0	28.2048	5.0	552270.0	1.41024	Y
8	IC 410-661633/3	30.0	44.354736	5.0	492767.0	1.478491	Y



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Calibration / Thionazin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

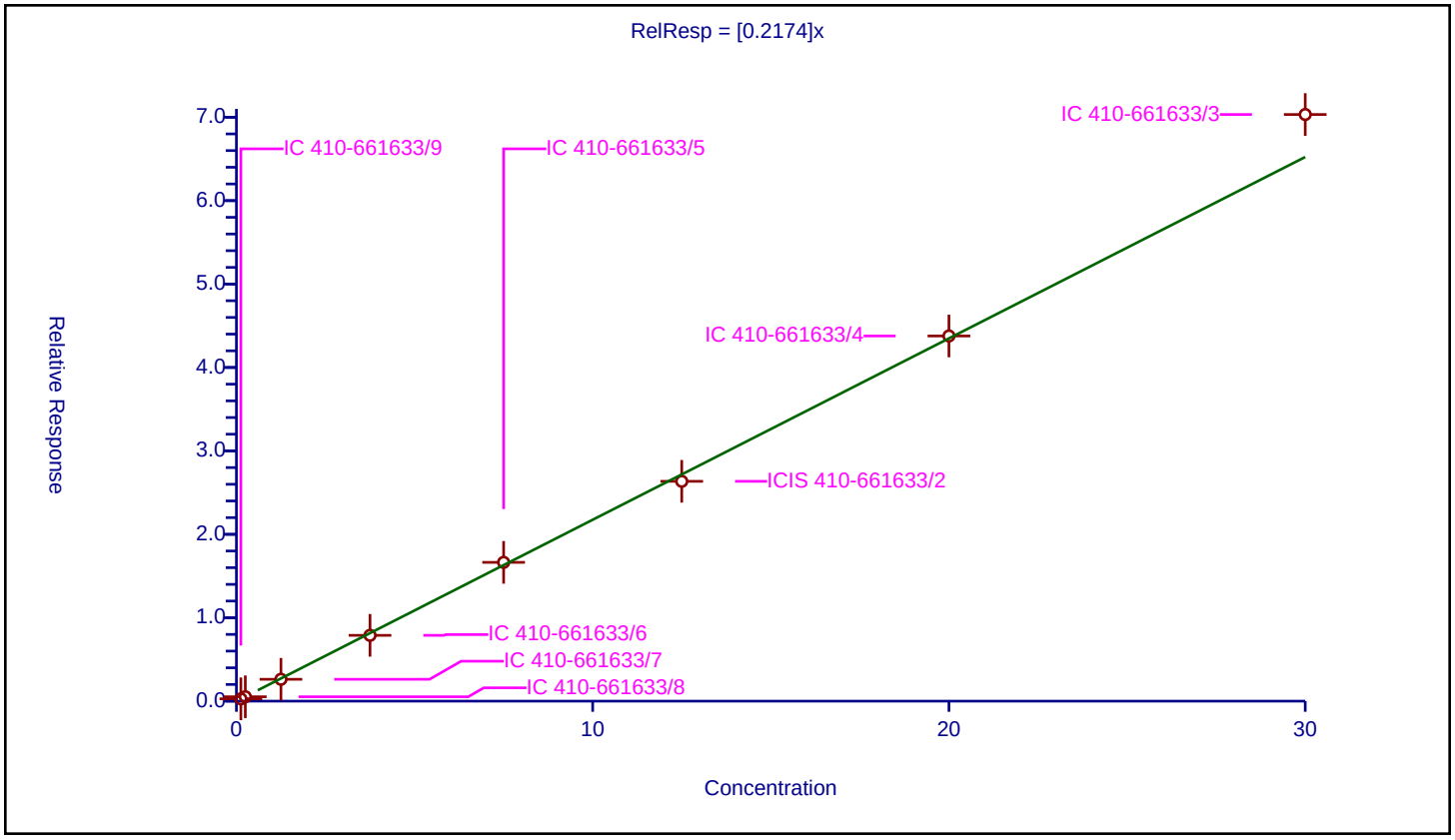
Curve Coefficients

Intercept:	0
Slope:	0.2174

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.027903	5.0	502809.0	0.223226	Y
2	IC 410-661633/8	0.25	0.05257	5.0	472984.0	0.210282	Y
3	IC 410-661633/7	1.25	0.262008	5.0	475519.0	0.209607	Y
4	IC 410-661633/6	3.75	0.788905	5.0	534976.0	0.210375	Y
5	IC 410-661633/5	7.5	1.663825	5.0	505071.0	0.221843	Y
6	ICIS 410-661633/2	12.5	2.635387	5.0	500342.0	0.210831	Y
7	IC 410-661633/4	20.0	4.377714	5.0	552270.0	0.218886	Y
8	IC 410-661633/3	30.0	7.032756	5.0	492767.0	0.234425	Y



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Calibration / 4-Chlorophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

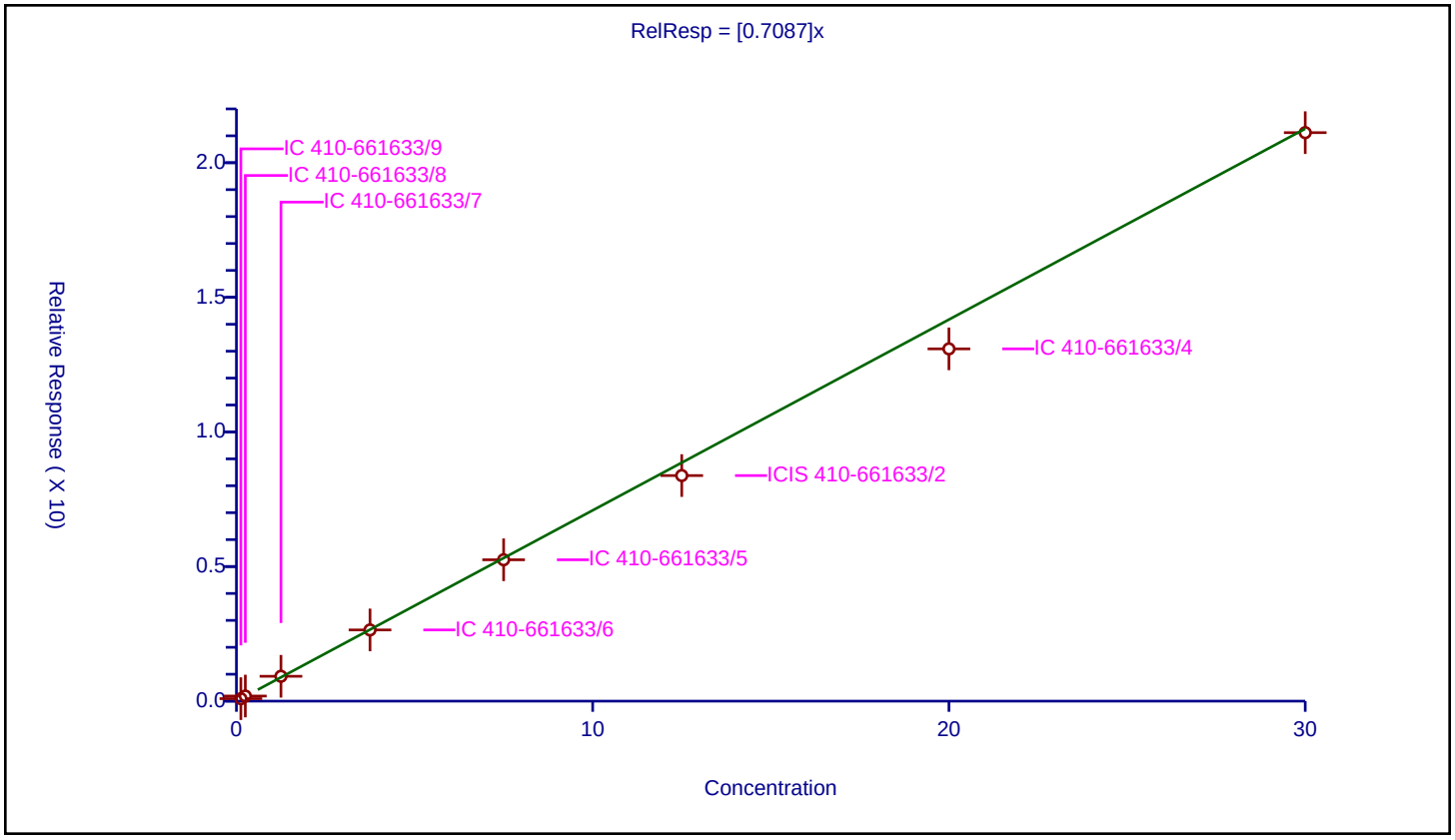
Curve Coefficients

Intercept:	0
Slope:	0.7087

Error Coefficients

Relative Standard Deviation:	5.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.092441	5.0	502809.0	0.739525	Y
2	IC 410-661633/8	0.25	0.189393	5.0	472984.0	0.757573	Y
3	IC 410-661633/7	1.25	0.923202	5.0	475519.0	0.738561	Y
4	IC 410-661633/6	3.75	2.645343	5.0	534976.0	0.705425	Y
5	IC 410-661633/5	7.5	5.251133	5.0	505071.0	0.700151	Y
6	ICIS 410-661633/2	12.5	8.379398	5.0	500342.0	0.670352	Y
7	IC 410-661633/4	20.0	13.086018	5.0	552270.0	0.654301	Y
8	IC 410-661633/3	30.0	21.117039	5.0	492767.0	0.703901	Y



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Calibration / Fluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

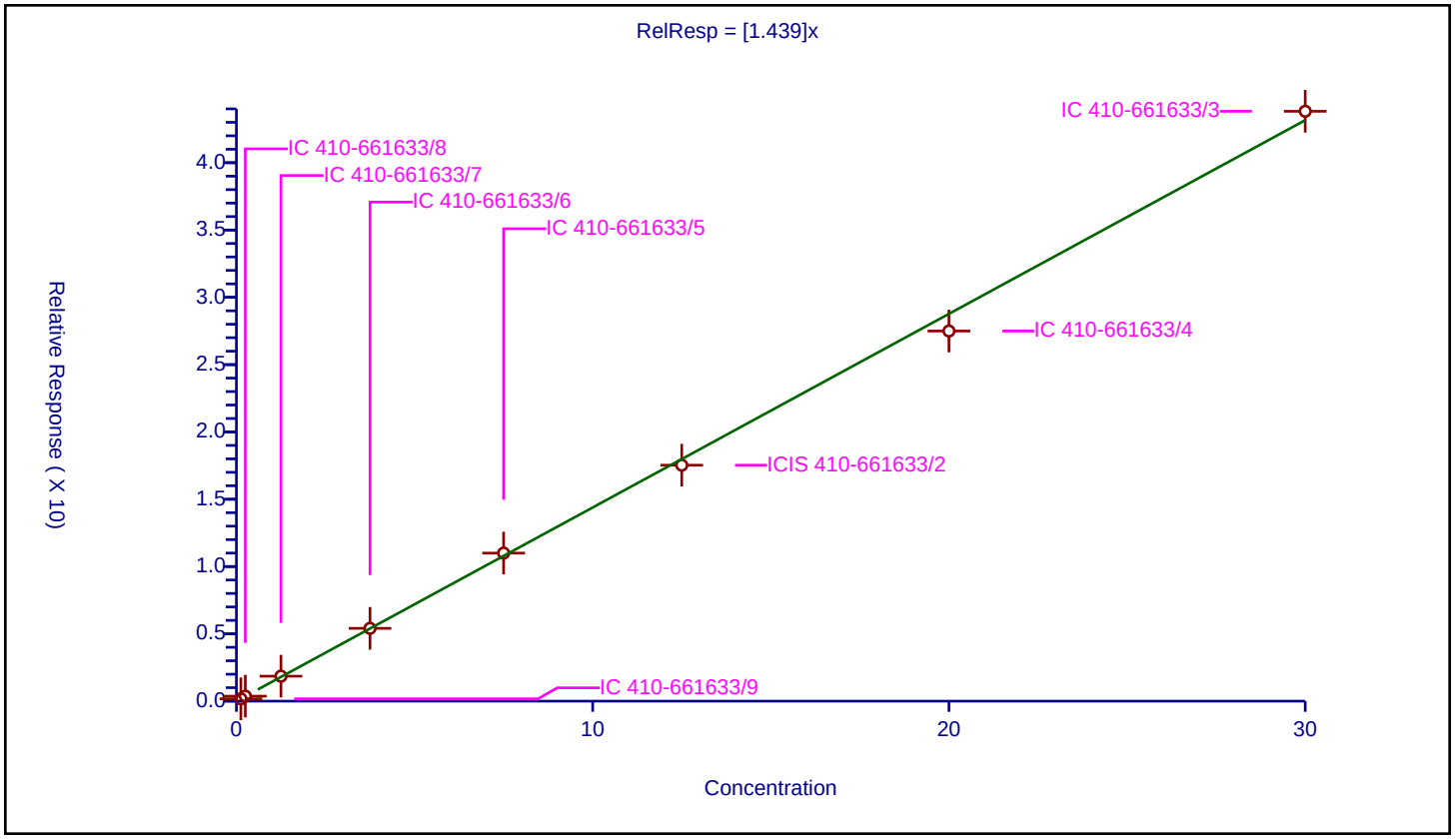
Curve Coefficients

Intercept:	0
Slope:	1.439

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.174241	5.0	502809.0	1.393929	Y
2	IC 410-661633/8	0.25	0.371017	5.0	472984.0	1.484067	Y
3	IC 410-661633/7	1.25	1.855078	5.0	475519.0	1.484063	Y
4	IC 410-661633/6	3.75	5.409187	5.0	534976.0	1.44245	Y
5	IC 410-661633/5	7.5	10.99782	5.0	505071.0	1.466376	Y
6	ICIS 410-661633/2	12.5	17.531319	5.0	500342.0	1.402505	Y
7	IC 410-661633/4	20.0	27.496433	5.0	552270.0	1.374822	Y
8	IC 410-661633/3	30.0	43.821624	5.0	492767.0	1.460721	Y



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Calibration / N-Nitro-o-toluidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

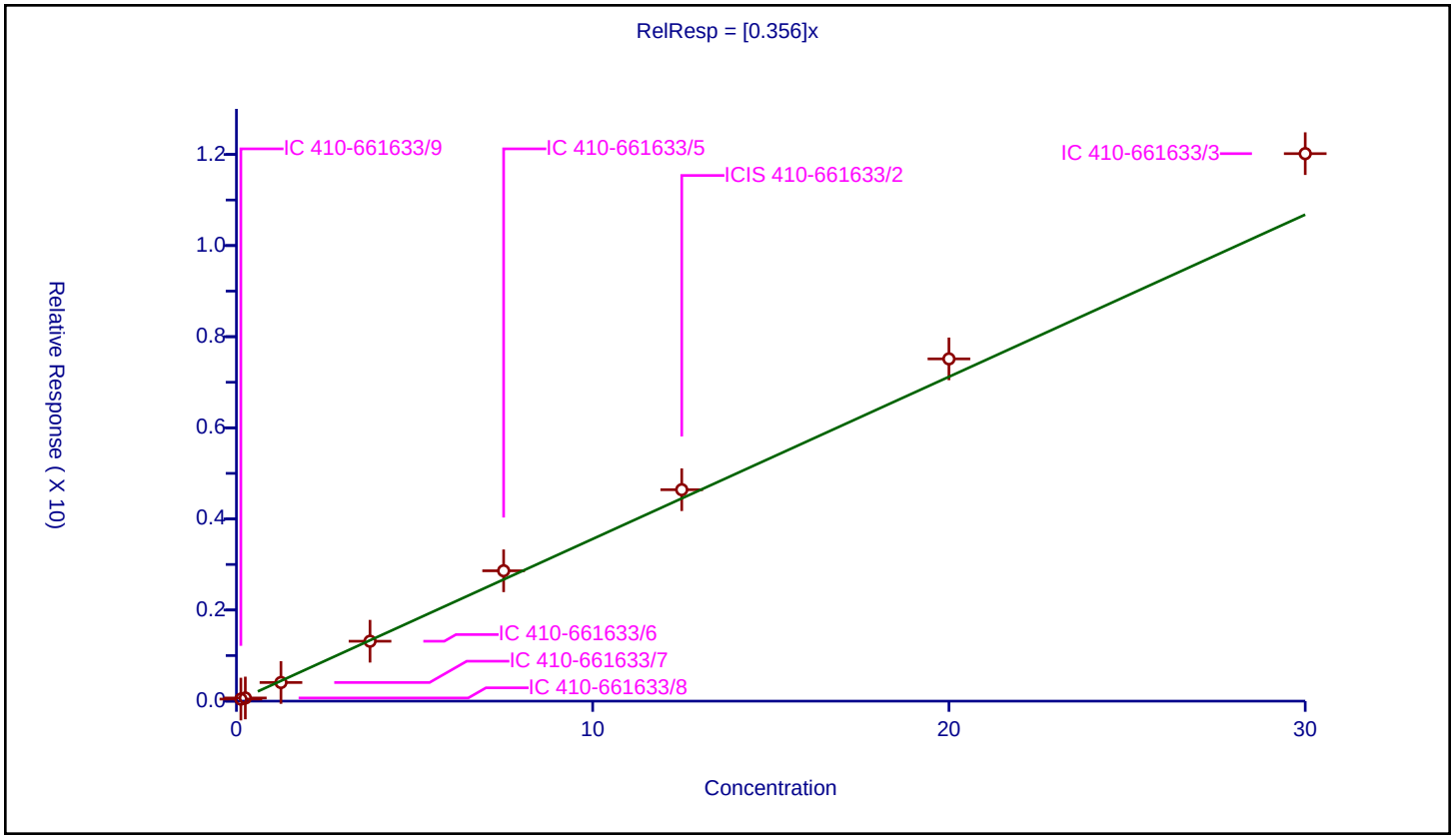
Curve Coefficients

Intercept:	0
Slope:	0.356

Error Coefficients

Relative Standard Deviation:	10.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.045455	5.0	502809.0	0.363637	Y
2	IC 410-661633/8	0.25	0.069252	5.0	472984.0	0.277007	Y
3	IC 410-661633/7	1.25	0.409142	5.0	475519.0	0.327314	Y
4	IC 410-661633/6	3.75	1.315246	5.0	534976.0	0.350732	Y
5	IC 410-661633/5	7.5	2.861657	5.0	505071.0	0.381554	Y
6	ICIS 410-661633/2	12.5	4.641085	5.0	500342.0	0.371287	Y
7	IC 410-661633/4	20.0	7.512874	5.0	552270.0	0.375644	Y
8	IC 410-661633/3	30.0	12.018073	5.0	492767.0	0.400602	Y



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Calibration / 4-Nitroaniline

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

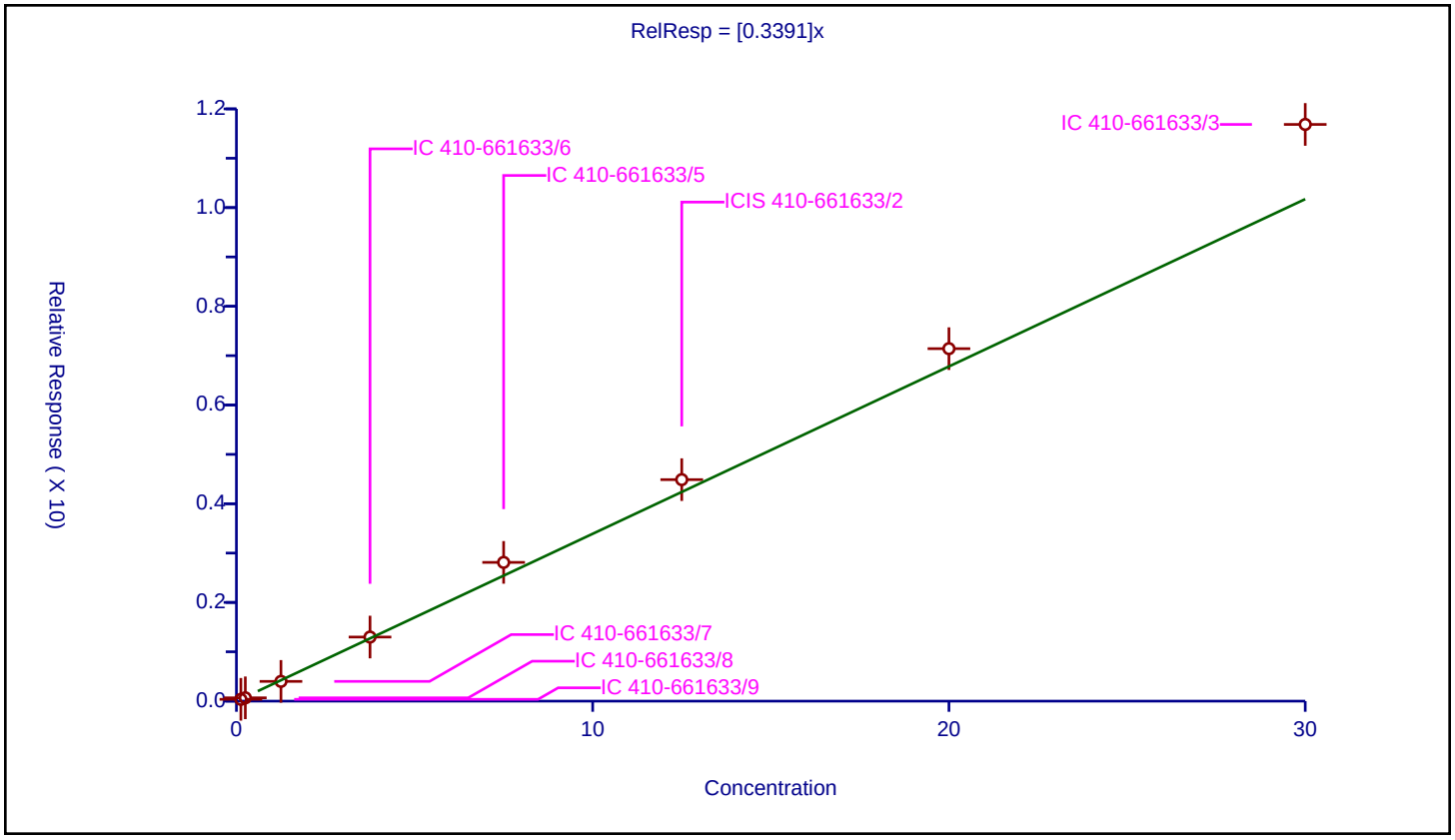
Curve Coefficients

Intercept:	0
Slope:	0.3391

Error Coefficients

Relative Standard Deviation:	12.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.037042	5.0	502809.0	0.296335	Y
2	IC 410-661633/8	0.25	0.067286	5.0	472984.0	0.269142	Y
3	IC 410-661633/7	1.25	0.400152	5.0	475519.0	0.320122	Y
4	IC 410-661633/6	3.75	1.298937	5.0	534976.0	0.346383	Y
5	IC 410-661633/5	7.5	2.811387	5.0	505071.0	0.374852	Y
6	ICIS 410-661633/2	12.5	4.48828	5.0	500342.0	0.359062	Y
7	IC 410-661633/4	20.0	7.142123	5.0	552270.0	0.357106	Y
8	IC 410-661633/3	30.0	11.685026	5.0	492767.0	0.389501	Y



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Calibration / 4,6-Dinitro-2-methylphenol

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

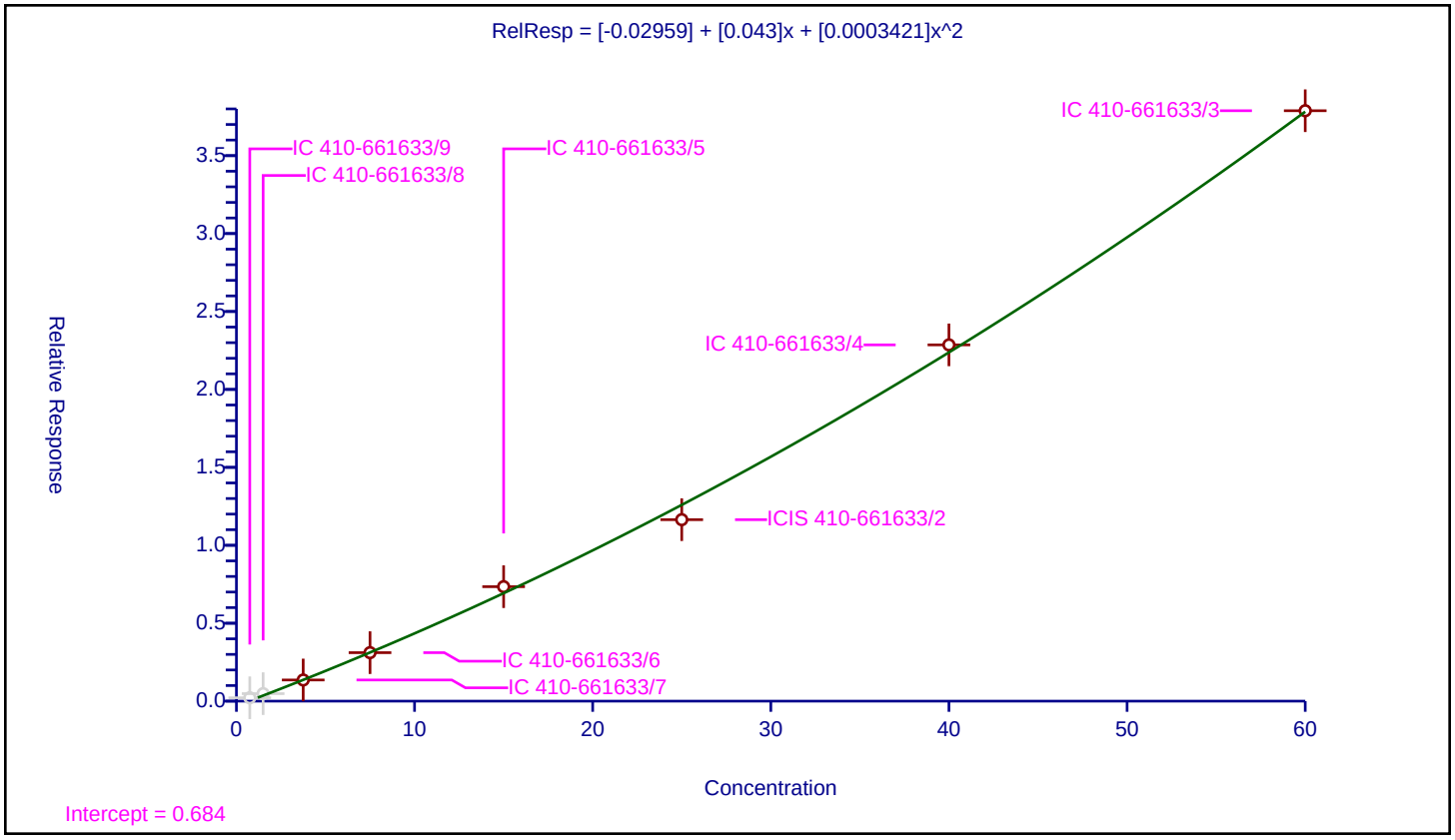
Curve Coefficients

Intercept:	-0.02959
Slope:	0.043
Second Order:	0.0003421

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.75	0.02169	5.0	1010165.0	0.028919	N
2	IC 410-661633/8	1.5	0.048119	5.0	970825.0	0.032079	N
3	IC 410-661633/7	3.75	0.135772	5.0	983596.0	0.036206	Y
4	IC 410-661633/6	7.5	0.311114	5.0	1073930.0	0.041482	Y
5	IC 410-661633/5	15.0	0.734347	5.0	1024693.0	0.048956	Y
6	ICIS 410-661633/2	25.0	1.164376	5.0	997272.0	0.046575	Y
7	IC 410-661633/4	40.0	2.285838	5.0	1118695.0	0.057146	Y
8	IC 410-661633/3	60.0	3.788214	5.0	1010504.0	0.063137	Y



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Calibration / N-Nitrosodiphenylamine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

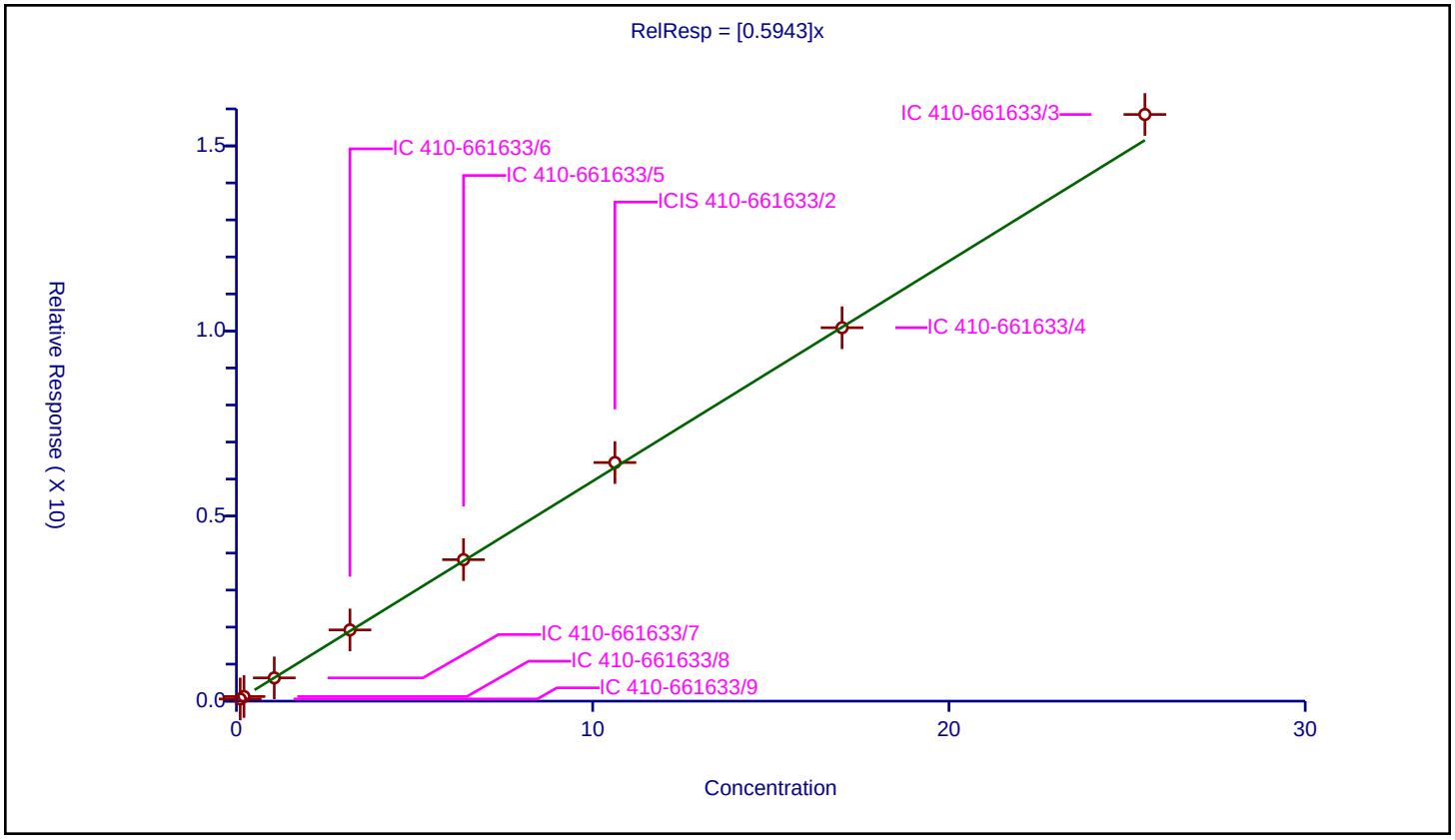
Curve Coefficients

Intercept:	0
Slope:	0.5943

Error Coefficients

Relative Standard Deviation:	3.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.10625	0.058599	5.0	1010165.0	0.551523	Y
2	IC 410-661633/8	0.2125	0.124528	5.0	970825.0	0.586015	Y
3	IC 410-661633/7	1.0625	0.628546	5.0	983596.0	0.591572	Y
4	IC 410-661633/6	3.1875	1.924665	5.0	1073930.0	0.603816	Y
5	IC 410-661633/5	6.375	3.822496	5.0	1024693.0	0.599607	Y
6	ICIS 410-661633/2	10.625	6.446035	5.0	997272.0	0.606686	Y
7	IC 410-661633/4	17.0	10.088036	5.0	1118695.0	0.593414	Y
8	IC 410-661633/3	25.5	15.849086	5.0	1010504.0	0.621533	Y



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Calibration / 1,2-Diphenylhydrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

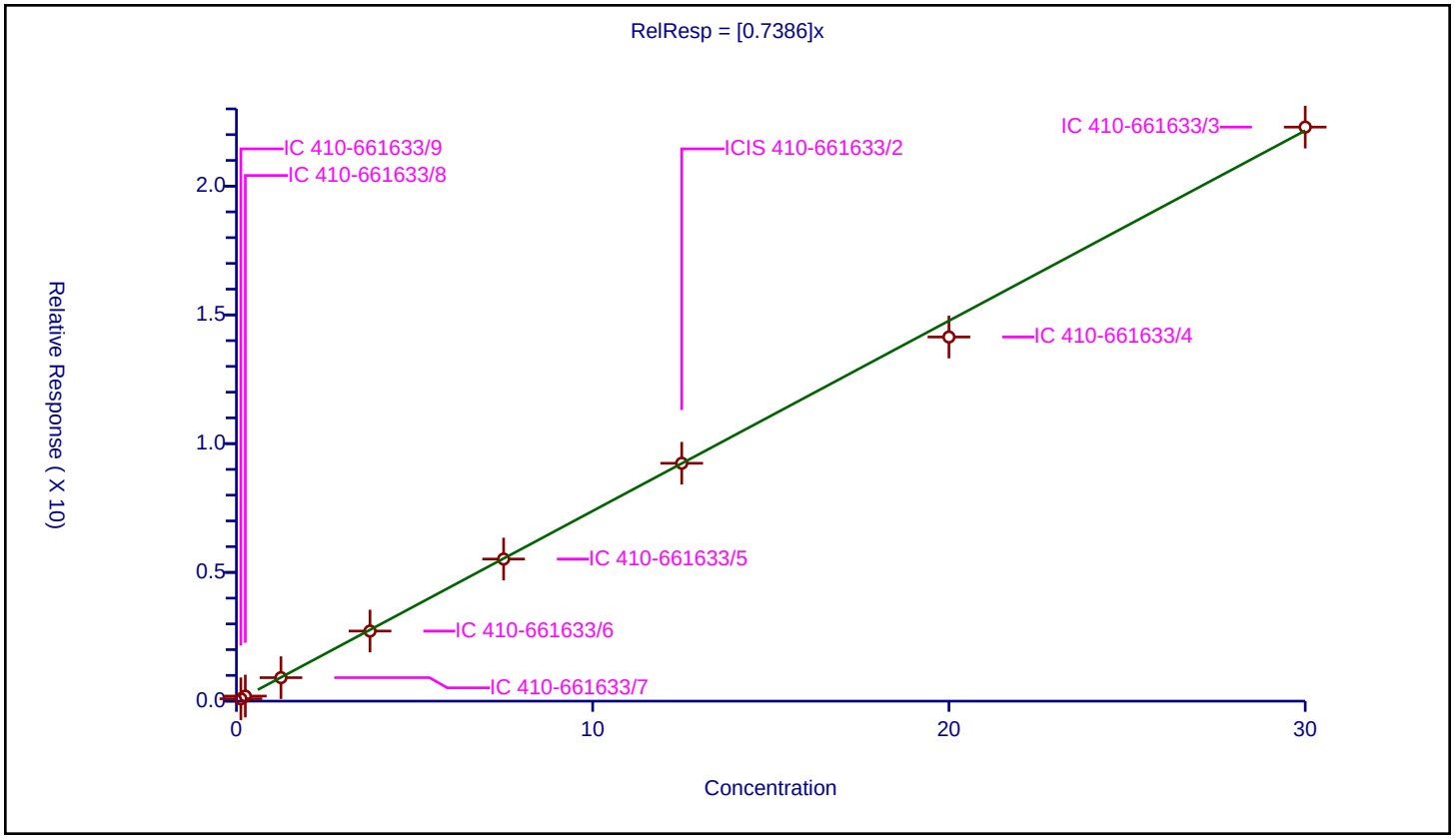
Curve Coefficients

Intercept:	0
Slope:	0.7386

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.092713	5.0	1010165.0	0.741701	Y
2	IC 410-661633/8	0.25	0.196518	5.0	970825.0	0.786074	Y
3	IC 410-661633/7	1.25	0.91199	5.0	983596.0	0.729592	Y
4	IC 410-661633/6	3.75	2.722808	5.0	1073930.0	0.726082	Y
5	IC 410-661633/5	7.5	5.518677	5.0	1024693.0	0.735824	Y
6	ICIS 410-661633/2	12.5	9.238282	5.0	997272.0	0.739063	Y
7	IC 410-661633/4	20.0	14.141164	5.0	1118695.0	0.707058	Y
8	IC 410-661633/3	30.0	22.292391	5.0	1010504.0	0.74308	Y



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Calibration / 2,4,6-Tribromophenol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

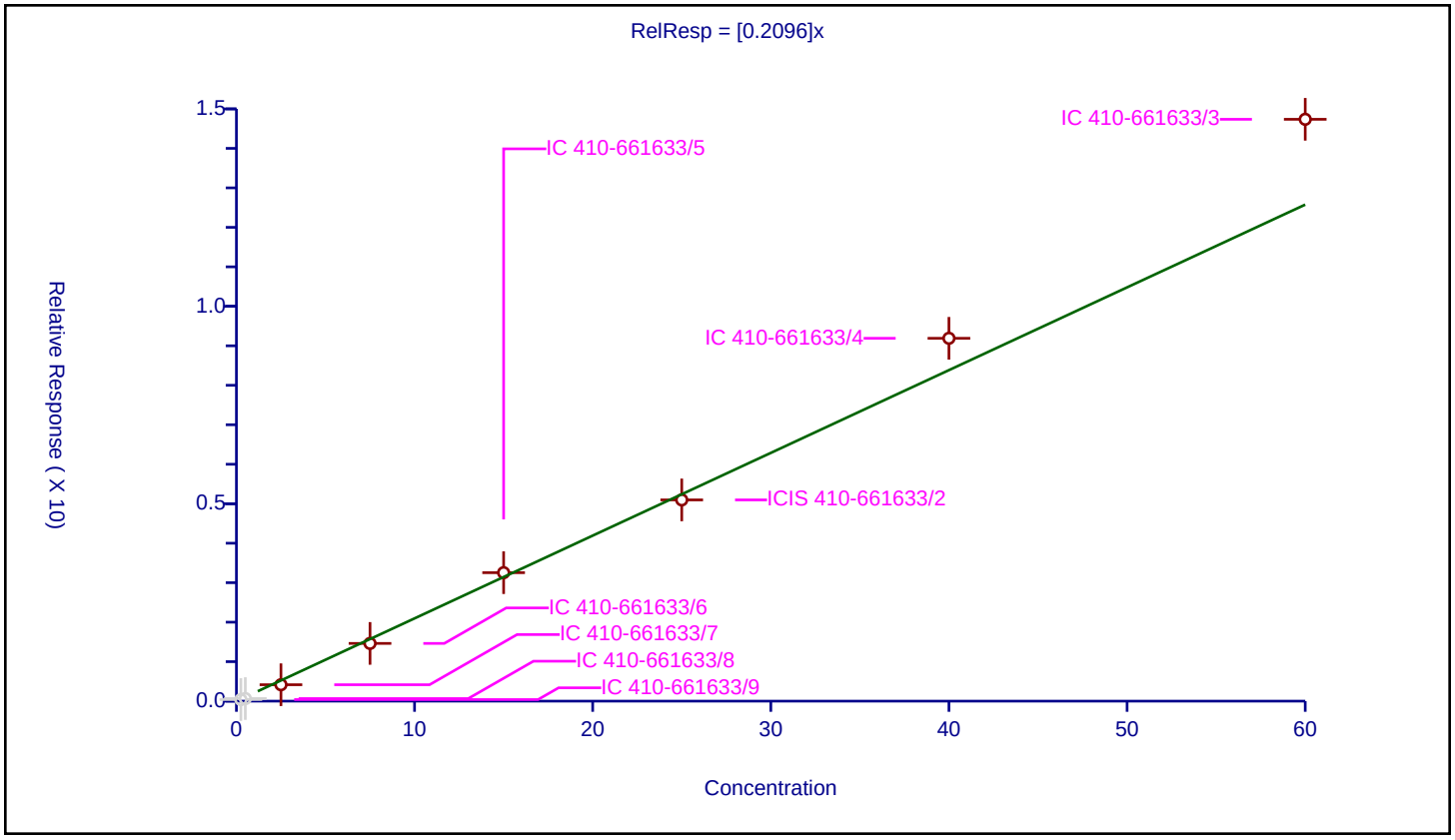
Curve Coefficients

Intercept:	0
Slope:	0.2096

Error Coefficients

Relative Standard Deviation:	13.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.040095	5.0	502809.0	0.160379	N
2	IC 410-661633/8	0.5	0.064939	5.0	472984.0	0.129878	N
3	IC 410-661633/7	2.5	0.415998	5.0	475519.0	0.166399	Y
4	IC 410-661633/6	7.5	1.462421	5.0	534976.0	0.194989	Y
5	IC 410-661633/5	15.0	3.253741	5.0	505071.0	0.216916	Y
6	ICIS 410-661633/2	25.0	5.096804	5.0	500342.0	0.203872	Y
7	IC 410-661633/4	40.0	9.18978	5.0	552270.0	0.229745	Y
8	IC 410-661633/3	60.0	14.736082	5.0	492767.0	0.245601	Y



Calibration / Sulfotepp

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

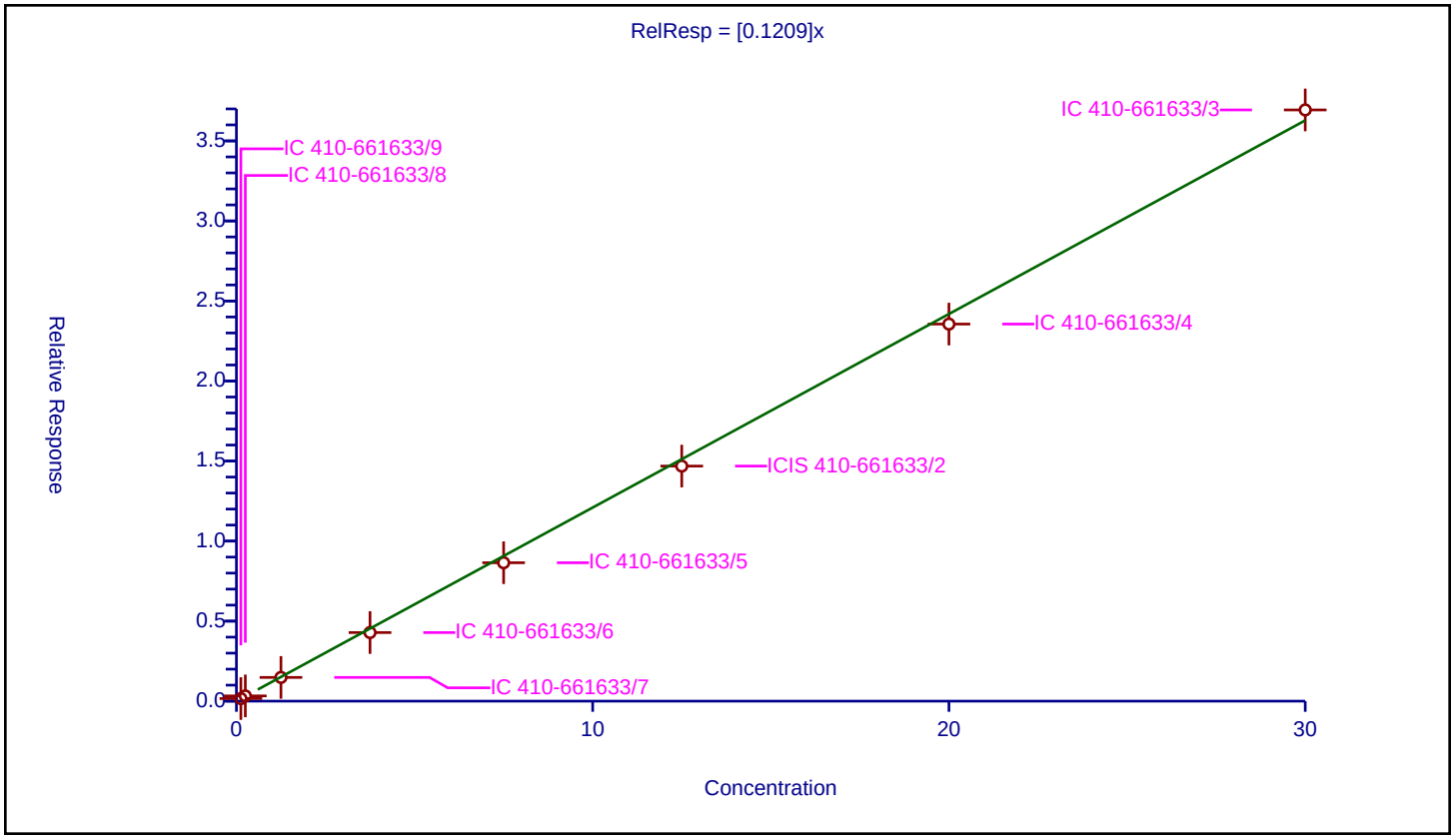
Curve Coefficients

Intercept:	0
Slope:	0.1209

Error Coefficients

Relative Standard Deviation:	5.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.016304	5.0	1010165.0	0.130434	Y
2	IC 410-661633/8	0.25	0.032622	5.0	970825.0	0.130487	Y
3	IC 410-661633/7	1.25	0.148216	5.0	983596.0	0.118573	Y
4	IC 410-661633/6	3.75	0.428603	5.0	1073930.0	0.114294	Y
5	IC 410-661633/5	7.5	0.864678	5.0	1024693.0	0.11529	Y
6	ICIS 410-661633/2	12.5	1.468471	5.0	997272.0	0.117478	Y
7	IC 410-661633/4	20.0	2.355736	5.0	1118695.0	0.117787	Y
8	IC 410-661633/3	30.0	3.693533	5.0	1010504.0	0.123118	Y



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Calibration / 1,3,5-Trinitrobenzene

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

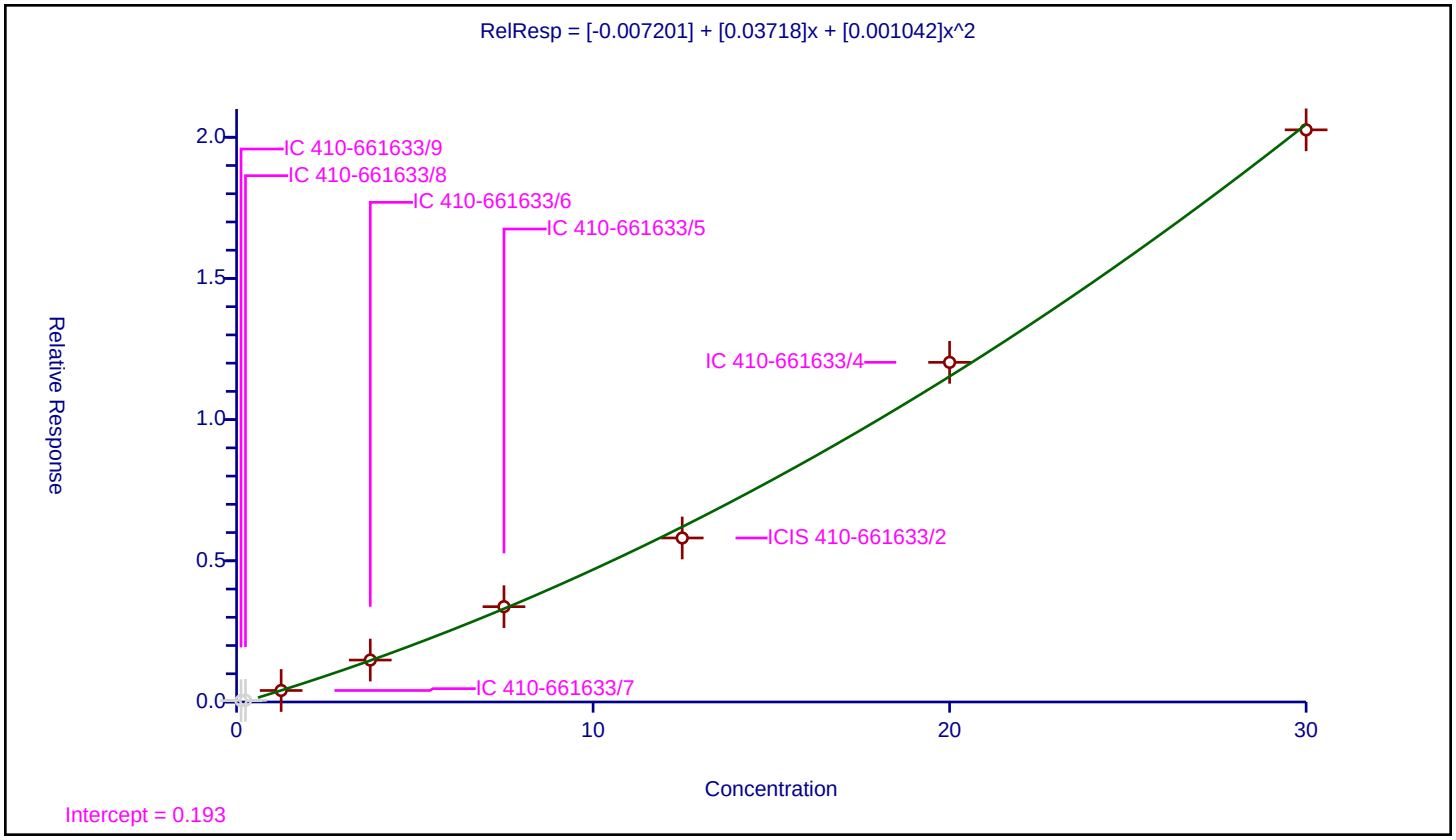
Curve Coefficients

Intercept:	-0.007201
Slope:	0.03718
Second Order:	0.001042

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.00446	5.0	1010165.0	0.035677	N
2	IC 410-661633/8	0.25	0.005938	5.0	970825.0	0.023753	N
3	IC 410-661633/7	1.25	0.040738	5.0	983596.0	0.032591	Y
4	IC 410-661633/6	3.75	0.148534	5.0	1073930.0	0.039609	Y
5	IC 410-661633/5	7.5	0.337594	5.0	1024693.0	0.045013	Y
6	ICIS 410-661633/2	12.5	0.58089	5.0	997272.0	0.046471	Y
7	IC 410-661633/4	20.0	1.20283	5.0	1118695.0	0.060142	Y
8	IC 410-661633/3	30.0	2.026281	5.0	1010504.0	0.067543	Y



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Calibration / cis-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

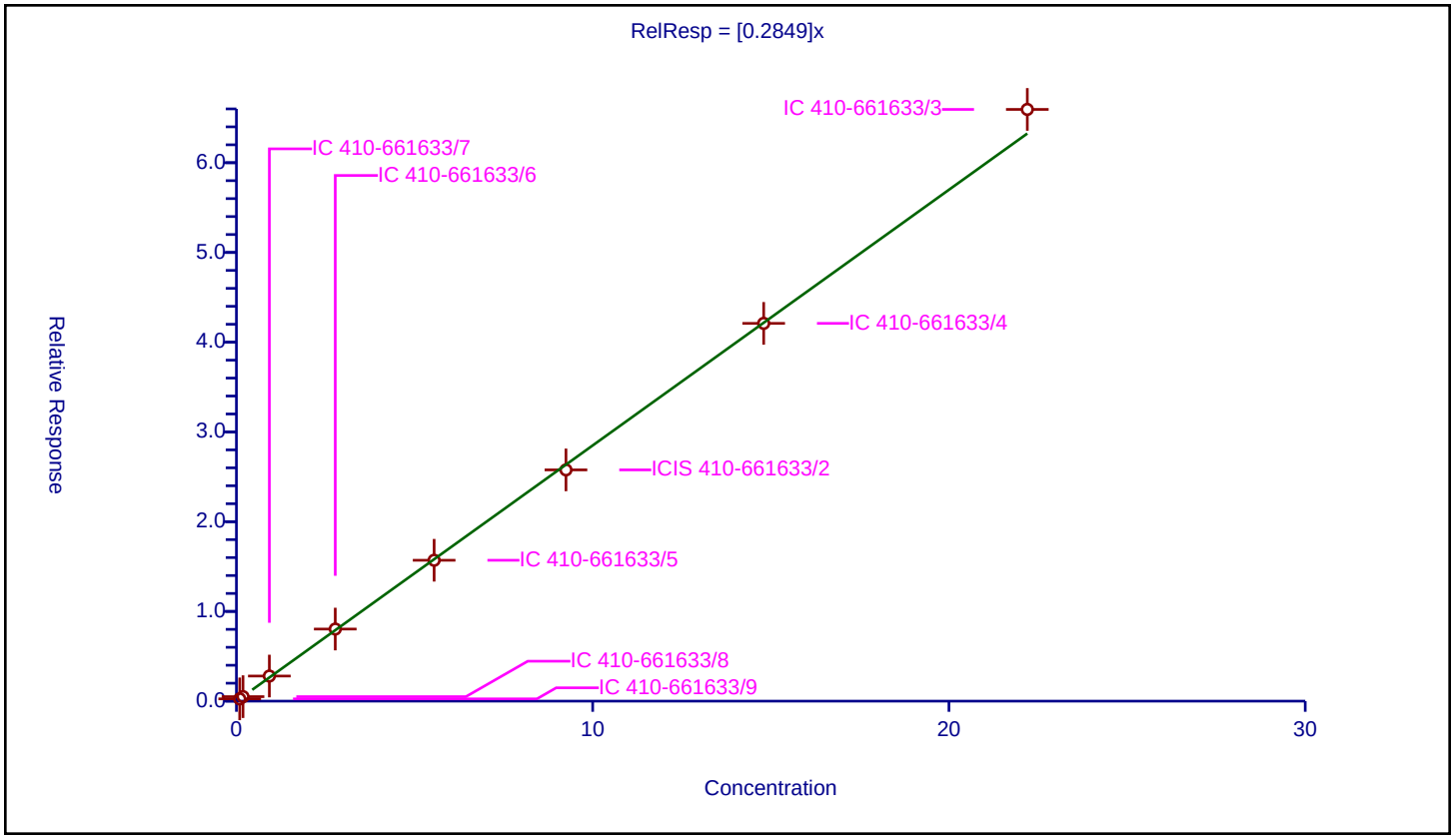
Curve Coefficients

Intercept:	0
Slope:	0.2849

Error Coefficients

Relative Standard Deviation:	3.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.0925	0.025352	5.0	1010165.0	0.274079	Y
2	IC 410-661633/8	0.185	0.05003	5.0	970825.0	0.27043	Y
3	IC 410-661633/7	0.925	0.27979	5.0	983596.0	0.302475	Y
4	IC 410-661633/6	2.775	0.803451	5.0	1073930.0	0.289532	Y
5	IC 410-661633/5	5.55	1.569909	5.0	1024693.0	0.282867	Y
6	ICIS 410-661633/2	9.25	2.57711	5.0	997272.0	0.278607	Y
7	IC 410-661633/4	14.8	4.209727	5.0	1118695.0	0.284441	Y
8	IC 410-661633/3	22.2	6.593977	5.0	1010504.0	0.297026	Y



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Calibration / Phenacetin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

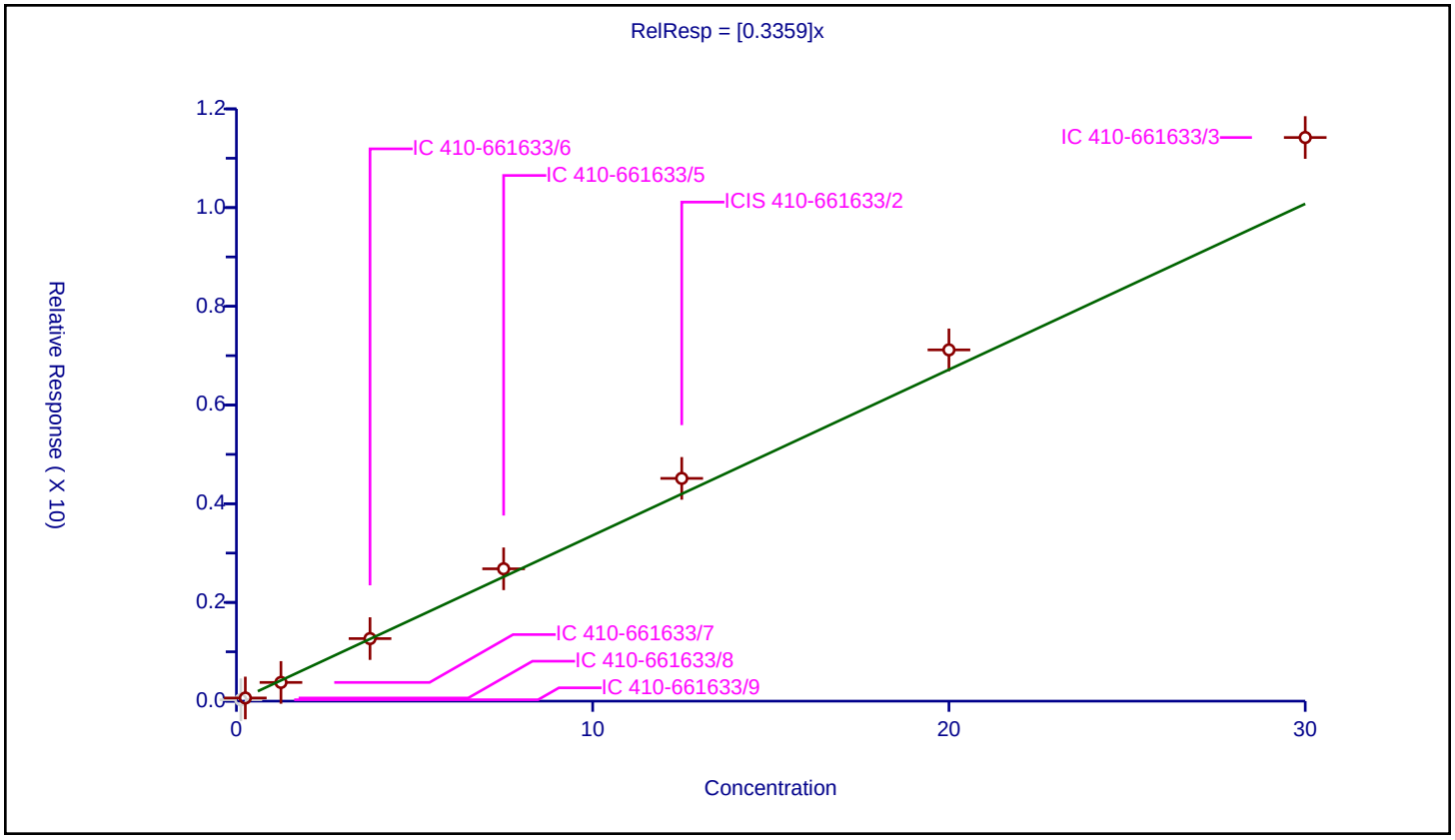
Curve Coefficients

Intercept:	0
Slope:	0.3359

Error Coefficients

Relative Standard Deviation:	12.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.028188	5.0	1010165.0	0.225508	N
2	IC 410-661633/8	0.25	0.063719	5.0	970825.0	0.254876	Y
3	IC 410-661633/7	1.25	0.378951	5.0	983596.0	0.303161	Y
4	IC 410-661633/6	3.75	1.26742	5.0	1073930.0	0.337979	Y
5	IC 410-661633/5	7.5	2.681164	5.0	1024693.0	0.357489	Y
6	ICIS 410-661633/2	12.5	4.513162	5.0	997272.0	0.361053	Y
7	IC 410-661633/4	20.0	7.117409	5.0	1118695.0	0.35587	Y
8	IC 410-661633/3	30.0	11.420024	5.0	1010504.0	0.380667	Y



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Calibration / Phorate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

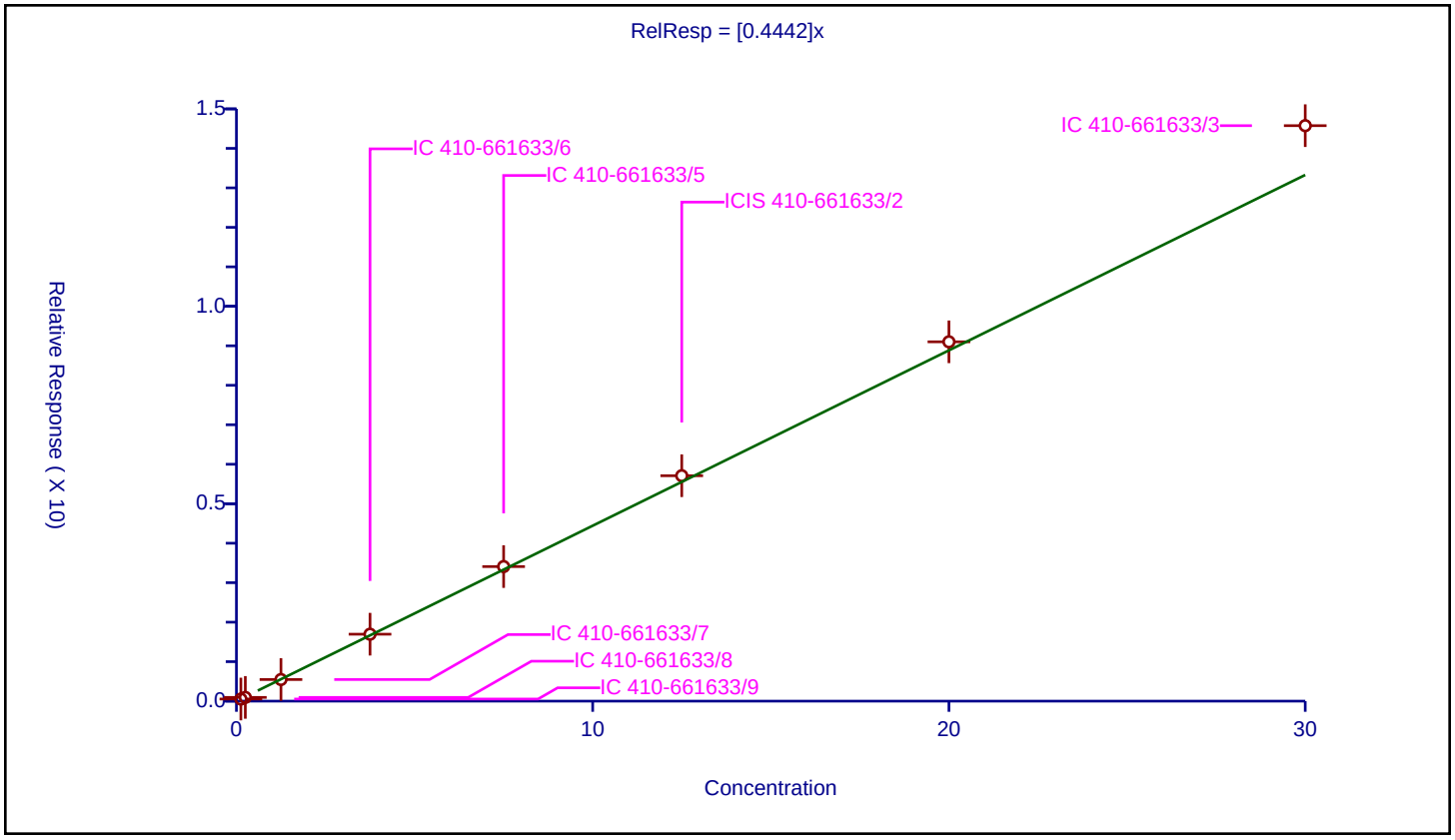
Curve Coefficients

Intercept:	0
Slope:	0.4442

Error Coefficients

Relative Standard Deviation:	6.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.053952	5.0	1010165.0	0.431613	Y
2	IC 410-661633/8	0.25	0.095012	5.0	970825.0	0.380048	Y
3	IC 410-661633/7	1.25	0.547562	5.0	983596.0	0.43805	Y
4	IC 410-661633/6	3.75	1.695436	5.0	1073930.0	0.452116	Y
5	IC 410-661633/5	7.5	3.408553	5.0	1024693.0	0.454474	Y
6	ICIS 410-661633/2	12.5	5.70931	5.0	997272.0	0.456745	Y
7	IC 410-661633/4	20.0	9.100675	5.0	1118695.0	0.455034	Y
8	IC 410-661633/3	30.0	14.574866	5.0	1010504.0	0.485829	Y



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Calibration / 4-Bromophenyl phenyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

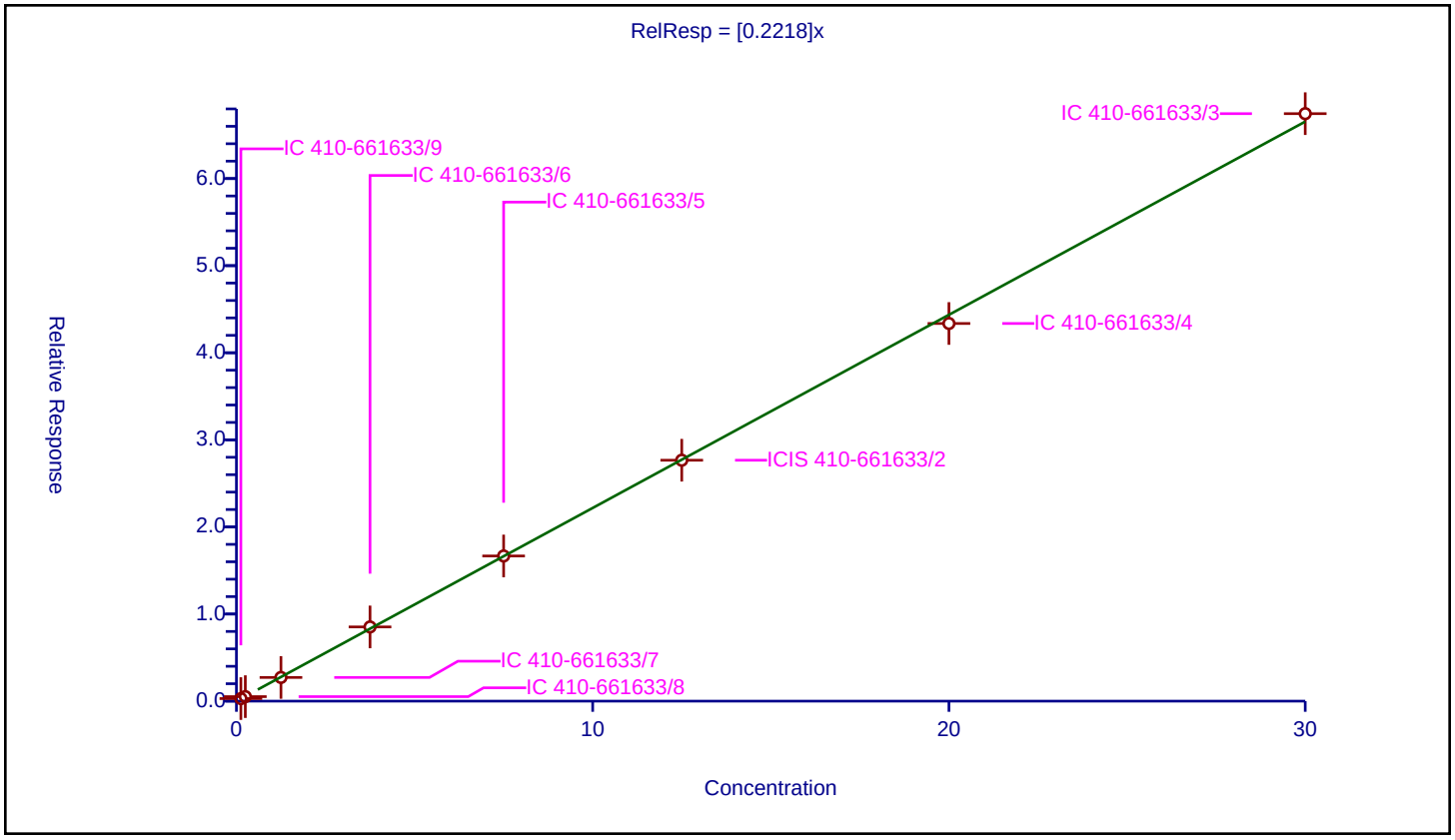
Curve Coefficients

Intercept:	0
Slope:	0.2218

Error Coefficients

Relative Standard Deviation:	3.8

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.02956	5.0	1010165.0	0.236476	Y
2	IC 410-661633/8	0.25	0.051966	5.0	970825.0	0.207864	Y
3	IC 410-661633/7	1.25	0.272027	5.0	983596.0	0.217622	Y
4	IC 410-661633/6	3.75	0.852025	5.0	1073930.0	0.227207	Y
5	IC 410-661633/5	7.5	1.666694	5.0	1024693.0	0.222226	Y
6	ICIS 410-661633/2	12.5	2.766206	5.0	997272.0	0.221296	Y
7	IC 410-661633/4	20.0	4.336119	5.0	1118695.0	0.216806	Y
8	IC 410-661633/3	30.0	6.745292	5.0	1010504.0	0.224843	Y



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Calibration / trans-Diallate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

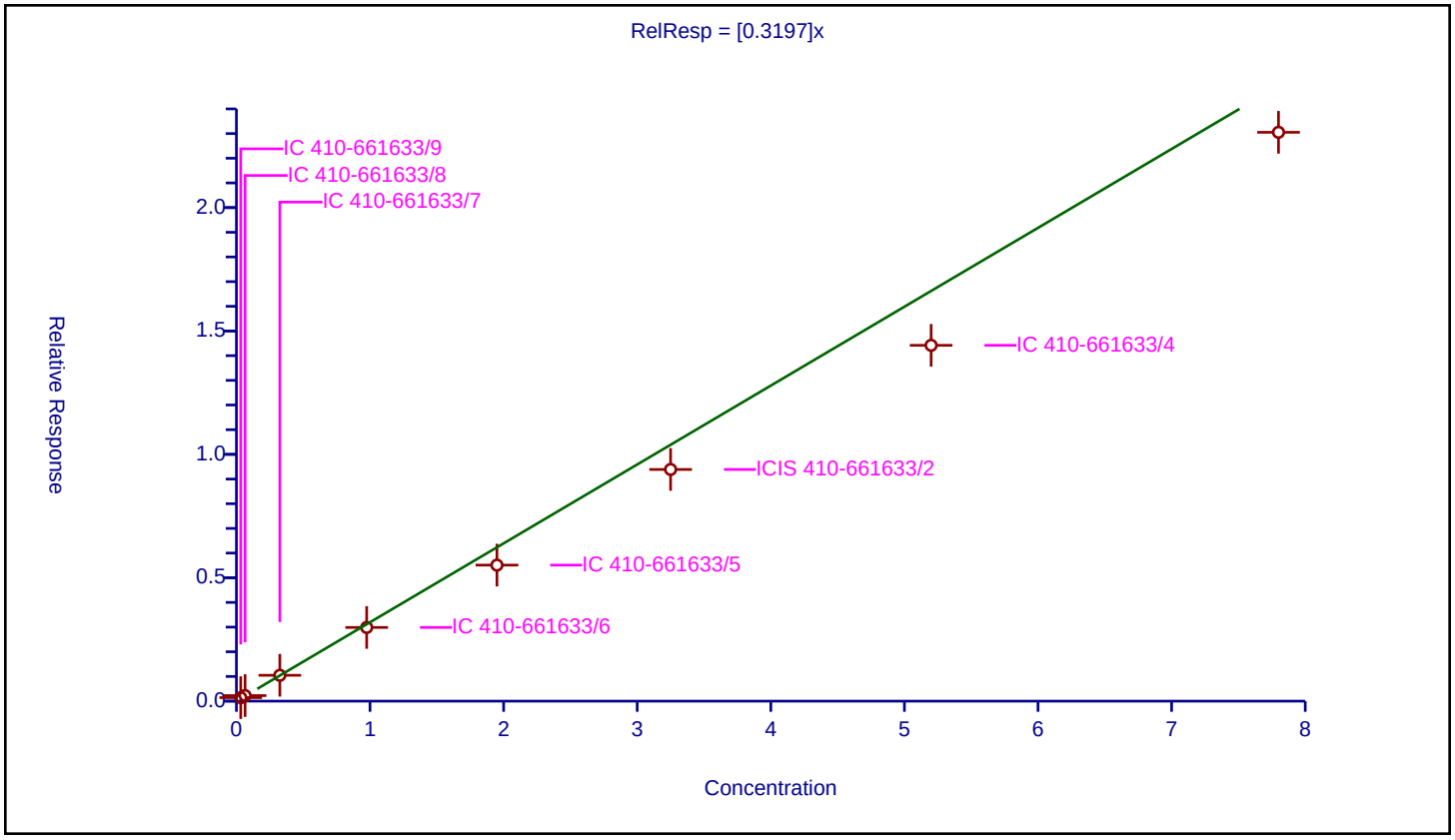
Curve Coefficients

Intercept:	0
Slope:	0.3197

Error Coefficients

Relative Standard Deviation:	16.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.0325	0.01422	5.0	1010165.0	0.437552	Y
2	IC 410-661633/8	0.065	0.022543	5.0	970825.0	0.346811	Y
3	IC 410-661633/7	0.325	0.104703	5.0	983596.0	0.322162	Y
4	IC 410-661633/6	0.975	0.298641	5.0	1073930.0	0.306299	Y
5	IC 410-661633/5	1.95	0.551224	5.0	1024693.0	0.282679	Y
6	ICIS 410-661633/2	3.25	0.938876	5.0	997272.0	0.288885	Y
7	IC 410-661633/4	5.2	1.441881	5.0	1118695.0	0.277285	Y
8	IC 410-661633/3	7.8	2.305152	5.0	1010504.0	0.295532	Y



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Calibration / Hexachlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

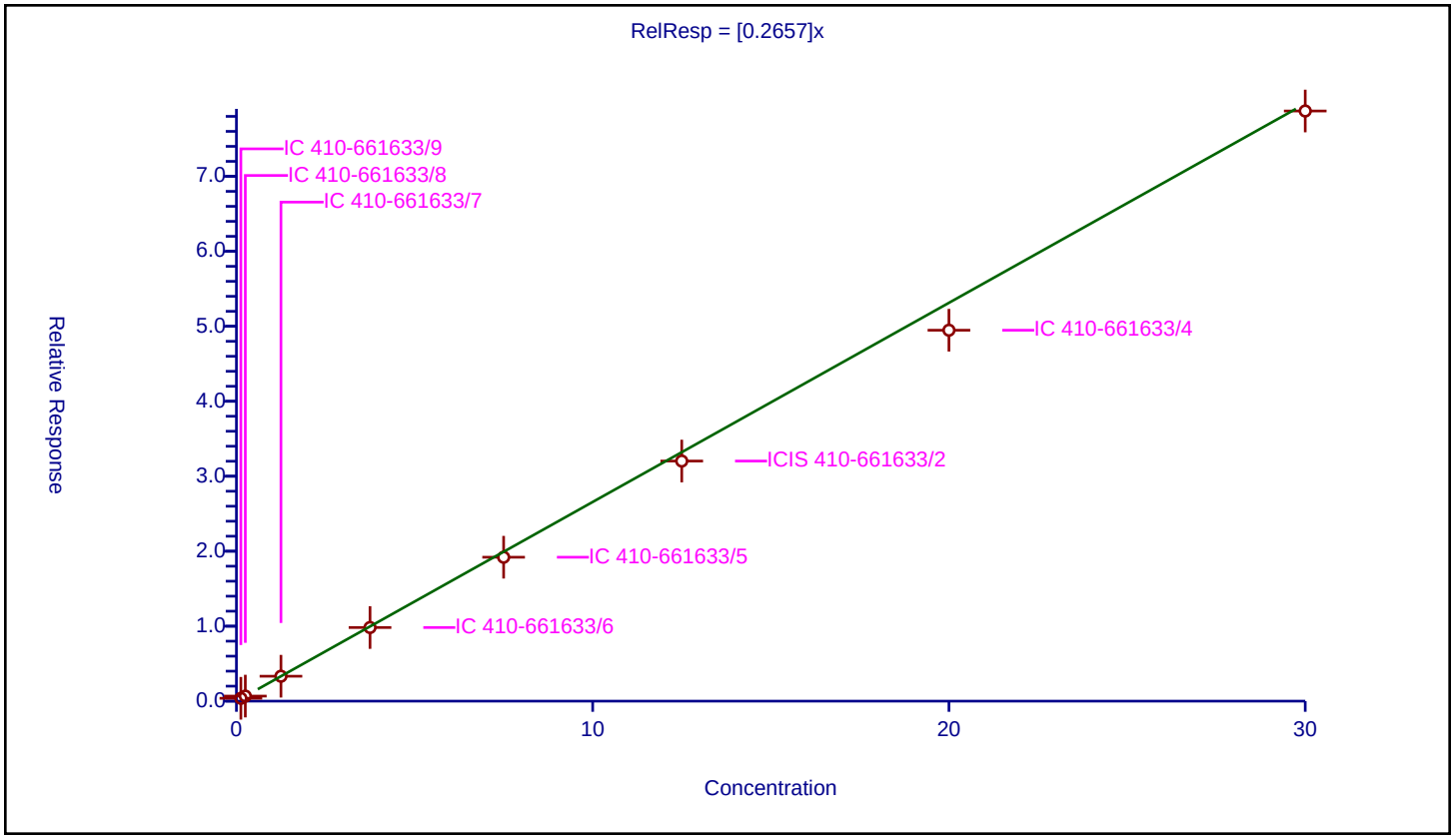
Curve Coefficients

Intercept:	0
Slope:	0.2657

Error Coefficients

Relative Standard Deviation:	6.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.038316	5.0	1010165.0	0.306524	Y
2	IC 410-661633/8	0.25	0.067262	5.0	970825.0	0.26905	Y
3	IC 410-661633/7	1.25	0.332291	5.0	983596.0	0.265833	Y
4	IC 410-661633/6	3.75	0.982052	5.0	1073930.0	0.261881	Y
5	IC 410-661633/5	7.5	1.919604	5.0	1024693.0	0.255947	Y
6	ICIS 410-661633/2	12.5	3.202562	5.0	997272.0	0.256205	Y
7	IC 410-661633/4	20.0	4.947778	5.0	1118695.0	0.247389	Y
8	IC 410-661633/3	30.0	7.871908	5.0	1010504.0	0.262397	Y



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Calibration / Dimethoate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

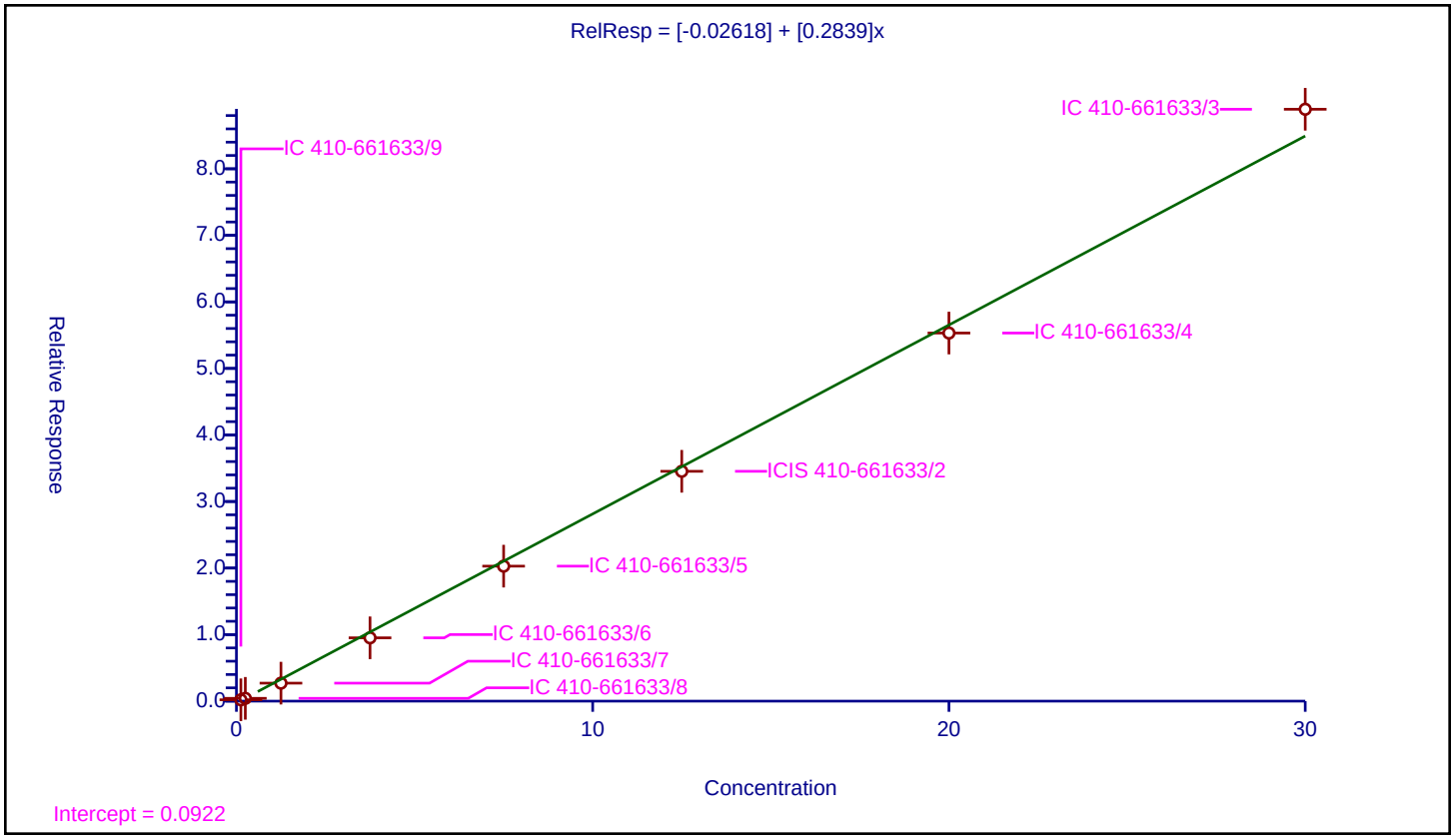
Curve Coefficients

Intercept:	-0.02618
Slope:	0.2839

Error Coefficients

Relative Standard Deviation:	15.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.020393	5.0	1010165.0	0.163142	Y
2	IC 410-661633/8	0.25	0.042155	5.0	970825.0	0.168619	Y
3	IC 410-661633/7	1.25	0.27039	5.0	983596.0	0.216312	Y
4	IC 410-661633/6	3.75	0.951519	5.0	1073930.0	0.253738	Y
5	IC 410-661633/5	7.5	2.028671	5.0	1024693.0	0.270489	Y
6	ICIS 410-661633/2	12.5	3.453912	5.0	997272.0	0.276313	Y
7	IC 410-661633/4	20.0	5.53145	5.0	1118695.0	0.276572	Y
8	IC 410-661633/3	30.0	8.894433	5.0	1010504.0	0.296481	Y



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Calibration / Atrazine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

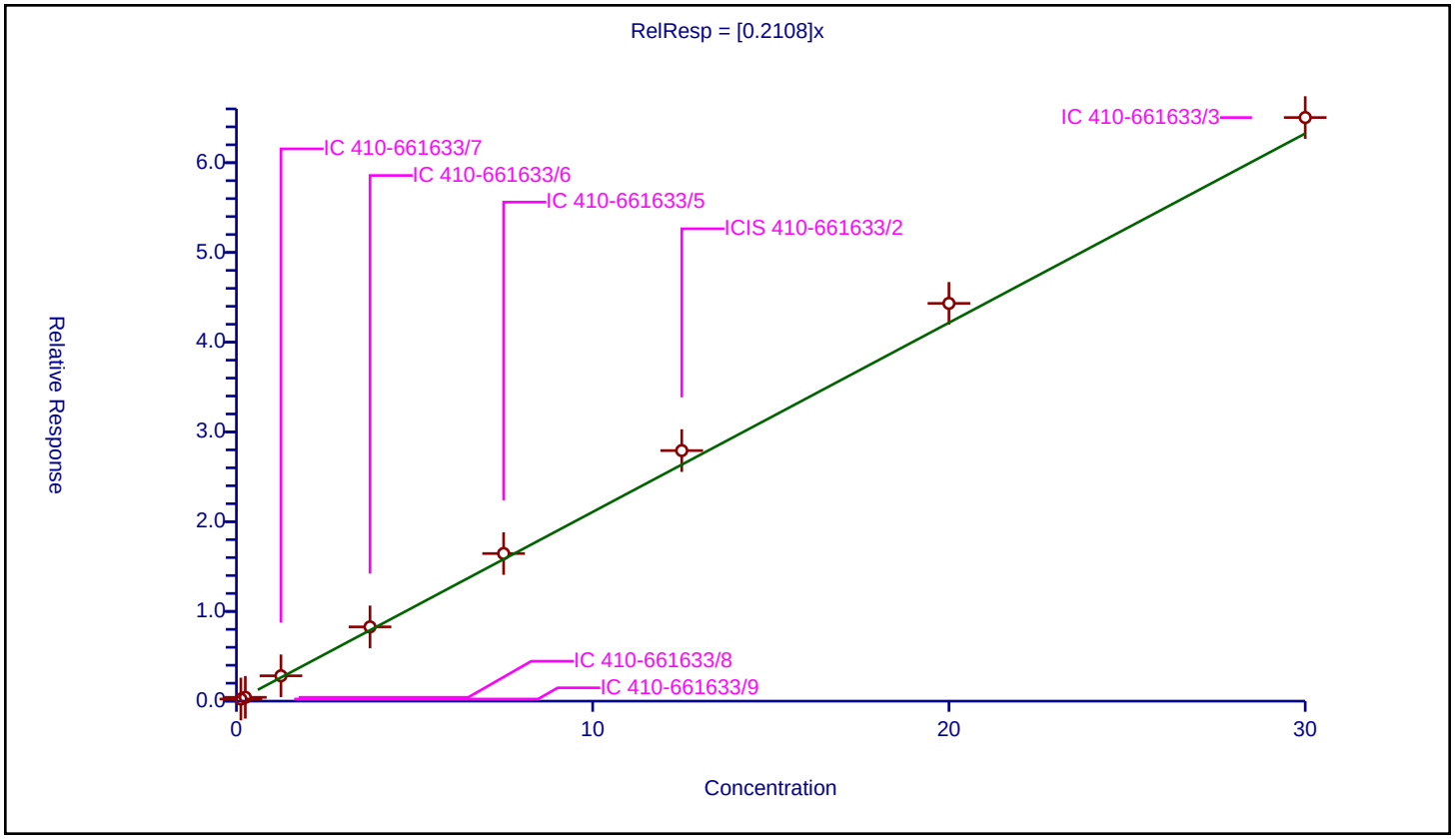
Curve Coefficients

Intercept:	0
Slope:	0.2108

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.023575	5.0	1010165.0	0.188603	Y
2	IC 410-661633/8	0.25	0.042629	5.0	970825.0	0.170515	Y
3	IC 410-661633/7	1.25	0.282275	5.0	983596.0	0.22582	Y
4	IC 410-661633/6	3.75	0.827587	5.0	1073930.0	0.22069	Y
5	IC 410-661633/5	7.5	1.645049	5.0	1024693.0	0.21934	Y
6	ICIS 410-661633/2	12.5	2.792292	5.0	997272.0	0.223383	Y
7	IC 410-661633/4	20.0	4.432772	5.0	1118695.0	0.221639	Y
8	IC 410-661633/3	30.0	6.503576	5.0	1010504.0	0.216786	Y



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Calibration / Pentachlorophenol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

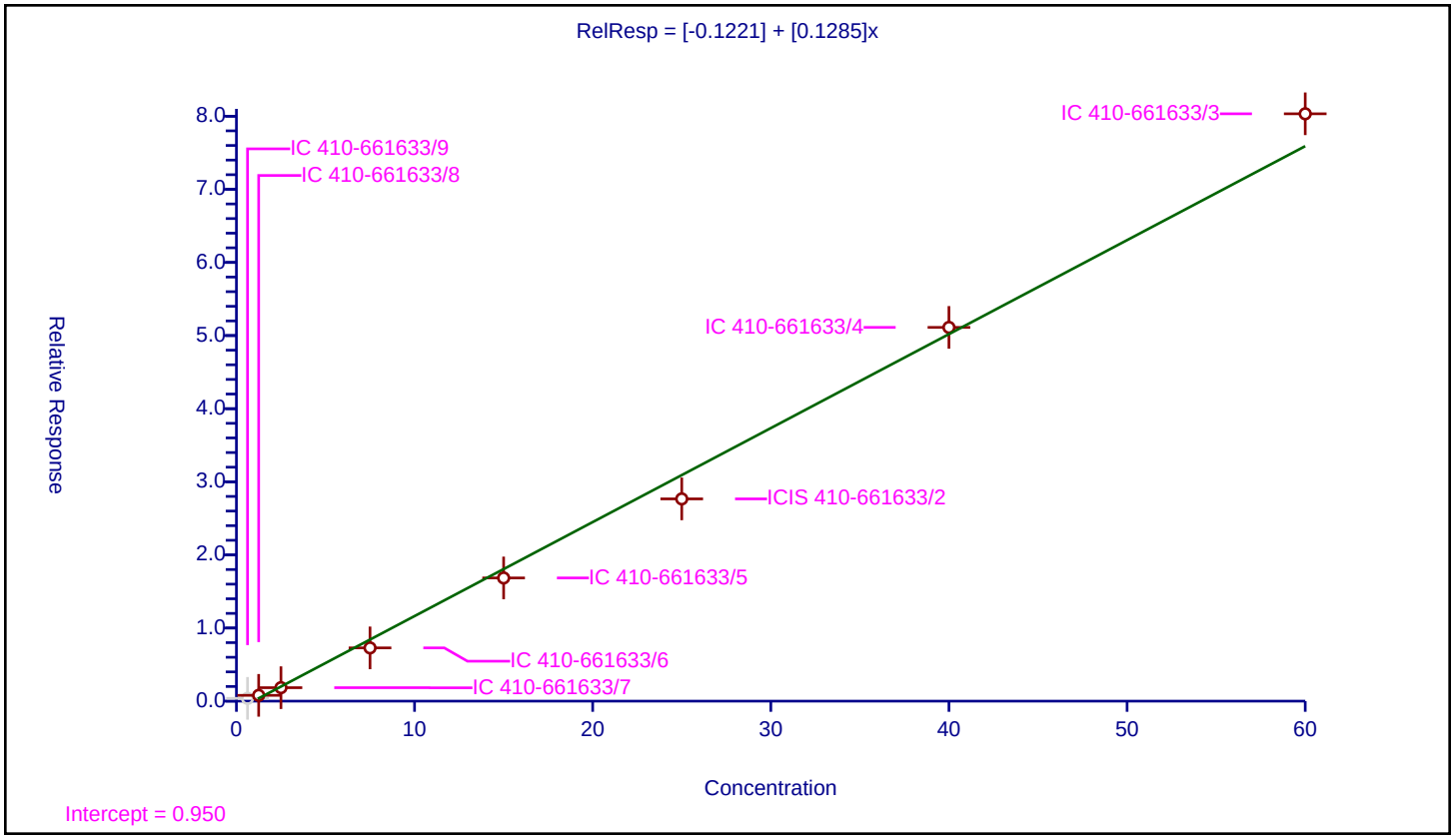
Curve Coefficients

Intercept:	-0.1221
Slope:	0.1285

Error Coefficients

Relative Standard Deviation:	14.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.625	0.037905	5.0	1010165.0	0.060648	N
2	IC 410-661633/8	1.25	0.079319	5.0	970825.0	0.063455	Y
3	IC 410-661633/7	2.5	0.184181	5.0	983596.0	0.073673	Y
4	IC 410-661633/6	7.5	0.72819	5.0	1073930.0	0.097092	Y
5	IC 410-661633/5	15.0	1.685051	5.0	1024693.0	0.112337	Y
6	ICIS 410-661633/2	25.0	2.765895	5.0	997272.0	0.110636	Y
7	IC 410-661633/4	40.0	5.111487	5.0	1118695.0	0.127787	Y
8	IC 410-661633/3	60.0	8.032962	5.0	1010504.0	0.133883	Y



Calibration / 4-Aminobiphenyl

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

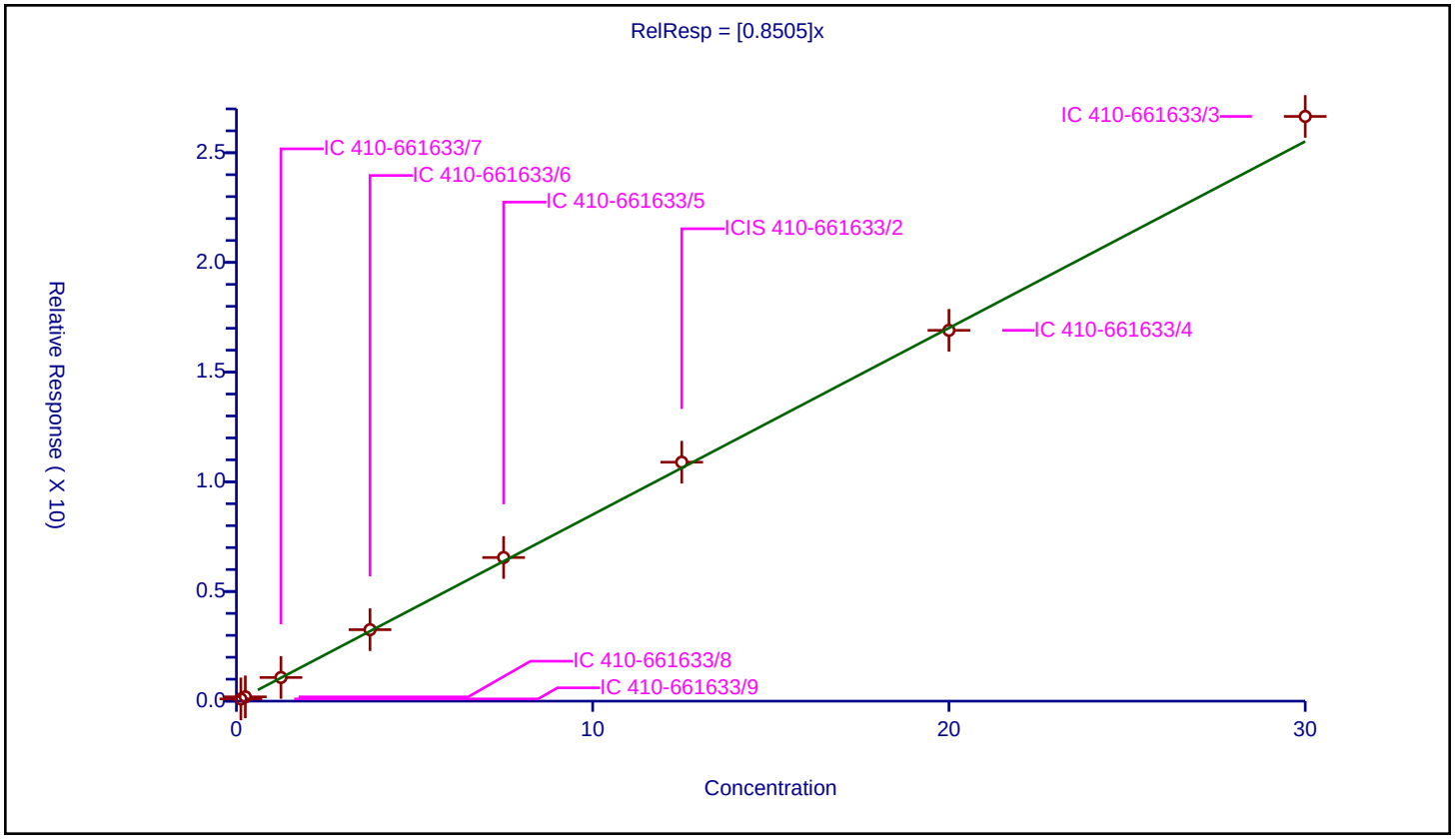
Curve Coefficients

Intercept:	0
Slope:	0.8505

Error Coefficients

Relative Standard Deviation:	4.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.101305	5.0	1010165.0	0.810442	Y
2	IC 410-661633/8	0.25	0.195777	5.0	970825.0	0.783107	Y
3	IC 410-661633/7	1.25	1.079295	5.0	983596.0	0.863436	Y
4	IC 410-661633/6	3.75	3.258346	5.0	1073930.0	0.868892	Y
5	IC 410-661633/5	7.5	6.548166	5.0	1024693.0	0.873089	Y
6	ICIS 410-661633/2	12.5	10.893823	5.0	997272.0	0.871506	Y
7	IC 410-661633/4	20.0	16.905501	5.0	1118695.0	0.845275	Y
8	IC 410-661633/3	30.0	26.656337	5.0	1010504.0	0.888545	Y



Calibration / Pentachloronitrobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

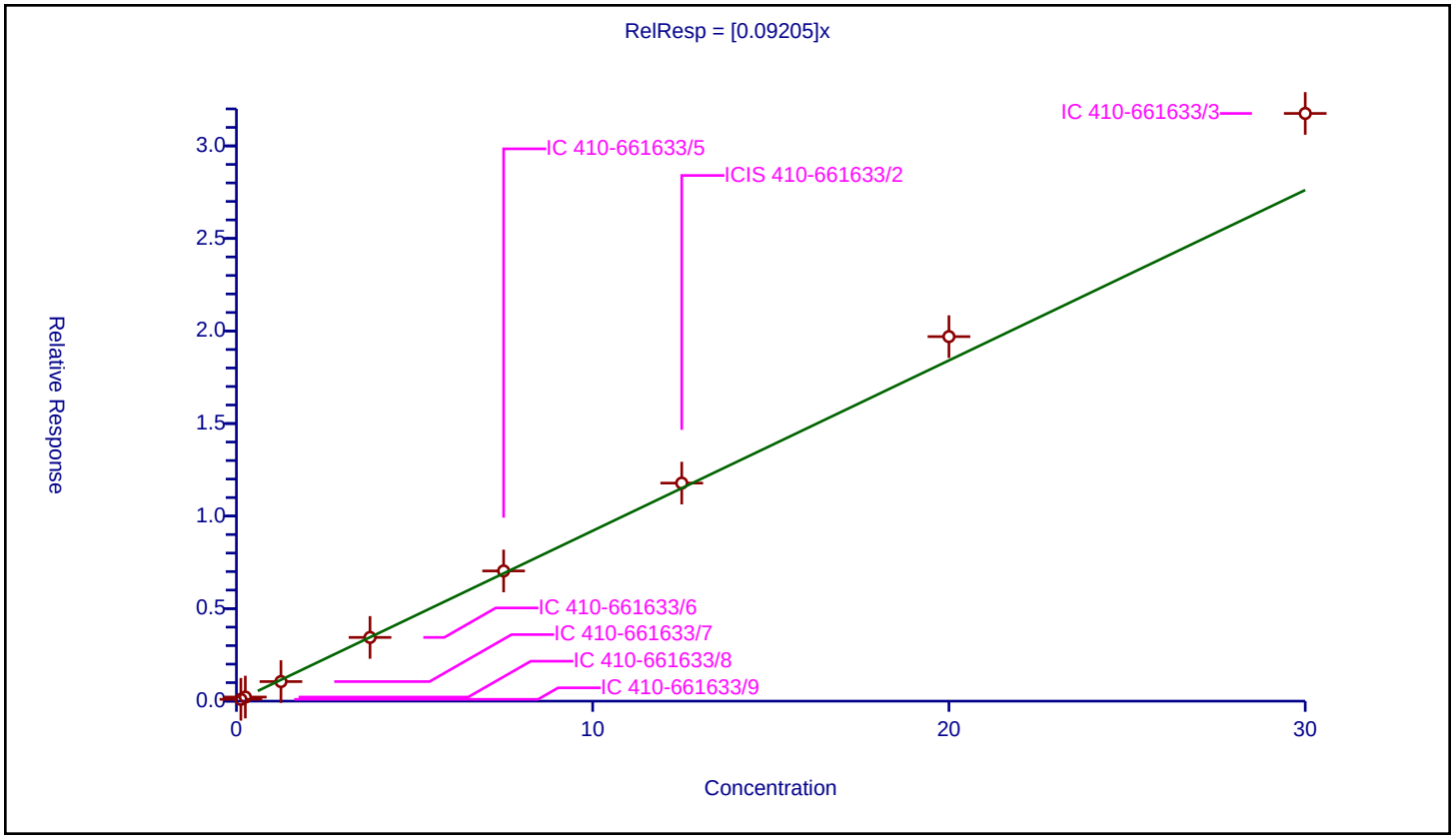
Curve Coefficients

Intercept:	0
Slope:	0.09205

Error Coefficients

Relative Standard Deviation:	8.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.009904	5.0	1010165.0	0.079235	Y
2	IC 410-661633/8	0.25	0.022115	5.0	970825.0	0.088461	Y
3	IC 410-661633/7	1.25	0.105648	5.0	983596.0	0.084518	Y
4	IC 410-661633/6	3.75	0.344292	5.0	1073930.0	0.091811	Y
5	IC 410-661633/5	7.5	0.703479	5.0	1024693.0	0.093797	Y
6	ICIS 410-661633/2	12.5	1.178079	5.0	997272.0	0.094246	Y
7	IC 410-661633/4	20.0	1.969599	5.0	1118695.0	0.09848	Y
8	IC 410-661633/3	30.0	3.17546	5.0	1010504.0	0.105849	Y



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Calibration / Pronamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

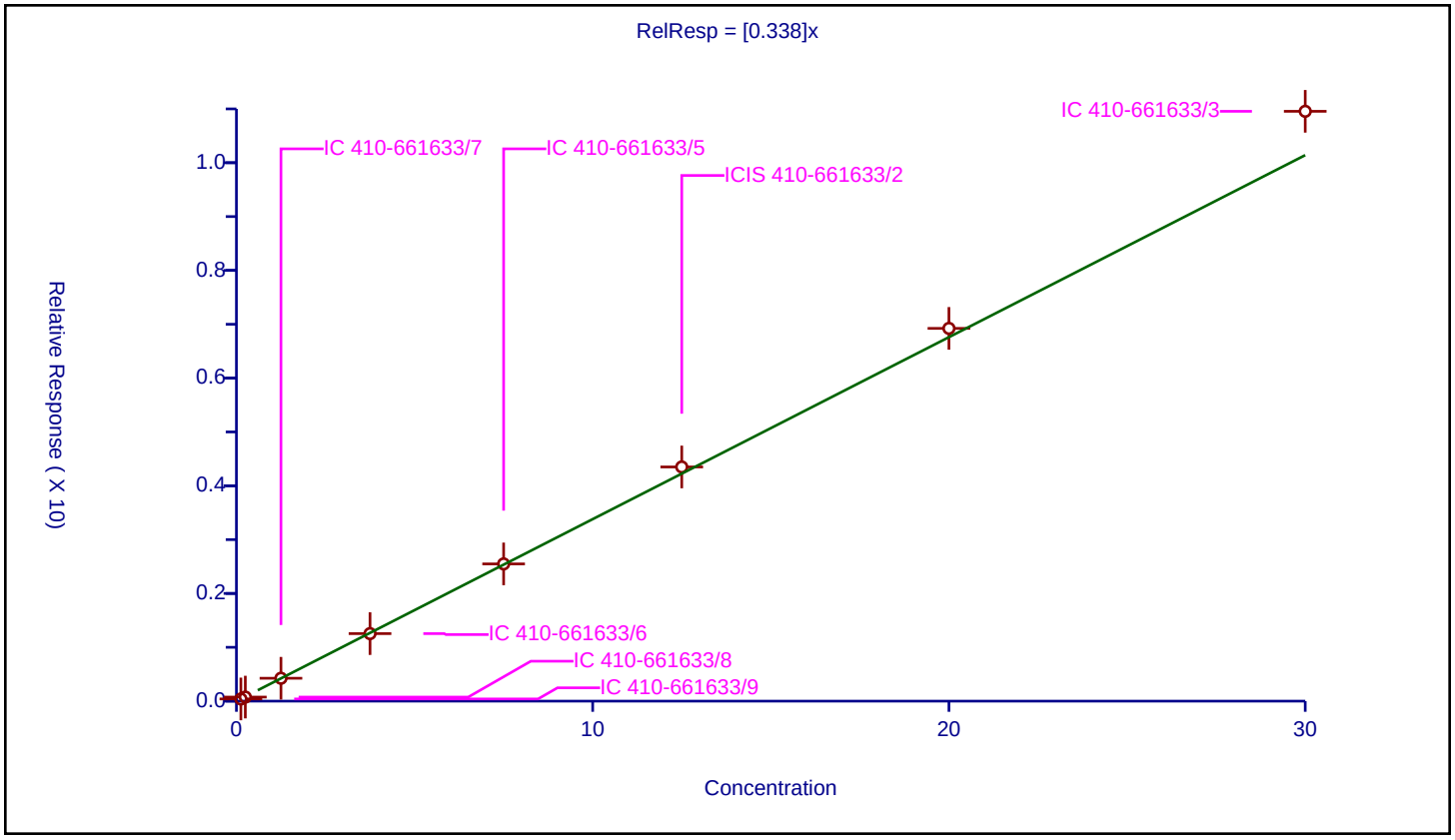
Curve Coefficients

Intercept:	0
Slope:	0.338

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.041028	5.0	1010165.0	0.328224	Y
2	IC 410-661633/8	0.25	0.07557	5.0	970825.0	0.302279	Y
3	IC 410-661633/7	1.25	0.425093	5.0	983596.0	0.340075	Y
4	IC 410-661633/6	3.75	1.25403	5.0	1073930.0	0.334408	Y
5	IC 410-661633/5	7.5	2.548973	5.0	1024693.0	0.339863	Y
6	ICIS 410-661633/2	12.5	4.349616	5.0	997272.0	0.347969	Y
7	IC 410-661633/4	20.0	6.923111	5.0	1118695.0	0.346156	Y
8	IC 410-661633/3	30.0	10.95486	5.0	1010504.0	0.365162	Y



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Calibration / Dinoseb

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

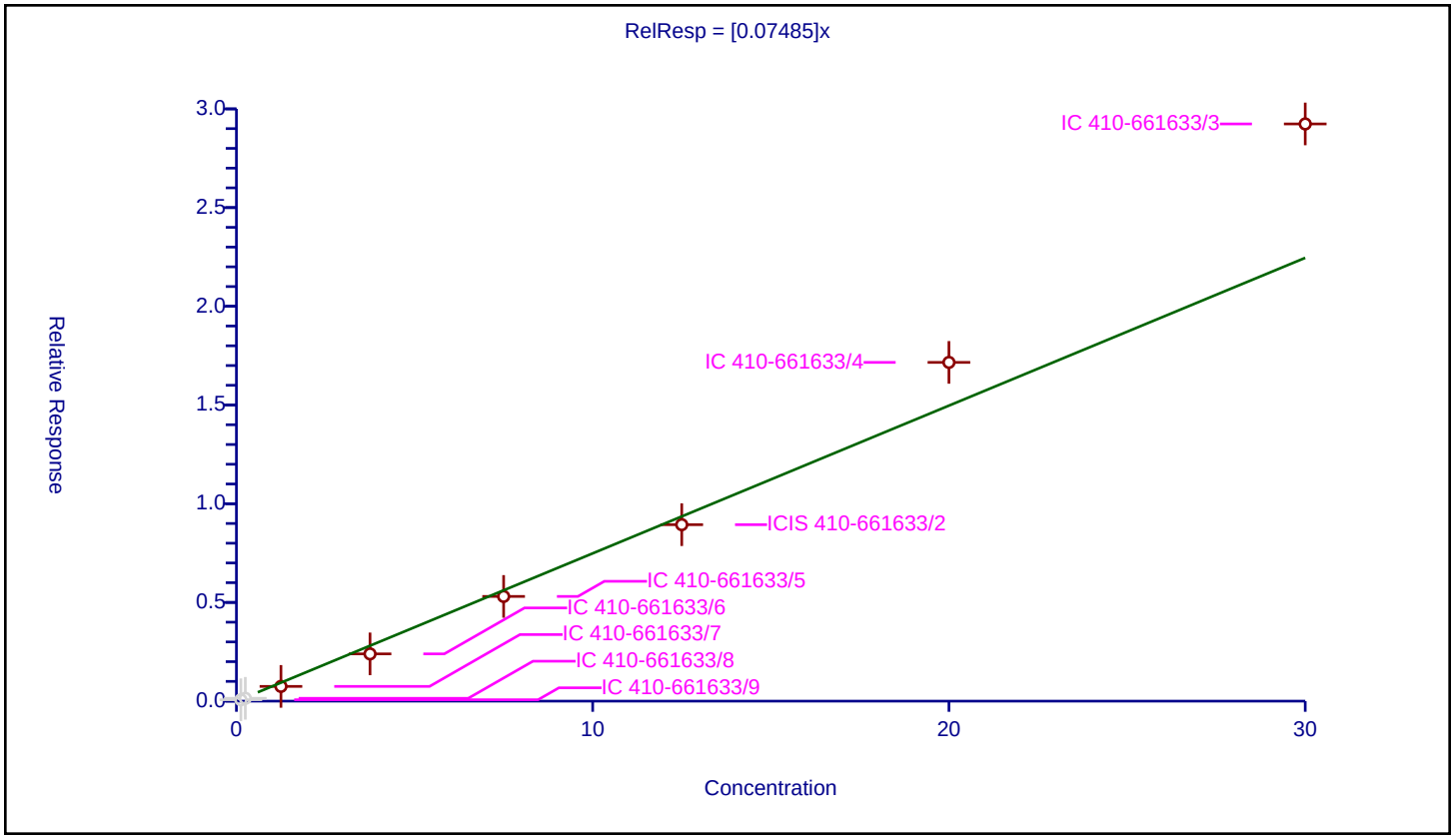
Curve Coefficients

Intercept:	0
Slope:	0.07485

Error Coefficients

Relative Standard Deviation:	19.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.007048	5.0	1010165.0	0.056387	N
2	IC 410-661633/8	0.25	0.014333	5.0	970825.0	0.057333	N
3	IC 410-661633/7	1.25	0.074711	5.0	983596.0	0.059768	Y
4	IC 410-661633/6	3.75	0.239396	5.0	1073930.0	0.063839	Y
5	IC 410-661633/5	7.5	0.530408	5.0	1024693.0	0.070721	Y
6	ICIS 410-661633/2	12.5	0.893863	5.0	997272.0	0.071509	Y
7	IC 410-661633/4	20.0	1.715888	5.0	1118695.0	0.085794	Y
8	IC 410-661633/3	30.0	2.923714	5.0	1010504.0	0.097457	Y



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Calibration / Disulfoton

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

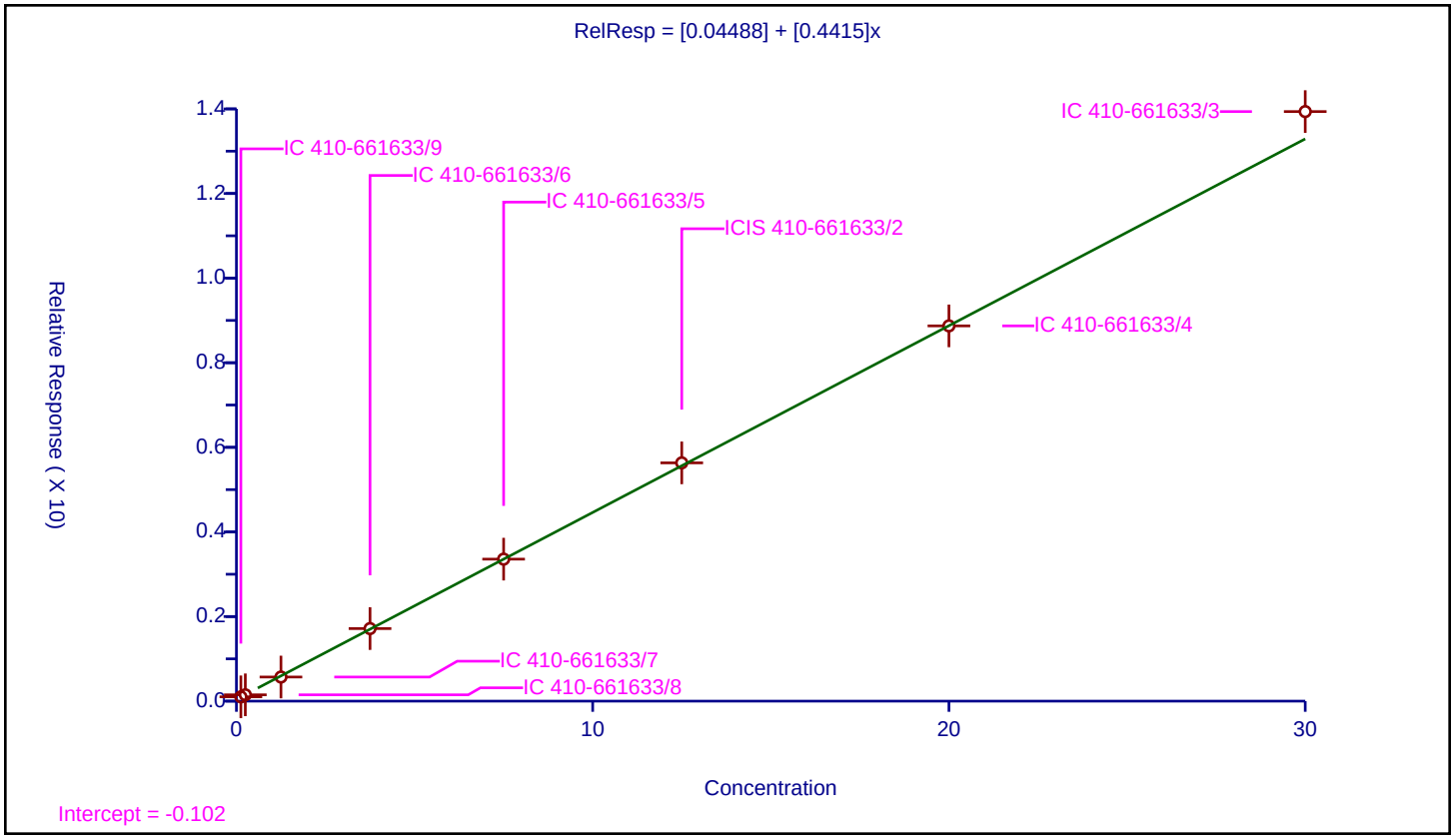
Curve Coefficients

Intercept:	0.04488
Slope:	0.4415

Error Coefficients

Relative Standard Deviation:	3.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.101691	5.0	1010165.0	0.81353	Y
2	IC 410-661633/8	0.25	0.149739	5.0	970825.0	0.598954	Y
3	IC 410-661633/7	1.25	0.569858	5.0	983596.0	0.455886	Y
4	IC 410-661633/6	3.75	1.715075	5.0	1073930.0	0.457353	Y
5	IC 410-661633/5	7.5	3.356469	5.0	1024693.0	0.447529	Y
6	ICIS 410-661633/2	12.5	5.632681	5.0	997272.0	0.450614	Y
7	IC 410-661633/4	20.0	8.870809	5.0	1118695.0	0.44354	Y
8	IC 410-661633/3	30.0	13.936407	5.0	1010504.0	0.464547	Y



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Calibration / Phenanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

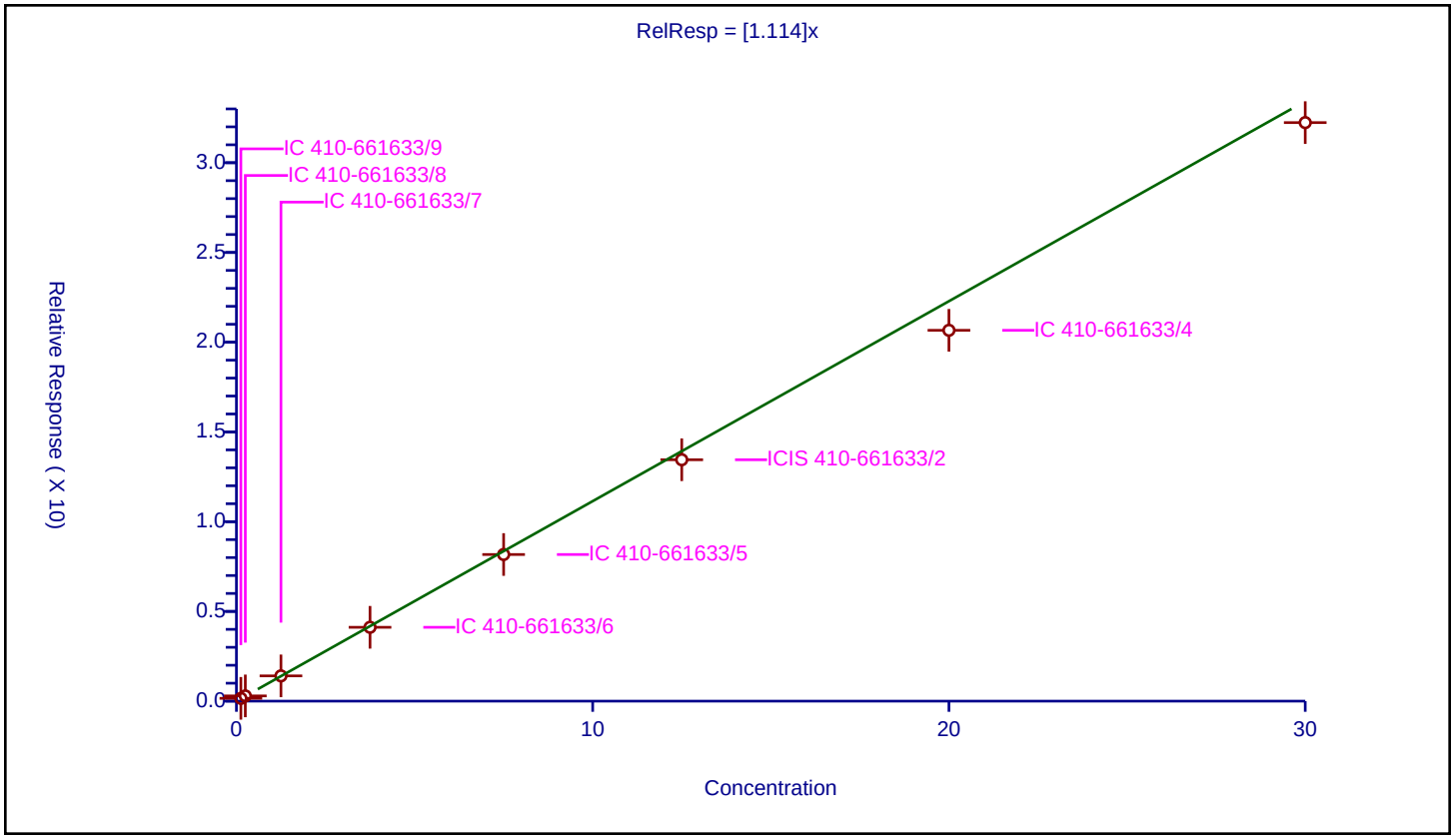
Curve Coefficients

Intercept:	0
Slope:	1.114

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.156707	5.0	1010165.0	1.253657	Y
2	IC 410-661633/8	0.25	0.290871	5.0	970825.0	1.163485	Y
3	IC 410-661633/7	1.25	1.408043	5.0	983596.0	1.126434	Y
4	IC 410-661633/6	3.75	4.114677	5.0	1073930.0	1.097247	Y
5	IC 410-661633/5	7.5	8.171038	5.0	1024693.0	1.089472	Y
6	ICIS 410-661633/2	12.5	13.450914	5.0	997272.0	1.076073	Y
7	IC 410-661633/4	20.0	20.662821	5.0	1118695.0	1.033141	Y
8	IC 410-661633/3	30.0	32.236117	5.0	1010504.0	1.074537	Y



Calibration / Anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

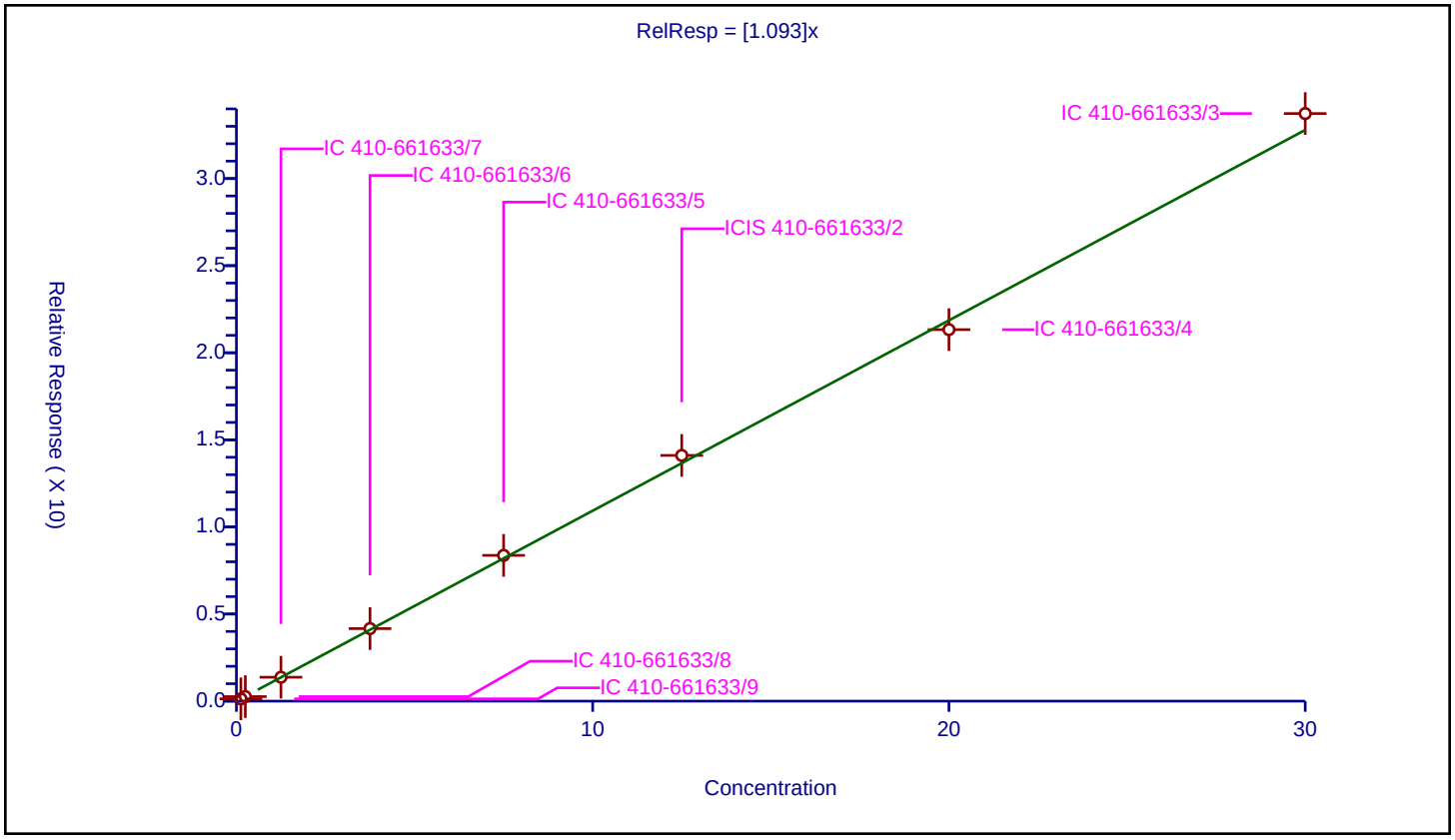
Curve Coefficients

Intercept:	0
Slope:	1.093

Error Coefficients

Relative Standard Deviation:	3.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.132518	5.0	1010165.0	1.060144	Y
2	IC 410-661633/8	0.25	0.260062	5.0	970825.0	1.040249	Y
3	IC 410-661633/7	1.25	1.372011	5.0	983596.0	1.097609	Y
4	IC 410-661633/6	3.75	4.164787	5.0	1073930.0	1.11061	Y
5	IC 410-661633/5	7.5	8.367804	5.0	1024693.0	1.115707	Y
6	ICIS 410-661633/2	12.5	14.105921	5.0	997272.0	1.128474	Y
7	IC 410-661633/4	20.0	21.327533	5.0	1118695.0	1.066377	Y
8	IC 410-661633/3	30.0	33.732261	5.0	1010504.0	1.124409	Y



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Calibration / Carbazole

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

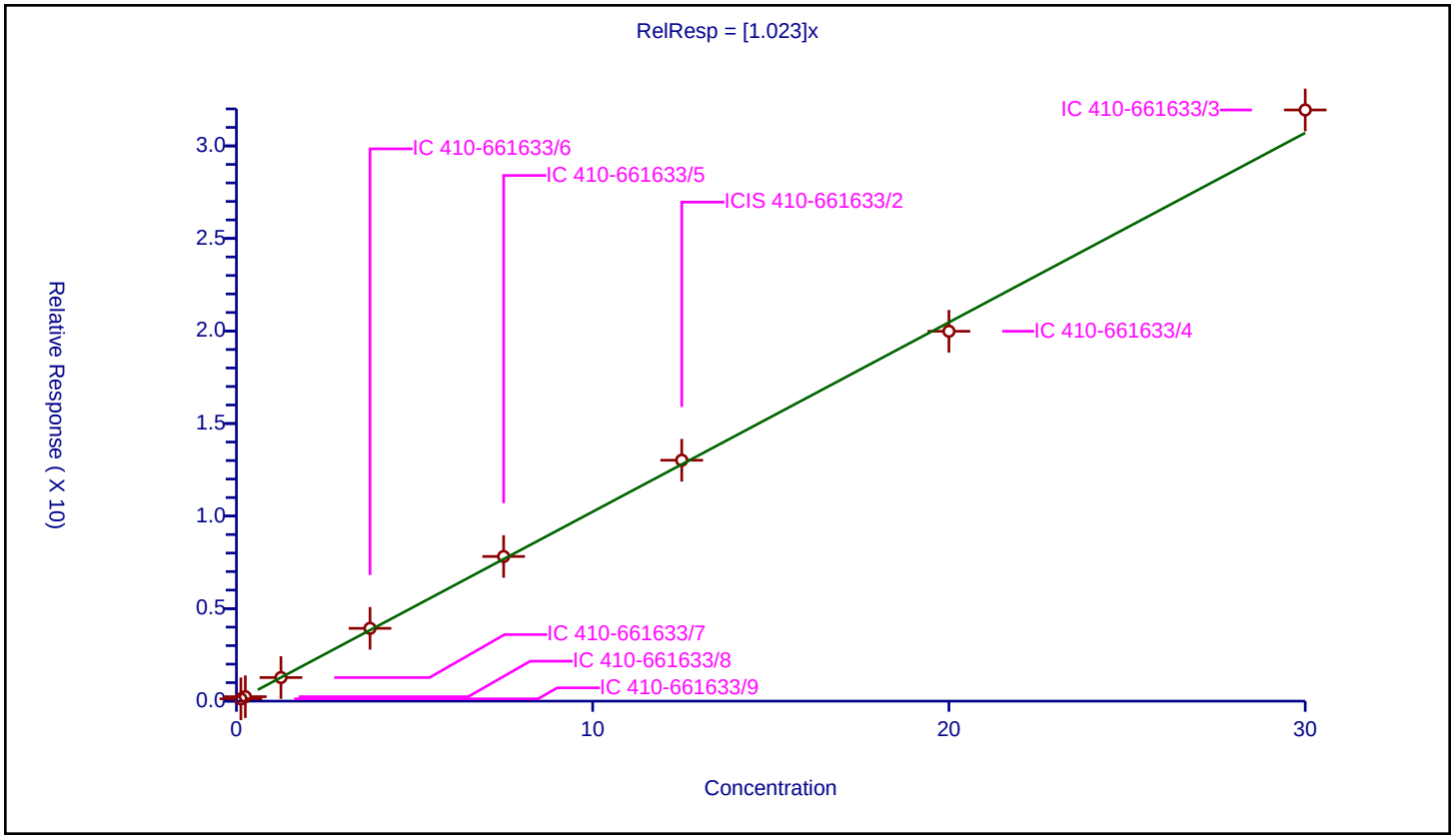
Curve Coefficients

Intercept:	0
Slope:	1.023

Error Coefficients

Relative Standard Deviation:	3.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.126153	5.0	1010165.0	1.009221	Y
2	IC 410-661633/8	0.25	0.240605	5.0	970825.0	0.962419	Y
3	IC 410-661633/7	1.25	1.273785	5.0	983596.0	1.019028	Y
4	IC 410-661633/6	3.75	3.934158	5.0	1073930.0	1.049109	Y
5	IC 410-661633/5	7.5	7.815931	5.0	1024693.0	1.042124	Y
6	ICIS 410-661633/2	12.5	13.017497	5.0	997272.0	1.0414	Y
7	IC 410-661633/4	20.0	19.984831	5.0	1118695.0	0.999242	Y
8	IC 410-661633/3	30.0	31.942605	5.0	1010504.0	1.064753	Y



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Calibration / Methyl parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

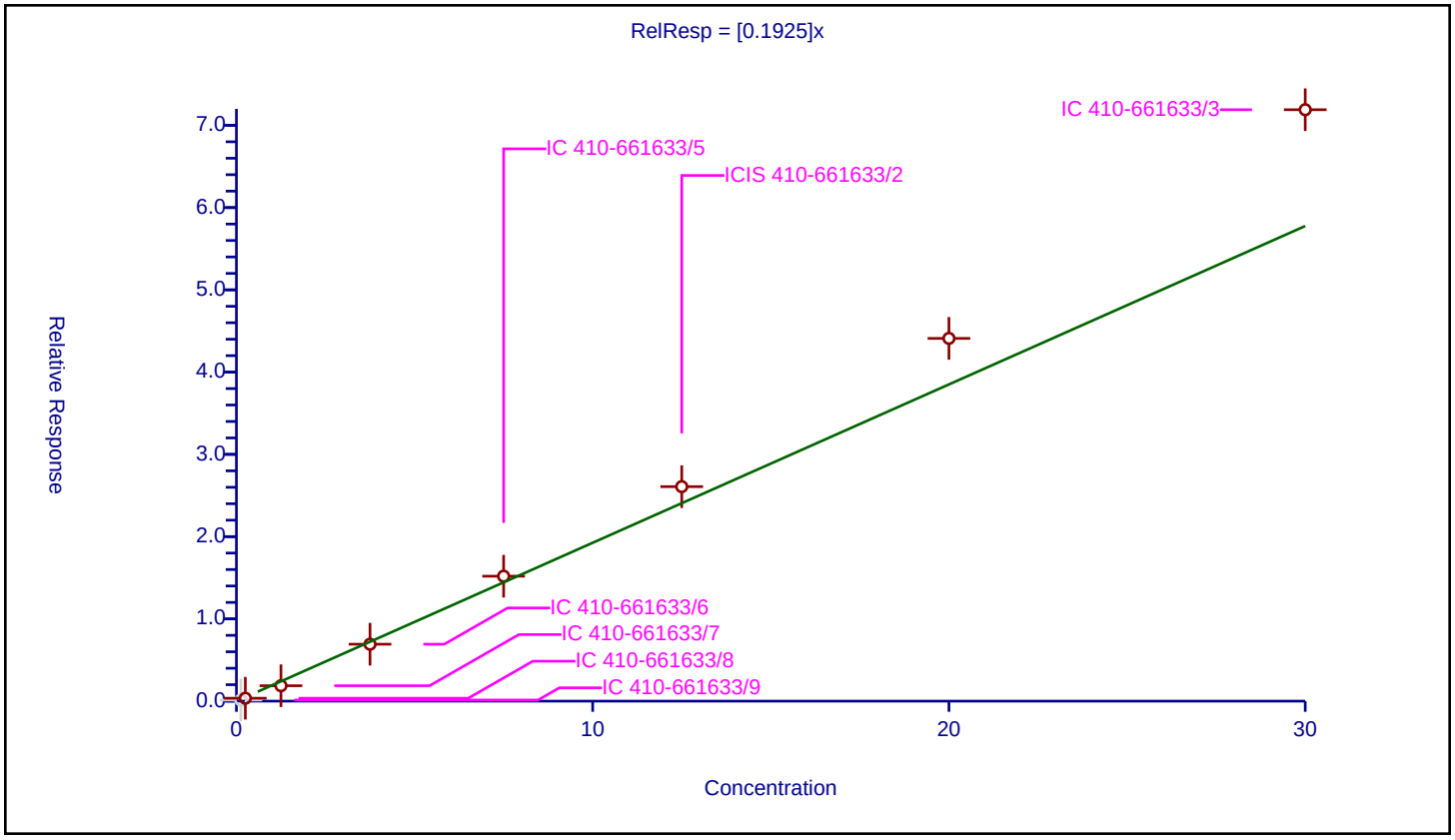
Curve Coefficients

Intercept:	0
Slope:	0.1925

Error Coefficients

Relative Standard Deviation:	18.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.013537	5.0	1010165.0	0.108299	N
2	IC 410-661633/8	0.25	0.035506	5.0	970825.0	0.142024	Y
3	IC 410-661633/7	1.25	0.187262	5.0	983596.0	0.149809	Y
4	IC 410-661633/6	3.75	0.692098	5.0	1073930.0	0.18456	Y
5	IC 410-661633/5	7.5	1.518928	5.0	1024693.0	0.202524	Y
6	ICIS 410-661633/2	12.5	2.607568	5.0	997272.0	0.208605	Y
7	IC 410-661633/4	20.0	4.409736	5.0	1118695.0	0.220487	Y
8	IC 410-661633/3	30.0	7.189823	5.0	1010504.0	0.239661	Y



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Calibration / Di-n-butyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

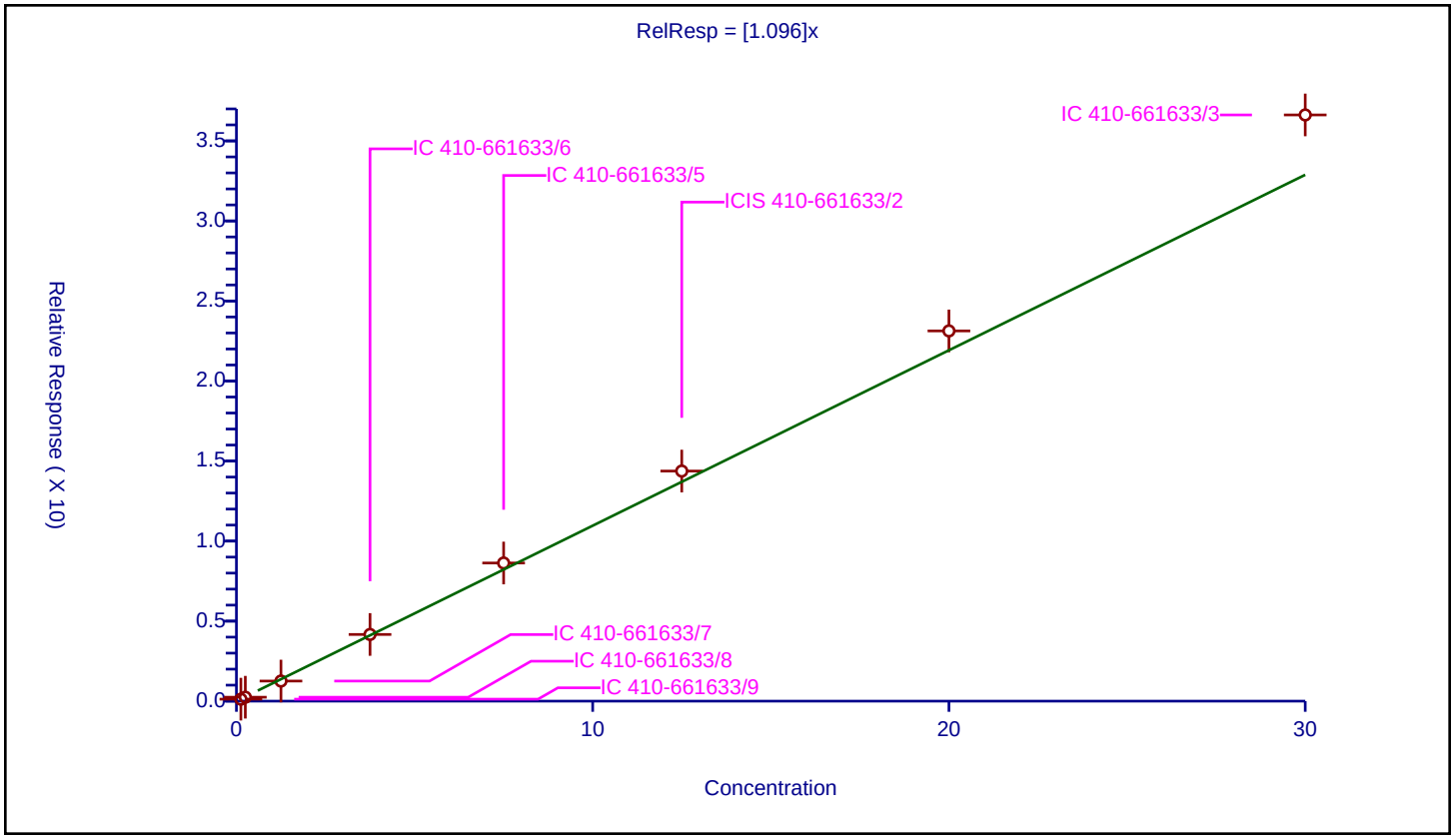
Curve Coefficients

Intercept:	0
Slope:	1.096

Error Coefficients

Relative Standard Deviation:	8.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.123772	5.0	1010165.0	0.990175	Y
2	IC 410-661633/8	0.25	0.246157	5.0	970825.0	0.984626	Y
3	IC 410-661633/7	1.25	1.256085	5.0	983596.0	1.004868	Y
4	IC 410-661633/6	3.75	4.165961	5.0	1073930.0	1.110923	Y
5	IC 410-661633/5	7.5	8.629785	5.0	1024693.0	1.150638	Y
6	ICIS 410-661633/2	12.5	14.374524	5.0	997272.0	1.149962	Y
7	IC 410-661633/4	20.0	23.129781	5.0	1118695.0	1.156489	Y
8	IC 410-661633/3	30.0	36.622413	5.0	1010504.0	1.220747	Y



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Calibration / Ethyl Parathion

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

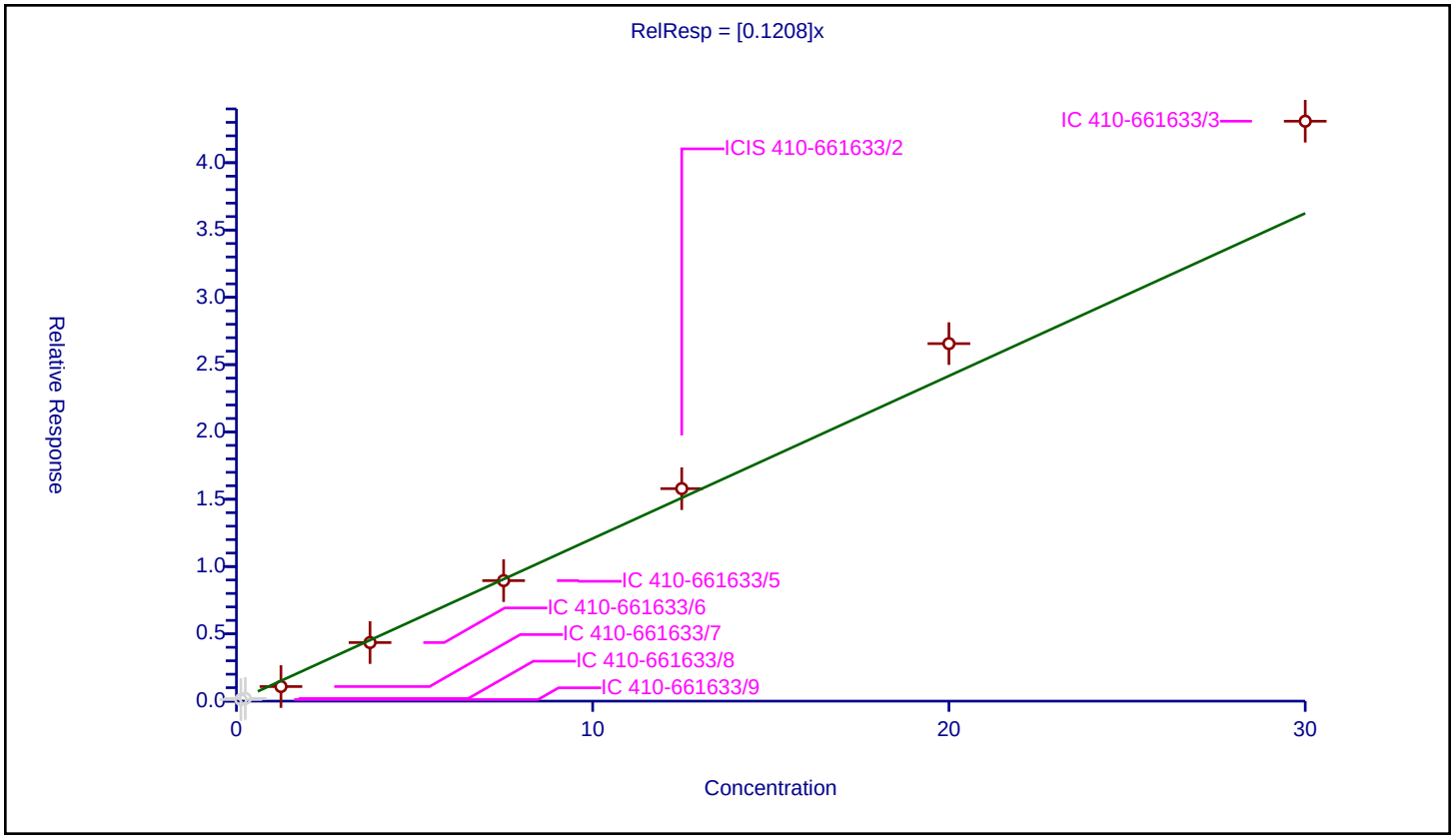
Curve Coefficients

Intercept:	0
Slope:	0.1208

Error Coefficients

Relative Standard Deviation:	16.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.011741	5.0	1010165.0	0.093925	N
2	IC 410-661633/8	0.25	0.019602	5.0	970825.0	0.078408	N
3	IC 410-661633/7	1.25	0.108363	5.0	983596.0	0.08669	Y
4	IC 410-661633/6	3.75	0.435312	5.0	1073930.0	0.116083	Y
5	IC 410-661633/5	7.5	0.895249	5.0	1024693.0	0.119366	Y
6	ICIS 410-661633/2	12.5	1.578797	5.0	997272.0	0.126304	Y
7	IC 410-661633/4	20.0	2.656055	5.0	1118695.0	0.132803	Y
8	IC 410-661633/3	30.0	4.308588	5.0	1010504.0	0.14362	Y



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Calibration / 4-Nitroquinoline-1-oxide

Curve Type:	Quadratic
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

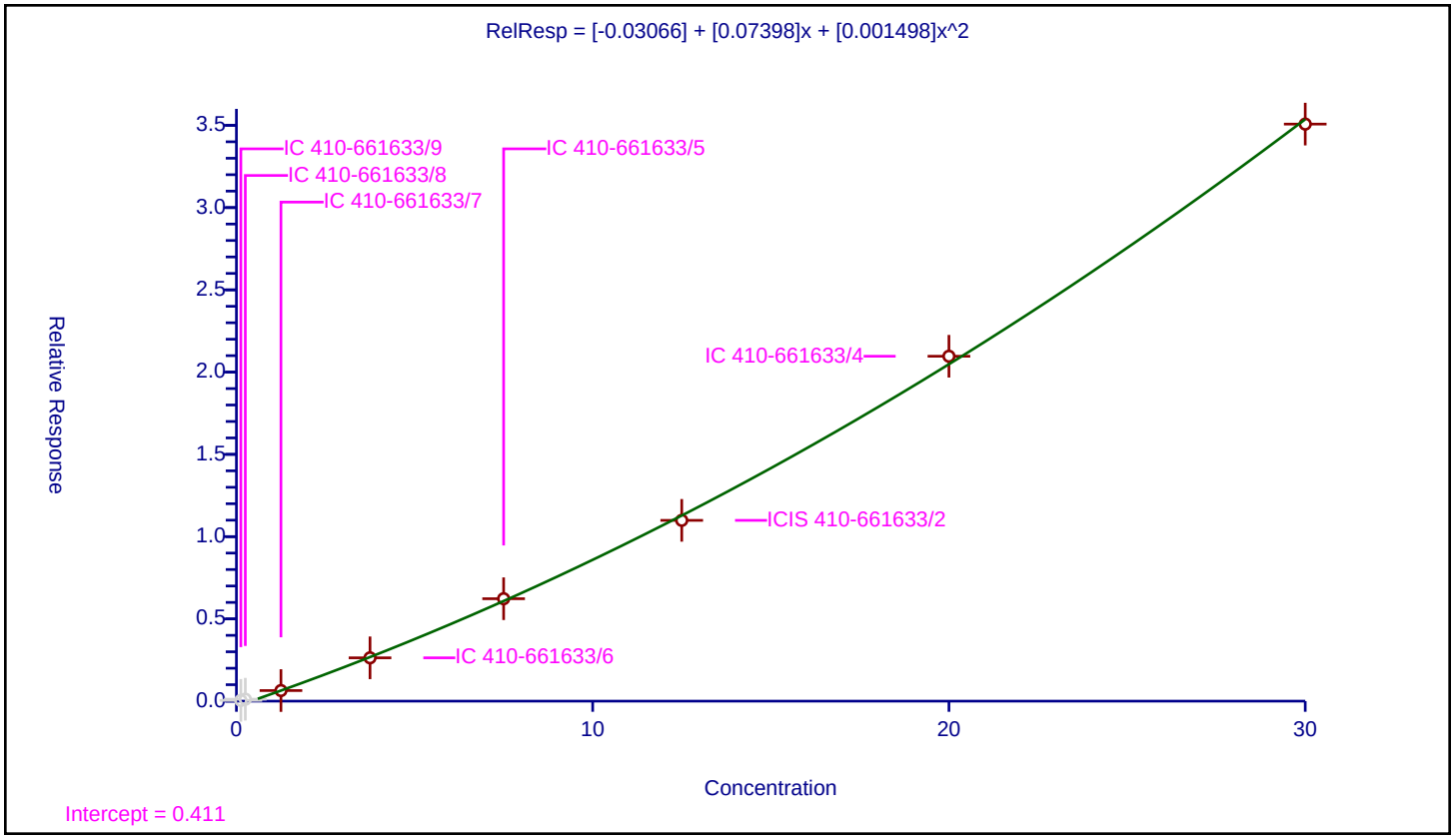
Curve Coefficients

Intercept:	-0.03066
Slope:	0.07398
Second Order:	0.001498

Error Coefficients

Relative Standard Deviation:	2.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.004638	5.0	1010165.0	0.037103	N
2	IC 410-661633/8	0.25	0.011717	5.0	970825.0	0.046867	N
3	IC 410-661633/7	1.25	0.064427	5.0	983596.0	0.051541	Y
4	IC 410-661633/6	3.75	0.263337	5.0	1073930.0	0.070223	Y
5	IC 410-661633/5	7.5	0.622508	5.0	1024693.0	0.083001	Y
6	ICIS 410-661633/2	12.5	1.098883	5.0	997272.0	0.087911	Y
7	IC 410-661633/4	20.0	2.096519	5.0	1118695.0	0.104826	Y
8	IC 410-661633/3	30.0	3.507586	5.0	1010504.0	0.11692	Y



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Calibration / Octachlorostyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

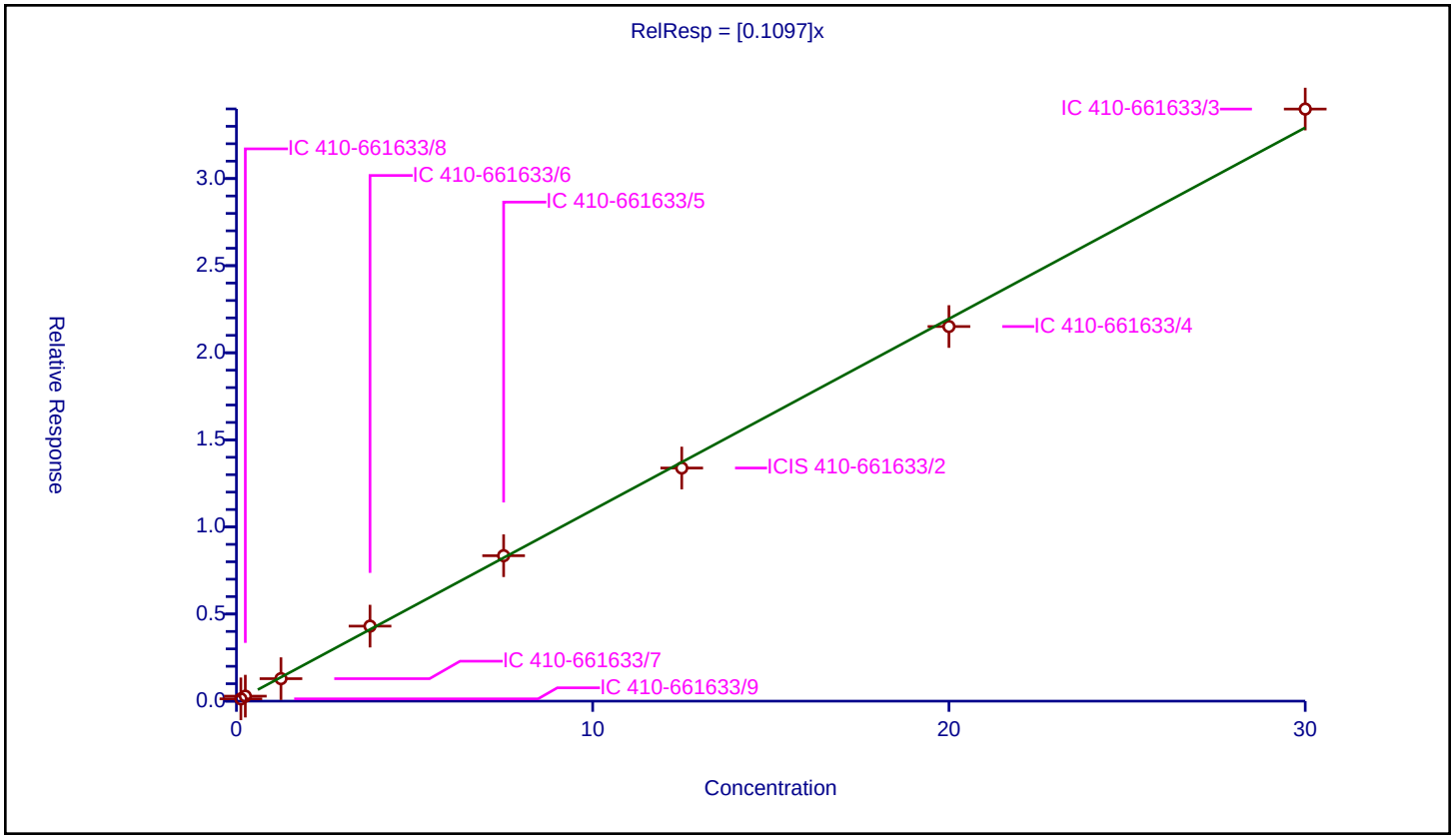
Curve Coefficients

Intercept:	0
Slope:	0.1097

Error Coefficients

Relative Standard Deviation:	4.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.013231	5.0	1010165.0	0.105844	Y
2	IC 410-661633/8	0.25	0.028697	5.0	970825.0	0.114789	Y
3	IC 410-661633/7	1.25	0.129042	5.0	983596.0	0.103233	Y
4	IC 410-661633/6	3.75	0.43061	5.0	1073930.0	0.114829	Y
5	IC 410-661633/5	7.5	0.834987	5.0	1024693.0	0.111332	Y
6	ICIS 410-661633/2	12.5	1.338266	5.0	997272.0	0.107061	Y
7	IC 410-661633/4	20.0	2.150613	5.0	1118695.0	0.107531	Y
8	IC 410-661633/3	30.0	3.399046	5.0	1010504.0	0.113302	Y



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Calibration / Isodrin

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

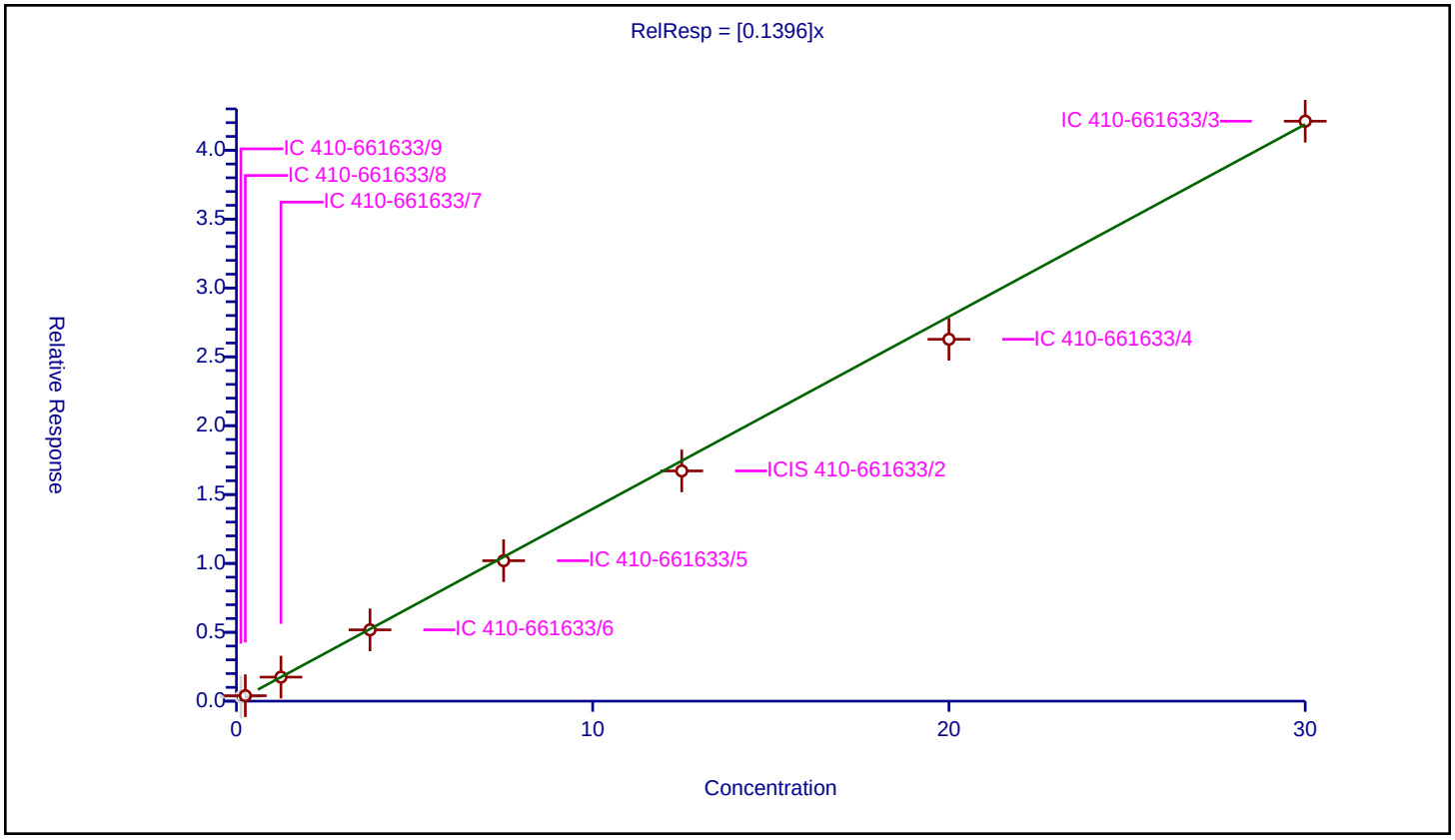
Curve Coefficients

Intercept:	0
Slope:	0.1396

Error Coefficients

Relative Standard Deviation:	6.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.031089	5.0	1010165.0	0.248712	N
2	IC 410-661633/8	0.25	0.039513	5.0	970825.0	0.158051	Y
3	IC 410-661633/7	1.25	0.174569	5.0	983596.0	0.139655	Y
4	IC 410-661633/6	3.75	0.517534	5.0	1073930.0	0.138009	Y
5	IC 410-661633/5	7.5	1.019642	5.0	1024693.0	0.135952	Y
6	ICIS 410-661633/2	12.5	1.671445	5.0	997272.0	0.133716	Y
7	IC 410-661633/4	20.0	2.627293	5.0	1118695.0	0.131365	Y
8	IC 410-661633/3	30.0	4.210617	5.0	1010504.0	0.140354	Y



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Calibration / Fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

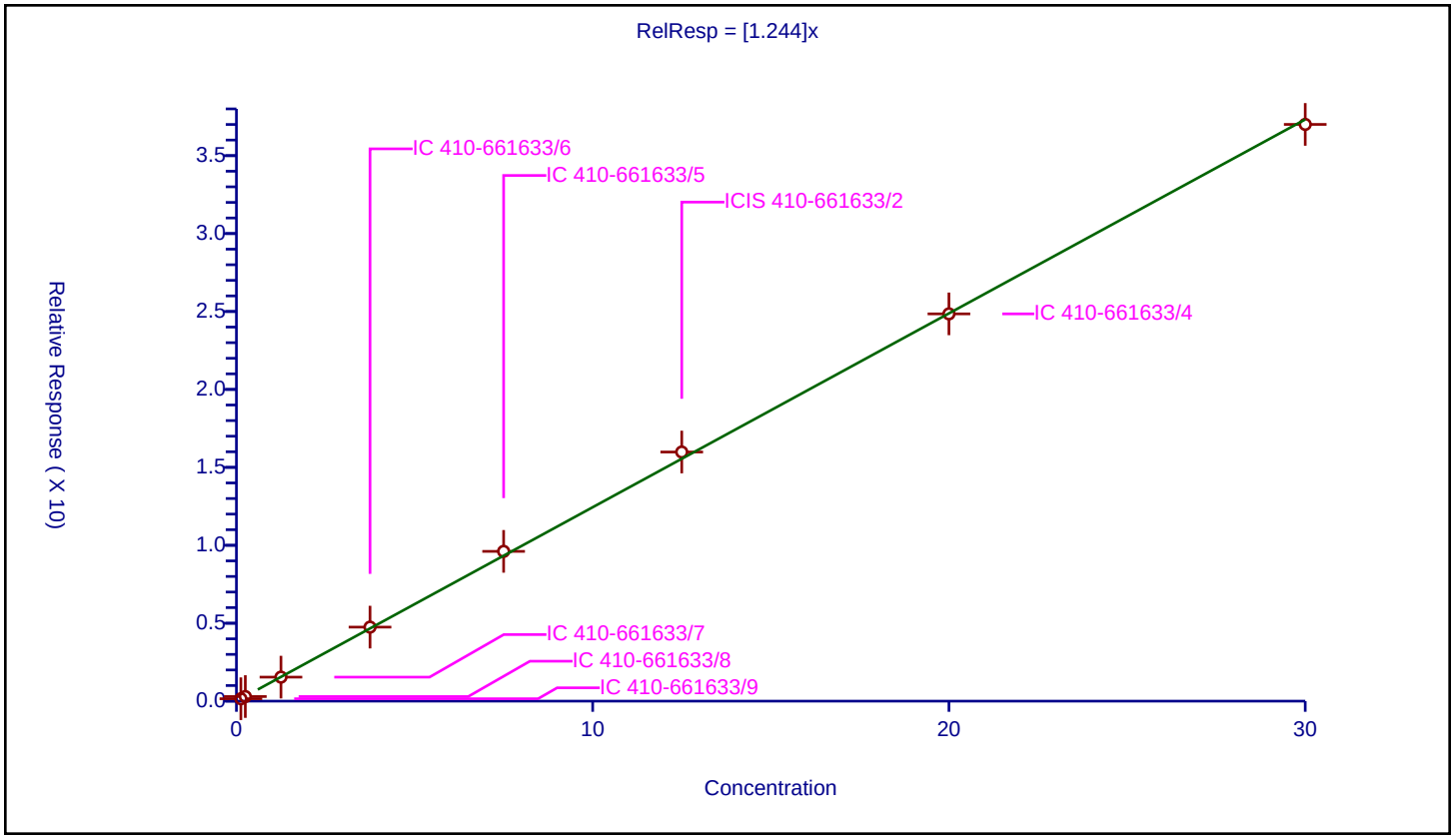
Curve Coefficients

Intercept:	0
Slope:	1.244

Error Coefficients

Relative Standard Deviation:	2.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.154871	5.0	1010165.0	1.238966	Y
2	IC 410-661633/8	0.25	0.294533	5.0	970825.0	1.178132	Y
3	IC 410-661633/7	1.25	1.540678	5.0	983596.0	1.232543	Y
4	IC 410-661633/6	3.75	4.749686	5.0	1073930.0	1.266583	Y
5	IC 410-661633/5	7.5	9.610761	5.0	1024693.0	1.281435	Y
6	ICIS 410-661633/2	12.5	15.983899	5.0	997272.0	1.278712	Y
7	IC 410-661633/4	20.0	24.848095	5.0	1118695.0	1.242405	Y
8	IC 410-661633/3	30.0	37.004322	5.0	1010504.0	1.233477	Y



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Calibration / Benzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

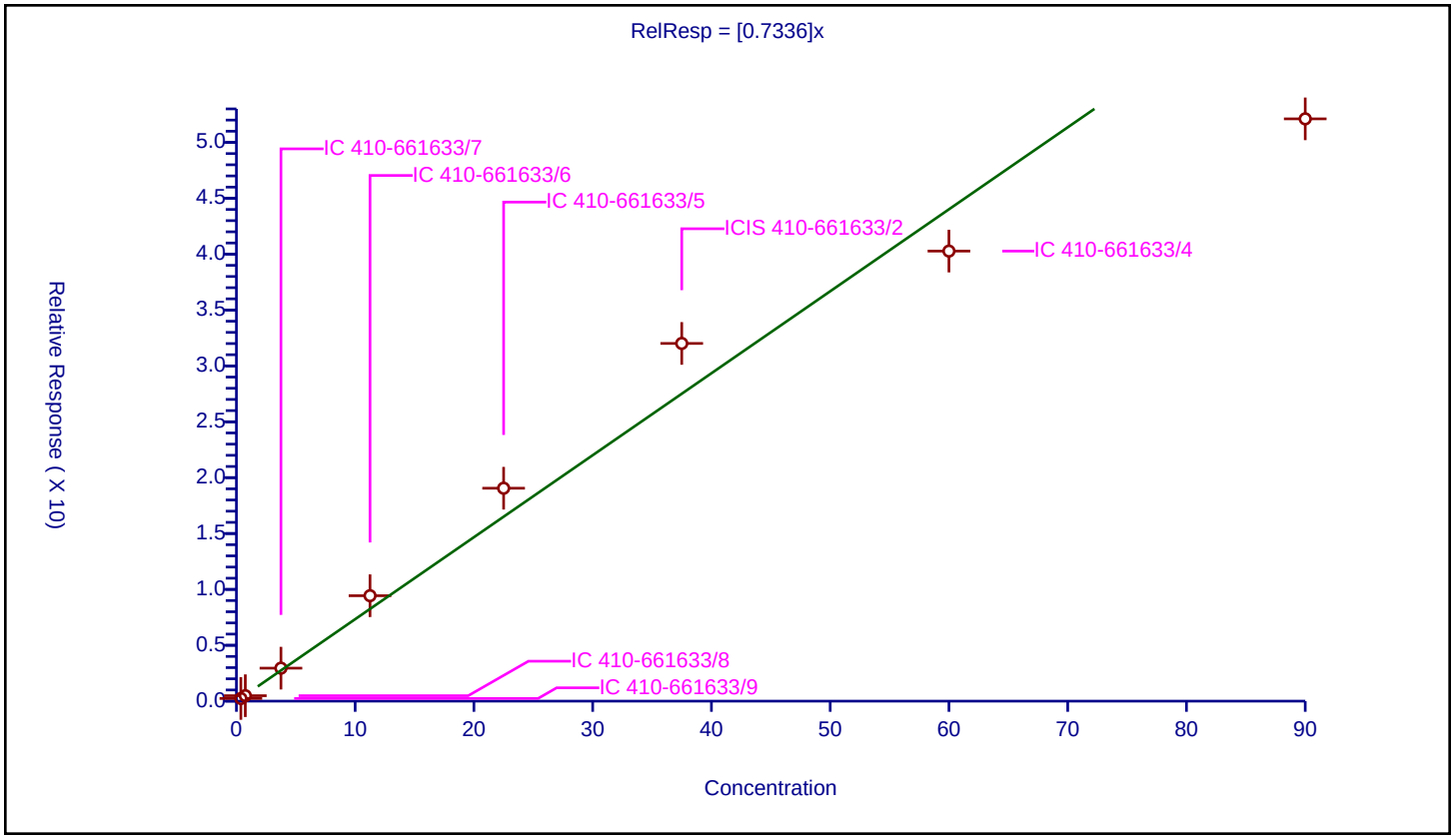
Curve Coefficients

Intercept:	0
Slope:	0.7336

Error Coefficients

Relative Standard Deviation:	15.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.375	0.240708	5.0	1095497.0	0.641888	Y
2	IC 410-661633/8	0.75	0.487629	5.0	1050696.0	0.650172	Y
3	IC 410-661633/7	3.75	2.951105	5.0	1113161.0	0.786961	Y
4	IC 410-661633/6	11.25	9.435072	5.0	1225457.0	0.838673	Y
5	IC 410-661633/5	22.5	19.055322	5.0	1183610.0	0.846903	Y
6	ICIS 410-661633/2	37.5	32.010817	5.0	1134927.0	0.853622	Y
7	IC 410-661633/4	60.0	40.275018	5.0	1217175.0	0.67125	Y
8	IC 410-661633/3	90.0	52.109031	5.0	1092082.0	0.578989	Y



Calibration / Pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

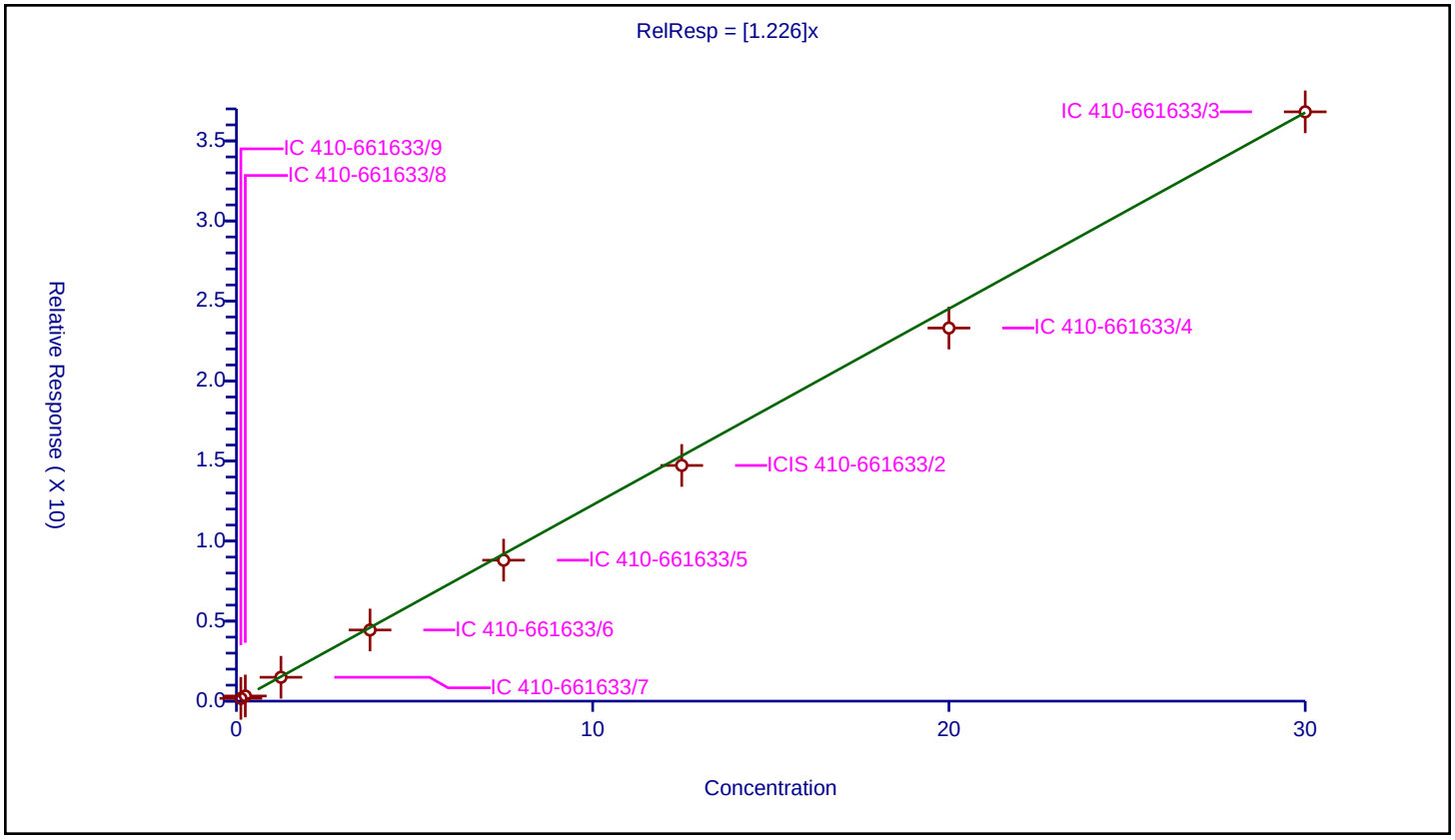
Curve Coefficients

Intercept:	0
Slope:	1.226

Error Coefficients

Relative Standard Deviation:	6.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.17467	5.0	1095497.0	1.397357	Y
2	IC 410-661633/8	0.25	0.32123	5.0	1050696.0	1.28492	Y
3	IC 410-661633/7	1.25	1.491181	5.0	1113161.0	1.192945	Y
4	IC 410-661633/6	3.75	4.445419	5.0	1225457.0	1.185445	Y
5	IC 410-661633/5	7.5	8.80698	5.0	1183610.0	1.174264	Y
6	ICIS 410-661633/2	12.5	14.725502	5.0	1134927.0	1.17804	Y
7	IC 410-661633/4	20.0	23.308604	5.0	1217175.0	1.16543	Y
8	IC 410-661633/3	30.0	36.815445	5.0	1092082.0	1.227182	Y



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Calibration / p-Terphenyl-d14

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

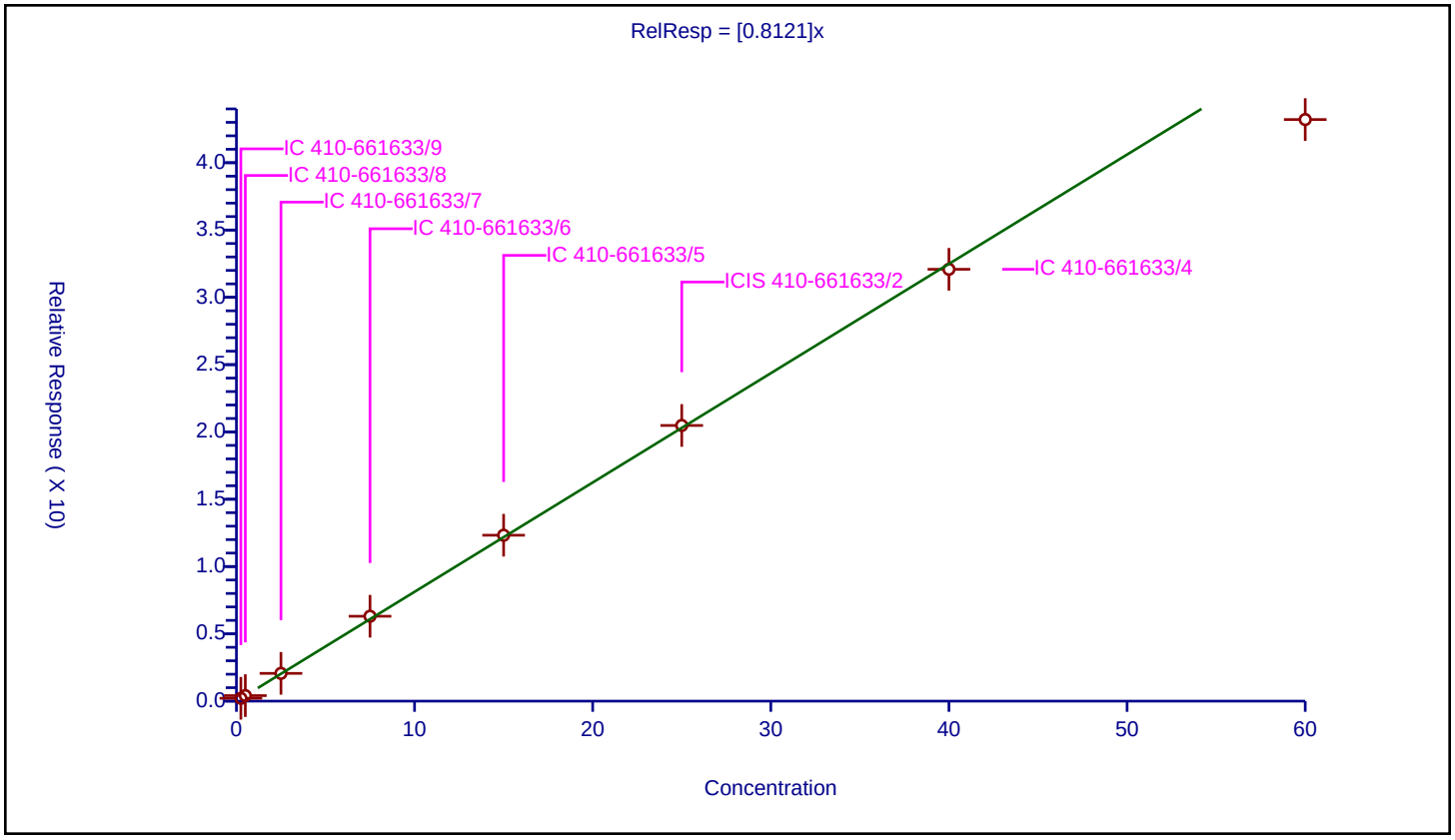
Curve Coefficients

Intercept:	0
Slope:	0.8121

Error Coefficients

Relative Standard Deviation:	4.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.25	0.212127	5.0	1095497.0	0.84851	Y
2	IC 410-661633/8	0.5	0.409657	5.0	1050696.0	0.819314	Y
3	IC 410-661633/7	2.5	2.062833	5.0	1113161.0	0.825133	Y
4	IC 410-661633/6	7.5	6.307125	5.0	1225457.0	0.84095	Y
5	IC 410-661633/5	15.0	12.325986	5.0	1183610.0	0.821732	Y
6	ICIS 410-661633/2	25.0	20.48022	5.0	1134927.0	0.819209	Y
7	IC 410-661633/4	40.0	32.083123	5.0	1217175.0	0.802078	Y
8	IC 410-661633/3	60.0	43.208179	5.0	1092082.0	0.720136	Y



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Calibration / p-Dimethylamino azobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

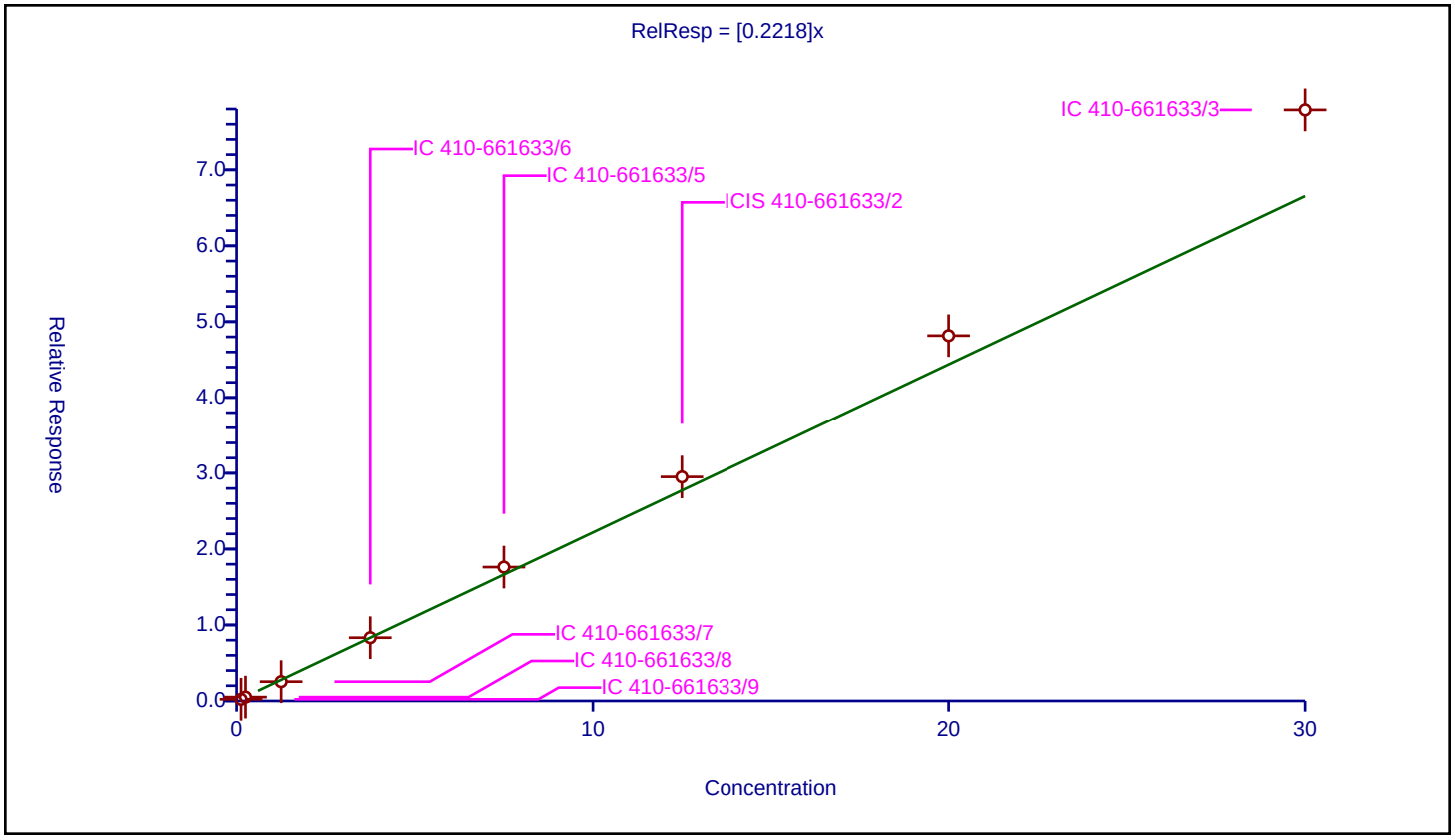
Curve Coefficients

Intercept:	0
Slope:	0.2218

Error Coefficients

Relative Standard Deviation:	12.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.021954	5.0	1095497.0	0.175628	Y
2	IC 410-661633/8	0.25	0.050638	5.0	1050696.0	0.202551	Y
3	IC 410-661633/7	1.25	0.253831	5.0	1113161.0	0.203065	Y
4	IC 410-661633/6	3.75	0.832322	5.0	1225457.0	0.221953	Y
5	IC 410-661633/5	7.5	1.762092	5.0	1183610.0	0.234946	Y
6	ICIS 410-661633/2	12.5	2.951384	5.0	1134927.0	0.236111	Y
7	IC 410-661633/4	20.0	4.815811	5.0	1217175.0	0.240791	Y
8	IC 410-661633/3	30.0	7.788477	5.0	1092082.0	0.259616	Y



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Calibration / Chlorobenzilate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

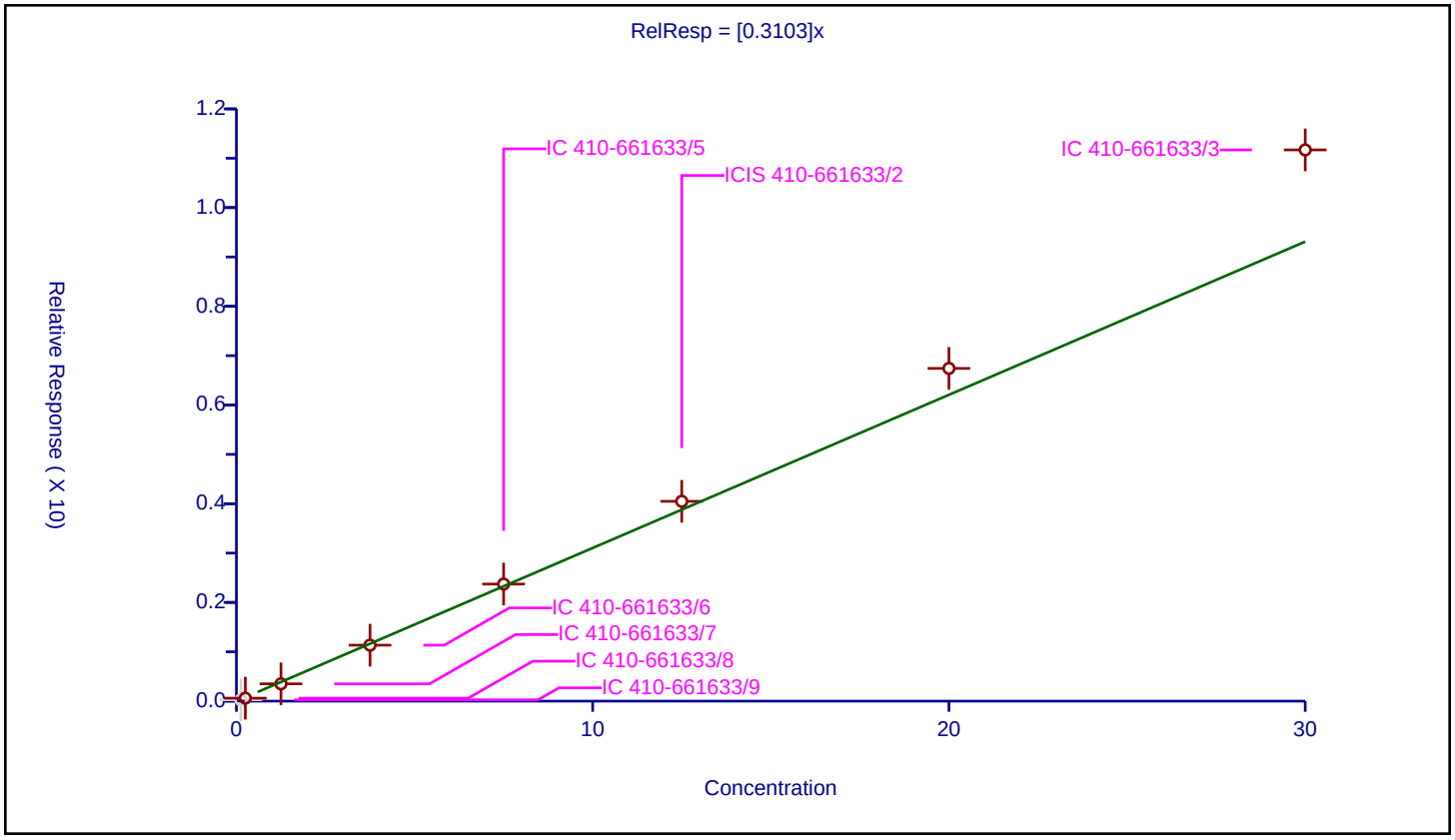
Curve Coefficients

Intercept:	0
Slope:	0.3103

Error Coefficients

Relative Standard Deviation:	13.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.026591	5.0	1095497.0	0.212725	N
2	IC 410-661633/8	0.25	0.060003	5.0	1050696.0	0.240012	Y
3	IC 410-661633/7	1.25	0.350506	5.0	1113161.0	0.280405	Y
4	IC 410-661633/6	3.75	1.134059	5.0	1225457.0	0.302416	Y
5	IC 410-661633/5	7.5	2.372162	5.0	1183610.0	0.316288	Y
6	ICIS 410-661633/2	12.5	4.048648	5.0	1134927.0	0.323892	Y
7	IC 410-661633/4	20.0	6.742013	5.0	1217175.0	0.337101	Y
8	IC 410-661633/3	30.0	11.169079	5.0	1092082.0	0.372303	Y



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Calibration / 3,3'-Dimethylbenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

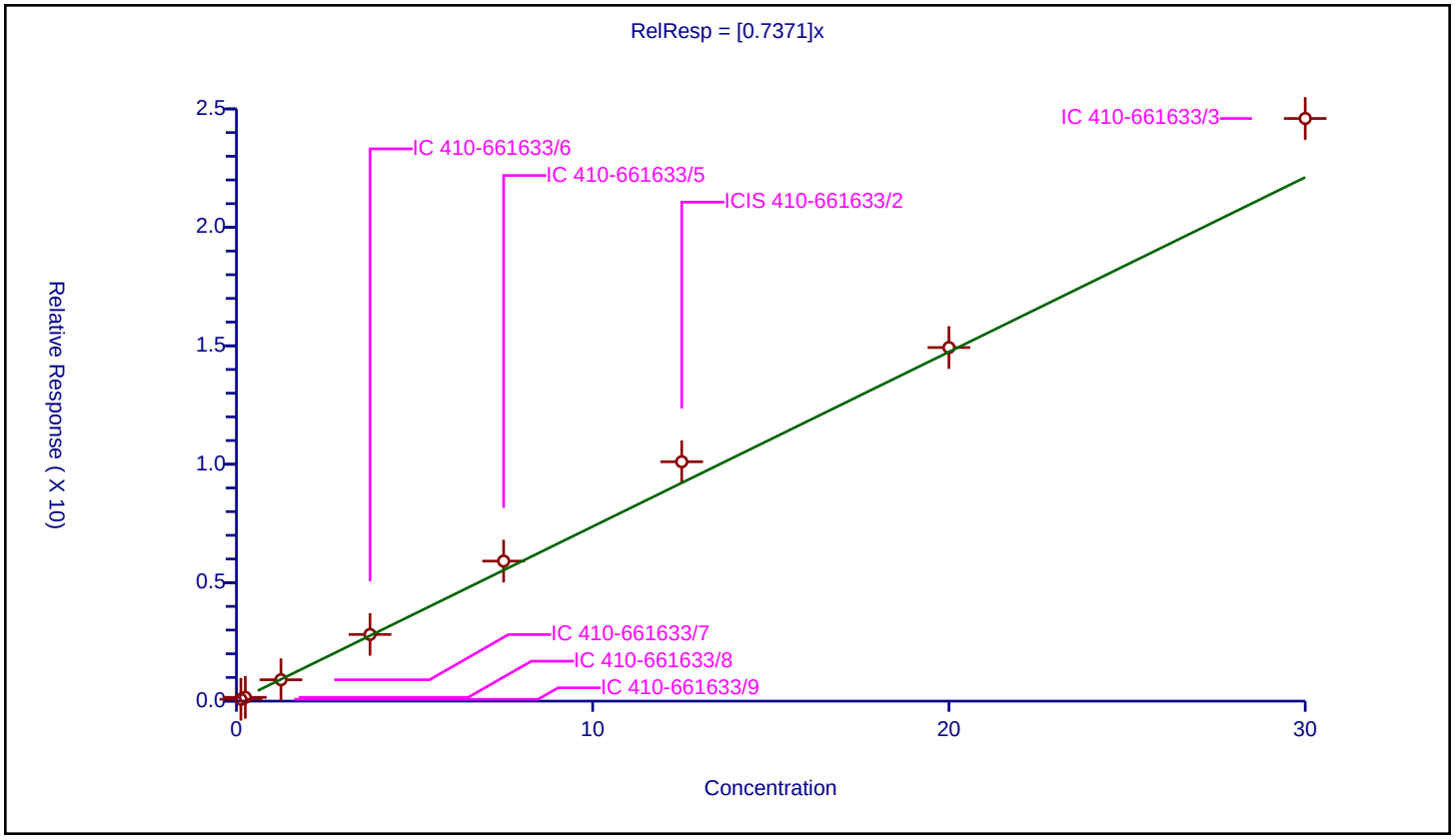
Curve Coefficients

Intercept:	0
Slope:	0.7371

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.077613	5.0	1095497.0	0.620905	Y
2	IC 410-661633/8	0.25	0.160018	5.0	1050696.0	0.640071	Y
3	IC 410-661633/7	1.25	0.902318	5.0	1113161.0	0.721854	Y
4	IC 410-661633/6	3.75	2.815023	5.0	1225457.0	0.750673	Y
5	IC 410-661633/5	7.5	5.912497	5.0	1183610.0	0.788333	Y
6	ICIS 410-661633/2	12.5	10.10506	5.0	1134927.0	0.808405	Y
7	IC 410-661633/4	20.0	14.926781	5.0	1217175.0	0.746339	Y
8	IC 410-661633/3	30.0	24.595502	5.0	1092082.0	0.81985	Y



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Calibration / Butyl benzyl phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

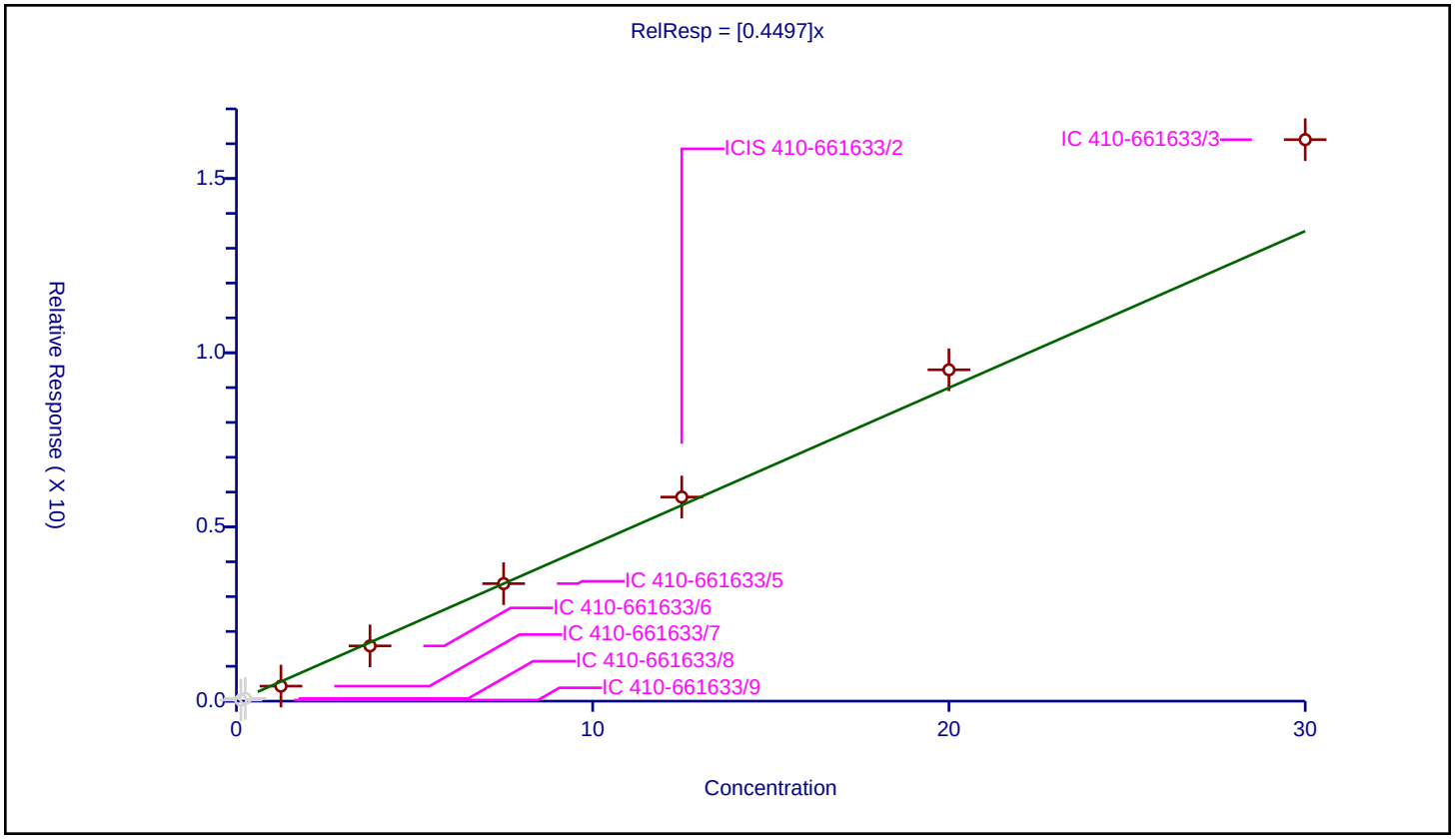
Curve Coefficients

Intercept:	0
Slope:	0.4497

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.031794	5.0	1095497.0	0.25435	N
2	IC 410-661633/8	0.25	0.077901	5.0	1050696.0	0.311603	N
3	IC 410-661633/7	1.25	0.430692	5.0	1113161.0	0.344554	Y
4	IC 410-661633/6	3.75	1.585388	5.0	1225457.0	0.42277	Y
5	IC 410-661633/5	7.5	3.372834	5.0	1183610.0	0.449711	Y
6	ICIS 410-661633/2	12.5	5.85772	5.0	1134927.0	0.468618	Y
7	IC 410-661633/4	20.0	9.510756	5.0	1217175.0	0.475538	Y
8	IC 410-661633/3	30.0	16.11727	5.0	1092082.0	0.537242	Y



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Calibration / 2-Acetylaminofluorene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

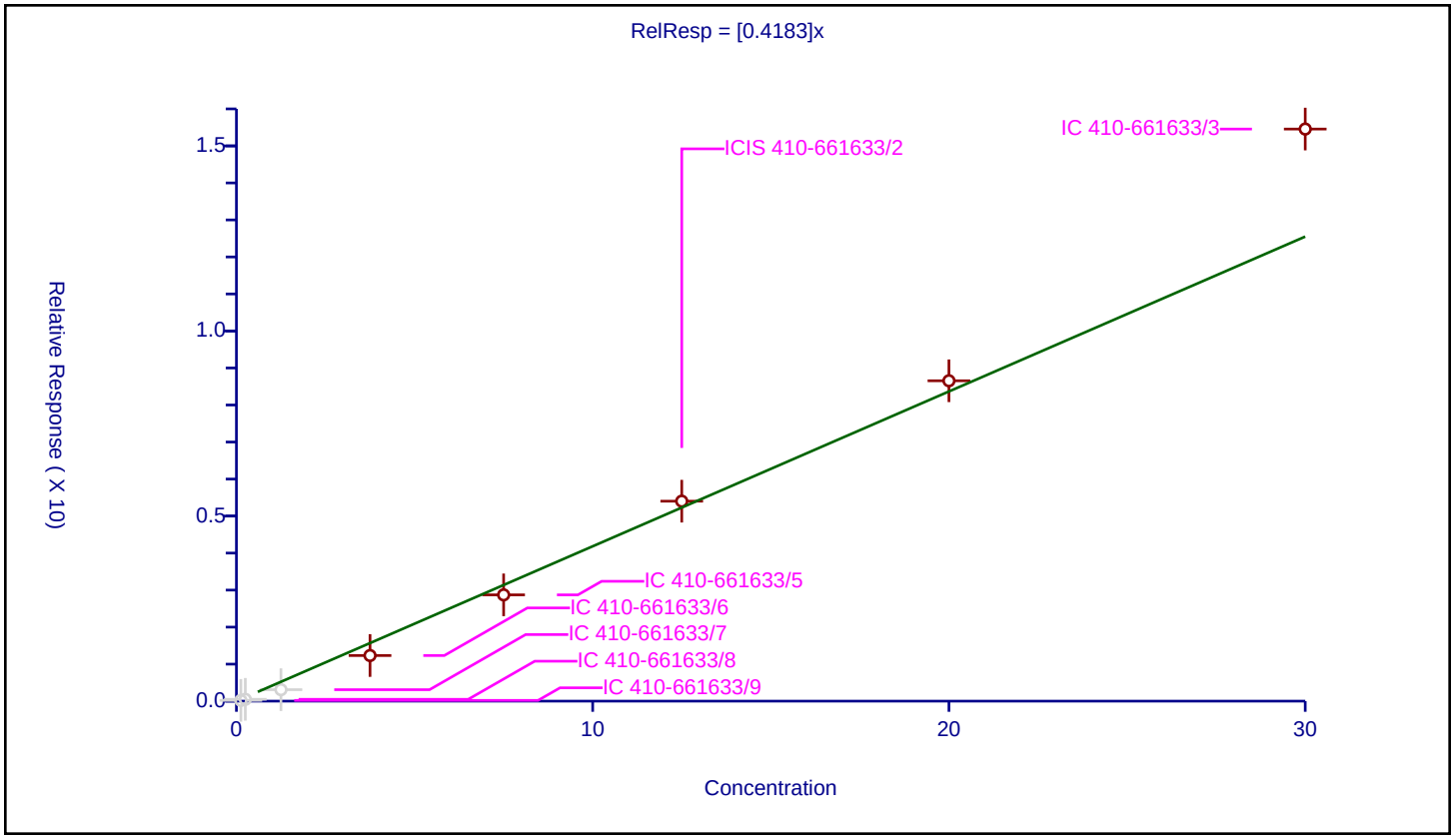
Curve Coefficients

Intercept:	0
Slope:	0.4183

Error Coefficients

Relative Standard Deviation:	16.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.020219	5.0	1095497.0	0.161753	N
2	IC 410-661633/8	0.25	0.04932	5.0	1050696.0	0.197279	N
3	IC 410-661633/7	1.25	0.310076	5.0	1113161.0	0.248061	N
4	IC 410-661633/6	3.75	1.232483	5.0	1225457.0	0.328662	Y
5	IC 410-661633/5	7.5	2.87122	5.0	1183610.0	0.382829	Y
6	ICIS 410-661633/2	12.5	5.402039	5.0	1134927.0	0.432163	Y
7	IC 410-661633/4	20.0	8.655054	5.0	1217175.0	0.432753	Y
8	IC 410-661633/3	30.0	15.45541	5.0	1092082.0	0.51518	Y



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Calibration / 3,3'-Dichlorobenzidine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

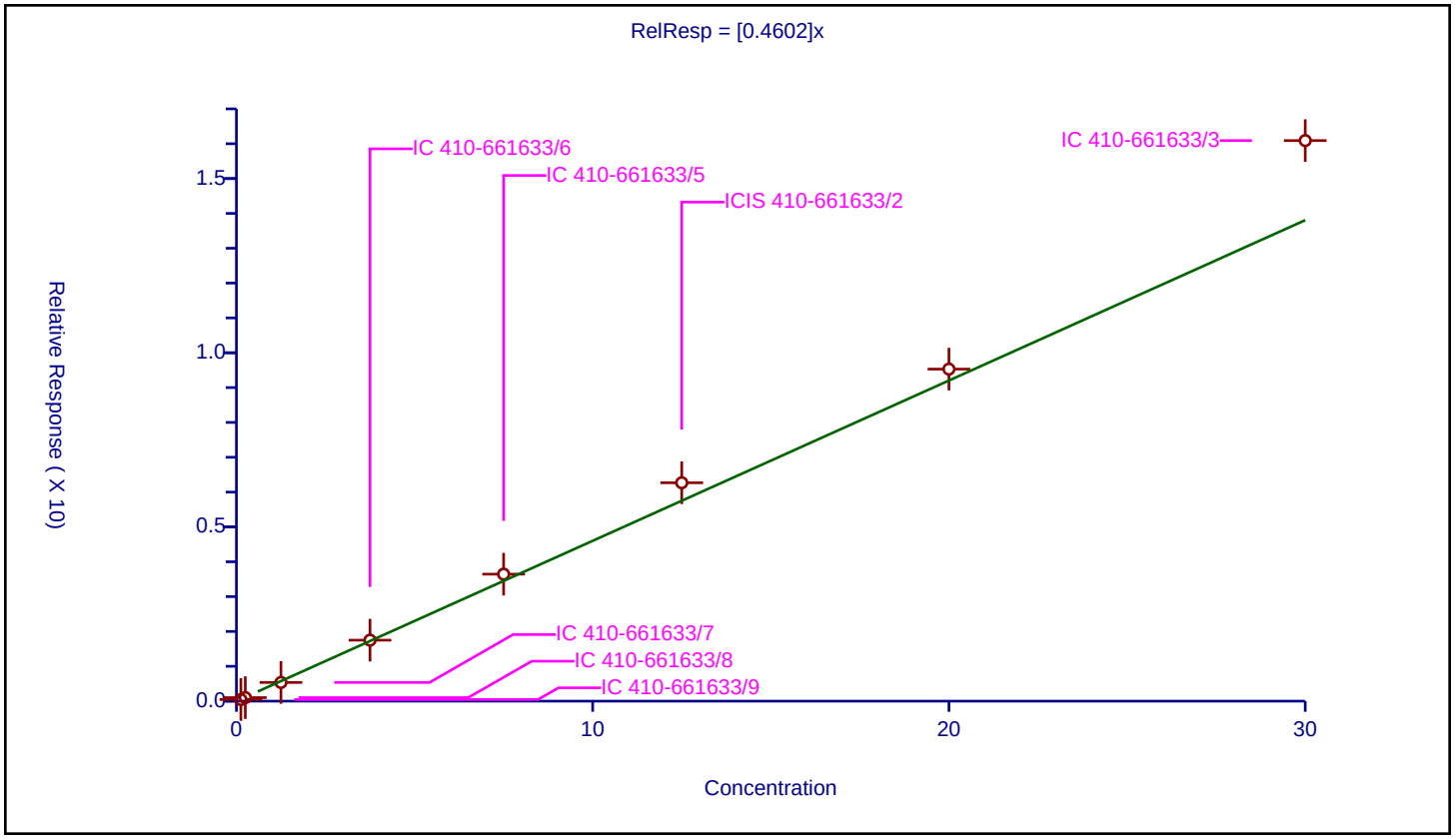
Curve Coefficients

Intercept:	0
Slope:	0.4602

Error Coefficients

Relative Standard Deviation:	11.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.047389	5.0	1095497.0	0.379116	Y
2	IC 410-661633/8	0.25	0.101542	5.0	1050696.0	0.406169	Y
3	IC 410-661633/7	1.25	0.53614	5.0	1113161.0	0.428912	Y
4	IC 410-661633/6	3.75	1.750657	5.0	1225457.0	0.466842	Y
5	IC 410-661633/5	7.5	3.644862	5.0	1183610.0	0.485982	Y
6	ICIS 410-661633/2	12.5	6.268372	5.0	1134927.0	0.50147	Y
7	IC 410-661633/4	20.0	9.530819	5.0	1217175.0	0.476541	Y
8	IC 410-661633/3	30.0	16.090042	5.0	1092082.0	0.536335	Y



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Calibration / 4,4'-Methylene bis(2-chloroaniline)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

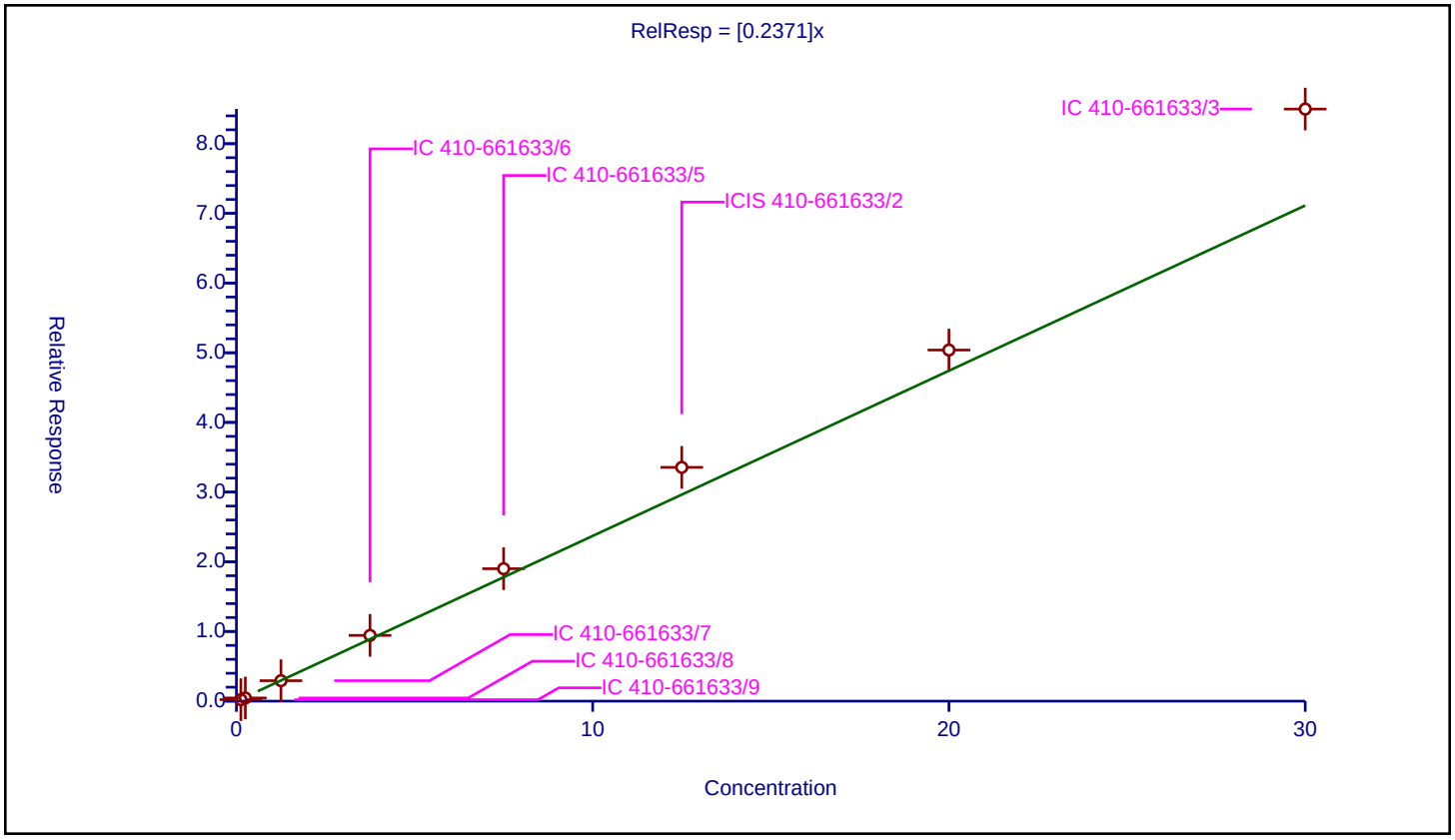
Curve Coefficients

Intercept:	0
Slope:	0.2371

Error Coefficients

Relative Standard Deviation:	16.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.02131	5.0	1095497.0	0.17048	Y
2	IC 410-661633/8	0.25	0.045751	5.0	1050696.0	0.183003	Y
3	IC 410-661633/7	1.25	0.293457	5.0	1113161.0	0.234766	Y
4	IC 410-661633/6	3.75	0.943432	5.0	1225457.0	0.251582	Y
5	IC 410-661633/5	7.5	1.900833	5.0	1183610.0	0.253444	Y
6	ICIS 410-661633/2	12.5	3.355251	5.0	1134927.0	0.26842	Y
7	IC 410-661633/4	20.0	5.039111	5.0	1217175.0	0.251956	Y
8	IC 410-661633/3	30.0	8.49721	5.0	1092082.0	0.28324	Y



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Calibration / Benzo[a]anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

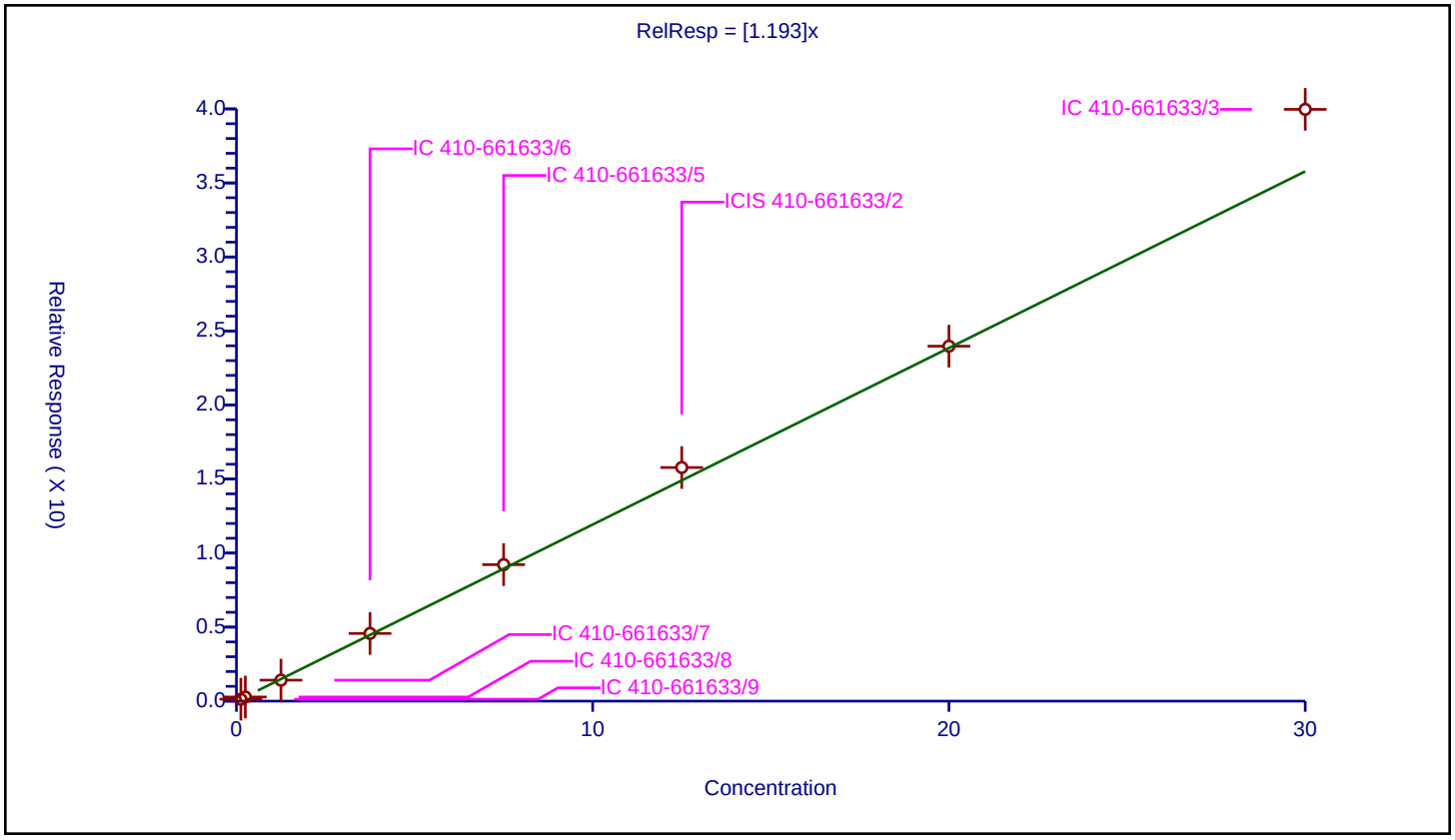
Curve Coefficients

Intercept:	0
Slope:	1.193

Error Coefficients

Relative Standard Deviation:	7.6

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.130411	5.0	1095497.0	1.043289	Y
2	IC 410-661633/8	0.25	0.280543	5.0	1050696.0	1.12217	Y
3	IC 410-661633/7	1.25	1.417728	5.0	1113161.0	1.134183	Y
4	IC 410-661633/6	3.75	4.571813	5.0	1225457.0	1.21915	Y
5	IC 410-661633/5	7.5	9.217669	5.0	1183610.0	1.229023	Y
6	ICIS 410-661633/2	12.5	15.778376	5.0	1134927.0	1.26227	Y
7	IC 410-661633/4	20.0	23.974215	5.0	1217175.0	1.198711	Y
8	IC 410-661633/3	30.0	39.968542	5.0	1092082.0	1.332285	Y



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Calibration / Chrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

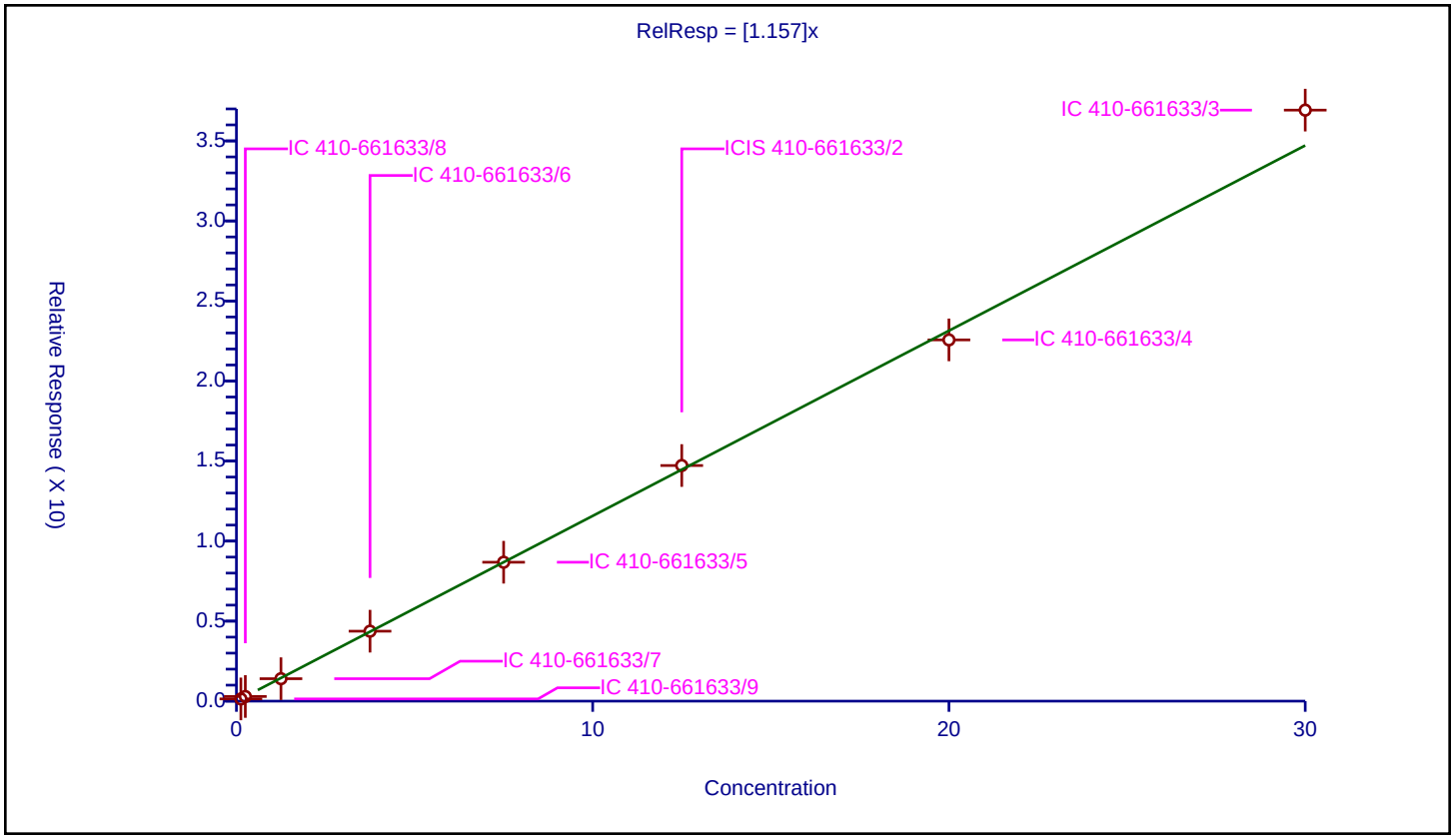
Curve Coefficients

Intercept:	0
Slope:	1.157

Error Coefficients

Relative Standard Deviation:	3.3

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.13906	5.0	1095497.0	1.112481	Y
2	IC 410-661633/8	0.25	0.290864	5.0	1050696.0	1.163457	Y
3	IC 410-661633/7	1.25	1.40265	5.0	1113161.0	1.12212	Y
4	IC 410-661633/6	3.75	4.369957	5.0	1225457.0	1.165322	Y
5	IC 410-661633/5	7.5	8.677685	5.0	1183610.0	1.157025	Y
6	ICIS 410-661633/2	12.5	14.719995	5.0	1134927.0	1.1776	Y
7	IC 410-661633/4	20.0	22.56848	5.0	1217175.0	1.128424	Y
8	IC 410-661633/3	30.0	36.923074	5.0	1092082.0	1.230769	Y



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Calibration / Bis(2-ethylhexyl) phthalate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

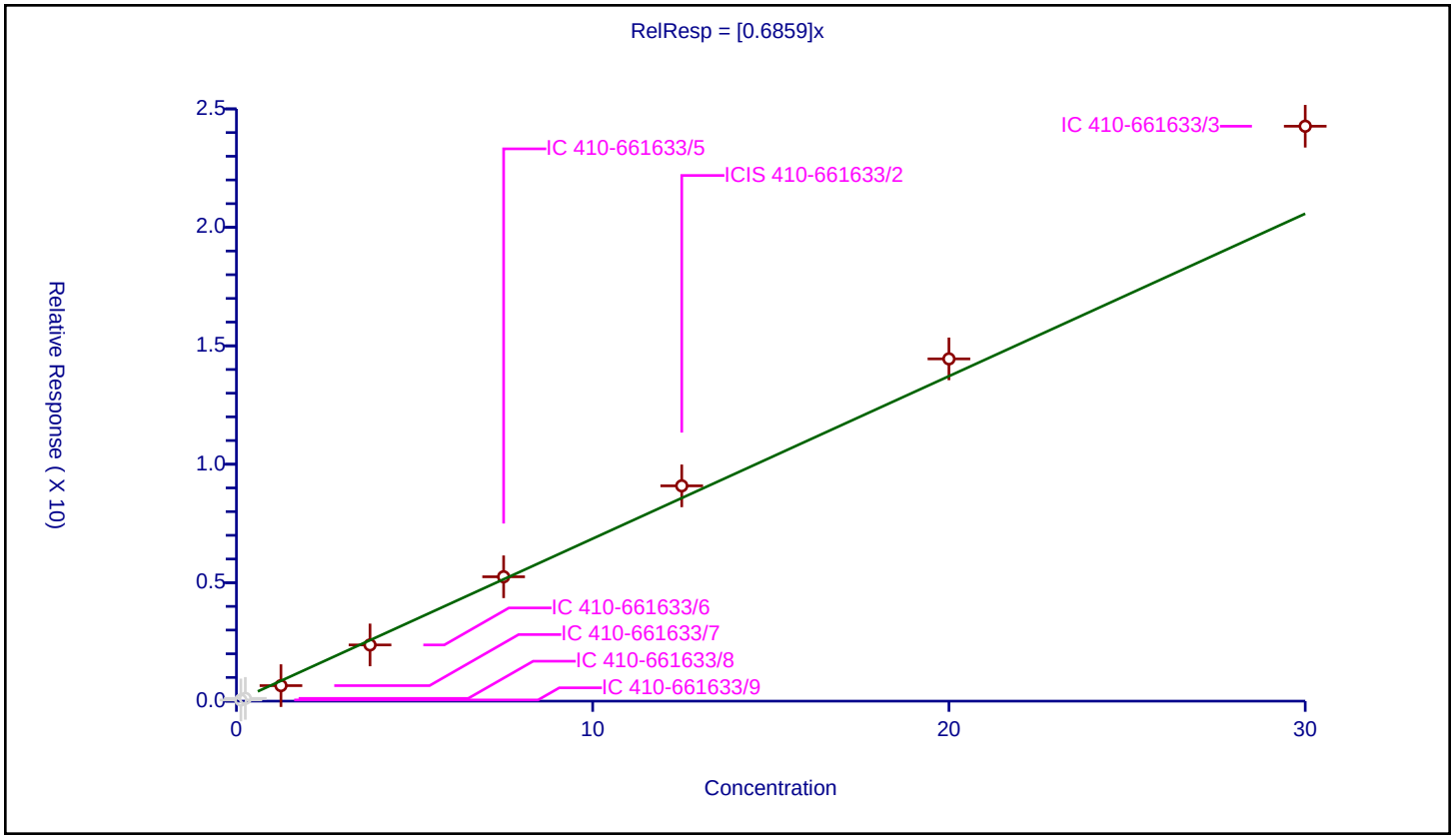
Curve Coefficients

Intercept:	0
Slope:	0.6859

Error Coefficients

Relative Standard Deviation:	14.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.050183	5.0	1095497.0	0.401462	N
2	IC 410-661633/8	0.25	0.11589	5.0	1050696.0	0.463559	N
3	IC 410-661633/7	1.25	0.655242	5.0	1113161.0	0.524194	Y
4	IC 410-661633/6	3.75	2.372572	5.0	1225457.0	0.632686	Y
5	IC 410-661633/5	7.5	5.250032	5.0	1183610.0	0.700004	Y
6	ICIS 410-661633/2	12.5	9.088457	5.0	1134927.0	0.727077	Y
7	IC 410-661633/4	20.0	14.447725	5.0	1217175.0	0.722386	Y
8	IC 410-661633/3	30.0	24.268361	5.0	1092082.0	0.808945	Y



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Calibration / 6-Methylchrysene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

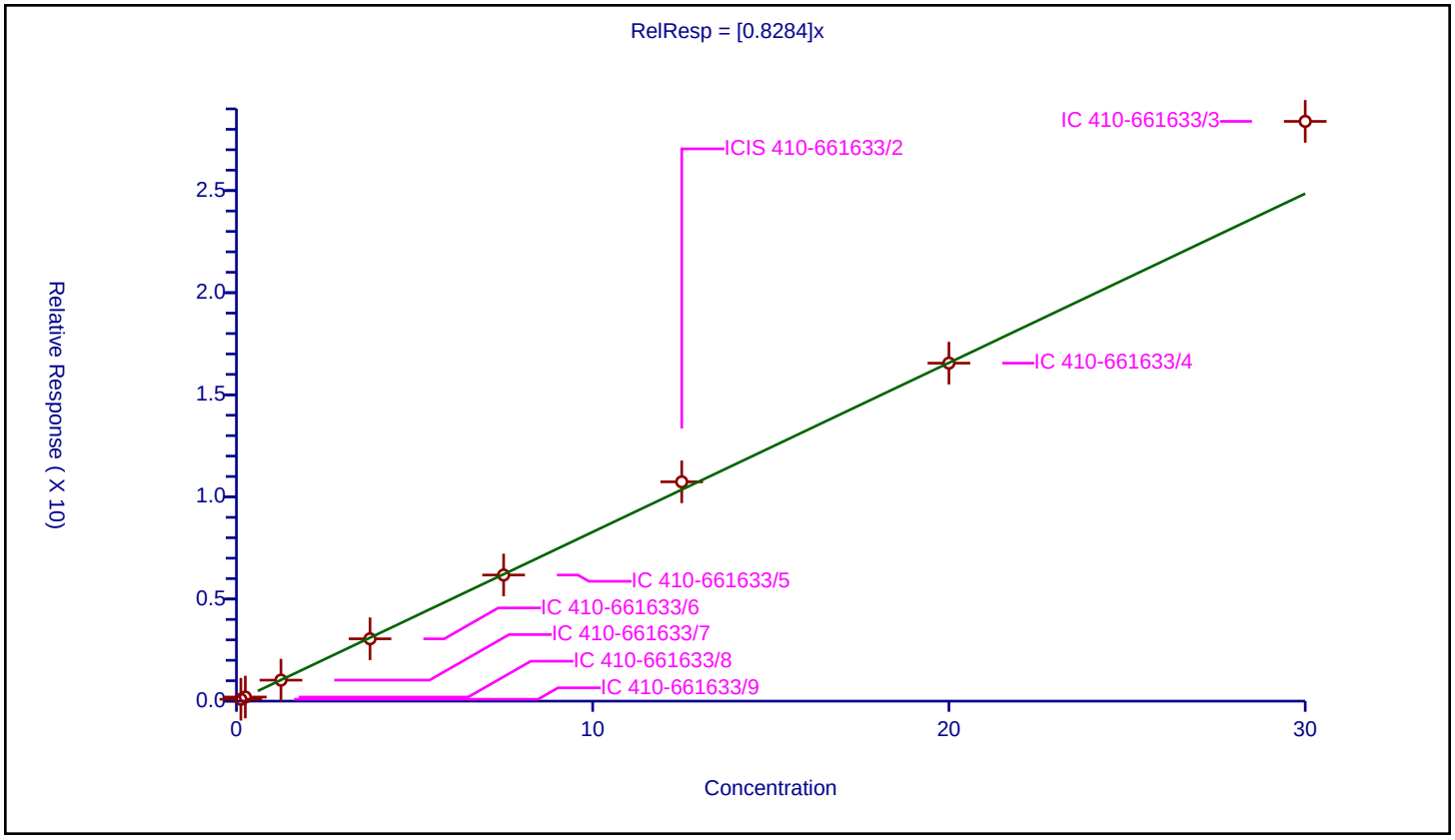
Curve Coefficients

Intercept:	0
Slope:	0.8284

Error Coefficients

Relative Standard Deviation:	7.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.091712	5.0	1095497.0	0.733694	Y
2	IC 410-661633/8	0.25	0.200025	5.0	1050696.0	0.800098	Y
3	IC 410-661633/7	1.25	1.028858	5.0	1113161.0	0.823087	Y
4	IC 410-661633/6	3.75	3.051992	5.0	1225457.0	0.813865	Y
5	IC 410-661633/5	7.5	6.176477	5.0	1183610.0	0.82353	Y
6	ICIS 410-661633/2	12.5	10.738536	5.0	1134927.0	0.859083	Y
7	IC 410-661633/4	20.0	16.549991	5.0	1217175.0	0.8275	Y
8	IC 410-661633/3	30.0	28.388079	5.0	1092082.0	0.946269	Y



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Calibration / Di-n-octyl phthalate

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

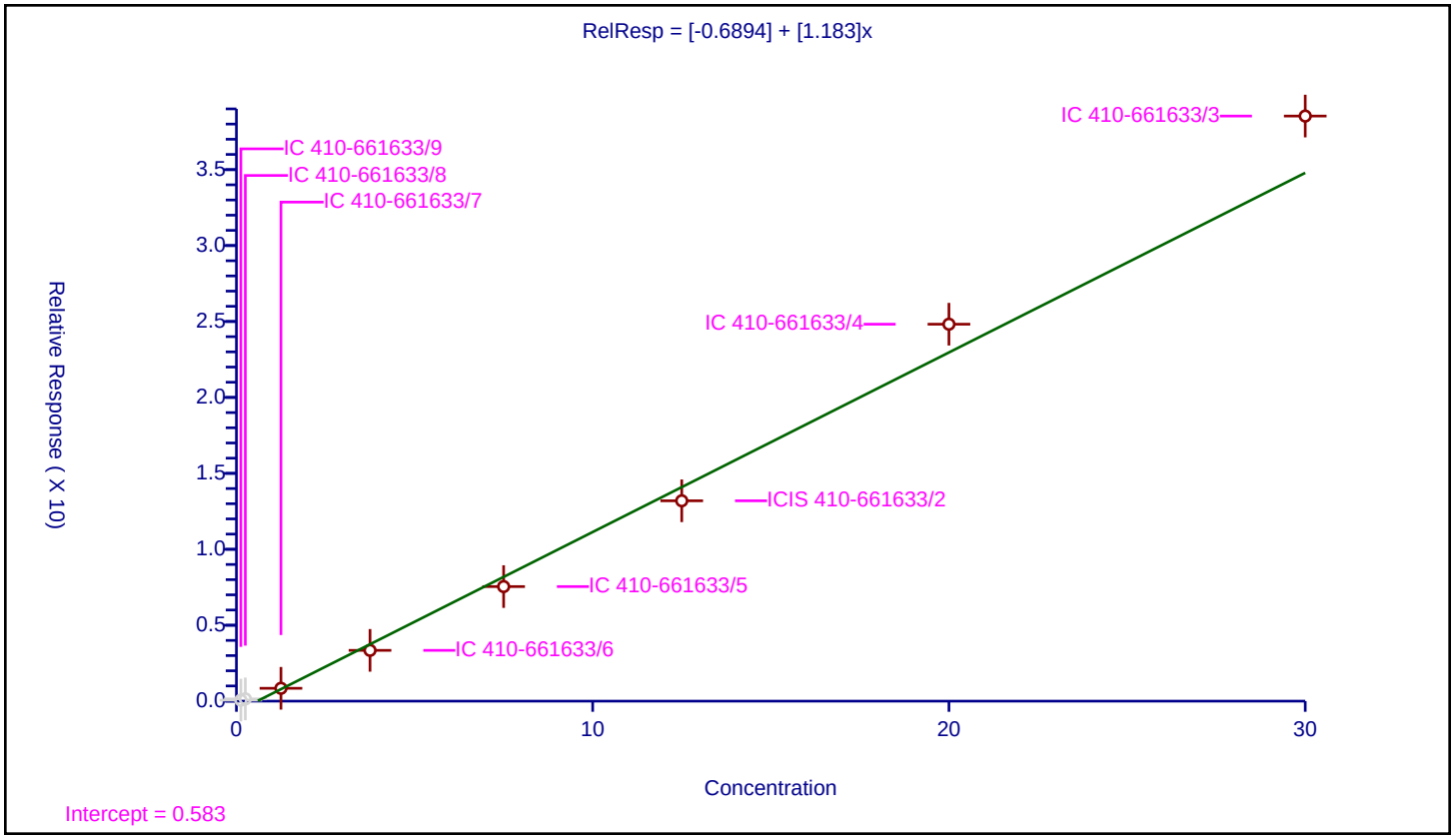
Curve Coefficients

Intercept:	-0.6894
Slope:	1.183

Error Coefficients

Relative Standard Deviation:	9.5

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.068249	5.0	960900.0	0.545988	N
2	IC 410-661633/8	0.25	0.148585	5.0	1045531.0	0.594339	N
3	IC 410-661633/7	1.25	0.846277	5.0	1097637.0	0.677022	Y
4	IC 410-661633/6	3.75	3.343205	5.0	1205602.0	0.891521	Y
5	IC 410-661633/5	7.5	7.544509	5.0	1208021.0	1.005934	Y
6	ICIS 410-661633/2	12.5	13.19414	5.0	1210811.0	1.055531	Y
7	IC 410-661633/4	20.0	24.821034	5.0	1084510.0	1.241052	Y
8	IC 410-661633/3	30.0	38.527574	5.0	1127133.0	1.284252	Y



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Calibration / 7,12-Dimethylbenz(a)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

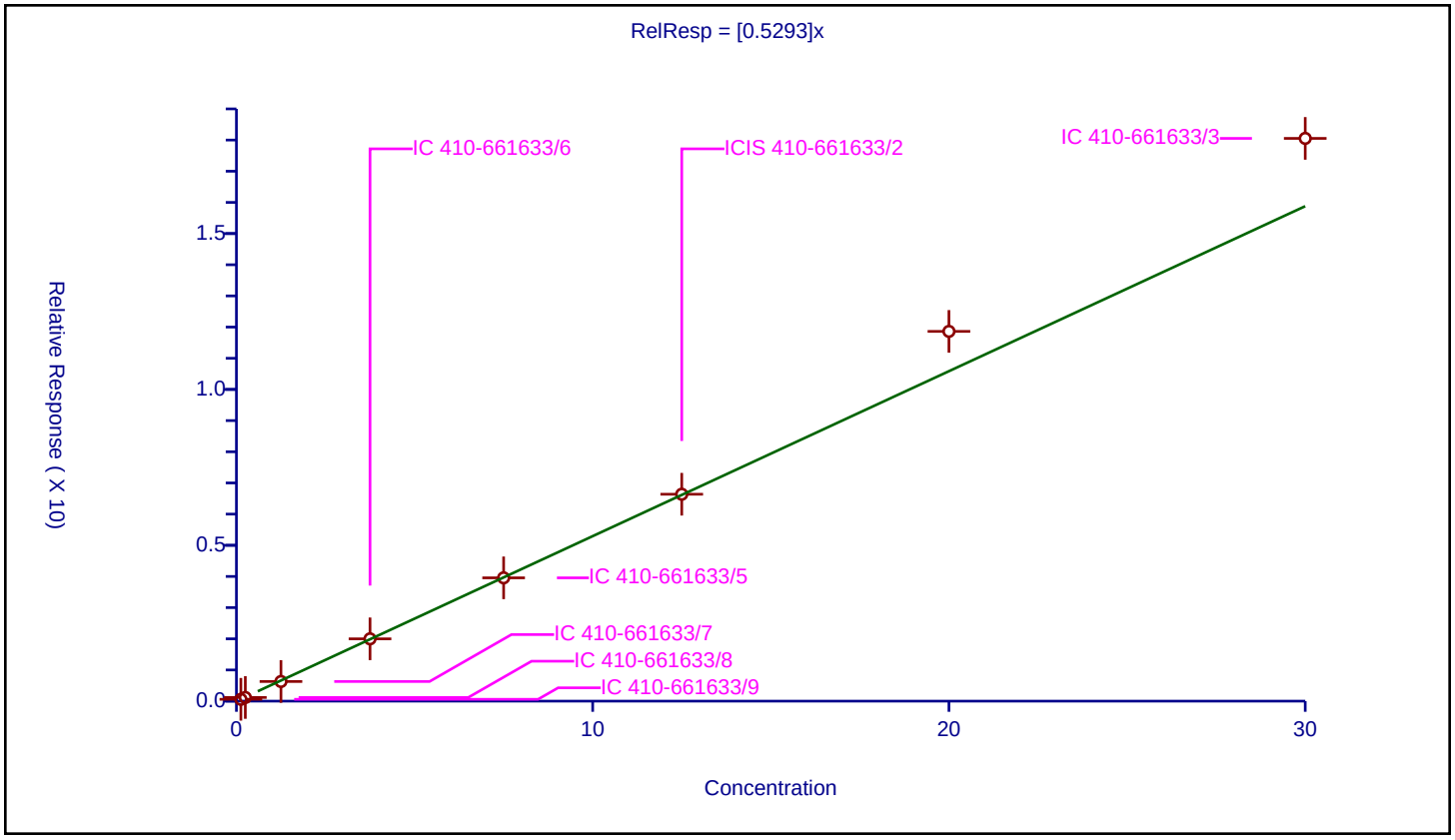
Curve Coefficients

Intercept:	0
Slope:	0.5293

Error Coefficients

Relative Standard Deviation:	9.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.059304	5.0	960900.0	0.47443	Y
2	IC 410-661633/8	0.25	0.117342	5.0	1045531.0	0.469369	Y
3	IC 410-661633/7	1.25	0.629858	5.0	1097637.0	0.503886	Y
4	IC 410-661633/6	3.75	1.999205	5.0	1205602.0	0.533121	Y
5	IC 410-661633/5	7.5	3.955949	5.0	1208021.0	0.52746	Y
6	ICIS 410-661633/2	12.5	6.637477	5.0	1210811.0	0.530998	Y
7	IC 410-661633/4	20.0	11.862256	5.0	1084510.0	0.593113	Y
8	IC 410-661633/3	30.0	18.053291	5.0	1127133.0	0.601776	Y



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Calibration / Benzo[b]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

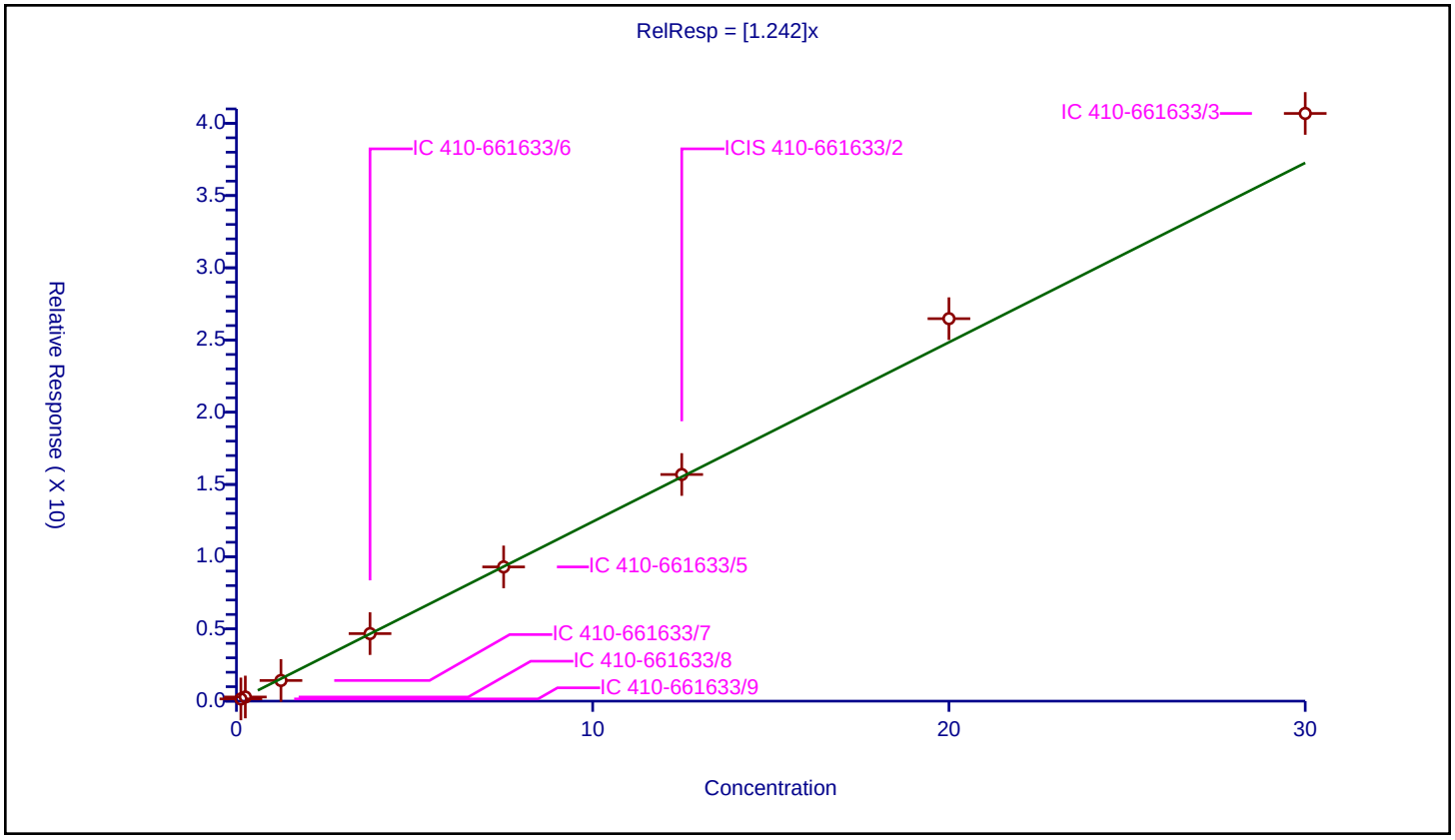
Curve Coefficients

Intercept:	0
Slope:	1.242

Error Coefficients

Relative Standard Deviation:	6.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.153367	5.0	960900.0	1.226933	Y
2	IC 410-661633/8	0.25	0.286338	5.0	1045531.0	1.145351	Y
3	IC 410-661633/7	1.25	1.430027	5.0	1097637.0	1.144021	Y
4	IC 410-661633/6	3.75	4.674532	5.0	1205602.0	1.246542	Y
5	IC 410-661633/5	7.5	9.291457	5.0	1208021.0	1.238861	Y
6	ICIS 410-661633/2	12.5	15.689108	5.0	1210811.0	1.255129	Y
7	IC 410-661633/4	20.0	26.478419	5.0	1084510.0	1.323921	Y
8	IC 410-661633/3	30.0	40.684161	5.0	1127133.0	1.356139	Y



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Calibration / Benzo[k]fluoranthene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

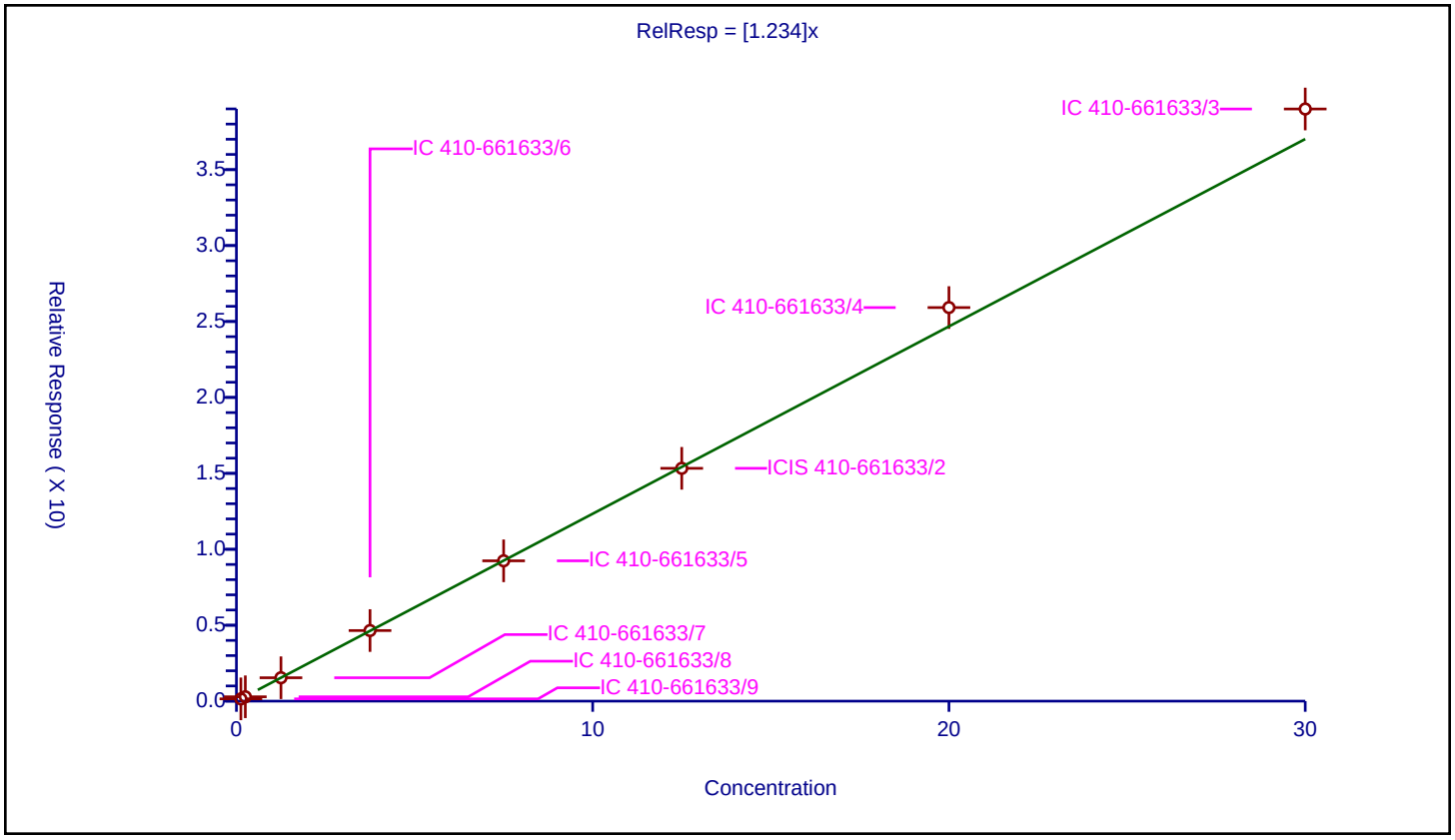
Curve Coefficients

Intercept:	0
Slope:	1.234

Error Coefficients

Relative Standard Deviation:	4.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.150036	5.0	960900.0	1.200291	Y
2	IC 410-661633/8	0.25	0.285912	5.0	1045531.0	1.143649	Y
3	IC 410-661633/7	1.25	1.540309	5.0	1097637.0	1.232247	Y
4	IC 410-661633/6	3.75	4.649486	5.0	1205602.0	1.239863	Y
5	IC 410-661633/5	7.5	9.241089	5.0	1208021.0	1.232145	Y
6	ICIS 410-661633/2	12.5	15.331154	5.0	1210811.0	1.226492	Y
7	IC 410-661633/4	20.0	25.917954	5.0	1084510.0	1.295898	Y
8	IC 410-661633/3	30.0	38.992444	5.0	1127133.0	1.299748	Y



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Calibration / Benzo[a]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

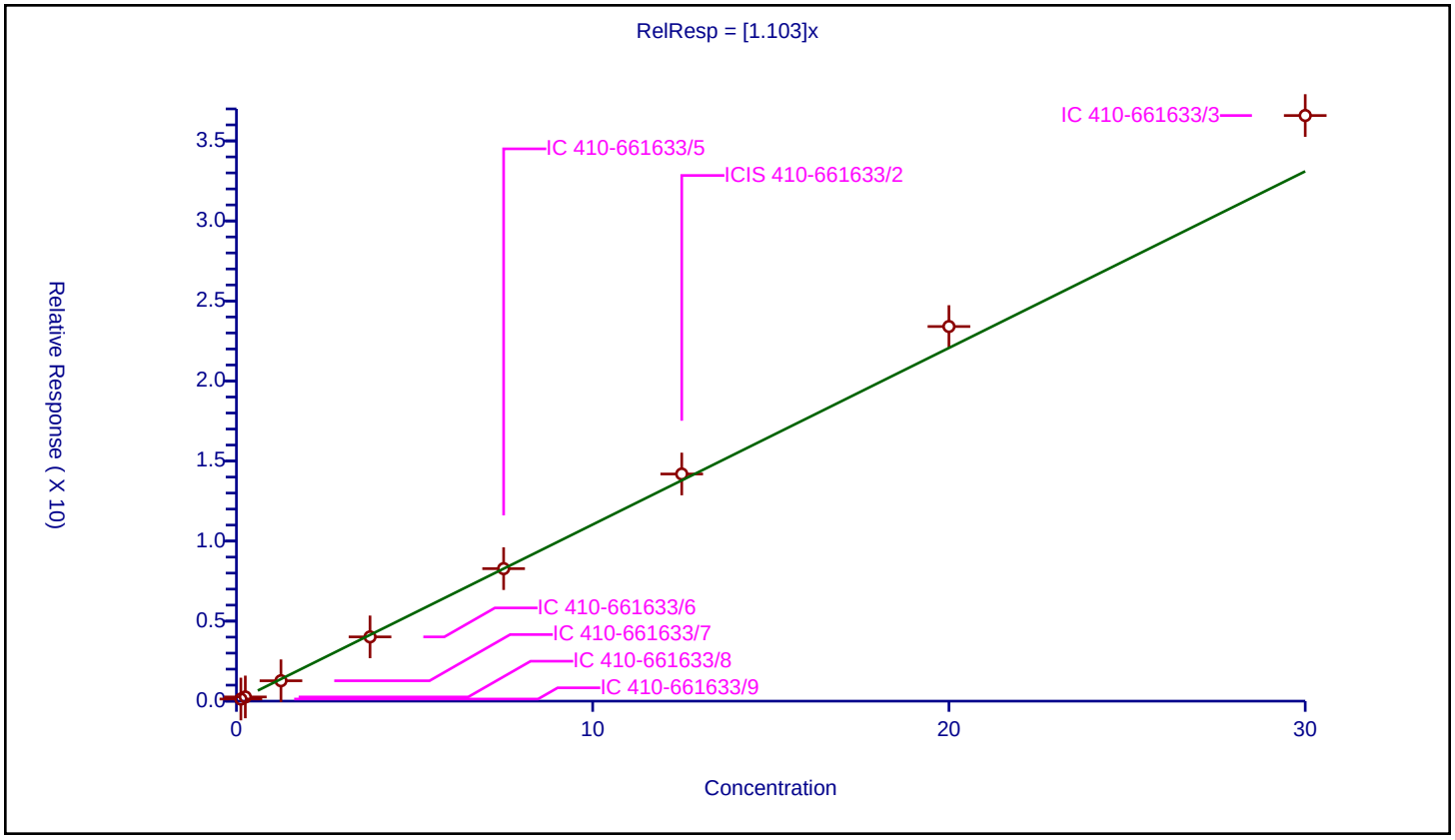
Curve Coefficients

Intercept:	0
Slope:	1.103

Error Coefficients

Relative Standard Deviation:	6.1

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.13222	5.0	960900.0	1.057758	Y
2	IC 410-661633/8	0.25	0.262862	5.0	1045531.0	1.051447	Y
3	IC 410-661633/7	1.25	1.273317	5.0	1097637.0	1.018654	Y
4	IC 410-661633/6	3.75	4.01341	5.0	1205602.0	1.070243	Y
5	IC 410-661633/5	7.5	8.276648	5.0	1208021.0	1.103553	Y
6	ICIS 410-661633/2	12.5	14.190481	5.0	1210811.0	1.135238	Y
7	IC 410-661633/4	20.0	23.403454	5.0	1084510.0	1.170173	Y
8	IC 410-661633/3	30.0	36.585918	5.0	1127133.0	1.219531	Y



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Calibration / 3-Methylcholanthrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

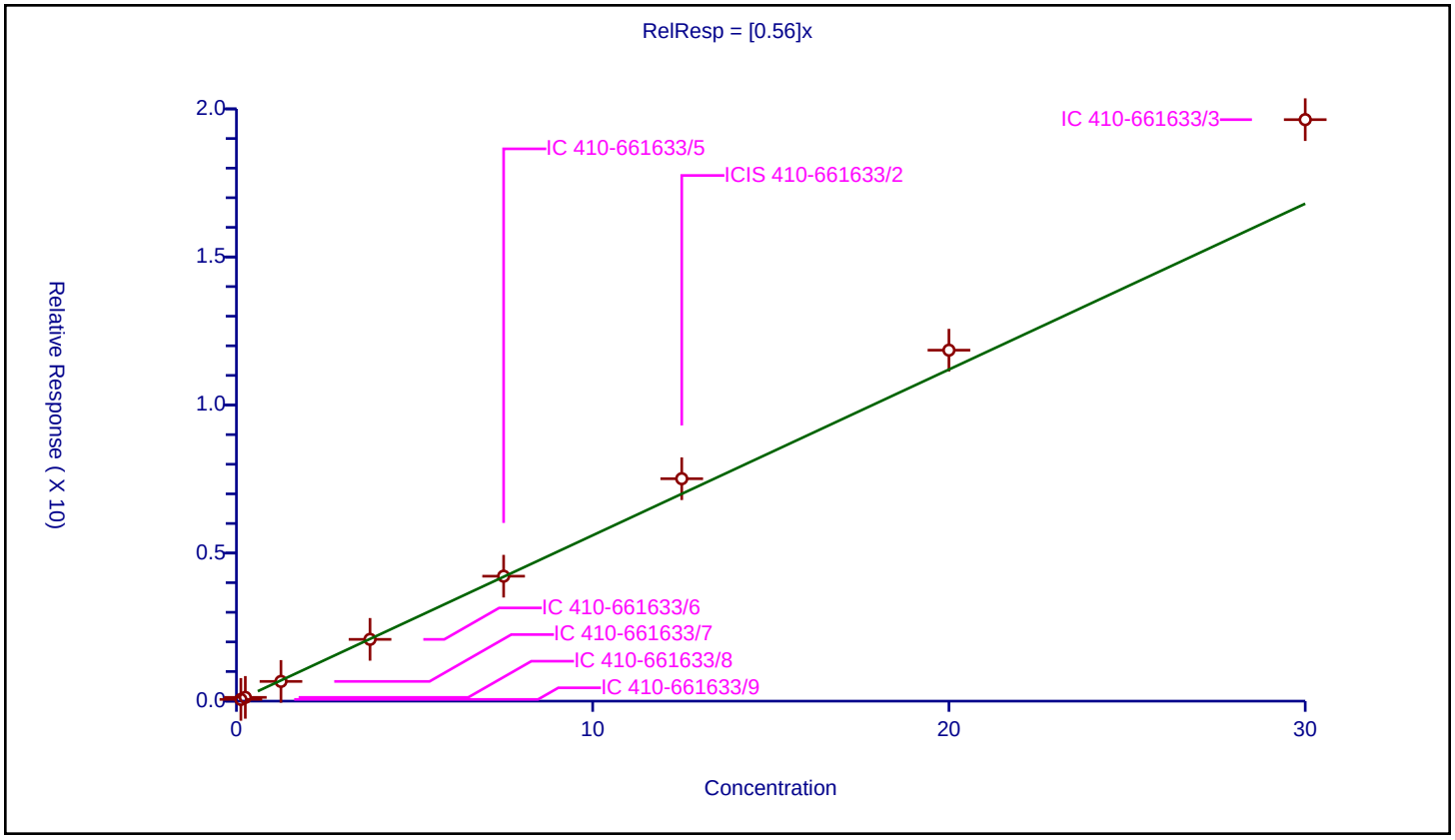
Curve Coefficients

Intercept:	0
Slope:	0.56

Error Coefficients

Relative Standard Deviation:	10.2

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.058872	5.0	960900.0	0.470975	Y
2	IC 410-661633/8	0.25	0.12727	5.0	1045531.0	0.509081	Y
3	IC 410-661633/7	1.25	0.665694	5.0	1097637.0	0.532555	Y
4	IC 410-661633/6	3.75	2.086547	5.0	1205602.0	0.556412	Y
5	IC 410-661633/5	7.5	4.219682	5.0	1208021.0	0.562624	Y
6	ICIS 410-661633/2	12.5	7.511593	5.0	1210811.0	0.600927	Y
7	IC 410-661633/4	20.0	11.851984	5.0	1084510.0	0.592599	Y
8	IC 410-661633/3	30.0	19.63699	5.0	1127133.0	0.654566	Y



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Calibration / Dibenz[a,h]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

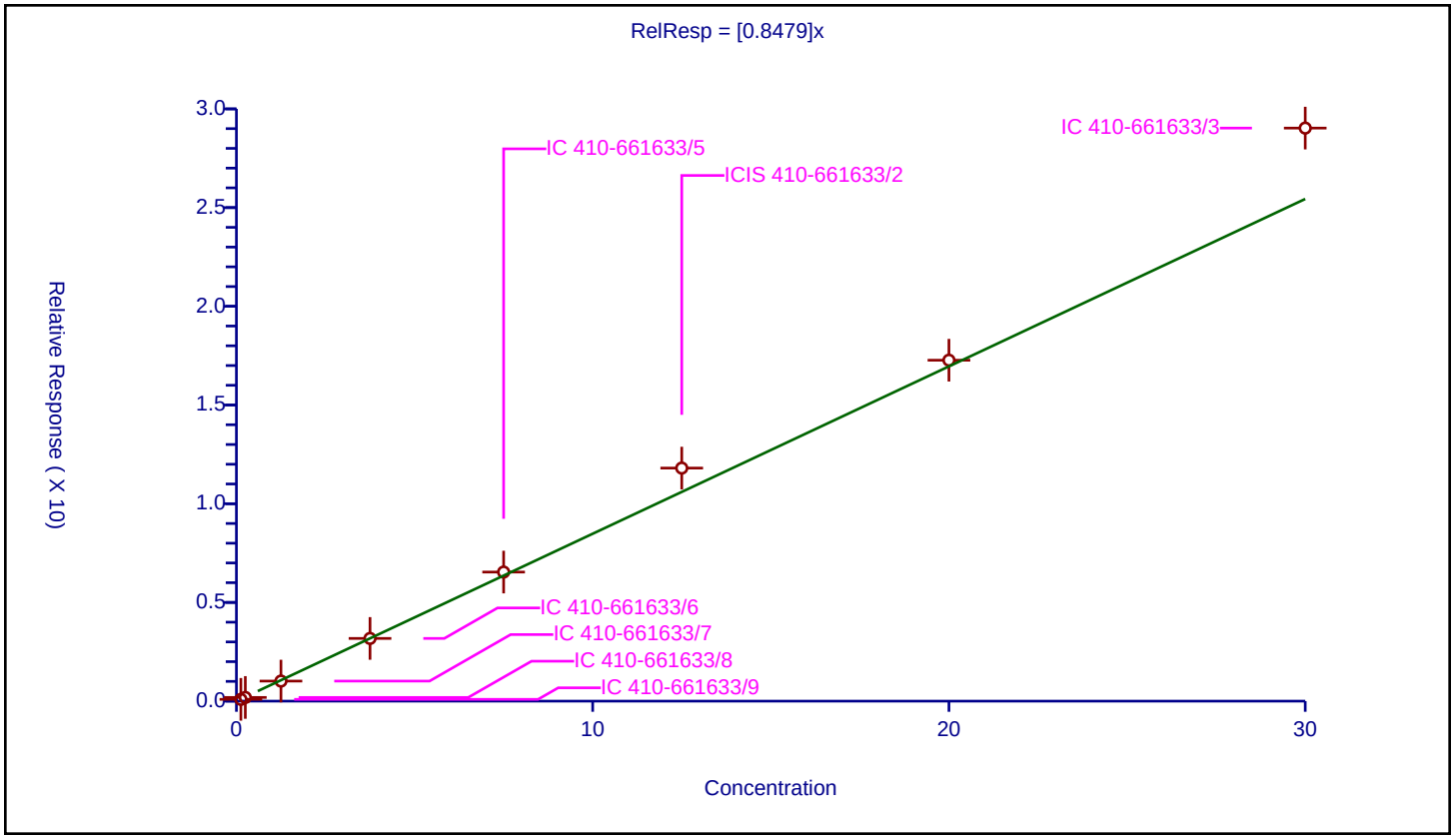
Curve Coefficients

Intercept:	0
Slope:	0.8479

Error Coefficients

Relative Standard Deviation:	10.0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.091279	5.0	960900.0	0.730232	Y
2	IC 410-661633/8	0.25	0.186207	5.0	1045531.0	0.744827	Y
3	IC 410-661633/7	1.25	1.017035	5.0	1097637.0	0.813628	Y
4	IC 410-661633/6	3.75	3.176998	5.0	1205602.0	0.847199	Y
5	IC 410-661633/5	7.5	6.538036	5.0	1208021.0	0.871738	Y
6	ICIS 410-661633/2	12.5	11.805591	5.0	1210811.0	0.944447	Y
7	IC 410-661633/4	20.0	17.269661	5.0	1084510.0	0.863483	Y
8	IC 410-661633/3	30.0	29.027311	5.0	1127133.0	0.967577	Y



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Calibration / Dibenz[a,j]acridine

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

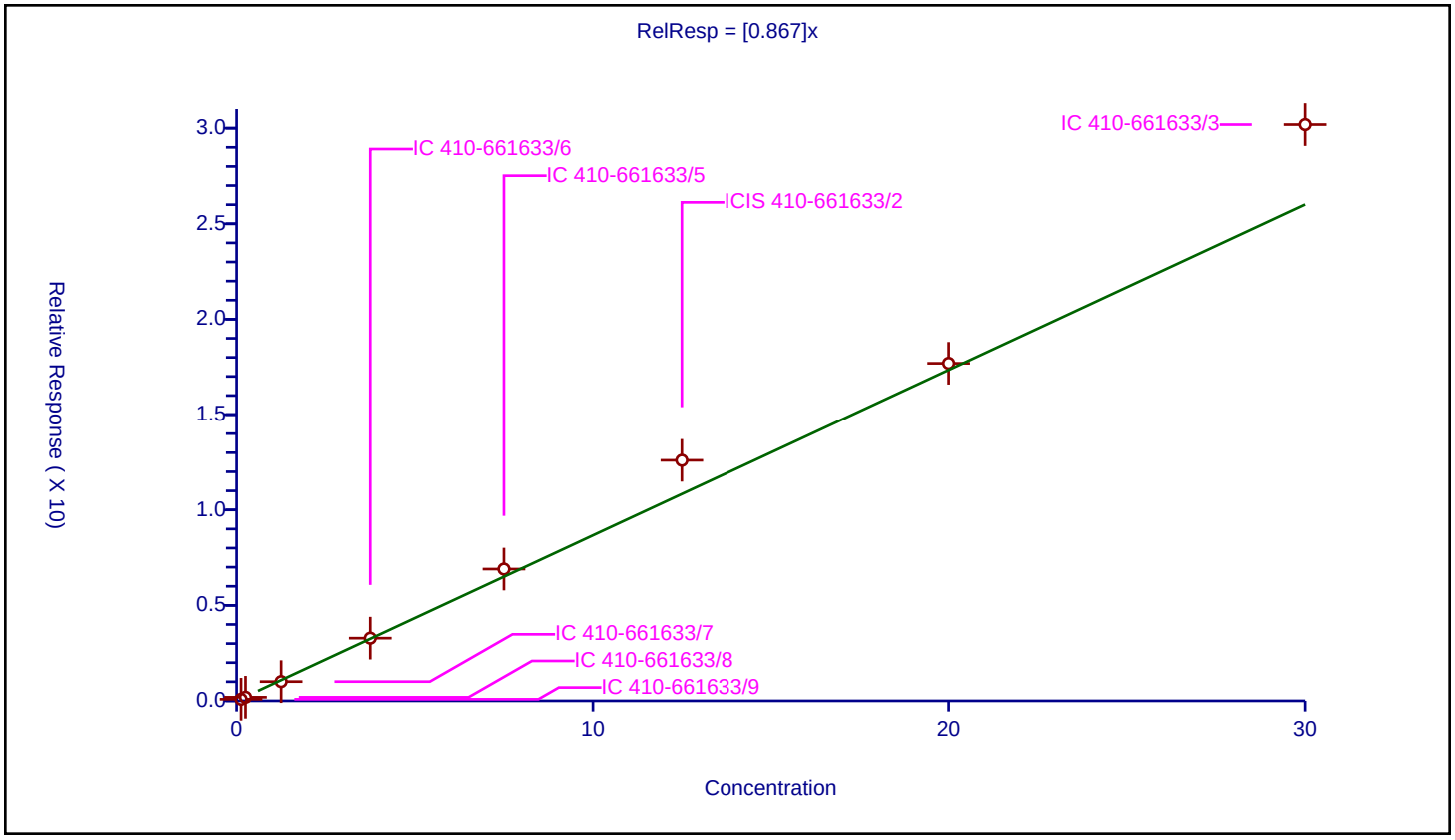
Curve Coefficients

Intercept:	0
Slope:	0.867

Error Coefficients

Relative Standard Deviation:	13.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.084926	5.0	960900.0	0.679405	Y
2	IC 410-661633/8	0.25	0.188746	5.0	1045531.0	0.754985	Y
3	IC 410-661633/7	1.25	1.007742	5.0	1097637.0	0.806194	Y
4	IC 410-661633/6	3.75	3.284148	5.0	1205602.0	0.875773	Y
5	IC 410-661633/5	7.5	6.902194	5.0	1208021.0	0.920293	Y
6	ICIS 410-661633/2	12.5	12.602495	5.0	1210811.0	1.0082	Y
7	IC 410-661633/4	20.0	17.689496	5.0	1084510.0	0.884475	Y
8	IC 410-661633/3	30.0	30.190097	5.0	1127133.0	1.006337	Y



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Calibration / Indeno[1,2,3-cd]pyrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

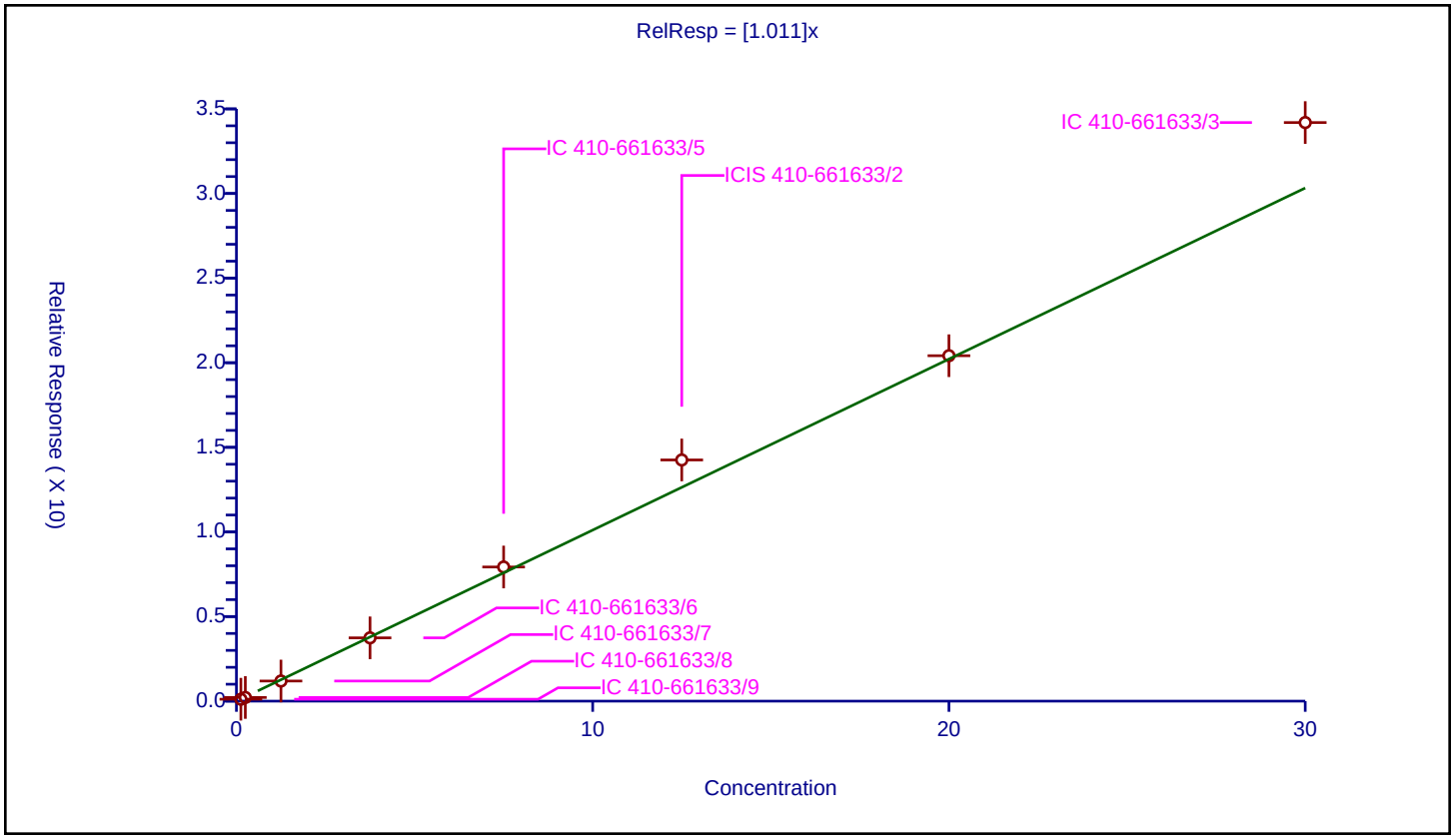
Curve Coefficients

Intercept:	0
Slope:	1.011

Error Coefficients

Relative Standard Deviation:	9.9

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.113836	5.0	960900.0	0.910688	Y
2	IC 410-661633/8	0.25	0.217134	5.0	1045531.0	0.868535	Y
3	IC 410-661633/7	1.25	1.189633	5.0	1097637.0	0.951706	Y
4	IC 410-661633/6	3.75	3.741218	5.0	1205602.0	0.997658	Y
5	IC 410-661633/5	7.5	7.926977	5.0	1208021.0	1.05693	Y
6	ICIS 410-661633/2	12.5	14.253942	5.0	1210811.0	1.140315	Y
7	IC 410-661633/4	20.0	20.413463	5.0	1084510.0	1.020673	Y
8	IC 410-661633/3	30.0	34.191795	5.0	1127133.0	1.139726	Y



7/30/2025
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Calibration / Dibenz(a,h)anthracene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

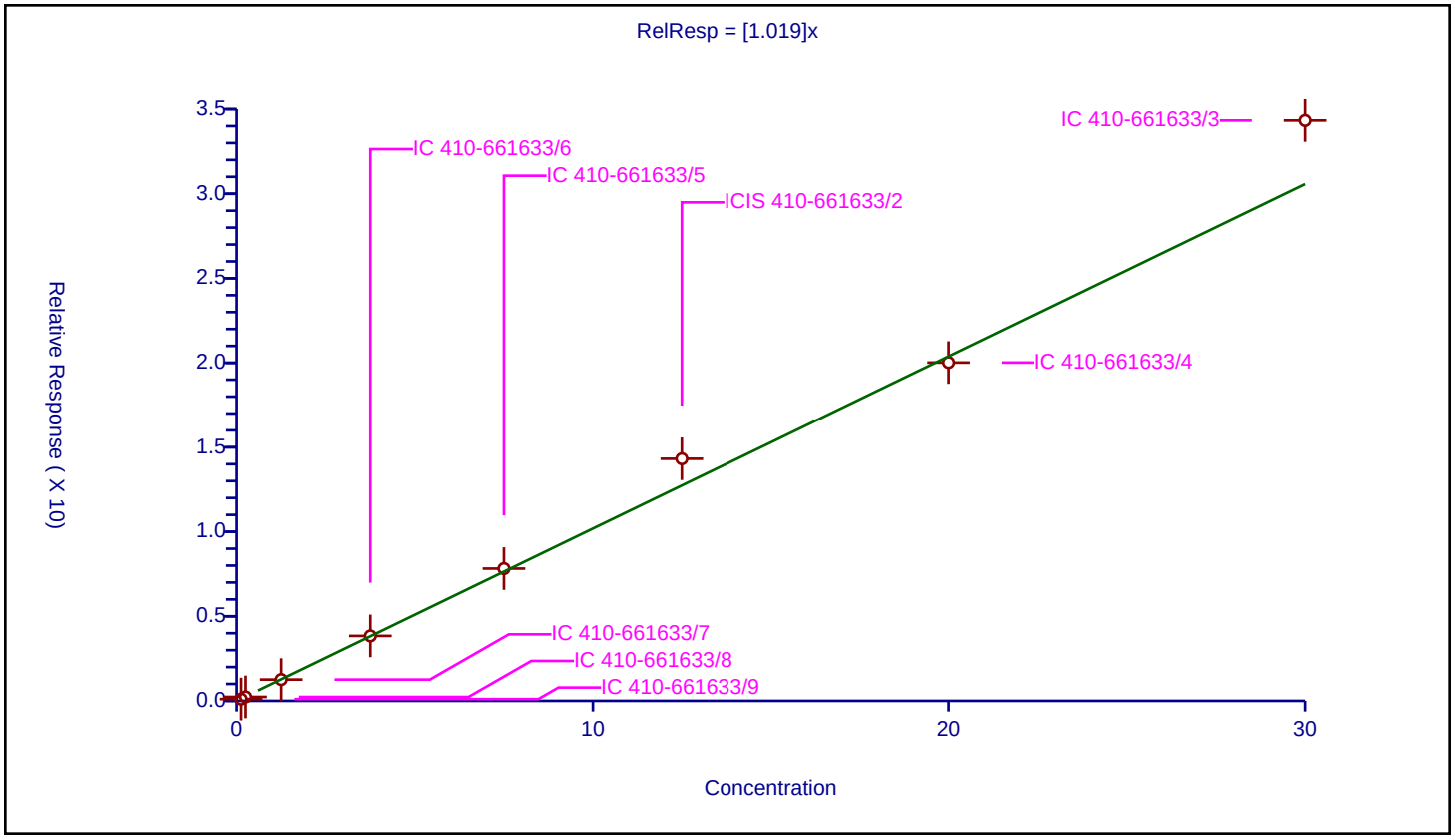
Curve Coefficients

Intercept:	0
Slope:	1.019

Error Coefficients

Relative Standard Deviation:	9.7

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.106239	5.0	960900.0	0.849912	Y
2	IC 410-661633/8	0.25	0.234316	5.0	1045531.0	0.937265	Y
3	IC 410-661633/7	1.25	1.2591	5.0	1097637.0	1.00728	Y
4	IC 410-661633/6	3.75	3.841558	5.0	1205602.0	1.024415	Y
5	IC 410-661633/5	7.5	7.82301	5.0	1208021.0	1.043068	Y
6	ICIS 410-661633/2	12.5	14.319873	5.0	1210811.0	1.14559	Y
7	IC 410-661633/4	20.0	20.015878	5.0	1084510.0	1.000794	Y
8	IC 410-661633/3	30.0	34.332701	5.0	1127133.0	1.144423	Y



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Calibration / Benzo[g,h,i]perylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

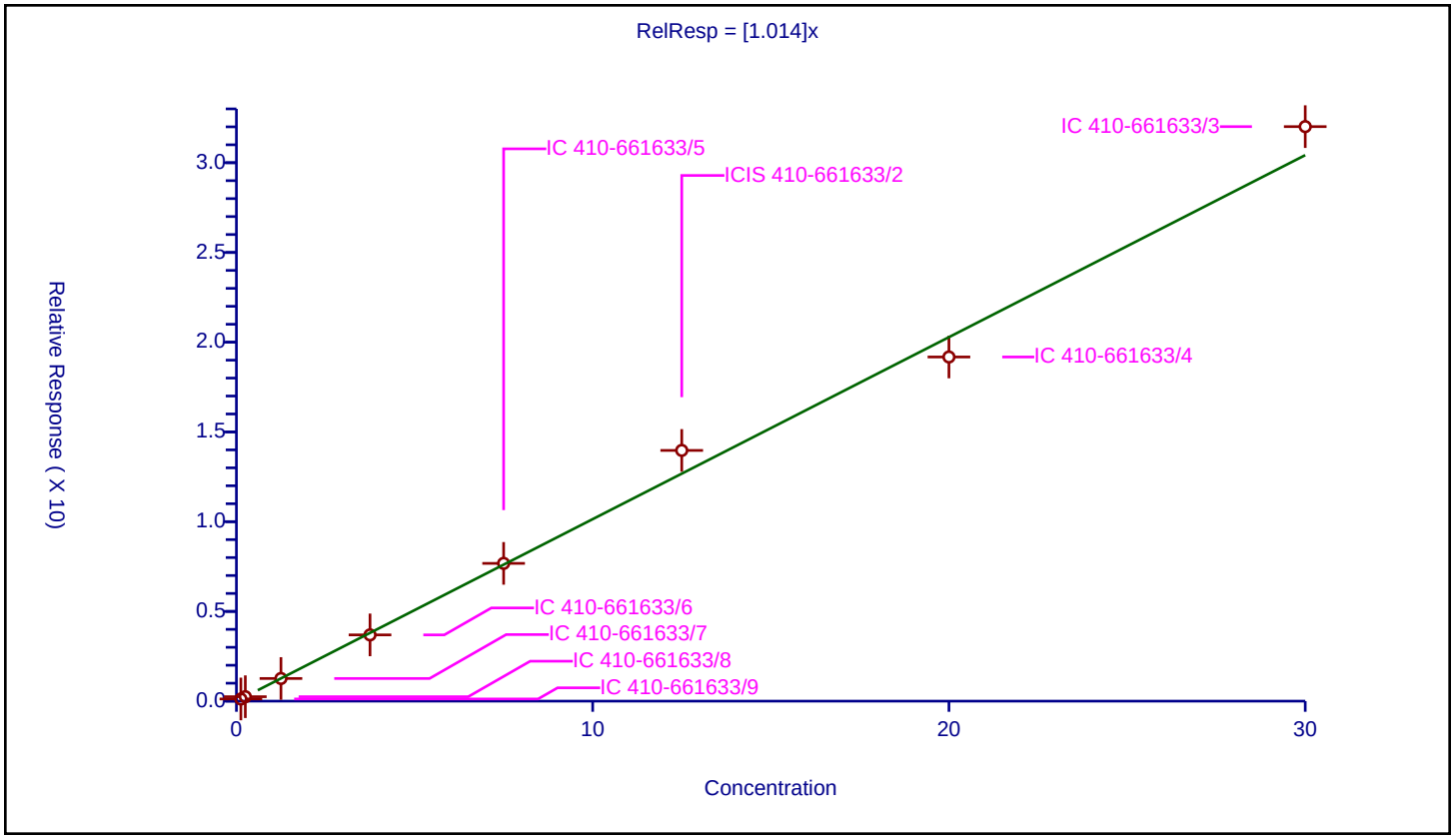
Curve Coefficients

Intercept:	0
Slope:	1.014

Error Coefficients

Relative Standard Deviation:	5.4

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-661633/9	0.125	0.120486	5.0	960900.0	0.963888	Y
2	IC 410-661633/8	0.25	0.246855	5.0	1045531.0	0.987422	Y
3	IC 410-661633/7	1.25	1.26207	5.0	1097637.0	1.009656	Y
4	IC 410-661633/6	3.75	3.691749	5.0	1205602.0	0.984466	Y
5	IC 410-661633/5	7.5	7.676506	5.0	1208021.0	1.023534	Y
6	ICIS 410-661633/2	12.5	13.970541	5.0	1210811.0	1.117643	Y
7	IC 410-661633/4	20.0	19.175918	5.0	1084510.0	0.958796	Y
8	IC 410-661633/3	30.0	32.011817	5.0	1127133.0	1.067061	Y



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FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 05/02/2025 02:25

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 05/02/2025 04:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Indene	Ave	2.537	0.2394			12.5	-90.6*	30.0
Benzoic acid	Ave	0.1579	0.0113			12.5	-92.9*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

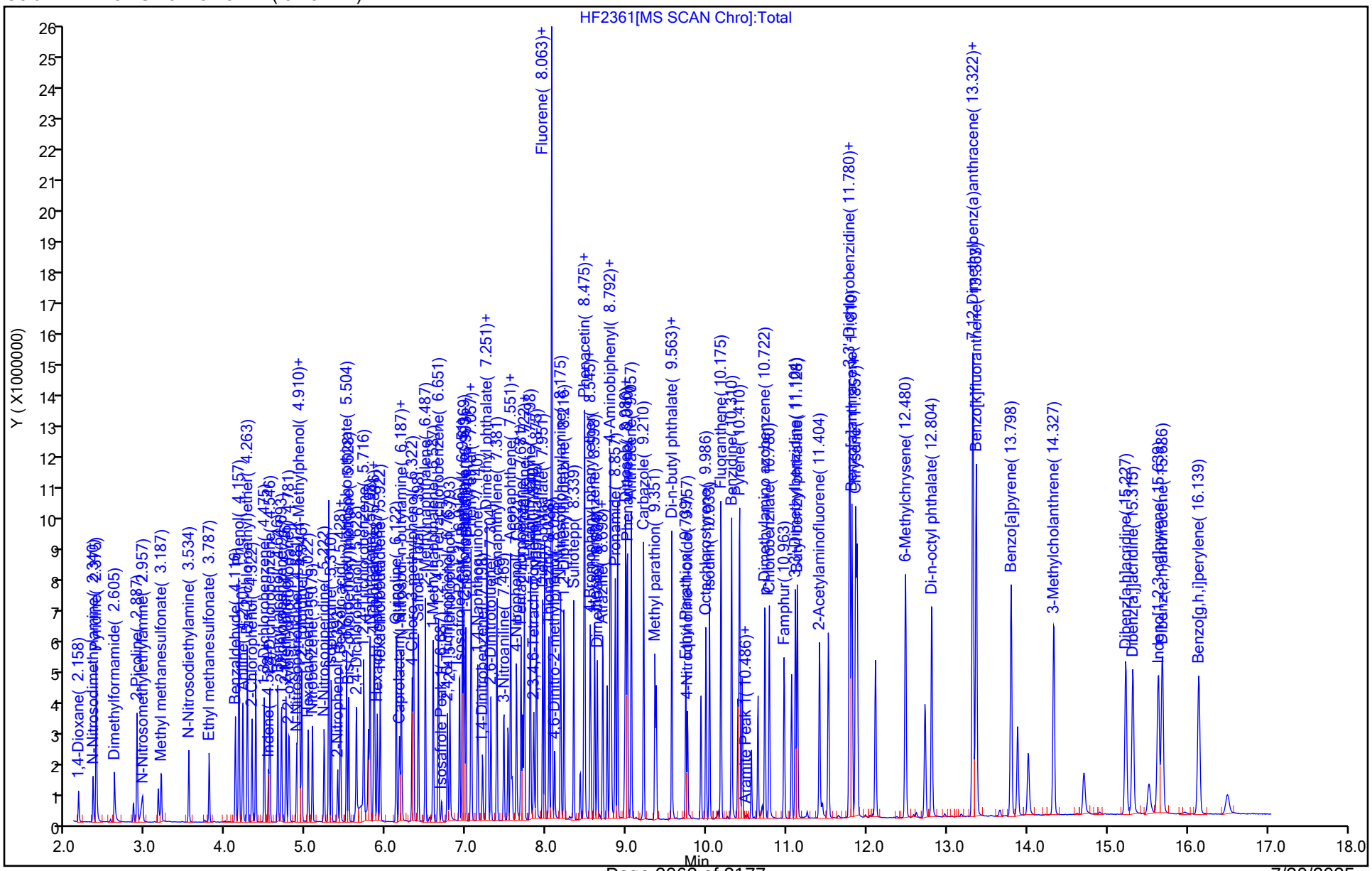
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 05/27/2025 21:33

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 05/27/2025 23:19

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Famphur	Ave	0.3356	0.0003			12.5	-99.9*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

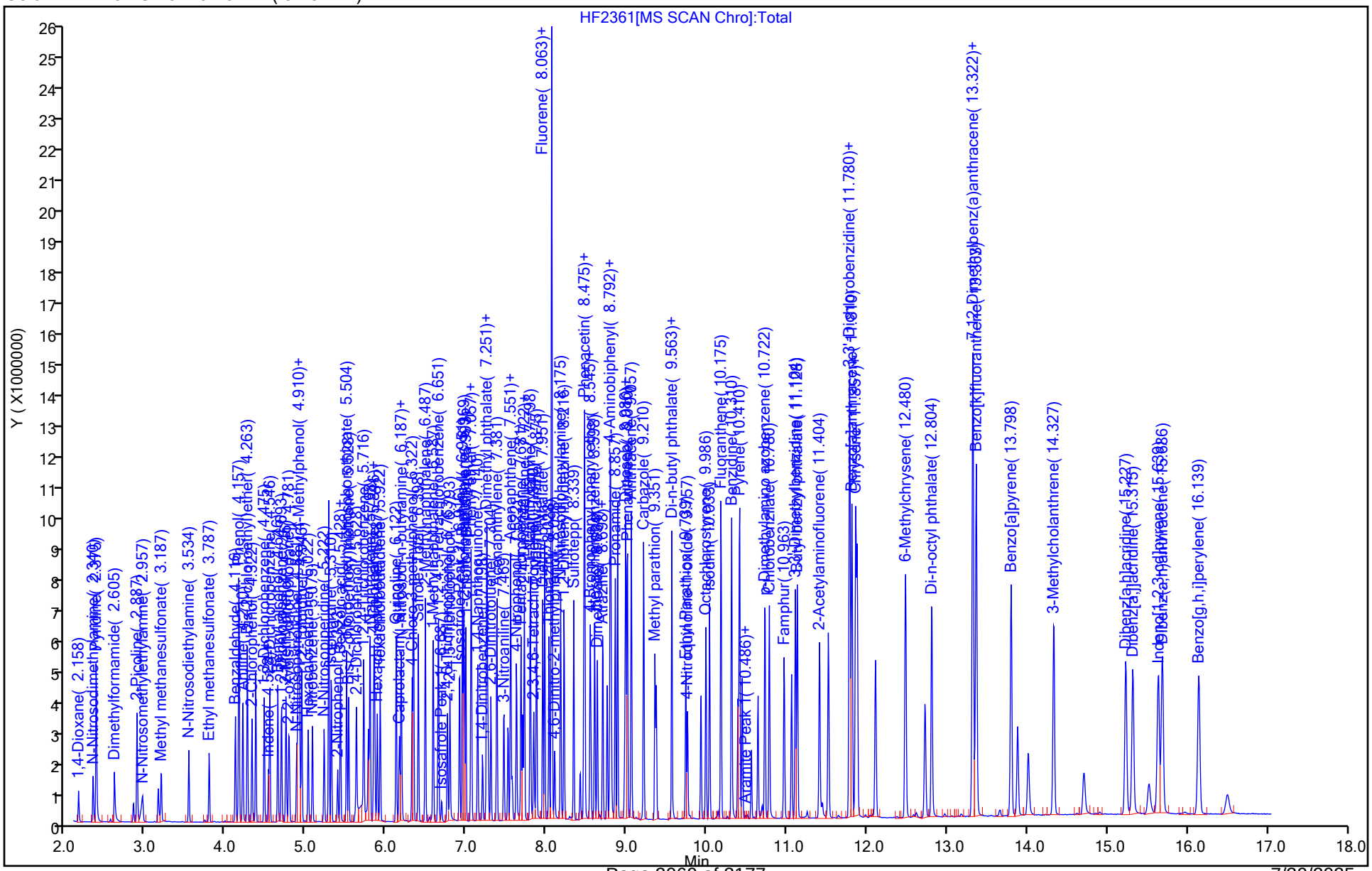
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
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FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 05/28/2025 22:54

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 05/28/2025 22:54

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Aramite Peak 1	Ave	0.0399	0.0188			1.25	-52.9*	30.0
Aramite Peak 2	Ave	0.0352	0.0188			1.25	-46.5*	30.0
Aramite Peak 3	Ave	0.1020	0.0047			5.00	-95.4*	30.0
Aramite Peak 4	Ave	0.1267	0.0047			5.00	-96.3*	30.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

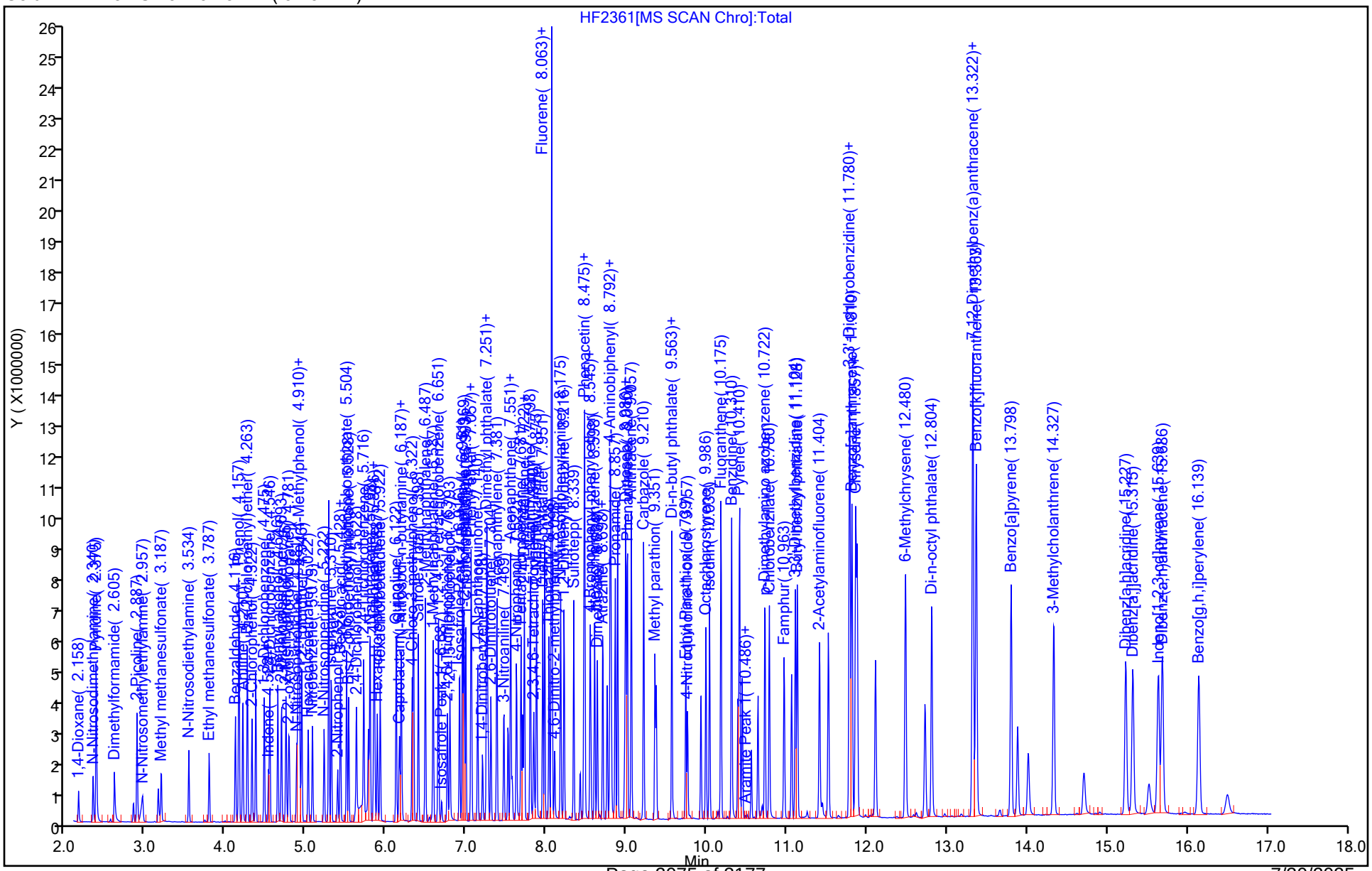
Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	ICV			Worklist Smp#:	12
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.4641		11.1	12.5	-11.4	30.0
N-Nitrosodimethylamine	Ave	0.9111	0.8429		11.6	12.5	-7.5	30.0
Pyridine	Ave	1.449	1.332		23.0	25.0	-8.0	30.0
N,N-dimethylformamide	Ave	0.9936	0.9857		12.4	12.5	-0.8	30.0
2-Picoline	Ave	1.495	1.432		12.0	12.5	-4.2	30.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6187		11.4	12.5	-8.5	30.0
Methyl methanesulfonate	Ave	0.8412	0.8145		12.1	12.5	-3.2	30.0
N-Nitrosodiethylamine	Ave	0.6682	0.6476		12.1	12.5	-3.1	30.0
Ethyl methanesulfonate	Ave	0.7584	0.7039		11.6	12.5	-7.2	30.0
Benzaldehyde	Ave	1.272	1.024	0.0100	10.1	12.5	-19.5	30.0
Phenol	Ave	1.768	1.715	0.8000	12.1	12.5	-3.0	30.0
Aniline	Ave	2.205	2.144		12.2	12.5	-2.7	30.0
Bis(2-chloroethyl)ether	Ave	1.435	1.380	0.7000	12.0	12.5	-3.8	30.0
2-Chlorophenol	Ave	1.293	1.227	0.8000	11.9	12.5	-5.1	30.0
1,3-Dichlorobenzene	Ave	1.476	1.393		11.8	12.5	-5.6	30.0
1,4-Dichlorobenzene	Ave	1.533	1.423		11.6	12.5	-7.2	30.0
Benzyl alcohol	Ave	0.9501	0.9176		12.1	12.5	-3.4	30.0
1,2-Dichlorobenzene	Ave	1.451	1.379		11.9	12.5	-5.0	30.0
2-Methylphenol	Ave	1.284	1.248	0.7000	12.2	12.5	-2.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.186	0.0100	11.6	12.5	-7.6	30.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8121		12.6	12.5	0.9	30.0
3,4-Methylphenol	Ave	1.329	1.339	0.6000	12.6	12.5	0.7	30.0
Acetophenone	Ave	2.160	2.060	0.0100	11.9	12.5	-4.6	30.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.146	0.5000	11.7	12.5	-6.1	30.0
N-Nitrosomorpholine	Ave	1.146	1.066		11.6	12.5	-7.0	30.0
o-Toluidine	Ave	2.316	2.312		12.5	12.5	-0.2	30.0
Hexachloroethane	Ave	0.6187	0.5281	0.3000	10.7	12.5	-14.6	30.0
Nitrobenzene	Ave	0.3849	0.3408	0.2000	11.1	12.5	-11.5	30.0
N-Nitrosopiperidine	Ave	0.1890	0.1785		11.8	12.5	-5.5	30.0
Isophorone	Ave	0.7472	0.7044	0.4000	11.8	12.5	-5.7	30.0
2-Nitrophenol	Ave	0.1189	0.0996*	0.1000	10.5	12.5	-16.2	30.0
2,4-Dimethylphenol	Ave	0.3495	0.3400	0.2000	12.2	12.5	-2.7	30.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1910		12.1	12.5	-3.2	30.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4325	0.3000	11.7	12.5	-6.5	30.0
2,4-Dichlorophenol	Ave	0.2634	0.2686	0.2000	12.7	12.5	2.0	30.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3192		11.9	12.5	-5.2	30.0
Naphthalene	Ave	1.027	0.9761	0.7000	11.9	12.5	-4.9	30.0
4-Chloroaniline	Ave	0.4491	0.4549	0.0100	12.7	12.5	1.3	30.0
2,6-Dichlorophenol	Ave	0.2623	0.2690		12.8	12.5	2.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachloropropene	Ave	0.2086	0.1939		11.6	12.5	-7.0	30.0
Hexachlorobutadiene	Ave	0.1985	0.1846	0.0100	11.6	12.5	-7.0	30.0
Quinoline	Ave	0.7634	0.7204		11.8	12.5	-5.6	30.0
Caprolactam	Ave	0.1121	0.1143	0.0100	12.7	12.5	1.9	30.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.2851		11.5	12.5	-7.7	30.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3041	0.2000	12.4	12.5	-0.8	30.0
Safrole, Total	Ave	0.2945	0.2855		12.1	12.5	-3.0	30.0
2-Methylnaphthalene	Ave	0.6681	0.6876	0.4000	12.9	12.5	2.9	30.0
1-Methylnaphthalene	Ave	0.6939	0.6440		11.6	12.5	-7.2	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5703	0.0100	12.0	12.5	-4.1	30.0
Isosafrole Peak 1	Ave	0.5631	0.5248		1.40	1.50	-6.8	30.0
2,4,6-Trichlorophenol	Ave	0.2995	0.2886	0.2000	12.0	12.5	-3.7	30.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4154	0.2000	13.4	12.5	6.8	30.0
Isosafrole Peak 2	Ave	0.5697	0.5702		11.0	11.0	0.0	30.0
1,1'-Biphenyl	Ave	1.473	1.452	0.0100	12.3	12.5	-1.4	30.0
2-Chloronaphthalene	Ave	1.212	1.187	0.8000	12.2	12.5	-2.1	30.0
1-Chloronaphthalene	Ave	1.070	1.076		12.6	12.5	0.6	30.0
Diphenyl ether	Ave	0.8444	0.7911		11.7	12.5	-6.3	30.0
2-Nitroaniline	Ave	0.3247	0.3335	0.0100	12.8	12.5	2.7	30.0
1,4-Naphthoquinone	Ave	0.4673	0.5148		13.8	12.5	10.2	30.0
1,4-Dinitrobenzene	Ave	0.1362	0.1303		12.0	12.5	-4.4	30.0
Dimethyl phthalate	Ave	1.394	1.387	0.0100	12.4	12.5	-0.5	30.0
1,3-Dinitrobenzene	Ave	0.1757	0.1717		12.2	12.5	-2.3	30.0
2,6-Dinitrotoluene	Ave	0.2673	0.2769	0.2000	13.0	12.5	3.6	30.0
Acenaphthylene	Ave	1.837	1.921	0.9000	13.1	12.5	4.6	30.0
3-Nitroaniline	Ave	0.3037	0.3233	0.0100	13.3	12.5	6.5	30.0
Acenaphthene	Ave	1.243	1.191	0.9000	12.0	12.5	-4.2	30.0
2,4-Dinitrophenol	Ave	0.0610	0.0536	0.0100	22.0	25.0	-12.2	30.0
4-Nitrophenol	Ave	0.1653	0.1583	0.0100	23.9	25.0	-4.2	30.0
Pentachlorobenzene	Ave	0.5739	0.5518		12.0	12.5	-3.9	30.0
2,4-Dinitrotoluene	Ave	0.3532	0.3726	0.2000	13.2	12.5	5.5	30.0
Dibenzofuran	Ave	1.746	1.697	0.8000	12.2	12.5	-2.8	30.0
1-Naphthylamine	Ave	1.227	1.138		11.6	12.5	-7.3	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3152	0.0100	11.8	12.5	-5.3	30.0
2-Naphthylamine	Ave	1.337	1.390		13.0	12.5	3.9	30.0
Diethyl phthalate	Ave	1.402	1.402	0.0100	12.5	12.5	-0.0	30.0
Thionazin	Ave	0.2174	0.2278		13.1	12.5	4.8	30.0
4-Chlorophenyl-phenyl ether	Ave	0.7087	0.6686	0.4000	11.8	12.5	-5.7	30.0
5-Nitro-o-toluidine	Ave	0.3560	0.3825		13.4	12.5	7.5	30.0
Fluorene	Ave	1.439	1.408	0.9000	12.2	12.5	-2.2	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Nitroaniline	Ave	0.3391	0.3596	0.0100	13.3	12.5	6.1	30.0
4,6-Dinitro-2-methylphenol	Qua2		0.0414	0.0100	21.2	25.0	-15.2	30.0
N-Nitrosodiphenylamine	Ave	0.5943	0.5931	0.0100	10.6	10.6	-0.2	30.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7210		12.2	12.5	-2.4	30.0
Sulfotepp	Ave	0.1209	0.1153		11.9	12.5	-4.7	30.0
1,3,5-Trinitrobenzene	Qua2		0.0450			12.5	-7.4	30.0
cis-Diallate	Ave	0.2849	0.3124		10.3	9.38	9.6	30.0
Phenacetin	Ave	0.3359	0.3522		13.1	12.5	4.9	30.0
Phorate	Ave	0.4442	0.4382		12.3	12.5	-1.4	30.0
4-Bromophenyl-phenylether	Ave	0.2218	0.2169	0.1000	12.2	12.5	-2.2	30.0
trans-Diallate	Ave	0.3197	0.3032		2.97	3.13	-5.1	30.0
Hexachlorobenzene	Ave	0.2657	0.2464	0.1000	11.6	12.5	-7.2	30.0
Dimethoate	Lin1		0.2749		12.2	12.5	-2.5	30.0
Atrazine	Ave	0.2108	0.2056	0.0100	12.2	12.5	-2.5	30.0
Pentachlorophenol	Lin1		0.1016	0.0500	20.7	25.0	-17.2	30.0
4-Aminobiphenyl	Ave	0.8505	0.8020		11.8	12.5	-5.7	30.0
Pentachloronitrobenzene	Ave	0.0920	0.0887		12.0	12.5	-3.7	30.0
Pronamide	Ave	0.3380	0.3395		12.6	12.5	0.4	30.0
Dinoseb	Ave	0.0748	0.0654		10.9	12.5	-12.7	30.0
Disulfoton	Lin2		0.4349		12.2	12.5	-2.3	30.0
Phenanthrene	Ave	1.114	1.051	0.7000	11.8	12.5	-5.7	30.0
Anthracene	Ave	1.093	1.100	0.7000	12.6	12.5	0.6	30.0
Carbazole	Ave	1.023	1.029	0.0100	12.6	12.5	0.5	30.0
Methyl parathion	Ave	0.1925	0.2207		14.3	12.5	14.6	30.0
Di-n-butyl phthalate	Ave	1.096	1.217	0.0100	13.9	12.5	11.0	30.0
Parathion	Ave	0.1208	0.1309		13.5	12.5	8.3	30.0
4-Nitroquinoline-1-oxide	Qua2		0.0880		12.3	12.5	-2.0	30.0
Octachlorostyrene	Ave	0.1097	0.1087		12.4	12.5	-0.9	30.0
Isodrin	Ave	0.1396	0.1314		11.8	12.5	-5.9	30.0
Fluoranthene	Ave	1.244	1.294	0.6000	13.0	12.5	4.0	30.0
Benzidine	Ave	0.7336	1.006		17.2	12.5	37.2*	30.0
Pyrene	Ave	1.226	1.172	0.6000	12.0	12.5	-4.4	30.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2615		14.7	12.5	17.9	30.0
Chlorobenzilate	Ave	0.3103	0.3352		13.5	12.5	8.0	30.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.7464		12.7	12.5	1.3	30.0
Butylbenzylphthalate	Ave	0.4497	0.4843	0.0100	13.5	12.5	7.7	30.0
2-Acetylaminofluorene	Ave	0.4183	0.4150		12.4	12.5	-0.8	30.0
3,3'-Dichlorobenzidine	Ave	0.4602	0.7039	0.0100	19.1	12.5	53.0*	30.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2634		13.9	12.5	11.1	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICV 410-661633/12 Calibration Date: 06/24/2025 00:42

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF2361.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.193	1.244	0.8000	13.0	12.5	4.3	30.0
Chrysene	Ave	1.157	1.180	0.7000	12.8	12.5	2.0	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7063	0.0100	12.9	12.5	3.0	30.0
6-Methylchrysene	Ave	0.8284	0.8684		13.1	12.5	4.8	30.0
Di-n-octyl phthalate	Lin2		1.131	0.0100	12.5	12.5	0.3	30.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5575		13.2	12.5	5.3	30.0
Benzo[b]fluoranthene	Ave	1.242	1.285	0.7000	12.9	12.5	3.5	30.0
Benzo[k]fluoranthene	Ave	1.234	1.204	0.7000	12.2	12.5	-2.4	30.0
Benzo[a]pyrene	Ave	1.103	1.134	0.7000	12.9	12.5	2.8	30.0
3-Methylcholanthrene	Ave	0.5600	0.5955		13.3	12.5	6.3	30.0
Dibenz[a,h]acridine	Ave	0.8479	0.9605		14.2	12.5	13.3	30.0
Dibenz[a,j]acridine	Ave	0.8670	0.9537		13.8	12.5	10.0	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.013	0.5000	12.5	12.5	0.3	30.0
Dibenz(a,h)anthracene	Ave	1.019	1.079	0.4000	13.2	12.5	5.9	30.0
Benzo[g,h,i]perylene	Ave	1.014	1.004	0.5000	12.4	12.5	-1.0	30.0
1,4-phenylenediamine	Ave	0.4225				12.5		
Hexachlorocyclopentadiene	Ave	0.3741				12.5		

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 24-Jun-2025 00:42:30 ALS Bottle#: 11 Worklist Smp#: 12
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 410-0151283-012
Operator ID: IR93211 Instrument ID: HP18831
Sublist:

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:24:46 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:24:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.158	2.158	0.000	98	271928	12.5	11.1	
2 N-Nitrosodimethylamine	74	2.340	2.340	0.000	91	493863	12.5	11.6	
3 Pyridine	79	2.375	2.381	-0.006	90	1561065	25.0	23.0	
4 Dimethylformamide	73	2.605	2.610	-0.005	95	577496	12.5	12.4	
5 2-Picoline	93	2.887	2.887	0.000	96	839085	12.5	12.0	
6 N-Nitrosomethylethylamine	88	2.957	2.957	0.000	95	362507	12.5	11.4	
9 Methyl methanesulfonate	80	3.193	3.187	0.006	86	477178	12.5	12.1	
11 N-Nitrosodiethylamine	102	3.534	3.534	0.000	94	379418	12.5	12.1	
13 Ethyl methanesulfonate	109	3.787	3.787	0.000	99	412423	12.5	11.6	
15 Benzaldehyde	77	4.116	4.116	0.000	96	599905	12.5	10.1	
17 Phenol	94	4.157	4.157	0.000	99	1004876	12.5	12.1	
18 Aniline	93	4.210	4.210	0.000	96	1256255	12.5	12.2	
19 Bis(2-chloroethyl)ether	93	4.263	4.263	0.000	94	808609	12.5	12.0	
20 2-Chlorophenol	128	4.322	4.322	0.000	98	718978	12.5	11.9	
22 1,3-Dichlorobenzene	146	4.475	4.475	0.000	97	815960	12.5	11.8	
* 23 1,4-Dichlorobenzene-d4	152	4.528	4.528	0.000	96	234353	5.00	5.00	
28 Indene	115	4.528	4.534	-0.006	51	140238	NC	NC	
24 1,4-Dichlorobenzene	146	4.546	4.546	0.000	93	833829	12.5	11.6	
26 Benzyl alcohol	108	4.646	4.646	0.000	91	537606	12.5	12.1	
27 1,2-Dichlorobenzene	146	4.693	4.693	0.000	96	808152	12.5	11.9	
30 2-Methylphenol	108	4.746	4.746	0.000	99	730957	12.5	12.1	
32 2,2'-oxybis[1-chloropropane]	45	4.781	4.781	0.000	93	1280717	12.5	11.6	
33 N-Nitrosopyrrolidine	100	4.881	4.881	0.000	87	475805	12.5	12.6	
36 4-Methylphenol	108	4.899	4.893	0.006	94	784415	12.5	12.6	
35 N-Nitrosodi-n-propylamine	70	4.910	4.904	0.006	78	671159	12.5	11.7	
34 Acetophenone	105	4.910	4.910	0.000	91	1206739	12.5	11.9	
37 N-Nitrosomorpholine	56	4.922	4.922	0.000	93	624736	12.5	11.6	
38 2-Toluidine	106	4.946	4.940	0.006	96	1354275	12.5	12.5	
40 Hexachloroethane	117	5.022	5.022	0.000	93	309425	12.5	10.7	
42 Nitrobenzene	77	5.075	5.075	0.000	90	846008	12.5	11.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	43 N-Nitrosopiperidine	114	5.222	5.222	0.000	81	443106	12.5	11.8	
	50 Benzoic acid	105	5.428	5.287	0.141	55	27932	NC	NC	
	45 Isophorone	82	5.310	5.310	0.000	99	1748385	12.5	11.8	
	46 2-Nitrophenol	139	5.393	5.393	0.000	97	247341	12.5	10.5	
	48 2,4-Dimethylphenol	107	5.428	5.428	0.000	96	843850	12.5	12.2	
	49 o,o',o''-Triethylphosphorothioat	198	5.504	5.504	0.000	83	474141	12.5	12.1	a
	51 Bis(2-chloroethoxy)methane	93	5.528	5.528	0.000	98	1073634	12.5	11.7	
	52 2,4-Dichlorophenol	162	5.628	5.628	0.000	95	666629	12.5	12.7	
	53 1,2,4-Trichlorobenzene	180	5.716	5.716	0.000	94	792231	12.5	11.9	
*	54 Naphthalene-d8	136	5.775	5.775	0.000	100	992854	5.00	5.00	
	55 Naphthalene	128	5.798	5.798	0.000	98	2422901	12.5	11.9	
	57 4-Chloroaniline	127	5.846	5.840	0.006	96	1129068	12.5	12.7	
	58 2,6-Dichlorophenol	162	5.851	5.851	0.000	97	667644	12.5	12.8	
	59 Hexachloropropene	213	5.887	5.887	0.000	89	481322	12.5	11.6	
	60 Hexachlorobutadiene	225	5.922	5.922	0.000	95	458187	12.5	11.6	
	62 Quinoline	129	6.122	6.122	0.000	96	1788048	12.5	11.8	
	63 Caprolactam	113	6.163	6.157	0.006	76	283683	12.5	12.7	
	64 N-Nitrosodi-n-butylamine	84	6.187	6.181	0.006	93	707733	12.5	11.5	
	39 p-Phenylene diamine	108		6.187				12.5	ND	7
	66 4-Chloro-3-methylphenol	107	6.322	6.322	0.000	97	754857	12.5	12.4	
	67 Safrole, Total	162	6.398	6.398	0.000	90	708663	12.5	12.1	a
	68 2-Methylnaphthalene	142	6.487	6.487	0.000	92	1706760	12.5	12.9	
	69 1-Methylnaphthalene	142	6.587	6.581	0.006	93	1598588	12.5	11.6	
	71 Hexachlorocyclopentadiene	237		6.645				ND	ND	U
	72 1,2,4,5-Tetrachlorobenzene	216	6.651	6.651	0.000	97	882643	12.5	12.0	
	73 Isosafrole Peak 1	162	6.693	6.687	0.006	92	97458	1.50	1.40	
	74 2,4,6-Trichlorophenol	196	6.763	6.763	0.000	93	446577	12.5	12.0	
	75 2,4,5-Trichlorophenol	196	6.793	6.793	0.000	95	642871	12.5	13.3	
	77 Isosafrole Peak 2	162	6.916	6.910	0.006	94	776629	11.0	11.0	
	78 1,1'-Biphenyl	154	6.951	6.951	0.000	95	2247764	12.5	12.3	
	79 2-Chloronaphthalene	162	6.969	6.969	0.000	96	1836864	12.5	12.2	
	80 1-Chloronaphthalene	162	6.993	6.992	0.000	99	1665722	12.5	12.6	
	81 Phenyl ether	170	7.057	7.057	0.000	89	1224310	12.5	11.7	
	82 2-Nitroaniline	138	7.063	7.063	0.000	81	516111	12.5	12.8	
	84 1,4-Naphthoquinone	158	7.140	7.140	0.000	90	796701	12.5	13.8	
	85 1,4-Dinitrobenzene	168	7.198	7.198	0.000	93	201584	12.5	12.0	
	86 Dimethyl phthalate	163	7.251	7.251	0.000	99	2146206	12.5	12.4	
	87 1,3-Dinitrobenzene	168	7.269	7.269	0.000	83	265692	12.5	12.2	
	88 2,6-Dinitrotoluene	165	7.304	7.304	0.000	95	428543	12.5	13.0	
	89 Acenaphthylene	152	7.381	7.381	0.000	98	2973773	12.5	13.1	
	90 3-Nitroaniline	138	7.469	7.463	0.006	94	500396	12.5	13.3	
*	91 Acenaphthene-d10	164	7.516	7.516	0.000	95	619056	5.00	5.00	
	93 Acenaphthene	153	7.551	7.551	0.000	96	1842517	12.5	12.0	
	94 2,4-Dinitrophenol	184	7.569	7.569	0.000	84	165817	25.0	22.0	
	95 4-Nitrophenol	109	7.622	7.622	0.000	97	489858	25.0	23.9	
	96 Pentachlorobenzene	250	7.681	7.681	0.000	98	853946	12.5	12.0	
	98 2,4-Dinitrotoluene	165	7.704	7.698	0.006	95	576604	12.5	13.2	
	97 Dibenzofuran	168	7.722	7.722	0.000	96	2626816	12.5	12.2	
	99 1-Naphthylamine	143	7.798	7.792	0.006	99	1761314	12.5	11.6	
	101 2,3,4,6-Tetrachlorophenol	232	7.840	7.839	0.001	72	487801	12.5	11.8	
	103 2-Naphthylamine	143	7.875	7.875	0.000	97	2151522	12.5	13.0	
	104 Diethyl phthalate	149	7.951	7.951	0.000	98	2169245	12.5	12.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
106 Thionazin	107	8.028	8.028	0.000	80	352622	12.5	13.1	a
105 Fluorene	166	8.063	8.057	0.006	93	2178361	12.5	12.2	
108 4-Chlorophenyl phenyl ether	204	8.063	8.063	0.000	85	1034715	12.5	11.8	
107 N-Nitro-o-toluidine	152	8.063	8.063	0.000	73	591969	12.5	13.4	
109 4-Nitroaniline	138	8.069	8.063	0.006	85	556557	12.5	13.3	
110 4,6-Dinitro-2-methylphenol	198	8.098	8.098	0.000	83	262928	25.0	21.2	
111 N-Nitrosodiphenylamine	169	8.175	8.175	0.000	71	1598941	10.6	10.6	
112 1,2-Diphenylhydrazine	77	8.216	8.216	0.000	99	2286981	12.5	12.2	
114 Sulfotepp	97	8.339	8.339	0.000	80	365717	12.5	11.9	a
172 1,3,5-Trinitrobenzene	213	8.422	8.416	0.006	84	142757	12.5	11.6	7a
115 cis-Diallate	86	8.463	8.463	0.000	85	743183	9.38	10.3	a
117 Phenacetin	108	8.475	8.469	0.006	95	1117253	12.5	13.1	
116 Phorate	75	8.475	8.469	0.006	95	1390013	12.5	12.3	a
118 4-Bromophenyl phenyl ether	248	8.545	8.545	0.000	66	688134	12.5	12.2	
119 trans-Diallate	86	8.551	8.551	0.000	90	240469	3.13	2.96	a
120 Hexachlorobenzene	284	8.598	8.598	0.000	96	781652	12.5	11.6	
121 Dimethoate	87	8.634	8.628	0.006	95	871830	12.5	12.2	a
122 Atrazine	200	8.704	8.698	0.006	93	652240	12.5	12.2	
123 Pentachlorophenol	266	8.792	8.792	0.000	93	644455	25.0	20.7	
125 4-Aminobiphenyl	169	8.798	8.792	0.006	91	2543931	12.5	11.8	
124 Pentachloronitrobenzene	237	8.804	8.804	0.000	87	281315	12.5	12.0	
126 Pronamide	173	8.857	8.857	0.000	91	1076750	12.5	12.6	
128 Dinoseb	211	8.975	8.975	0.000	97	207309	12.5	10.9	
* 127 Phenanthrene-d10	188	8.981	8.981	0.000	97	1268761	5.00	5.00	
70 Disulfoton	88	8.986	8.986	0.000	97	1379568	12.5	12.2	a
129 Phenanthrene	178	9.010	9.004	0.006	97	3333178	12.5	11.8	
130 Anthracene	178	9.057	9.057	0.000	97	3488000	12.5	12.6	
131 Carbazole	167	9.210	9.210	0.000	96	3263490	12.5	12.6	
132 Methyl parathion	109	9.351	9.351	0.000	95	699975	12.5	14.3	a
133 Di-n-butyl phthalate	149	9.563	9.563	0.000	100	3860686	12.5	13.9	
S 65 Diallate	86				0		12.5	13.2	
134 Ethyl Parathion	109	9.739	9.733	0.006	86	415071	12.5	13.5	a
135 4-Nitroquinoline-1-oxide	190	9.757	9.757	0.000	91	279225	12.5	12.3	
136 Octachlorostyrene	308	9.986	9.986	0.000	91	344915	12.5	12.4	
137 Isodrin	193	10.033	10.033	0.000	94	416689	12.5	11.8	
138 Fluoranthene	202	10.175	10.175	0.000	98	4104533	12.5	13.0	
139 Benzidine	184	10.310	10.310	0.000	99	3631653	12.5	17.1	
174 Aramite Peak 1	185	10.486	10.363	0.123	0	6794	NC	NC	
175 Aramite Peak 2	185	10.486	10.380	0.106	0	6794	NC	NC	
* 140 Pyrene-d10 (IS)	212	10.386	10.386	0.000	99	1443662	5.00	5.00	
141 Pyrene	202	10.410	10.404	0.006	98	4229793	12.5	12.0	
170 Aramite Peak 3	185	10.486	10.433	0.053	0	6794	NC	NC	
168 Aramite Peak 4	185	10.486	10.510	-0.024	0	6794	NC	NC	
143 p-Dimethylamino azobenzene	225	10.728	10.722	0.006	94	943810	12.5	14.7	
144 Chlorobenzilate	139	10.780	10.780	0.000	93	1209969	12.5	13.5	
100 Famphur	218	10.969	10.851	0.118	50	968	NC	NC	
145 3,3'-Dimethylbenzidine	212	11.104	11.104	0.000	99	2693938	12.5	12.7	
146 Butyl benzyl phthalate	149	11.128	11.128	0.000	98	1747761	12.5	13.5	
147 2-Acetylaminofluorene	181	11.404	11.404	0.000	94	1497665	12.5	12.4	
S 92 Aramite, Total	185		11.583				12.5	ND	7
149 3,3'-Dichlorobenzidine	252	11.780	11.780	0.000	74	2540574	12.5	19.1	
150 4,4'-Methylene bis(2-chloroani	231	11.786	11.786	0.000	95	950665	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.810	11.810	0.000	98	4490225	12.5	13.0	
151 Chrysene	228	11.857	11.857	0.000	97	4258396	12.5	12.7	
152 Bis(2-ethylhexyl) phthalate	149	11.875	11.875	0.000	98	2549010	12.5	12.9	
153 6-Methylchrysene	242	12.480	12.480	0.000	99	3134354	12.5	13.1	a
154 Di-n-octyl phthalate	149	12.804	12.804	0.000	99	4202054	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.322	13.316	0.006	89	2070704	12.5	13.2	
155 Benzo[b]fluoranthene	252	13.322	13.316	0.006	97	4774385	12.5	12.9	
157 Benzo[k]fluoranthene	252	13.363	13.357	0.006	99	4470422	12.5	12.2	
158 Benzo[a]pyrene	252	13.798	13.792	0.006	76	4212095	12.5	12.8	
* 159 Perylene-d12	264	13.880	13.880	0.000	99	1485625	5.00	5.00	
160 3-Methylcholanthrene	268	14.333	14.327	0.006	91	2211742	12.5	13.3	a
161 Dibenz[a,h]acridine	279	15.227	15.227	0.000	90	3567200	12.5	14.2	
162 Dibenz[a,j]acridine	279	15.315	15.310	0.005	97	3542241	12.5	13.8	
163 Indeno[1,2,3-cd]pyrene	276	15.639	15.633	0.006	99	3764075	12.5	12.5	
164 Dibenz(a,h)anthracene	278	15.686	15.680	0.006	92	4006564	12.5	13.2	
165 Benzo[g,h,i]perylene	276	16.139	16.133	0.006	98	3729630	12.5	12.4	
S 166 Isosafrole	162				0		12.5	12.4	

QC Flag Legend

Processing Flags
- NC - Not Calibrated
- ND - Not Detected or Marked ND
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

MSS_RV8270ICV_00037 Amount Added: 1.00 Units: mL

Report Date: 24-Jun-2025 10:25:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D

Injection Date: 24-Jun-2025 00:42:30 Instrument ID: HP18831 Operator ID: IR93211

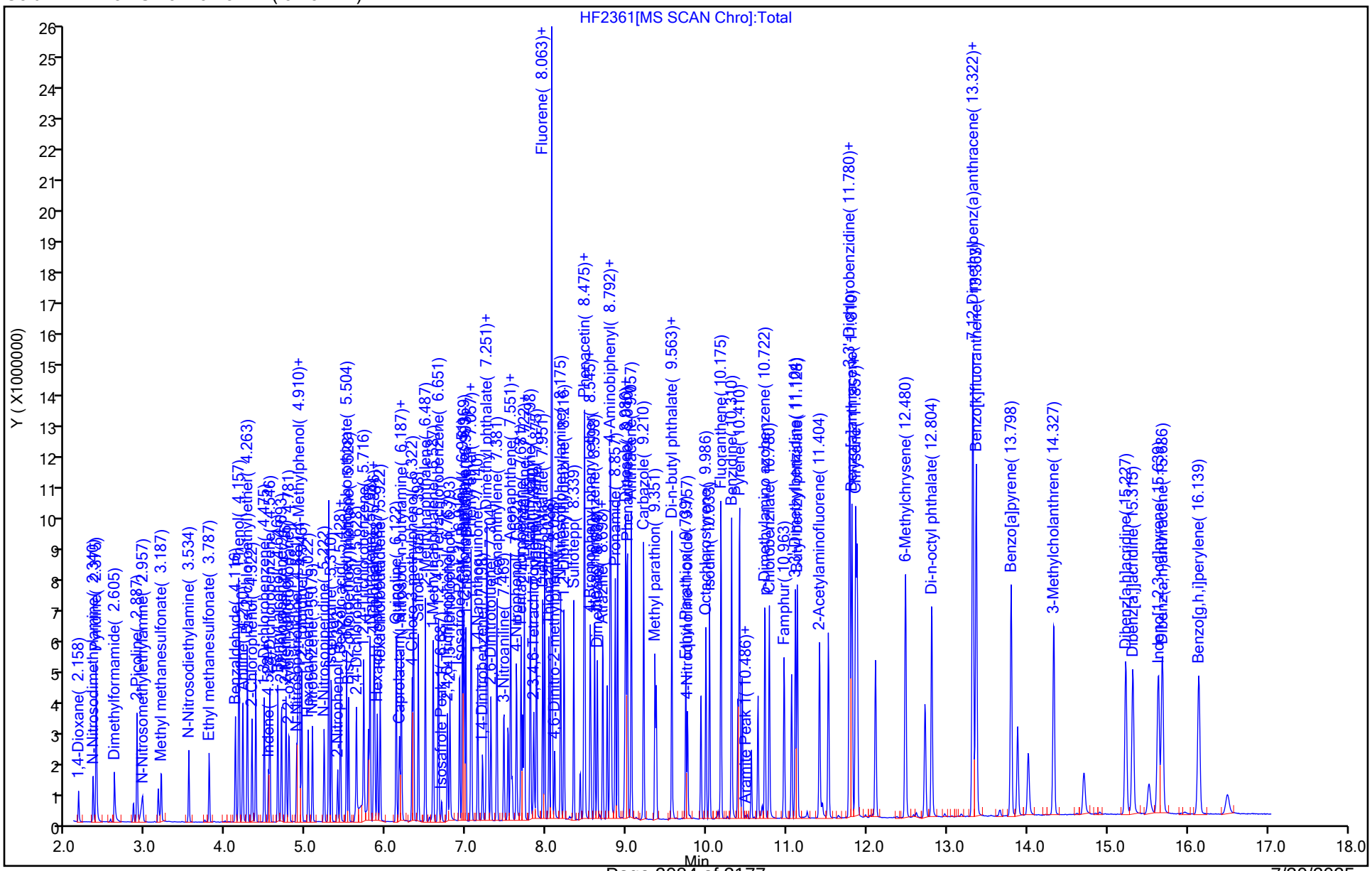
Lims ID: ICV Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 11

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

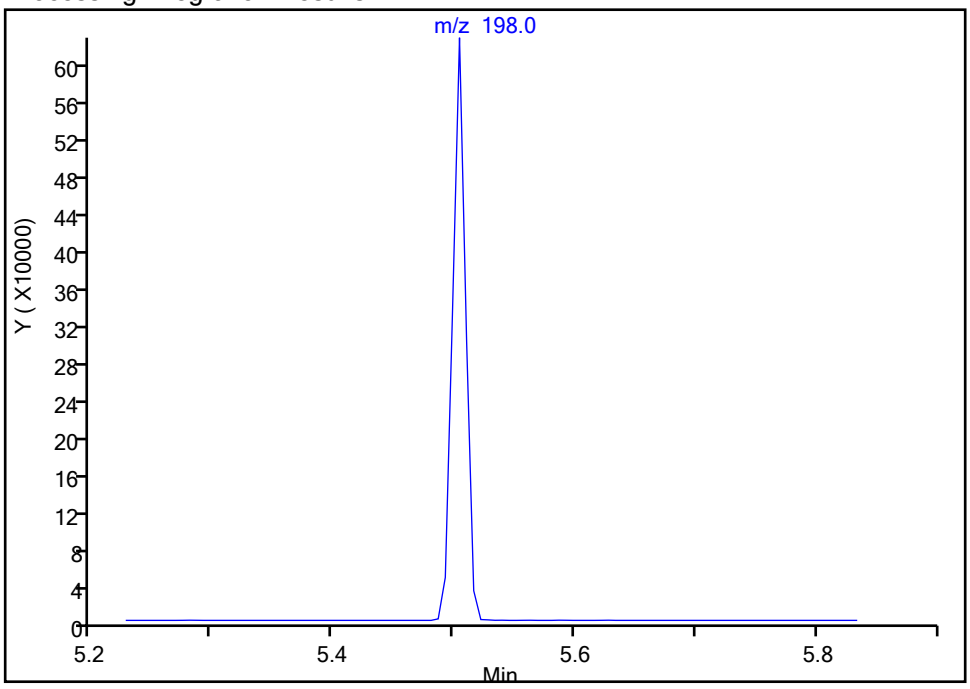
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

49 o,o',o''-Triethylphosphorothioat, CAS: 126-68-1

Signal: 1

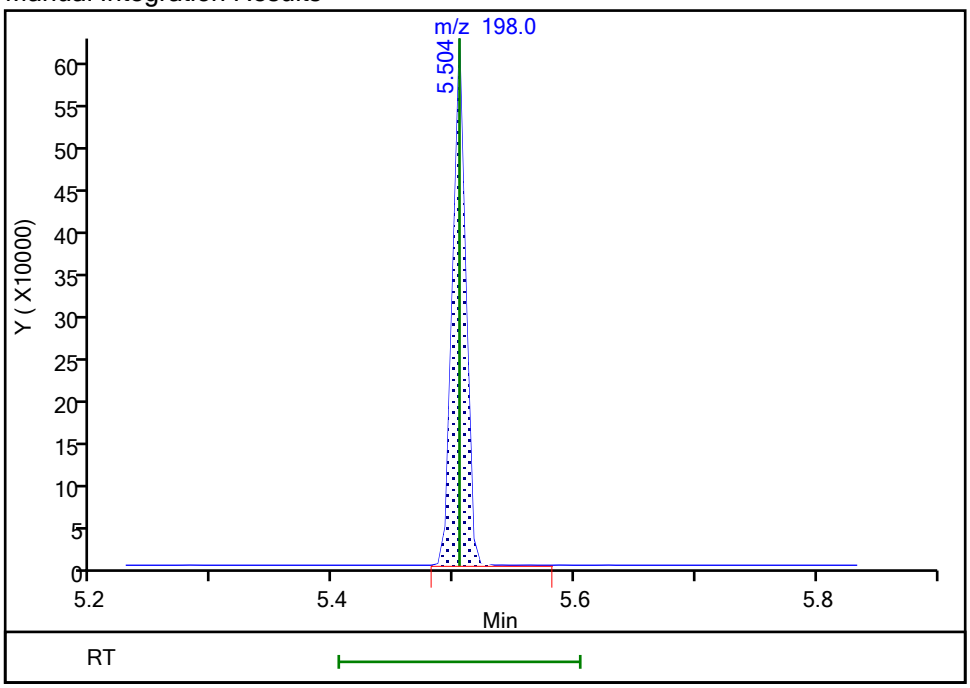
Not Detected
Expected RT: 5.50

Processing Integration Results



Manual Integration Results

RT: 5.50
Area: 474141
Amount: 12.105236
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:37:43 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

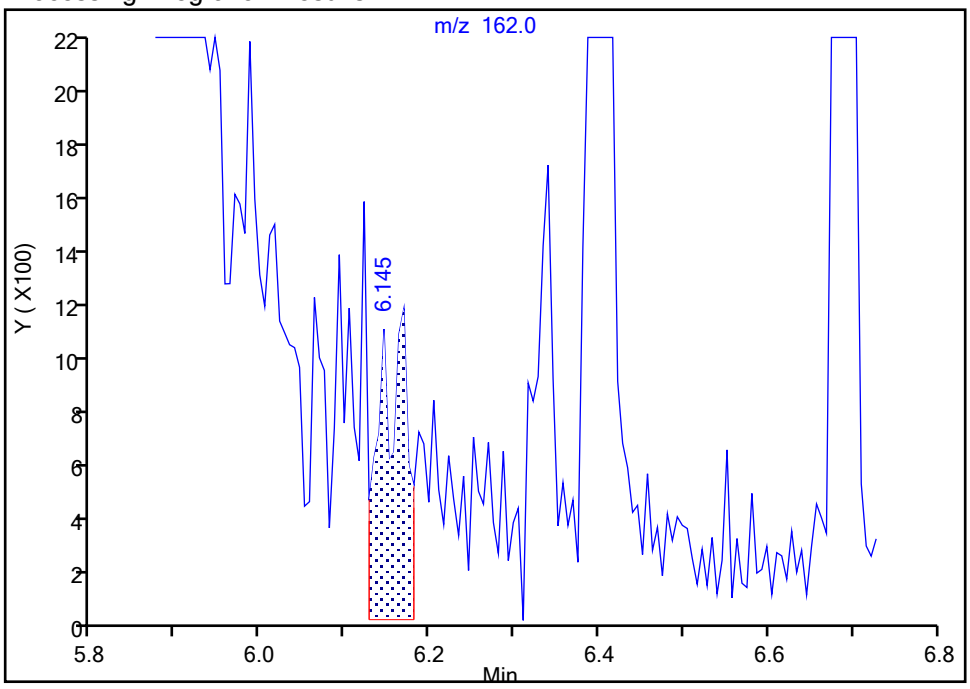
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

67 Safrole, Total, CAS: 94-59-7

Signal: 1

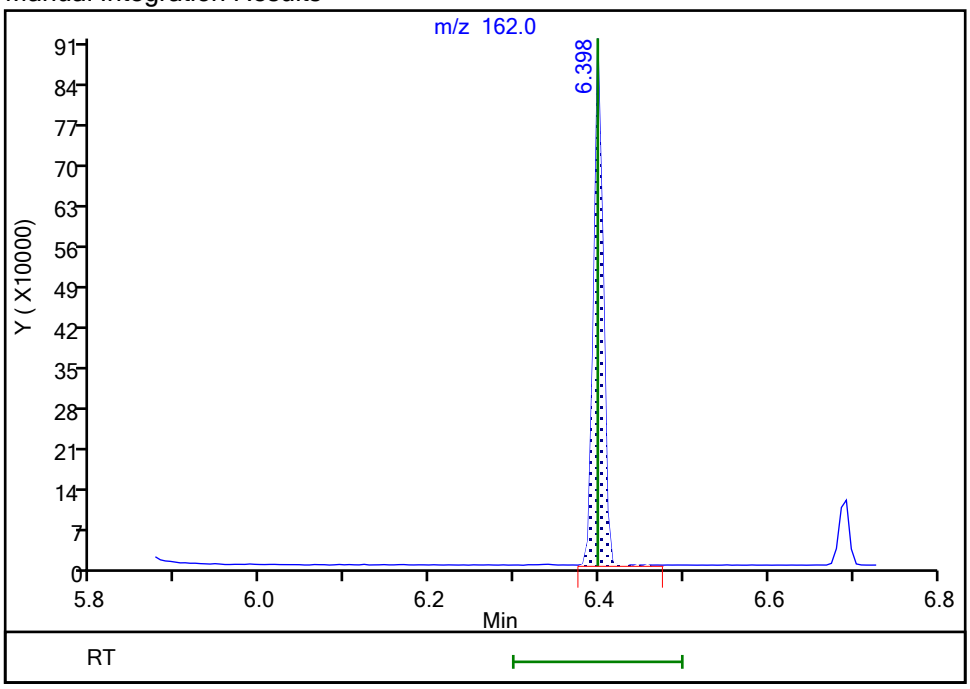
Processing Integration Results

RT: 6.15
Area: 2458
Amount: 0.042037
Amount Units: ug/ml



Manual Integration Results

RT: 6.40
Area: 708663
Amount: 12.119655
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:37:52 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

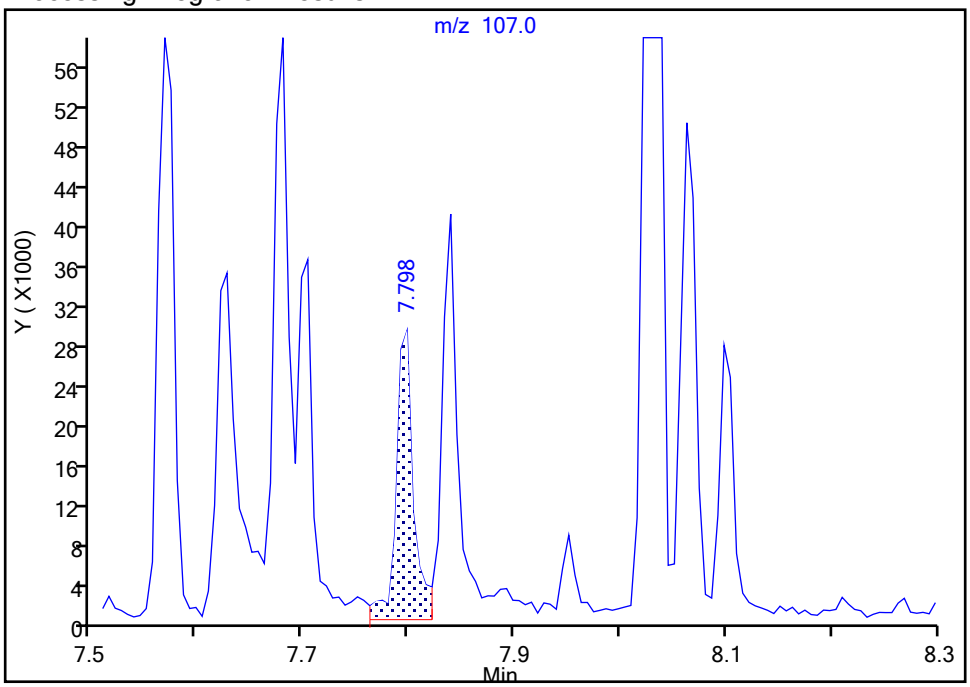
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

106 Thionazin, CAS: 297-97-2

Signal: 1

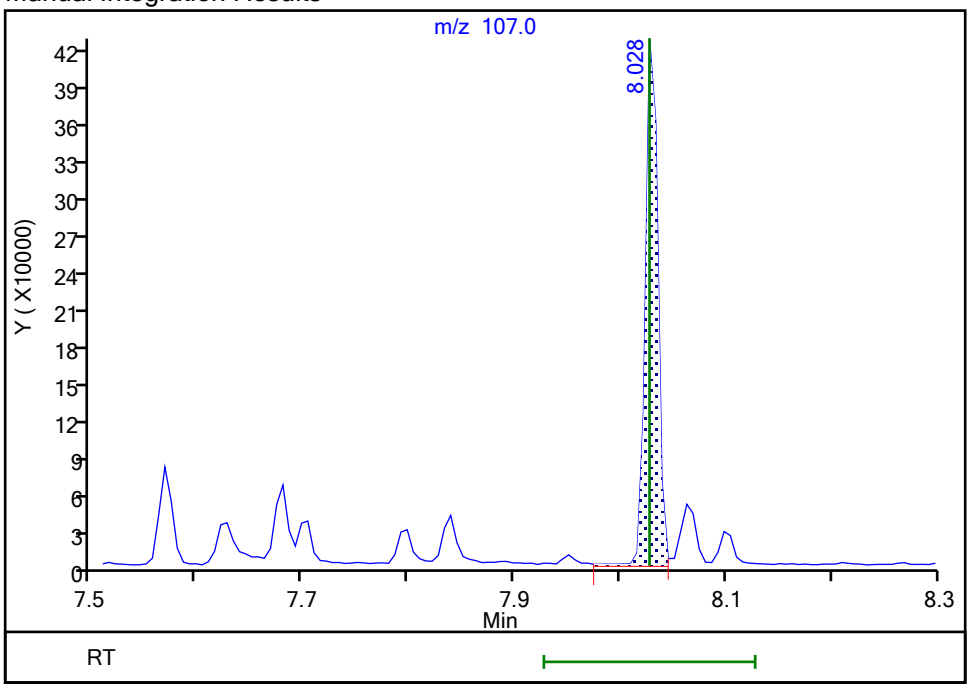
Processing Integration Results

RT: 7.80
Area: 32481
Amount: 1.206539
Amount Units: ug/ml



Manual Integration Results

RT: 8.03
Area: 352622
Amount: 13.098495
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:08 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

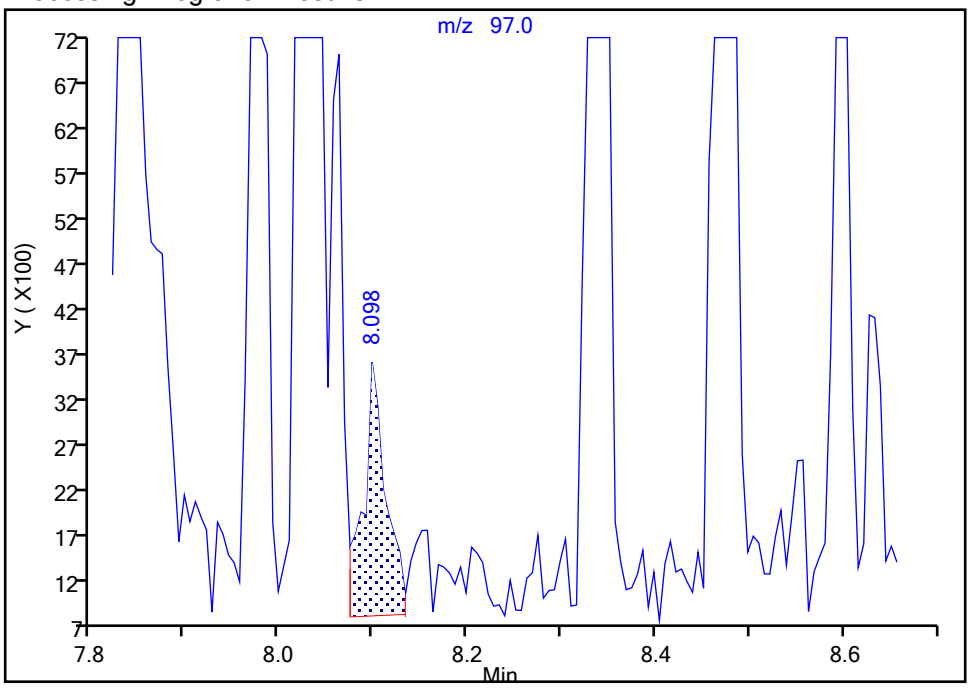
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

114 Sulfotepp, CAS: 3689-24-5

Signal: 1

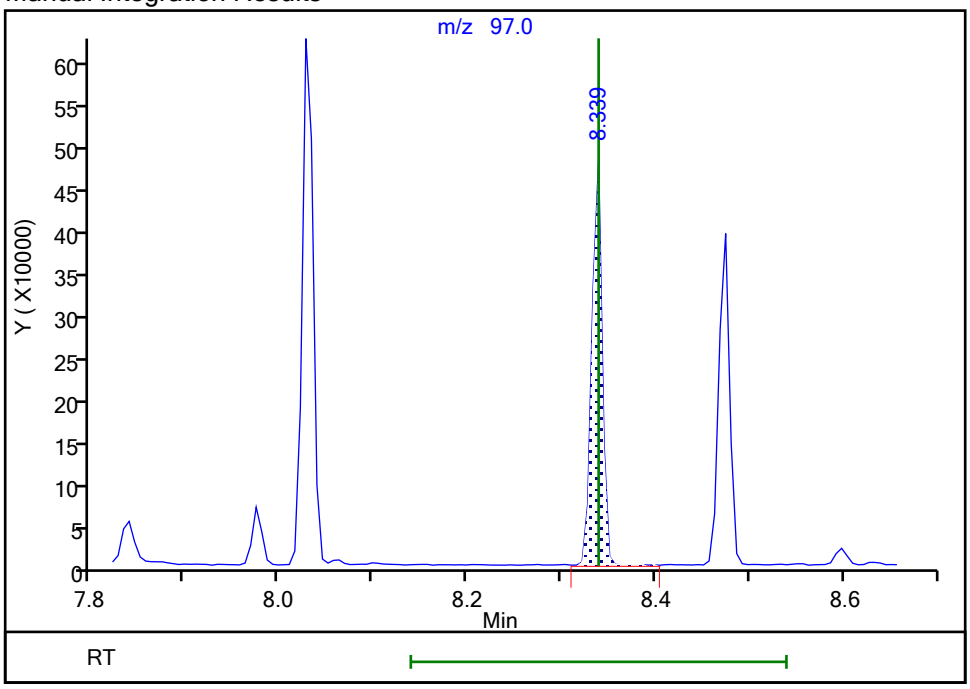
Processing Integration Results

RT: 8.10
Area: 4495
Amount: 0.146479
Amount Units: ug/ml



Manual Integration Results

RT: 8.34
Area: 365717
Amount: 11.917682
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:14 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

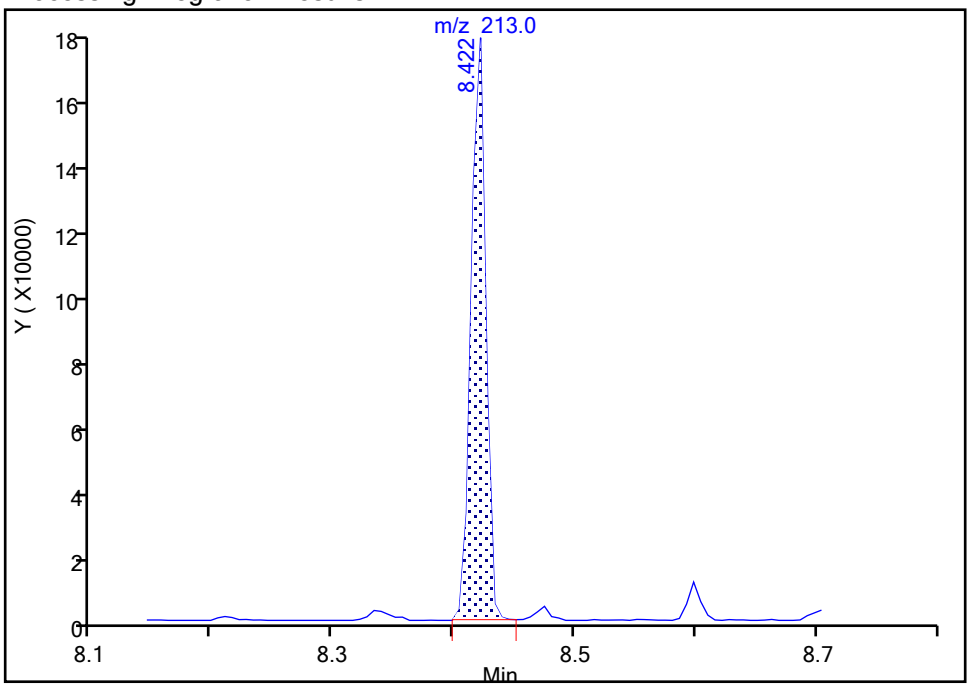
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

172 1,3,5-Trinitrobenzene, CAS: 99-35-4

Signal: 1

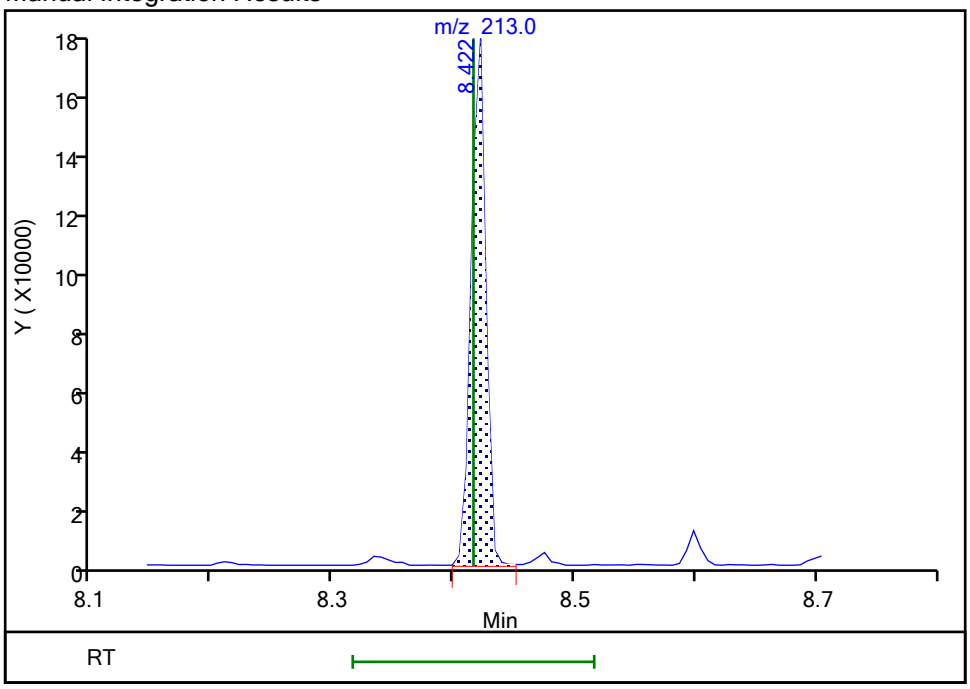
Processing Integration Results

RT: 8.42
Area: 142757
Amount: 11.573405
Amount Units: ug/ml



Manual Integration Results

RT: 8.42
Area: 142757
Amount: 11.573405
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:16 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

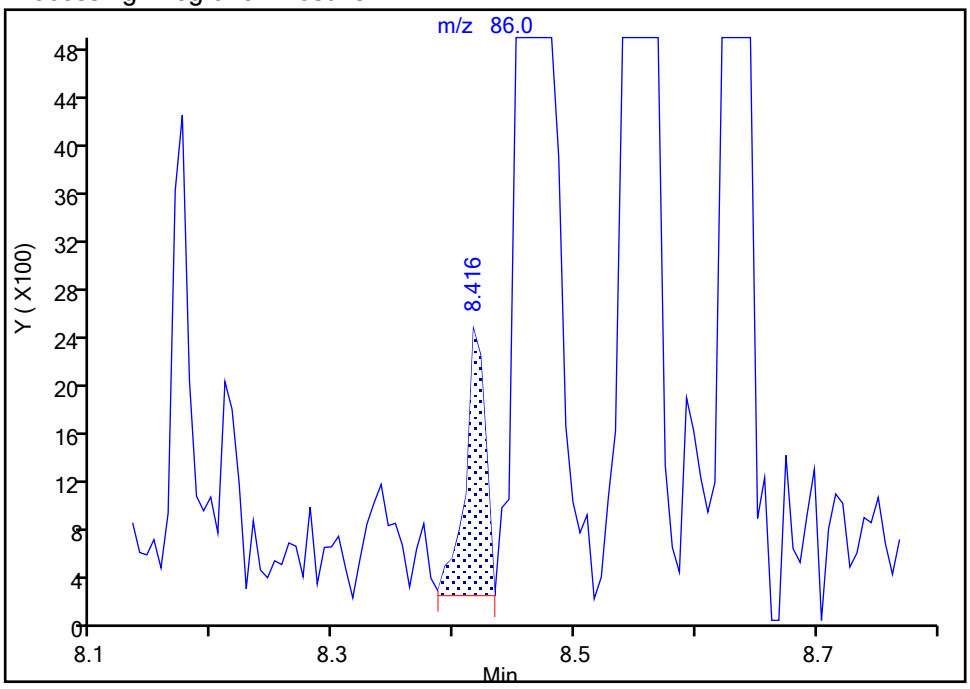
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

115 cis-Diallate, CAS: 17708-57-5

Signal: 1

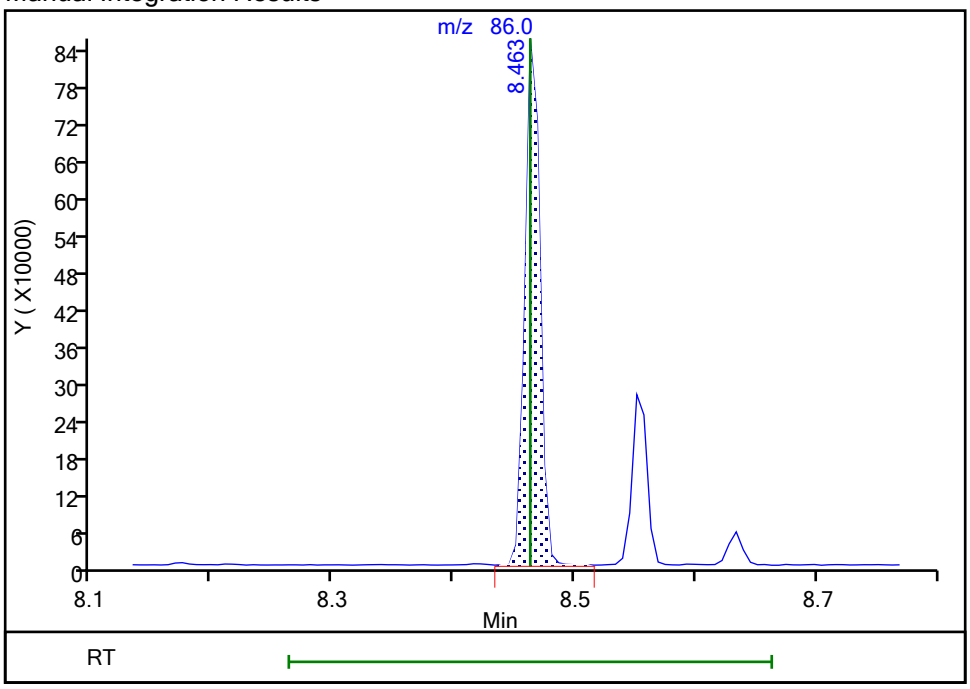
Processing Integration Results

RT: 8.42
Area: 2552
Amount: 0.035296
Amount Units: ug/ml



Manual Integration Results

RT: 8.46
Area: 743183
Amount: 10.278853
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:18 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

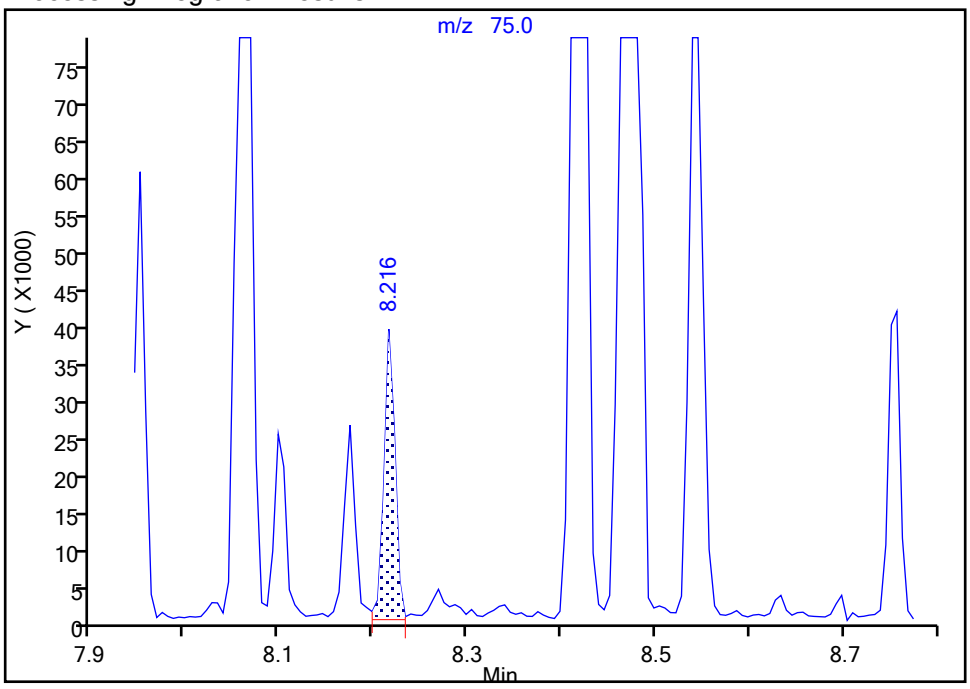
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

116 Phorate, CAS: 298-02-2

Signal: 1

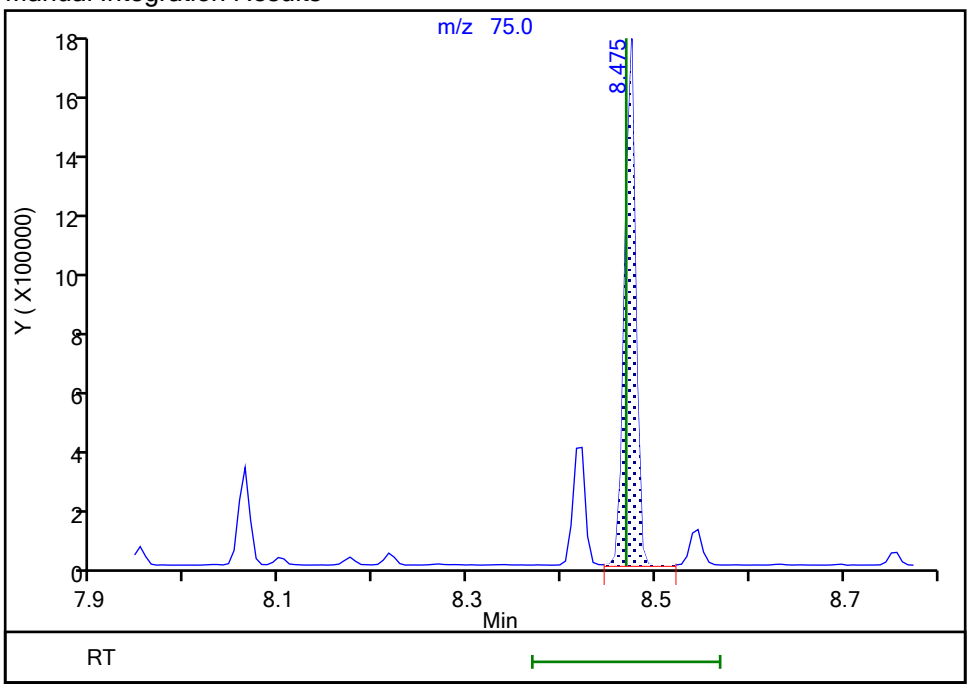
Processing Integration Results

RT: 8.22
Area: 31986
Amount: 0.283749
Amount Units: ug/ml



Manual Integration Results

RT: 8.47
Area: 1390013
Amount: 12.330846
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:23 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

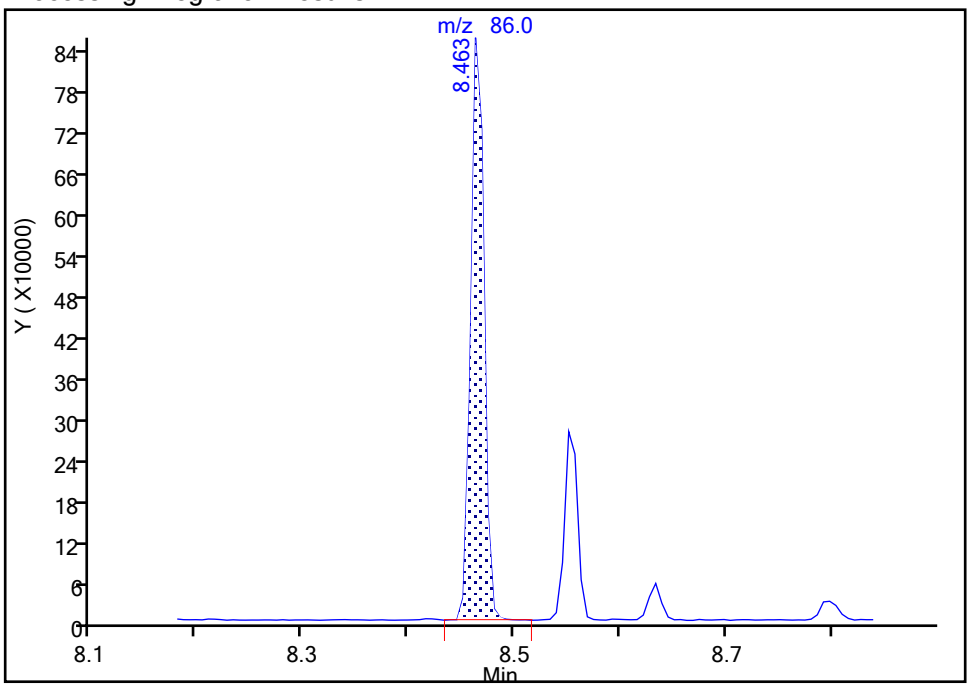
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

119 trans-Diallate, CAS: 17708-58-6

Signal: 1

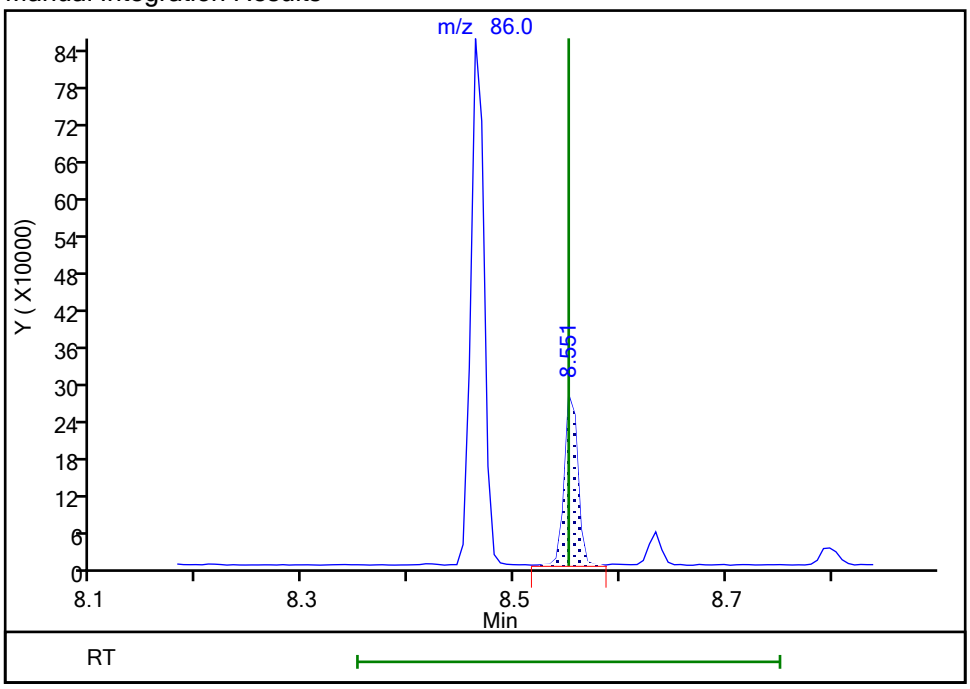
Processing Integration Results

RT: 8.46
Area: 743183
Amount: 9.162427
Amount Units: ug/ml



Manual Integration Results

RT: 8.55
Area: 240469
Amount: 2.964653
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:27 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

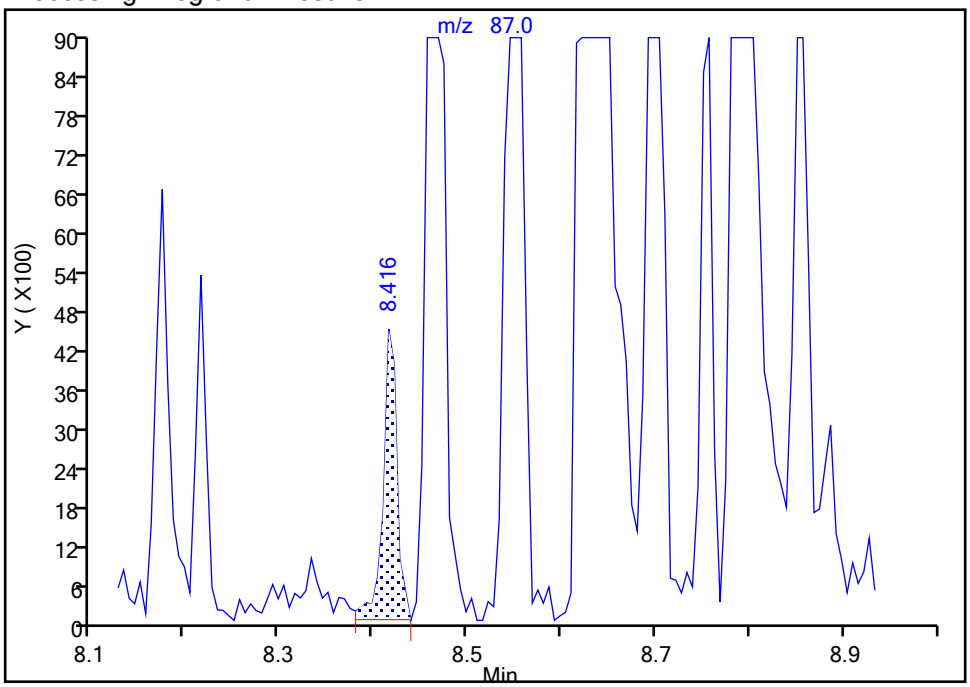
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

121 Dimethoate, CAS: 60-51-5

Signal: 1

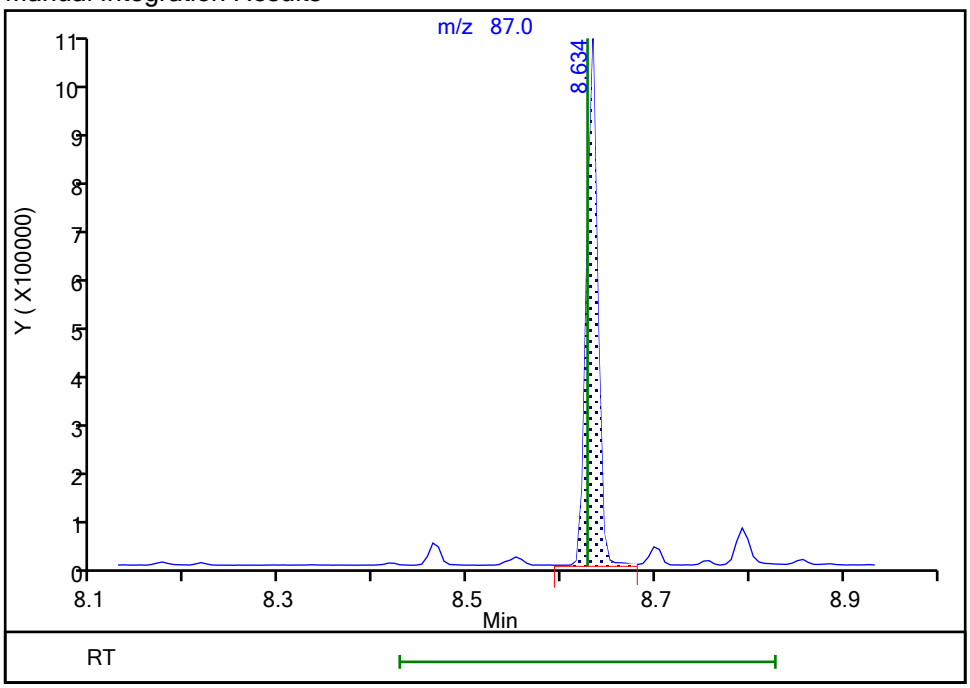
Processing Integration Results

RT: 8.42
Area: 4522
Amount: 0.154973
Amount Units: ug/ml



Manual Integration Results

RT: 8.63
Area: 871830
Amount: 12.192259
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:30 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

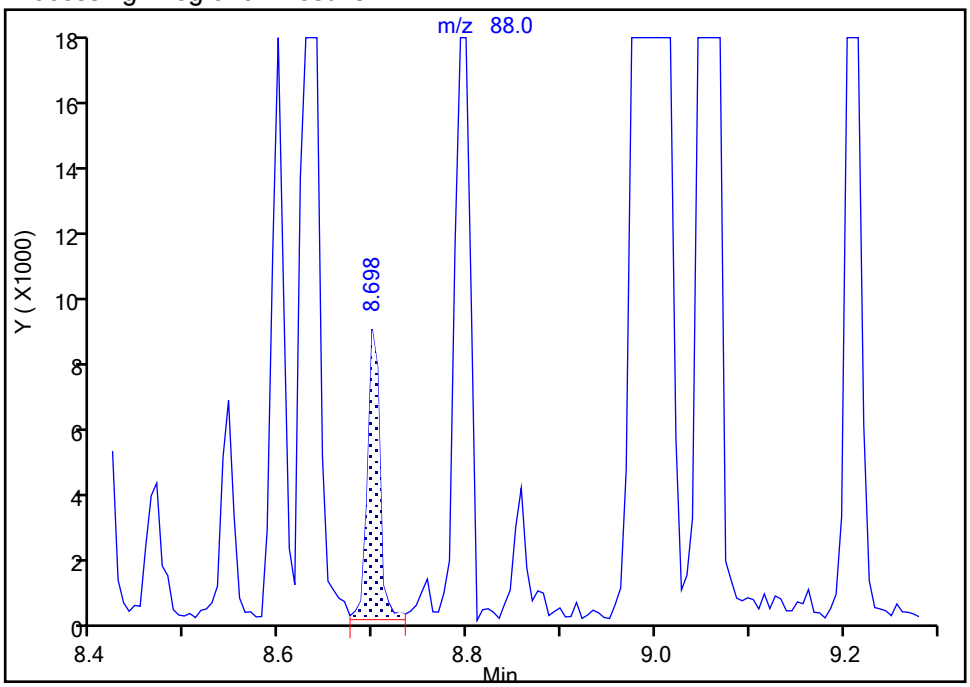
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

70 Disulfoton, CAS: 298-04-4

Signal: 1

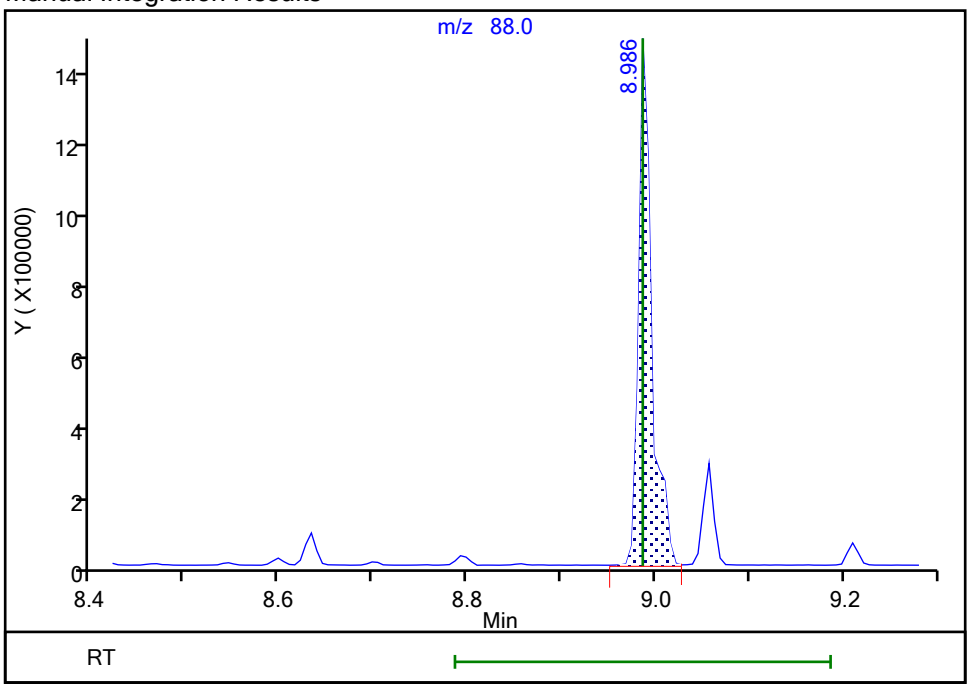
Processing Integration Results

RT: 8.70
Area: 8264
Amount: -0.027899
Amount Units: ug/ml



Manual Integration Results

RT: 8.99
Area: 1379568
Amount: 12.211939
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:36 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

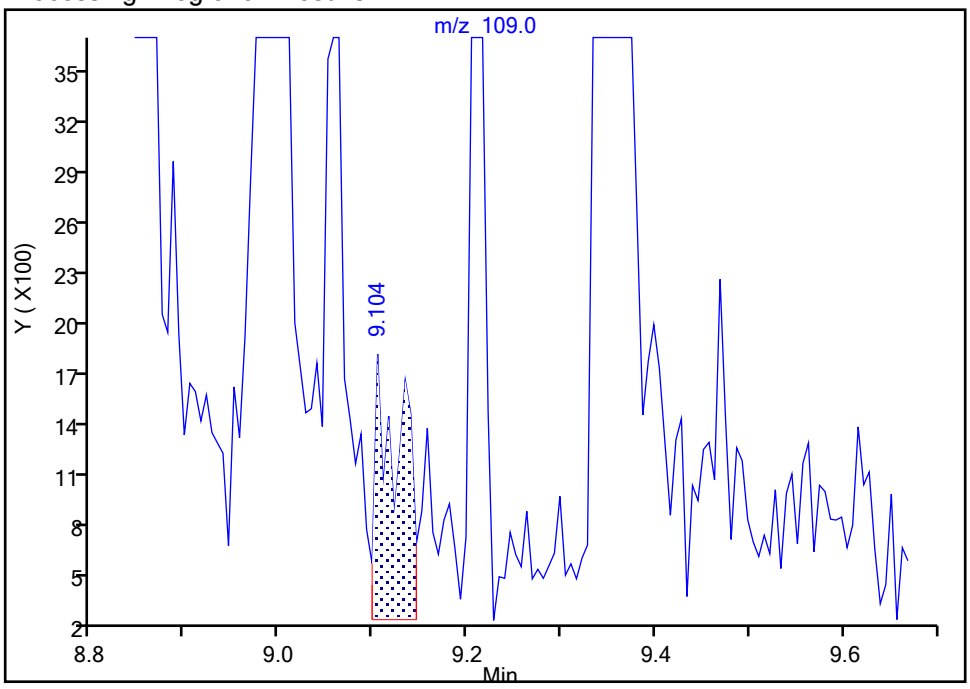
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

132 Methyl parathion, CAS: 298-00-0

Signal: 1

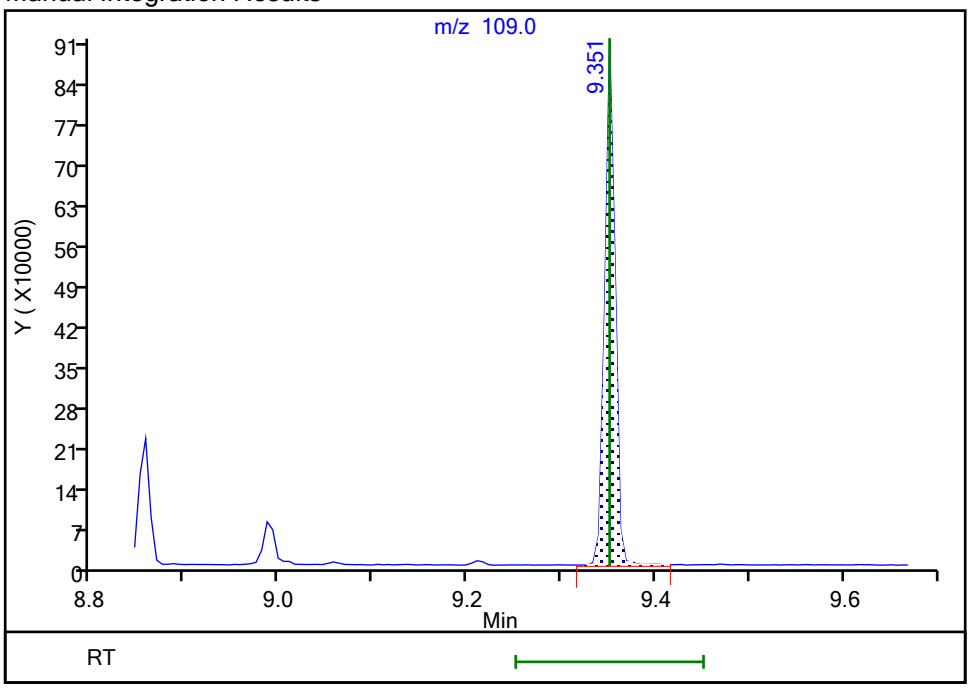
Processing Integration Results

RT: 9.10
Area: 2863
Amount: 0.058604
Amount Units: ug/ml



Manual Integration Results

RT: 9.35
Area: 699975
Amount: 14.328060
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:41 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

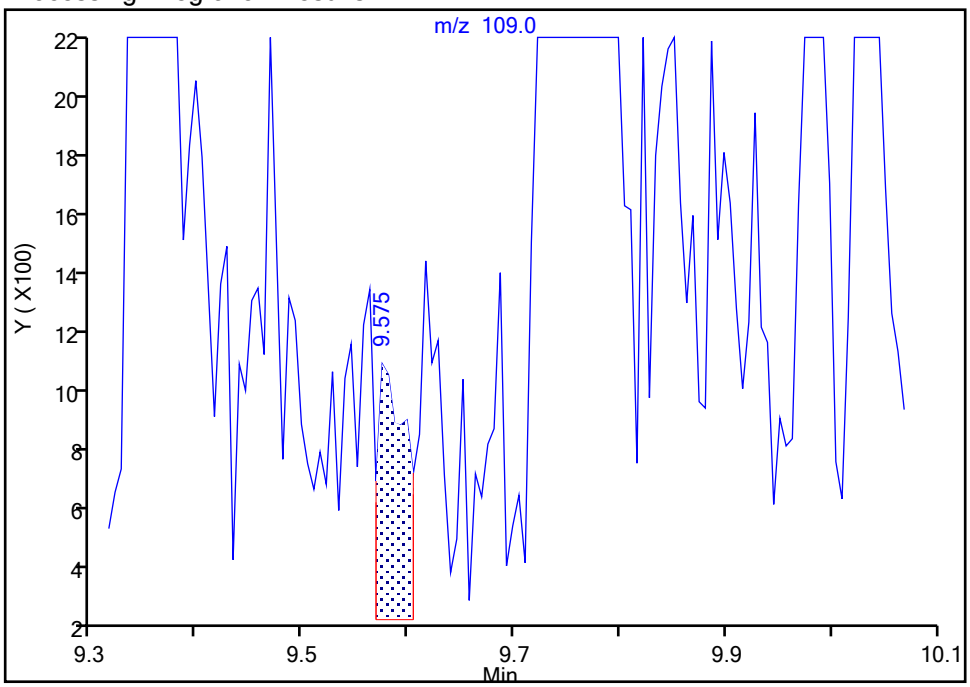
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

134 Ethyl Parathion, CAS: 56-38-2

Signal: 1

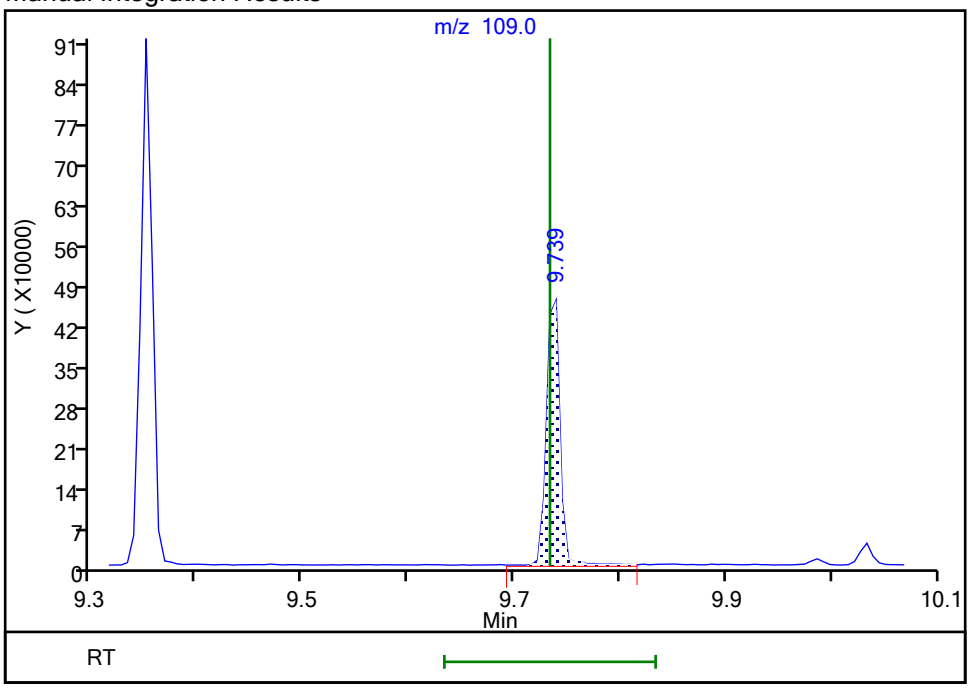
Processing Integration Results

RT: 9.57
Area: 1442
Amount: 0.047038
Amount Units: ug/ml



Manual Integration Results

RT: 9.74
Area: 415071
Amount: 13.539610
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:38:45 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

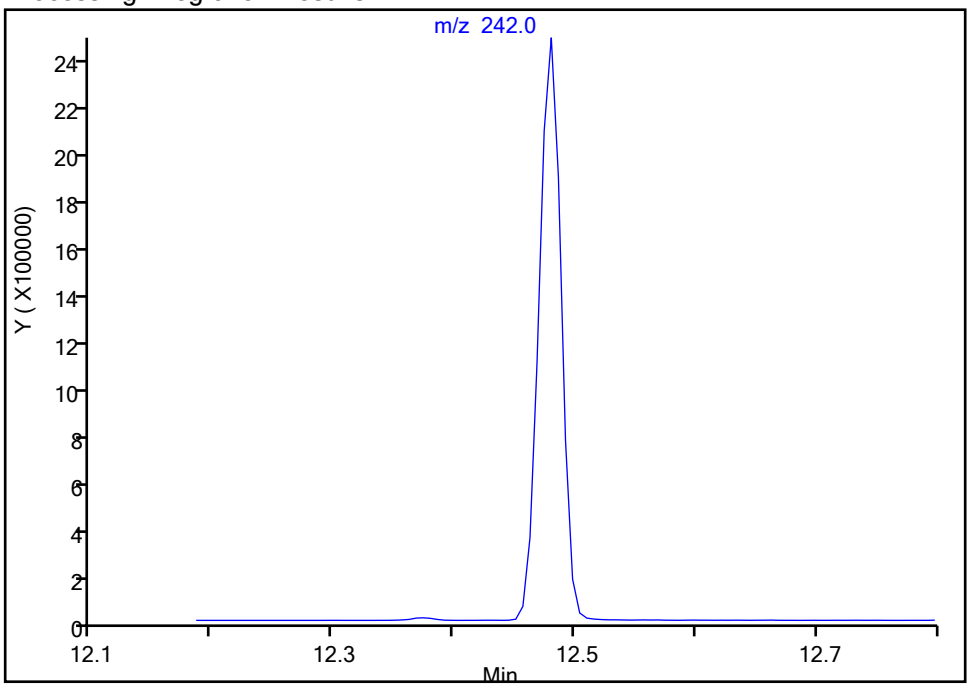
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

153 6-Methylchrysene, CAS: 1705-85-7

Signal: 1

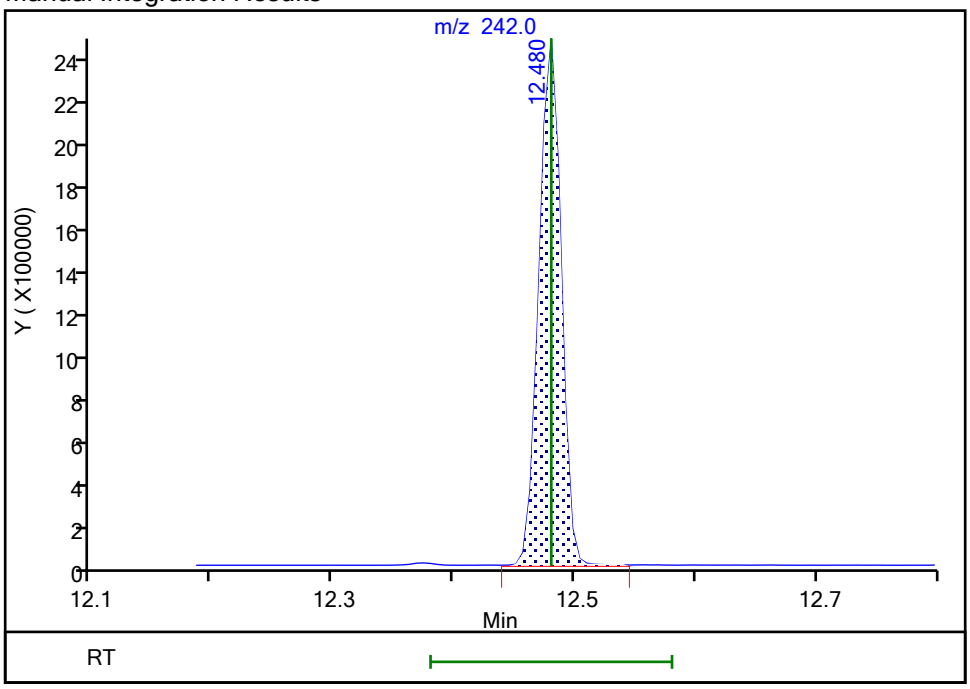
Not Detected
Expected RT: 12.48

Processing Integration Results



Manual Integration Results

RT: 12.48
Area: 3134354
Amount: 13.104405
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:39:00 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

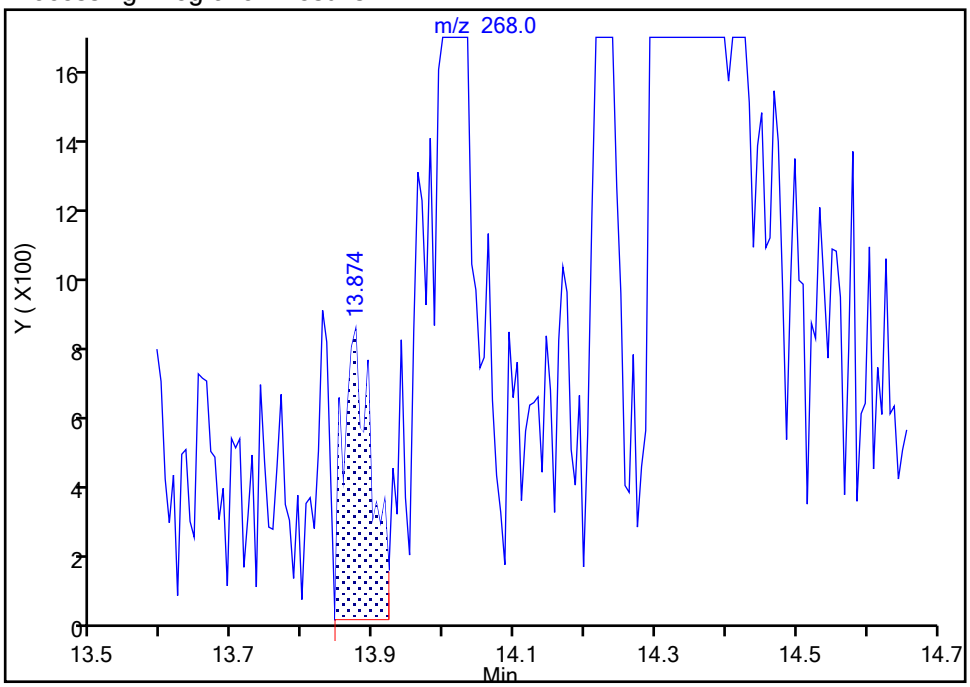
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

160 3-Methylcholanthrene, CAS: 56-49-5

Signal: 1

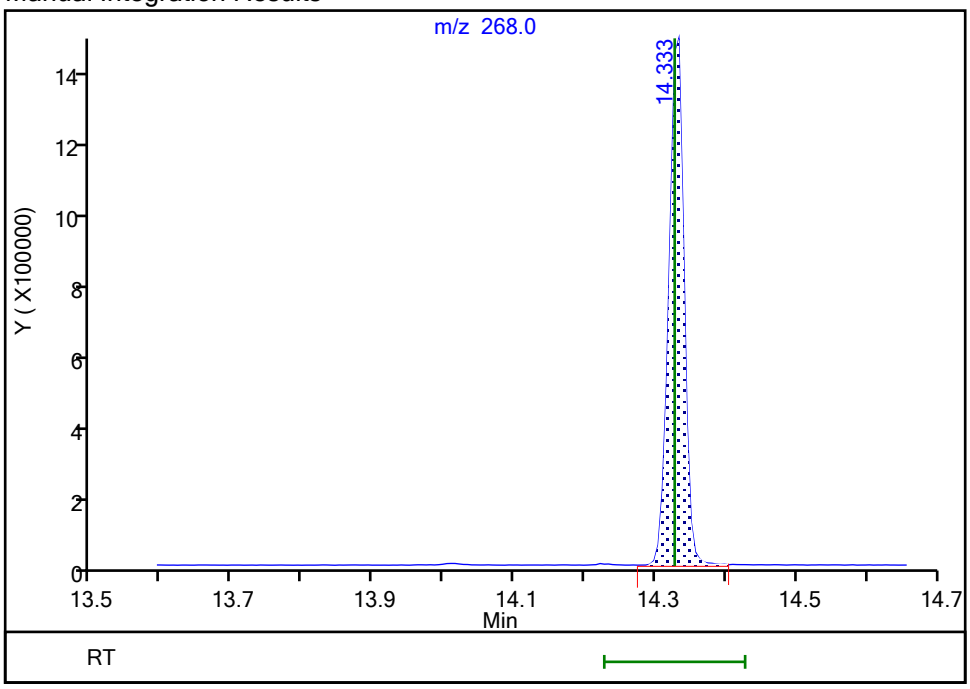
Processing Integration Results

RT: 13.87
Area: 2184
Amount: 0.013127
Amount Units: ug/ml



Manual Integration Results

RT: 14.33
Area: 2211742
Amount: 13.293286
Amount Units: ug/ml



Reviewer: SJ89, 24-Jun-2025 09:39:04 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

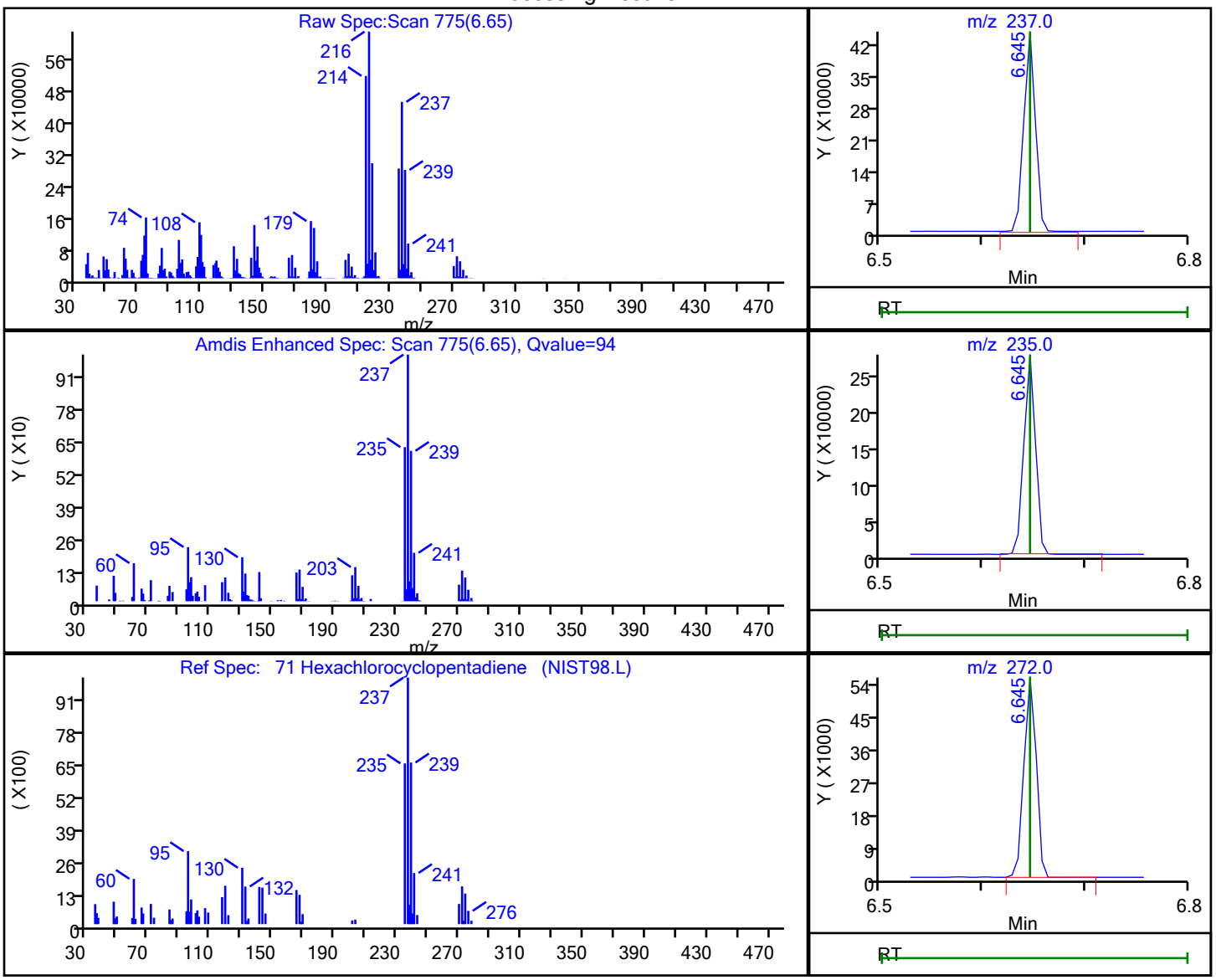
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2361.D				
Injection Date:	24-Jun-2025 00:42:30	Instrument ID:	HP18831		
Lims ID:	ICV				
Client ID:					
Operator ID:	IR93211	ALS Bottle#:	11	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

71 Hexachlorocyclopentadiene, CAS: 77-47-4

Processing Results



RT	Mass	Response	Amount
6.65	237.00	355865	7.683582
6.65	235.00	222276	
6.65	272.00	47047	

Reviewer: SJ89, 24-Jun-2025 09:46:09 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.4963		11.8	12.5	-5.3	20.0
N-Nitrosodimethylamine	Ave	0.9111	0.8685		11.9	12.5	-4.7	20.0
Pyridine	Ave	1.449	1.456		25.1	25.0	0.5	20.0
N,N-dimethylformamide	Ave	0.9936	1.116		14.0	12.5	12.3	20.0
2-Picoline	Ave	1.495	1.541		12.9	12.5	3.1	20.0
N-Nitrosomethylethylamine	Ave	0.6760	0.7294		13.5	12.5	7.9	20.0
Methyl methanesulfonate	Ave	0.8412	0.8920		13.3	12.5	6.0	20.0
N-Nitrosodiethylamine	Ave	0.6682	0.7033		13.2	12.5	5.3	20.0
Ethyl methanesulfonate	Ave	0.7584	0.8008		13.2	12.5	5.6	20.0
Benzaldehyde	Ave	1.272	1.144	0.0100	11.2	12.5	-10.0	20.0
Phenol	Ave	1.768	2.016	0.8000	14.3	12.5	14.0	20.0
Aniline	Ave	2.205	2.427		13.8	12.5	10.1	20.0
Bis(2-chloroethyl)ether	Ave	1.435	1.528	0.7000	13.3	12.5	6.5	20.0
2-Chlorophenol	Ave	1.293	1.393	0.8000	13.5	12.5	7.8	20.0
1,3-Dichlorobenzene	Ave	1.476	1.486		12.6	12.5	0.7	20.0
1,4-Dichlorobenzene	Ave	1.533	1.532		12.5	12.5	-0.0	20.0
Benzyl alcohol	Ave	0.9501	1.030		13.6	12.5	8.5	20.0
1,2-Dichlorobenzene	Ave	1.451	1.533		13.2	12.5	5.6	20.0
2-Methylphenol	Ave	1.284	1.402	0.7000	13.7	12.5	9.2	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.564	0.0100	13.6	12.5	8.4	20.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8964		13.9	12.5	11.4	20.0
3,4-Methylphenol	Ave	1.329	1.544	0.6000	14.5	12.5	16.1	20.0
Acetophenone	Ave	2.160	2.370	0.0100	13.7	12.5	9.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.363	0.5000	14.0	12.5	11.7	20.0
N-Nitrosomorpholine	Ave	1.146	1.247		13.6	12.5	8.8	20.0
o-Toluidine	Ave	2.316	2.481		13.4	12.5	7.1	20.0
Hexachloroethane	Ave	0.6187	0.6341	0.3000	12.8	12.5	2.5	20.0
Nitrobenzene	Ave	0.3849	0.3923	0.2000	12.7	12.5	1.9	20.0
N-Nitrosopiperidine	Ave	0.1890	0.1870		12.4	12.5	-1.1	20.0
Isophorone	Ave	0.7472	0.7808	0.4000	13.1	12.5	4.5	20.0
2-Nitrophenol	Ave	0.1189	0.1512	0.1000	15.9	12.5	27.1*	20.0
2,4-Dimethylphenol	Ave	0.3495	0.3739	0.2000	13.4	12.5	7.0	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1921		12.2	12.5	-2.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4830	0.3000	13.1	12.5	4.4	20.0
2,4-Dichlorophenol	Ave	0.2634	0.2822	0.2000	13.4	12.5	7.1	20.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3286		12.2	12.5	-2.4	20.0
Naphthalene	Ave	1.027	1.060	0.7000	12.9	12.5	3.2	20.0
a-Terpineol	Ave	0.3263	0.3571		13.7	12.5	9.4	20.0
4-Chloroaniline	Ave	0.4491	0.4789	0.0100	13.3	12.5	6.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2854		13.6	12.5	8.8	20.0
Hexachloropropene	Ave	0.2086	0.1909		11.4	12.5	-8.5	20.0
Hexachlorobutadiene	Ave	0.1985	0.1958	0.0100	12.3	12.5	-1.4	20.0
Quinoline	Ave	0.7634	0.7857		12.9	12.5	2.9	20.0
Caprolactam	Ave	0.1121	0.1197	0.0100	13.4	12.5	6.8	20.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.3114		12.6	12.5	0.8	20.0
1,4-phenylenediamine	Ave	0.4225	0.4384			12.5	3.8	20.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3458	0.2000	14.1	12.5	12.8	20.0
Safrole, Total	Ave	0.2945	0.2919		12.4	12.5	-0.9	20.0
2-Methylnaphthalene	Ave	0.6681	0.6977	0.4000	13.1	12.5	4.4	20.0
1-Methylnaphthalene	Ave	0.6939	0.7295		13.1	12.5	5.1	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3661	0.0500	12.2	12.5	-2.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5596	0.0100	11.8	12.5	-5.8	20.0
Isosafrole Peak 1	Ave	0.5631	0.4831		1.72	2.00	-14.2	20.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3344	0.2000	14.0	12.5	11.6	20.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4080	0.2000	13.1	12.5	4.9	20.0
Isosafrole Peak 2	Ave	0.5697	0.5420		9.99	10.5	-4.9	20.0
1,1'-Biphenyl	Ave	1.473	1.444	0.0100	12.3	12.5	-2.0	20.0
2-Chloronaphthalene	Ave	1.212	1.134	0.8000	11.7	12.5	-6.4	20.0
1-Chloronaphthalene	Ave	1.070	1.065		12.4	12.5	-0.5	20.0
Diphenyl ether	Ave	0.8444	0.8086		12.0	12.5	-4.2	20.0
2-Nitroaniline	Ave	0.3247	0.3615	0.0100	13.9	12.5	11.3	20.0
1,4-Naphthoquinone	Ave	0.4673	0.4685		12.5	12.5	0.3	20.0
1,4-Dinitrobenzene	Ave	0.1362	0.1819		16.7	12.5	33.6*	20.0
Dimethyl phthalate	Ave	1.394	1.469	0.0100	13.2	12.5	5.4	20.0
1,3-Dinitrobenzene	Ave	0.1757	0.2048		14.6	12.5	16.5	20.0
2,6-Dinitrotoluene	Ave	0.2673	0.2932	0.2000	13.7	12.5	9.7	20.0
Acenaphthylene	Ave	1.837	1.851	0.9000	12.6	12.5	0.7	20.0
3-Nitroaniline	Ave	0.3037	0.3453	0.0100	14.2	12.5	13.7	20.0
Acenaphthene	Ave	1.243	1.233	0.9000	12.4	12.5	-0.8	20.0
2,4-Dinitrophenol	Ave	0.0610	0.1376	0.0100	56.4	25.0	125.5*	20.0
4-Nitrophenol	Ave	0.1653	0.2110	0.0100	31.9	25.0	27.7*	20.0
Pentachlorobenzene	Ave	0.5739	0.5255		11.4	12.5	-8.4	20.0
2,4-Dinitrotoluene	Ave	0.3532	0.4171	0.2000	14.8	12.5	18.1	20.0
Dibenzofuran	Ave	1.746	1.766	0.8000	12.7	12.5	1.2	20.0
1-Naphthylamine	Ave	1.227	1.288		13.1	12.5	5.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3554	0.0100	13.3	12.5	6.7	20.0
2-Naphthylamine	Ave	1.337	1.334		12.5	12.5	-0.2	20.0
Diethyl phthalate	Ave	1.402	1.531	0.0100	13.7	12.5	9.2	20.0
Thionazin	Ave	0.2174	0.2267		13.0	12.5	4.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl-phenyl ether	Ave	0.7087	0.7201	0.4000	12.7	12.5	1.6	20.0
Fluorene	Ave	1.439	1.474	0.9000	12.8	12.5	2.5	20.0
5-Nitro-o-toluidine	Ave	0.3560	0.3956		13.9	12.5	11.1	20.0
4-Nitroaniline	Ave	0.3391	0.4043	0.0100	14.9	12.5	19.2	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.1000	0.0100	43.7	25.0	74.6*	20.0
N-Nitrosodiphenylamine	Ave	0.5943	0.5869	0.0100	10.5	10.6	-1.2	20.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7511		12.7	12.5	1.7	20.0
Sulfotepp	Ave	0.1209	0.1176		12.2	12.5	-2.7	20.0
1,3,5-Trinitrobenzene	Qua2		0.0747			12.5	36.8*	20.0
cis-Diallate	Ave	0.2849	0.2847		9.24	9.25	-0.0	20.0
Phorate	Ave	0.4442	0.4614		13.0	12.5	3.9	20.0
Phenacetin	Ave	0.3359	0.3719		13.8	12.5	10.7	20.0
4-Bromophenyl-phenylether	Ave	0.2218	0.2090	0.1000	11.8	12.5	-5.7	20.0
trans-Diallate	Ave	0.3197	0.2883		2.93	3.25	-9.8	20.0
Hexachlorobenzene	Ave	0.2657	0.2499	0.1000	11.8	12.5	-5.9	20.0
Dimethoate	Lin1		0.2881		12.8	12.5	2.2	20.0
Atrazine	Ave	0.2108	0.2085	0.0100	12.4	12.5	-1.1	20.0
Pentachlorophenol	Lin1		0.1379	0.0500	27.8	25.0	11.1	20.0
4-Aminobiphenyl	Ave	0.8505	0.8384		12.3	12.5	-1.4	20.0
Pentachloronitrobenzene	Ave	0.0920	0.0934		12.7	12.5	1.5	20.0
Pronamide	Ave	0.3380	0.3330		12.3	12.5	-1.5	20.0
Dinoseb	Ave	0.0748	0.1351		22.6	12.5	80.5*	20.0
Disulfoton	Lin2		0.4459		12.5	12.5	0.2	20.0
Phenanthrene	Ave	1.114	1.085	0.7000	12.2	12.5	-2.7	20.0
Anthracene	Ave	1.093	1.106	0.7000	12.7	12.5	1.2	20.0
Carbazole	Ave	1.023	1.082	0.0100	13.2	12.5	5.7	20.0
Methyl parathion	Ave	0.1925	0.2275		14.8	12.5	18.1	20.0
Di-n-butyl phthalate	Ave	1.096	1.225	0.0100	14.0	12.5	11.8	20.0
Parathion	Ave	0.1208	0.1361		14.1	12.5	12.6	20.0
4-Nitroquinoline-1-oxide	Qua2		0.1074		14.4	12.5	15.0	20.0
Octachlorostyrene	Ave	0.1097	0.1046		11.9	12.5	-4.7	20.0
Isodrin	Ave	0.1396	0.1284		11.5	12.5	-8.0	20.0
Fluoranthene	Ave	1.244	1.302	0.6000	13.1	12.5	4.6	20.0
Benzidine	Ave	0.7336	0.9124		46.6	37.5	24.4*	20.0
Pyrene	Ave	1.226	1.211	0.6000	12.4	12.5	-1.2	20.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2311		13.0	12.5	4.2	20.0
Chlorobenzilate	Ave	0.3103	0.3196		12.9	12.5	3.0	20.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.7604		12.9	12.5	3.2	20.0
Butylbenzylphthalate	Ave	0.4497	0.5275	0.0100	14.7	12.5	17.3	20.0
2-Acetylaminofluorene	Ave	0.4183	0.4469		13.4	12.5	6.8	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-666539/2 Calibration Date: 07/03/2025 12:04

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0301a.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5635	0.0100	15.3	12.5	22.5*	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2669		14.1	12.5	12.5	20.0
Benzo[a]anthracene	Ave	1.193	1.311	0.8000	13.7	12.5	9.9	20.0
Chrysene	Ave	1.157	1.272	0.7000	13.7	12.5	10.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.8027	0.0100	14.6	12.5	17.0	20.0
6-Methylchrysene	Ave	0.8284	0.9080		13.7	12.5	9.6	20.0
Di-n-octyl phthalate	Lin2		1.095	0.0100	12.2	12.5	-2.8	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5133		12.1	12.5	-3.0	20.0
Benzo[b]fluoranthene	Ave	1.242	1.253	0.7000	12.6	12.5	0.9	20.0
Benzo[k]fluoranthene	Ave	1.234	1.303	0.7000	13.2	12.5	5.6	20.0
Benzo[a]pyrene	Ave	1.103	1.169	0.7000	13.2	12.5	6.0	20.0
3-Methylcholanthrene	Ave	0.5600	0.5968		13.3	12.5	6.6	20.0
Dibenz[a,h]acridine	Ave	0.8479	0.9379		13.8	12.5	10.6	20.0
Dibenz[a,j]acridine	Ave	0.8670	1.086		15.7	12.5	25.3*	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.190	0.5000	14.7	12.5	17.7	20.0
Dibenz(a,h)anthracene	Ave	1.019	1.218	0.4000	14.9	12.5	19.5	20.0
Benzo[g,h,i]perylene	Ave	1.014	1.219	0.5000	15.0	12.5	20.2*	20.0
2-Fluorophenol (Surr)	Ave	1.193	1.295		27.2	25.0	8.6	20.0
Phenol-d5 (Surr)	Ave	1.660	1.944		29.3	25.0	17.1	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.4013		28.1	25.0	12.5	20.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.394		25.8	25.0	3.3	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2433		29.0	25.0	16.1	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.8962		27.6	25.0	10.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Jul-2025 12:04:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 10:10:58 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1707

First Level Reviewer: RN6U Date: 03-Jul-2025 15:00:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.087	2.087	0.000	96	175474	12.5	11.8	
2 N-Nitrosodimethylamine	74	2.269	2.269	0.000	90	307034	12.5	11.9	M
3 Pyridine	79	2.310	2.310	0.000	88	1029415	25.0	25.1	
4 Dimethylformamide	73	2.540	2.540	0.000	93	394659	12.5	14.0	
5 2-Picoline	93	2.816	2.816	0.000	96	544863	12.5	12.9	
6 N-Nitrosomethylethylamine	88	2.881	2.881	0.000	94	257861	12.5	13.5	
9 Methyl methanesulfonate	80	3.116	3.116	0.000	86	315362	12.5	13.3	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	915938	25.0	27.1	
11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	248649	12.5	13.2	
13 Ethyl methanesulfonate	109	3.710	3.710	0.000	99	283115	12.5	13.2	
15 Benzaldehyde	77	4.034	4.034	0.000	94	404516	12.5	11.2	
$ 16 Phenol-d5	99	4.069	4.069	0.000	96	1374590	25.0	29.3	
17 Phenol	94	4.087	4.087	0.000	99	712846	12.5	14.3	
18 Aniline	93	4.128	4.128	0.000	96	857908	12.5	13.8	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	93	540294	12.5	13.3	
20 2-Chlorophenol	128	4.246	4.246	0.000	98	492647	12.5	13.5	
22 1,3-Dichlorobenzene	146	4.393	4.393	0.000	96	525204	12.5	12.6	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	141415	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	91	541677	12.5	12.5	
26 Benzyl alcohol	108	4.569	4.569	0.000	90	364320	12.5	13.6	
27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	96	541964	12.5	13.2	
30 2-Methylphenol	108	4.669	4.669	0.000	99	495656	12.5	13.7	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	906531	12.5	13.6	
33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	82	316927	12.5	13.9	
36 4-Methylphenol	108	4.822	4.822	0.000	95	545738	12.5	14.5	
34 Acetophenone	105	4.828	4.828	0.000	87	838000	12.5	13.7	
35 N-Nitrosodi-n-propylamine	70	4.828	4.828	0.000	82	481831	12.5	14.0	
37 N-Nitrosomorpholine	56	4.846	4.846	0.000	92	440876	12.5	13.6	
38 2-Toluidine	106	4.863	4.863	0.000	96	877084	12.5	13.4	
40 Hexachloroethane	117	4.940	4.940	0.000	94	224176	12.5	12.8	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1296034	25.0	28.1	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	42 Nitrobenzene	77	4.999	4.999	0.000	90	633385	12.5	12.7	
	43 N-Nitrosopiperidine	114	5.146	5.146	0.000	81	301877	12.5	12.4	
	45 Isophorone	82	5.234	5.234	0.000	99	1260765	12.5	13.1	
	46 2-Nitrophenol	139	5.310	5.310	0.000	96	244123	12.5	15.9	
	48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	603766	12.5	13.4	
	49 o,o',o''-Triethylphosphorothioat	198	5.428	5.428	0.000	85	310162	12.5	12.2	
	51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	779978	12.5	13.0	
	52 2,4-Dichlorophenol	162	5.551	5.551	0.000	95	455749	12.5	13.4	
	53 1,2,4-Trichlorobenzene	180	5.640	5.640	0.000	94	530587	12.5	12.2	
*	54 Naphthalene-d8	136	5.693	5.693	0.000	99	645881	5.00	5.00	
	55 Naphthalene	128	5.716	5.716	0.000	98	1711140	12.5	12.9	
	29 Alpha-Terpineol	59	5.728	5.728	0.000	93	576597	12.5	13.7	
	57 4-Chloroaniline	127	5.763	5.763	0.000	95	773232	12.5	13.3	
	58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	460806	12.5	13.6	
	59 Hexachloropropene	213	5.804	5.804	0.000	90	308318	12.5	11.4	
	60 Hexachlorobutadiene	225	5.846	5.846	0.000	95	316189	12.5	12.3	
	62 Quinoline	129	6.046	6.046	0.000	96	1268628	12.5	12.9	
	63 Caprolactam	113	6.087	6.087	0.000	74	193311	12.5	13.3	
	64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	502763	12.5	12.6	
	39 p-Phenylene diamine	108	6.116	6.116	0.000	95	707893	12.5	13.0	
	66 4-Chloro-3-methylphenol	107	6.246	6.246	0.000	97	558341	12.5	14.1	
	67 Safrole, Total	162	6.322	6.322	0.000	89	471257	12.5	12.4	
	68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	1126563	12.5	13.1	
	69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	1177943	12.5	13.1	
	71 Hexachlorocyclopentadiene	237	6.563	6.563	0.000	94	401337	12.5	12.2	
	72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	97	613468	12.5	11.8	
	73 Isosafrole Peak 1	162	6.610	6.610	0.000	88	84738	2.00	1.72	
	74 2,4,6-Trichlorophenol	196	6.681	6.681	0.000	78	366529	12.5	14.0	
	75 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	95	447208	12.5	13.1	
$	76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	3056140	25.0	25.8	
	77 Isosafrole Peak 2	162	6.834	6.834	0.000	91	499027	10.5	9.99	
	78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	1582584	12.5	12.3	
	79 2-Chloronaphthalene	162	6.887	6.887	0.000	97	1243277	12.5	11.7	
	80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	1167916	12.5	12.4	
	81 Phenyl ether	170	6.975	6.975	0.000	90	886389	12.5	12.0	
	82 2-Nitroaniline	138	6.987	6.987	0.000	86	396281	12.5	13.9	
	84 1,4-Naphthoquinone	158	7.063	7.063	0.000	89	513588	12.5	12.5	
	85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	199440	12.5	16.7	
	86 Dimethyl phthalate	163	7.175	7.175	0.000	99	1610752	12.5	13.2	
	87 1,3-Dinitrobenzene	168	7.193	7.193	0.000	83	224470	12.5	14.6	
	88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	321420	12.5	13.7	
	89 Acenaphthylene	152	7.298	7.298	0.000	98	2028501	12.5	12.6	
	90 3-Nitroaniline	138	7.387	7.387	0.000	93	378516	12.5	14.2	
*	91 Acenaphthene-d10	164	7.440	7.440	0.000	94	438474	5.00	5.00	
	93 Acenaphthene	153	7.469	7.469	0.000	96	1351395	12.5	12.4	
	94 2,4-Dinitrophenol	184	7.492	7.492	0.000	81	301704	25.0	56.4	
	95 4-Nitrophenol	109	7.551	7.551	0.000	97	462681	25.0	31.9	
	96 Pentachlorobenzene	250	7.598	7.598	0.000	98	576013	12.5	11.4	
	98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	92	457273	12.5	14.8	
	97 Dibenzofuran	168	7.640	7.640	0.000	96	1936386	12.5	12.6	
	99 1-Naphthylamine	143	7.716	7.716	0.000	99	1412066	12.5	13.1	
	101 2,3,4,6-Tetrachlorophenol	232	7.763	7.763	0.000	73	389565	12.5	13.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.792	7.792	0.000	96	1462812	12.5	12.5	
104 Diethyl phthalate	149	7.875	7.875	0.000	98	1678187	12.5	13.7	
106 Thionazin	107	7.951	7.951	0.000	80	248531	12.5	13.0	
105 Fluorene	166	7.981	7.981	0.000	93	1615830	12.5	12.8	
108 4-Chlorophenyl phenyl ether	204	7.981	7.981	0.000	89	789398	12.5	12.7	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	81	433656	12.5	13.9	
109 4-Nitroaniline	138	7.992	7.992	0.000	85	443218	12.5	14.9	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	0.000	82	466194	25.0	43.7	
111 N-Nitrosodiphenylamine	169	8.098	8.098	0.000	70	1163204	10.6	10.5	
112 1,2-Diphenylhydrazine	77	8.140	8.140	0.000	99	1751390	12.5	12.7	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	533305	25.0	29.0	
114 Sulfotepp	97	8.257	8.257	0.000	79	274247	12.5	12.2	
172 1,3,5-Trinitrobenzene	213	8.345	8.345	0.000	84	174098	12.5	17.1	
115 cis-Diallate	86	8.387	8.387	0.000	90	491198	9.25	9.24	
116 Phorate	75	8.392	8.392	0.000	95	1075912	12.5	13.0	
117 Phenacetin	108	8.398	8.398	0.000	94	867118	12.5	13.8	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	68	487439	12.5	11.8	
119 trans-Diallate	86	8.475	8.475	0.000	86	174805	3.25	2.93	
120 Hexachlorobenzene	284	8.522	8.522	0.000	96	582701	12.5	11.8	
121 Dimethoate	87	8.551	8.551	0.000	94	671839	12.5	12.8	
122 Atrazine	200	8.622	8.622	0.000	92	486090	12.5	12.4	
123 Pentachlorophenol	266	8.710	8.710	0.000	93	643227	25.0	27.8	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	1955027	12.5	12.3	
124 Pentachloronitrobenzene	237	8.728	8.728	0.000	85	217831	12.5	12.7	
126 Pronamide	173	8.781	8.781	0.000	91	776496	12.5	12.3	
128 Dinoseb	211	8.898	8.898	0.000	95	314944	12.5	22.6	
* 127 Phenanthrene-d10	188	8.904	8.904	0.000	98	932709	5.00	5.00	
70 Disulfoton	88	8.910	8.910	0.000	97	1039689	12.5	12.5	
129 Phenanthrene	178	8.922	8.922	0.000	97	2529104	12.5	12.2	
130 Anthracene	178	8.975	8.975	0.000	97	2579715	12.5	12.7	
S 56 Dinitrotoluene	165				0		25.0	28.5	
131 Carbazole	167	9.134	9.134	0.000	96	2522225	12.5	13.2	
132 Methyl parathion	109	9.275	9.275	0.000	96	530366	12.5	14.8	
133 Di-n-butyl phthalate	149	9.486	9.486	0.000	100	2856855	12.5	14.0	
S 65 Diallate	86				0		12.5	12.2	
134 Ethyl Parathion	109	9.657	9.657	0.000	85	317312	12.5	14.1	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	92	250318	12.5	14.4	
136 Octachlorostyrene	308	9.904	9.904	0.000	93	243824	12.5	11.9	
137 Isodrin	193	9.951	9.951	0.000	94	299473	12.5	11.5	
138 Fluoranthene	202	10.092	10.092	0.000	97	3035046	12.5	13.1	
139 Benzidine	184	10.228	10.228	0.000	99	7339016	37.5	46.6	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1072474	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	3247062	12.5	12.4	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	4805990	25.0	27.6	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	95	619751	12.5	13.0	
144 Chlorobenzilate	139	10.686	10.686	0.000	90	856814	12.5	12.9	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2038838	12.5	12.9	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	97	1414314	12.5	14.7	
147 2-Acetylaminofluorene	181	11.304	11.304	0.000	95	1198148	12.5	13.4	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	75	1510822	12.5	15.3	
150 4,4'-Methylene bis(2-chloroani	231	11.686	11.686	0.000	96	715512	12.5	14.1	
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	3514615	12.5	13.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.751	11.751	0.000	96	3411278	12.5	13.7	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	98	2152155	12.5	14.6	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	2434628	12.5	13.7	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	3250352	12.5	12.2	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	88	1523800	12.5	12.1	
155 Benzo[b]fluoranthene	252	13.198	13.198	0.000	97	3721019	12.5	12.6	
157 Benzo[k]fluoranthene	252	13.239	13.239	0.000	99	3868908	12.5	13.2	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	76	3470670	12.5	13.2	
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1187532	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	1771818	12.5	13.3	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	90	2784435	12.5	13.8	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	3224603	12.5	15.7	
163 Indeno[1,2,3-cd]pyrene	276	15.457	15.457	0.000	99	3532870	12.5	14.7	
164 Dibenz(a,h)anthracene	278	15.504	15.504	0.000	91	3615359	12.5	14.9	M
165 Benzo[g,h,i]perylene	276	15.945	15.945	0.000	98	3618878	12.5	15.0	
S 166 Isosafrole	162				0		12.5	11.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 07-Jul-2025 10:10:59 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D

Injection Date: 03-Jul-2025 12:04:30 Instrument ID: HP18831 Operator ID: EEA115318_KEL10217

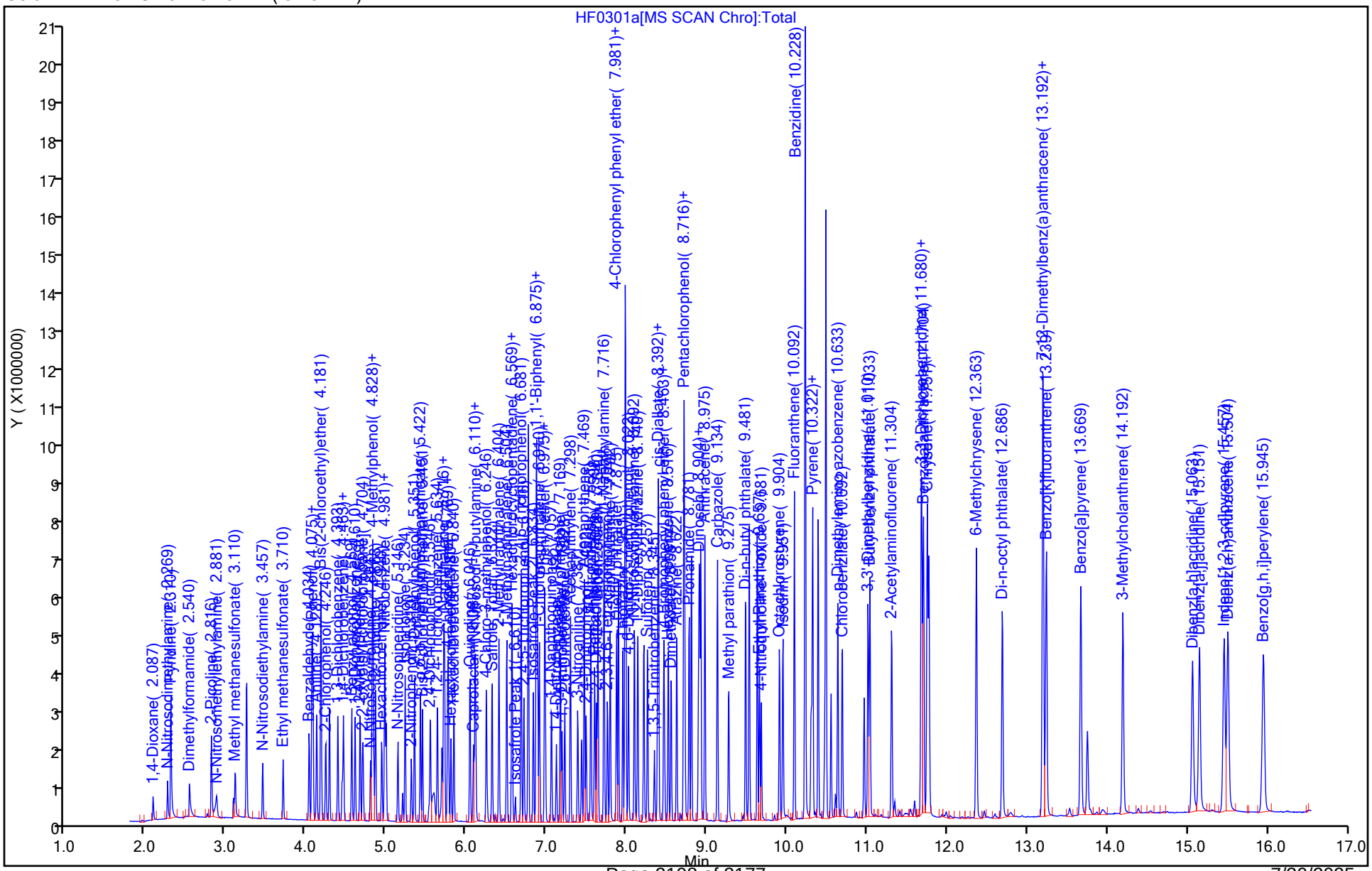
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

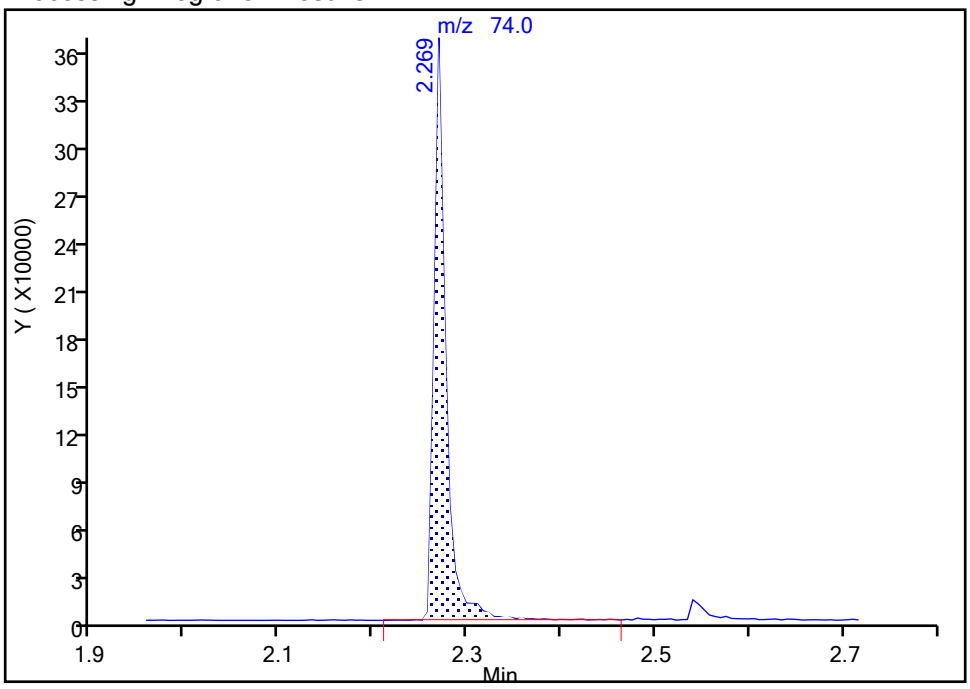
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D				
Injection Date:	03-Jul-2025 12:04:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

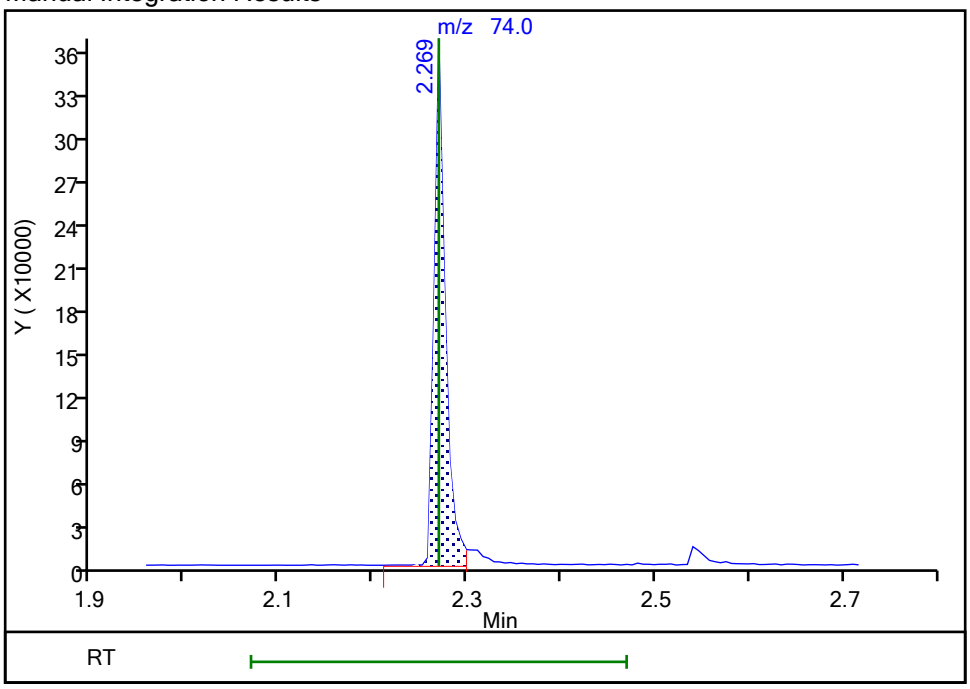
Processing Integration Results

RT: 2.27
Area: 327554
Amount: 12.711115
Amount Units: ug/ml



Manual Integration Results

RT: 2.27
Area: 307034
Amount: 11.914812
Amount Units: ug/ml



Reviewer: RN6U, 03-Jul-2025 12:38:56 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

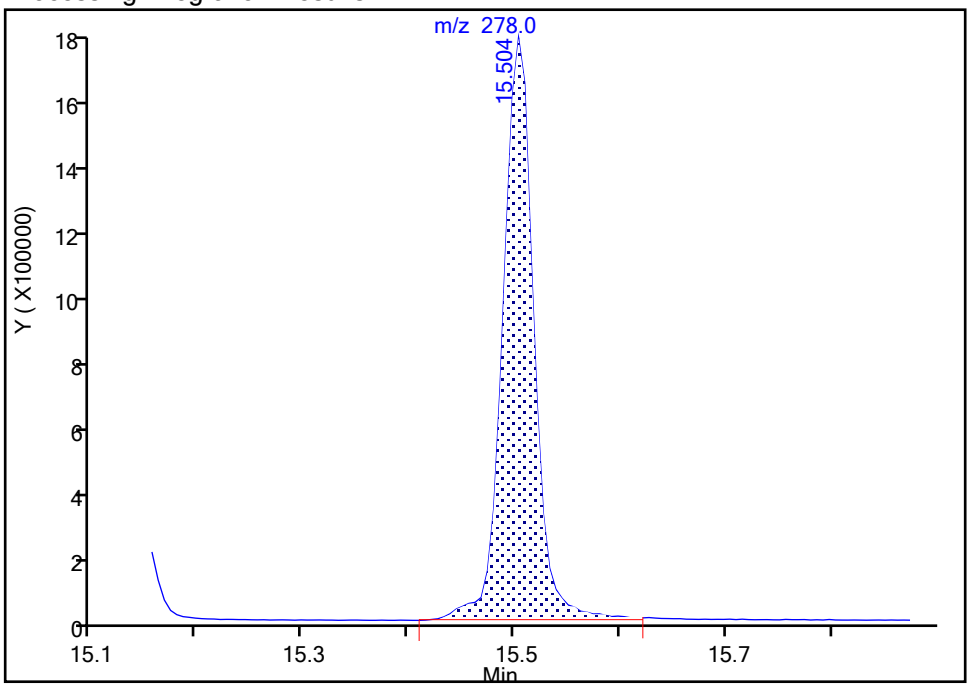
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0301a.D				
Injection Date:	03-Jul-2025 12:04:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

164 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

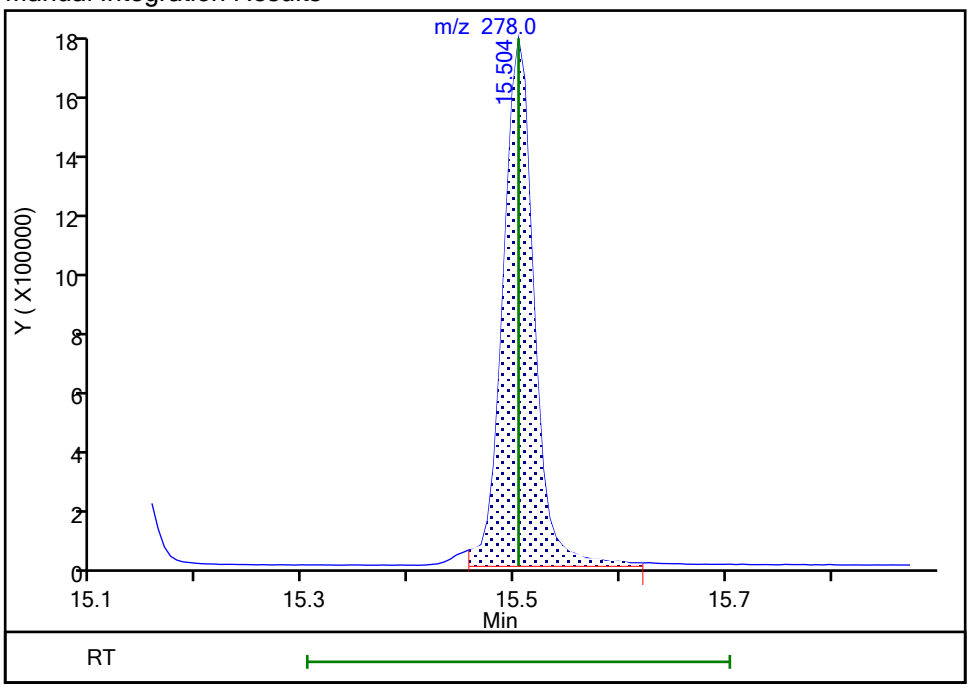
Processing Integration Results

RT: 15.50
Area: 3665965
Amount: 15.146036
Amount Units: ug/ml



Manual Integration Results

RT: 15.50
Area: 3615359
Amount: 14.936956
Amount Units: ug/ml



Reviewer: RN6U, 03-Jul-2025 12:37:00 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.5673		13.5	12.5	8.3	50.0
N-Nitrosodimethylamine	Ave	0.9111	0.9102		12.5	12.5	-0.1	50.0
Pyridine	Ave	1.449	1.437		24.8	25.0	-0.8	50.0
N,N-dimethylformamide	Ave	0.9936	1.064		13.4	12.5	7.1	50.0
2-Picoline	Ave	1.495	1.528		12.8	12.5	2.2	50.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6934		12.8	12.5	2.6	50.0
Methyl methanesulfonate	Ave	0.8412	0.8750		13.0	12.5	4.0	50.0
N-Nitrosodiethylamine	Ave	0.6682	0.6487		12.1	12.5	-2.9	50.0
Ethyl methanesulfonate	Ave	0.7584	0.7563		12.5	12.5	-0.3	50.0
Benzaldehyde	Ave	1.272	1.110	0.0100	10.9	12.5	-12.7	50.0
Phenol	Ave	1.768	1.952	0.8000	13.8	12.5	10.4	50.0
Aniline	Ave	2.205	2.325		13.2	12.5	5.4	50.0
Bis(2-chloroethyl)ether	Ave	1.435	1.499	0.7000	13.1	12.5	4.4	50.0
2-Chlorophenol	Ave	1.293	1.354	0.8000	13.1	12.5	4.7	50.0
1,3-Dichlorobenzene	Ave	1.476	1.498		12.7	12.5	1.5	50.0
1,4-Dichlorobenzene	Ave	1.533	1.507		12.3	12.5	-1.7	50.0
Benzyl alcohol	Ave	0.9501	0.9822		12.9	12.5	3.4	50.0
1,2-Dichlorobenzene	Ave	1.451	1.481		12.8	12.5	2.1	50.0
2-Methylphenol	Ave	1.284	1.367	0.7000	13.3	12.5	6.5	50.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.481	0.0100	13.1	12.5	4.9	50.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8323		12.9	12.5	3.5	50.0
3,4-Methylphenol	Ave	1.329	1.483	0.6000	14.0	12.5	11.6	50.0
Acetophenone	Ave	2.160	2.269	0.0100	13.1	12.5	5.1	50.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.264	0.5000	12.9	12.5	3.6	50.0
N-Nitrosomorpholine	Ave	1.146	1.164		12.7	12.5	1.6	50.0
o-Toluidine	Ave	2.316	2.364		12.8	12.5	2.1	50.0
Hexachloroethane	Ave	0.6187	0.6087	0.3000	12.3	12.5	-1.6	50.0
Nitrobenzene	Ave	0.3849	0.3834	0.2000	12.5	12.5	-0.4	50.0
N-Nitrosopiperidine	Ave	0.1890	0.1869		12.4	12.5	-1.1	50.0
Isophorone	Ave	0.7472	0.7616	0.4000	12.7	12.5	1.9	50.0
2-Nitrophenol	Ave	0.1189	0.1419	0.1000	14.9	12.5	19.3	50.0
2,4-Dimethylphenol	Ave	0.3495	0.3689	0.2000	13.2	12.5	5.5	50.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1903		12.1	12.5	-3.5	50.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4691	0.3000	12.7	12.5	1.4	50.0
2,4-Dichlorophenol	Ave	0.2634	0.2829	0.2000	13.4	12.5	7.4	50.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3334		12.4	12.5	-1.0	50.0
Naphthalene	Ave	1.027	1.067	0.7000	13.0	12.5	3.9	50.0
a-Terpineol	Ave	0.3263	0.3439		13.2	12.5	5.4	50.0
4-Chloroaniline	Ave	0.4491	0.4808	0.0100	13.4	12.5	7.1	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2813		13.4	12.5	7.2	50.0
Hexachloropropene	Ave	0.2086	0.1893		11.3	12.5	-9.2	50.0
Hexachlorobutadiene	Ave	0.1985	0.1913	0.0100	12.0	12.5	-3.7	50.0
Quinoline	Ave	0.7634	0.7585		12.4	12.5	-0.6	50.0
Caprolactam	Ave	0.1121	0.1141	0.0100	12.7	12.5	1.8	50.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.3009		12.2	12.5	-2.6	50.0
1,4-phenylenediamine	Ave	0.4225	0.4168			12.5	-1.4	50.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3379	0.2000	13.8	12.5	10.2	50.0
Safrole, Total	Ave	0.2945	0.2902		12.3	12.5	-1.5	50.0
2-Methylnaphthalene	Ave	0.6681	0.6810	0.4000	12.7	12.5	1.9	50.0
1-Methylnaphthalene	Ave	0.6939	0.7263		13.1	12.5	4.7	50.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3502	0.0500	11.7	12.5	-6.4	50.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5531	0.0100	11.6	12.5	-6.9	50.0
Isosafrole Peak 1	Ave	0.5631	0.4845		1.72	2.00	-14.0	50.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3195	0.2000	13.3	12.5	6.7	50.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4011	0.2000	12.9	12.5	3.1	50.0
Isosafrole Peak 2	Ave	0.5697	0.5467		10.1	10.5	-4.0	50.0
1,1'-Biphenyl	Ave	1.473	1.433	0.0100	12.2	12.5	-2.7	50.0
2-Chloronaphthalene	Ave	1.212	1.142	0.8000	11.8	12.5	-5.8	50.0
1-Chloronaphthalene	Ave	1.070	1.057		12.4	12.5	-1.2	50.0
Diphenyl ether	Ave	0.8444	0.8181		12.1	12.5	-3.1	50.0
2-Nitroaniline	Ave	0.3247	0.3513	0.0100	13.5	12.5	8.2	50.0
1,4-Naphthoquinone	Ave	0.4673	0.4592		12.3	12.5	-1.7	50.0
1,4-Dinitrobenzene	Ave	0.1362	0.1683		15.5	12.5	23.6	50.0
Dimethyl phthalate	Ave	1.394	1.410	0.0100	12.7	12.5	1.2	50.0
1,3-Dinitrobenzene	Ave	0.1757	0.1962		14.0	12.5	11.7	50.0
2,6-Dinitrotoluene	Ave	0.2673	0.2768	0.2000	12.9	12.5	3.5	50.0
Acenaphthylene	Ave	1.837	1.825	0.9000	12.4	12.5	-0.6	50.0
3-Nitroaniline	Ave	0.3037	0.3298	0.0100	13.6	12.5	8.6	50.0
Acenaphthene	Ave	1.243	1.197	0.9000	12.0	12.5	-3.7	50.0
2,4-Dinitrophenol	Ave	0.0610	0.1169	0.0100	47.9	25.0	91.7*	50.0
4-Nitrophenol	Ave	0.1653	0.1998	0.0100	30.2	25.0	20.9	50.0
Pentachlorobenzene	Ave	0.5739	0.5292		11.5	12.5	-7.8	50.0
2,4-Dinitrotoluene	Ave	0.3532	0.3979	0.2000	14.1	12.5	12.7	50.0
Dibenzofuran	Ave	1.746	1.717	0.8000	12.3	12.5	-1.7	50.0
1-Naphthylamine	Ave	1.227	1.255		12.8	12.5	2.2	50.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3341	0.0100	12.5	12.5	0.4	50.0
2-Naphthylamine	Ave	1.337	1.324		12.4	12.5	-1.0	50.0
Diethyl phthalate	Ave	1.402	1.444	0.0100	12.9	12.5	3.0	50.0
Thionazin	Ave	0.2174	0.2125		12.2	12.5	-2.3	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl-phenyl ether	Ave	0.7087	0.7079	0.4000	12.5	12.5	-0.1	50.0
Fluorene	Ave	1.439	1.444	0.9000	12.5	12.5	0.3	50.0
4-Nitroaniline	Ave	0.3391	0.3852	0.0100	14.2	12.5	13.6	50.0
5-Nitro-o-toluidine	Ave	0.3560	0.3807		13.4	12.5	6.9	50.0
4,6-Dinitro-2-methylphenol	Qua2		0.0953	0.0100	42.0	25.0	68.2*	50.0
N-Nitrosodiphenylamine	Ave	0.5943	0.6049	0.0100	10.8	10.6	1.8	50.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7491		12.7	12.5	1.4	50.0
Sulfotepp	Ave	0.1209	0.1146		11.9	12.5	-5.2	50.0
1,3,5-Trinitrobenzene	Qua2		0.0713			12.5	32.2	50.0
cis-Diallate	Ave	0.2849	0.2790		9.06	9.25	-2.1	50.0
Phorate	Ave	0.4442	0.4479		12.6	12.5	0.8	50.0
Phenacetin	Ave	0.3359	0.3525		13.1	12.5	5.0	50.0
4-Bromophenyl-phenylether	Ave	0.2218	0.2106	0.1000	11.9	12.5	-5.1	50.0
trans-Diallate	Ave	0.3197	0.2777		2.82	3.25	-13.1	50.0
Hexachlorobenzene	Ave	0.2657	0.2501	0.1000	11.8	12.5	-5.9	50.0
Dimethoate	Lin1		0.2826		12.5	12.5	0.2	50.0
Atrazine	Ave	0.2108	0.2036	0.0100	12.1	12.5	-3.4	50.0
Pentachlorophenol	Lin1		0.1332	0.0500	26.9	25.0	7.4	50.0
4-Aminobiphenyl	Ave	0.8505	0.8290		12.2	12.5	-2.5	50.0
Pentachloronitrobenzene	Ave	0.0920	0.0914		12.4	12.5	-0.7	50.0
Pronamide	Ave	0.3380	0.3316		12.3	12.5	-1.9	50.0
Dinoseb	Ave	0.0748	0.1278		21.3	12.5	70.7*	50.0
Disulfoton	Lin2		0.4327		12.2	12.5	-2.8	50.0
Phenanthrene	Ave	1.114	1.076	0.7000	12.1	12.5	-3.4	50.0
Anthracene	Ave	1.093	1.112	0.7000	12.7	12.5	1.7	50.0
Carbazole	Ave	1.023	1.075	0.0100	13.1	12.5	5.1	50.0
Methyl parathion	Ave	0.1925	0.2200		14.3	12.5	14.3	50.0
Di-n-butyl phthalate	Ave	1.096	1.178	0.0100	13.4	12.5	7.4	50.0
Parathion	Ave	0.1208	0.1275		13.2	12.5	5.6	50.0
4-Nitroquinoline-1-oxide	Qua2		0.1023		13.8	12.5	10.7	50.0
Octachlorostyrene	Ave	0.1097	0.1056		12.0	12.5	-3.8	50.0
Isodrin	Ave	0.1396	0.1240		11.1	12.5	-11.2	50.0
Fluoranthene	Ave	1.244	1.278	0.6000	12.8	12.5	2.7	50.0
Benzidine	Ave	0.7336	0.9038		46.2	37.5	23.2	50.0
Pyrene	Ave	1.226	1.211	0.6000	12.4	12.5	-1.2	50.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2302		13.0	12.5	3.8	50.0
Chlorobenzilate	Ave	0.3103	0.3183		12.8	12.5	2.6	50.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.7585		12.9	12.5	2.9	50.0
Butylbenzylphthalate	Ave	0.4497	0.5300	0.0100	14.7	12.5	17.9	50.0
2-Acetylaminofluorene	Ave	0.4183	0.4477		13.4	12.5	7.0	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVC 410-666539/19 Calibration Date: 07/03/2025 20:11

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HF0321.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5631	0.0100	15.3	12.5	22.4	50.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2645		14.0	12.5	11.6	50.0
Benzo[a]anthracene	Ave	1.193	1.335	0.8000	14.0	12.5	11.9	50.0
Chrysene	Ave	1.157	1.282	0.7000	13.9	12.5	10.8	50.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7741	0.0100	14.1	12.5	12.9	50.0
6-Methylchrysene	Ave	0.8284	0.9165		13.8	12.5	10.6	50.0
Di-n-octyl phthalate	Lin2		1.076	0.0100	12.0	12.5	-4.3	50.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5263		12.4	12.5	-0.6	50.0
Benzo[b]fluoranthene	Ave	1.242	1.252	0.7000	12.6	12.5	0.8	50.0
Benzo[k]fluoranthene	Ave	1.234	1.315	0.7000	13.3	12.5	6.5	50.0
Benzo[a]pyrene	Ave	1.103	1.200	0.7000	13.6	12.5	8.8	50.0
3-Methylcholanthrene	Ave	0.5600	0.5955		13.3	12.5	6.3	50.0
Dibenz[a,h]acridine	Ave	0.8479	0.9292		13.7	12.5	9.6	50.0
Dibenz[a,j]acridine	Ave	0.8670	1.093		15.8	12.5	26.1	50.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.158	0.5000	14.3	12.5	14.6	50.0
Dibenz(a,h)anthracene	Ave	1.019	1.240	0.4000	15.2	12.5	21.6	50.0
Benzo[g,h,i]perylene	Ave	1.014	1.218	0.5000	15.0	12.5	20.1	50.0
2-Fluorophenol (Surr)	Ave	1.193	1.277		26.8	25.0	7.0	50.0
Phenol-d5 (Surr)	Ave	1.660	1.892		28.5	25.0	14.0	50.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.3928		27.5	25.0	10.1	50.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.385		25.7	25.0	2.7	50.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2370		28.3	25.0	13.1	50.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.9052		27.9	25.0	11.5	50.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0321.D
Lims ID: CCVC
Client ID:
Sample Type: CCVC
Inject. Date: 03-Jul-2025 20:11:30 ALS Bottle#: 2 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVC
Misc. Info.: 410-0152352-019
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:29:14 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:24:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.093	2.087	0.006	98	224579	12.5	13.5	
2 N-Nitrosodimethylamine	74	2.275	2.269	0.006	90	360308	12.5	12.5	
3 Pyridine	79	2.310	2.310	0.000	89	1137905	25.0	24.8	
4 Dimethylformamide	73	2.546	2.540	0.006	93	421096	12.5	13.4	
5 2-Picoline	93	2.822	2.816	0.006	96	604858	12.5	12.8	
6 N-Nitrosomethylethylamine	88	2.887	2.881	0.006	93	274516	12.5	12.8	
9 Methyl methanesulfonate	80	3.116	3.116	0.000	87	346405	12.5	13.0	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	1011037	25.0	26.8	
11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	256791	12.5	12.1	
13 Ethyl methanesulfonate	109	3.716	3.710	0.006	99	299391	12.5	12.5	
15 Benzaldehyde	77	4.040	4.034	0.006	94	439369	12.5	10.9	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	1497961	25.0	28.5	
17 Phenol	94	4.087	4.087	0.000	99	772665	12.5	13.8	
18 Aniline	93	4.134	4.128	0.006	96	920288	12.5	13.2	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	93	593262	12.5	13.1	
20 2-Chlorophenol	128	4.246	4.251	0.000	98	535972	12.5	13.1	
22 1,3-Dichlorobenzene	146	4.399	4.393	0.006	97	593047	12.5	12.7	
* 23 1,4-Dichlorobenzene-d4	152	4.452	4.446	0.006	95	158351	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.469	4.463	0.006	92	596781	12.5	12.3	
26 Benzyl alcohol	108	4.569	4.569	0.000	91	388827	12.5	12.9	
27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	586377	12.5	12.8	
30 2-Methylphenol	108	4.675	4.675	0.006	98	541351	12.5	13.3	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	982092	12.5	13.1	
33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	84	329508	12.5	12.9	
36 4-Methylphenol	108	4.822	4.822	0.000	96	587028	12.5	13.9	
34 Acetophenone	105	4.834	4.828	0.006	88	898269	12.5	13.1	
35 N-Nitrosodi-n-propylamine	70	4.834	4.828	0.006	81	500236	12.5	12.9	
37 N-Nitrosomorpholine	56	4.846	4.846	0.000	92	460951	12.5	12.7	
38 2-Toluidine	106	4.863	4.863	0.000	96	935940	12.5	12.8	
40 Hexachloroethane	117	4.946	4.946	0.006	93	240969	12.5	12.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	1352840	25.0	27.5	
42 Nitrobenzene	77	4.999	4.999	0.000	91	660290	12.5	12.5	
43 N-Nitrosopiperidine	114	5.146	5.146	0.000	82	321806	12.5	12.4	
45 Isophorone	82	5.234	5.234	0.000	99	1311617	12.5	12.7	
46 2-Nitrophenol	139	5.316	5.310	0.006	96	244325	12.5	14.9	
48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	635220	12.5	13.2	
49 o,o',o''-Triethylphosphorothioat	198	5.428	5.428	0.000	85	327697	12.5	12.1	
51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	807829	12.5	12.7	
52 2,4-Dichlorophenol	162	5.551	5.551	0.000	95	487265	12.5	13.4	
53 1,2,4-Trichlorobenzene	180	5.640	5.640	0.000	94	574120	12.5	12.4	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	99	688856	5.00	5.00	
55 Naphthalene	128	5.716	5.716	0.000	98	1837255	12.5	13.0	
29 Alpha-Terpineol	59	5.728	5.728	0.000	93	592166	12.5	13.2	
57 4-Chloroaniline	127	5.763	5.763	0.000	95	828025	12.5	13.4	
58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	484434	12.5	13.4	
59 Hexachloropropene	213	5.804	5.804	0.000	90	325981	12.5	11.3	
60 Hexachlorobutadiene	225	5.846	5.845	0.000	96	329360	12.5	12.0	
62 Quinoline	129	6.046	6.046	0.000	96	1306225	12.5	12.4	
63 Caprolactam	113	6.087	6.087	0.000	75	196537	12.5	12.7	
64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	518174	12.5	12.2	
39 p-Phenylene diamine	108	6.116	6.116	0.000	95	717778	12.5	12.3	
66 4-Chloro-3-methylphenol	107	6.246	6.246	0.000	97	581939	12.5	13.8	
67 Safrole, Total	162	6.322	6.322	0.000	89	499749	12.5	12.3	
68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	1172758	12.5	12.7	
69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	1250711	12.5	13.1	
71 Hexachlorocyclopentadiene	237	6.563	6.558	0.000	95	404063	12.5	11.7	
72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	97	638138	12.5	11.6	
73 Isosafrole Peak 1	162	6.610	6.610	0.000	88	89437	2.00	1.72	
74 2,4,6-Trichlorophenol	196	6.681	6.675	0.000	77	368582	12.5	13.3	
75 2,4,5-Trichlorophenol	196	6.716	6.711	0.000	95	462819	12.5	12.9	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	3196838	25.0	25.7	
77 Isosafrole Peak 2	162	6.834	6.834	0.000	92	529826	10.5	10.1	
78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	1652841	12.5	12.2	
79 2-Chloronaphthalene	162	6.887	6.881	0.000	97	1317185	12.5	11.8	
80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	1219615	12.5	12.3	
81 Phenyl ether	170	6.975	6.975	0.000	91	943897	12.5	12.1	
82 2-Nitroaniline	138	6.987	6.981	0.000	87	405323	12.5	13.5	
84 1,4-Naphthoquinone	158	7.063	7.063	0.000	90	529827	12.5	12.3	
85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	194172	12.5	15.4	
86 Dimethyl phthalate	163	7.175	7.175	0.000	99	1626581	12.5	12.6	
87 1,3-Dinitrobenzene	168	7.193	7.193	0.001	82	226368	12.5	14.0	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	94	319312	12.5	12.9	
89 Acenaphthylene	152	7.298	7.293	0.000	98	2106066	12.5	12.4	
90 3-Nitroaniline	138	7.387	7.387	0.000	92	380530	12.5	13.6	
* 91 Acenaphthene-d10	164	7.440	7.440	0.000	94	461504	5.00	5.00	
93 Acenaphthene	153	7.469	7.463	0.000	96	1381558	12.5	12.0	
94 2,4-Dinitrophenol	184	7.493	7.487	0.000	81	269836	25.0	47.9	
95 4-Nitrophenol	109	7.551	7.551	0.000	97	460934	25.0	30.2	
96 Pentachlorobenzene	250	7.598	7.598	0.000	98	610544	12.5	11.5	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	94	459120	12.5	14.1	
97 Dibenzofuran	168	7.640	7.633	0.000	96	1980939	12.5	12.3	
99 1-Naphthylamine	143	7.716	7.716	0.000	99	1447493	12.5	12.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
101 2,3,4,6-Tetrachlorophenol	232	7.757	7.763	-0.006	73	385481	12.5	12.5	
103 2-Naphthylamine	143	7.792	7.792	0.000	97	1527615	12.5	12.4	
104 Diethyl phthalate	149	7.875	7.868	0.000	98	1666110	12.5	12.9	
106 Thionazin	107	7.951	7.951	0.000	80	245152	12.5	12.2	
105 Fluorene	166	7.981	7.974	0.000	92	1665523	12.5	12.5	
108 4-Chlorophenyl phenyl ether	204	7.981	7.974	0.000	90	816801	12.5	12.5	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	88	439249	12.5	13.4	
109 4-Nitroaniline	138	7.987	7.986	-0.005	84	444409	12.5	14.2	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	0.000	82	452275	25.0	42.0	
111 N-Nitrosodiphenylamine	169	8.092	8.098	-0.006	64	1219932	10.6	10.8	
112 1,2-Diphenylhydrazine	77	8.134	8.140	-0.006	100	1777330	12.5	12.7	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	94	546845	25.0	28.3	
114 Sulfotepp	97	8.257	8.257	0.000	80	271923	12.5	11.8	
172 1,3,5-Trinitrobenzene	213	8.345	8.345	0.000	84	169204	12.5	16.5	
115 cis-Diallate	86	8.387	8.387	0.000	91	489819	9.25	9.06	
116 Phorate	75	8.392	8.392	0.000	96	1062764	12.5	12.6	
117 Phenacetin	108	8.398	8.398	0.000	94	836358	12.5	13.1	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	72	499584	12.5	11.9	
119 trans-Diallate	86	8.475	8.475	0.000	87	171275	3.25	2.82	
120 Hexachlorobenzene	284	8.516	8.516	-0.006	96	593331	12.5	11.8	
121 Dimethoate	87	8.551	8.551	0.000	95	670381	12.5	12.5	
122 Atrazine	200	8.622	8.616	0.000	91	483051	12.5	12.1	
123 Pentachlorophenol	266	8.710	8.704	0.000	93	631913	25.0	26.9	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	1966913	12.5	12.2	
124 Pentachloronitrobenzene	237	8.722	8.728	-0.006	87	216819	12.5	12.4	
126 Pronamide	173	8.775	8.781	-0.006	91	786798	12.5	12.3	
128 Dinoseb	211	8.892	8.898	-0.006	96	303184	12.5	21.3	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	98	949020	5.00	5.00	
70 Disulfoton	88	8.904	8.910	-0.006	97	1026615	12.5	12.1	
129 Phenanthrene	178	8.922	8.922	0.000	98	2553857	12.5	12.1	
130 Anthracene	178	8.975	8.975	0.000	97	2637598	12.5	12.7	
S 56 Dinitrotoluene	165				0		25.0	27.0	
131 Carbazole	167	9.134	9.134	0.000	96	2550762	12.5	13.1	
132 Methyl parathion	109	9.269	9.275	-0.006	95	521948	12.5	14.3	
133 Di-n-butyl phthalate	149	9.481	9.486	-0.005	100	2794168	12.5	13.4	
S 65 Diallate	86				0		12.5	11.9	
134 Ethyl Parathion	109	9.657	9.657	0.000	85	302556	12.5	13.2	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	92	242824	12.5	13.8	
136 Octachlorostyrene	308	9.904	9.904	0.000	93	250561	12.5	12.0	
137 Isodrin	193	9.951	9.951	0.000	92	294157	12.5	11.1	
138 Fluoranthene	202	10.092	10.086	0.000	97	3032080	12.5	12.8	
139 Benzidine	184	10.228	10.228	0.000	99	7236170	37.5	46.2	e
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1067538	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	3231328	12.5	12.3	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	4831666	25.0	27.9	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	95	614419	12.5	13.0	
144 Chlorobenzilate	139	10.686	10.686	0.000	90	849396	12.5	12.8	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2024434	12.5	12.9	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	98	1414574	12.5	14.7	
147 2-Acetylaminofluorene	181	11.304	11.304	0.000	94	1194928	12.5	13.4	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	75	1502796	12.5	15.3	
150 4,4'-Methylene bis(2-chloroani	231	11.680	11.686	-0.006	95	705984	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	3563189	12.5	14.0	
151 Chrysene	228	11.751	11.751	0.000	96	3422303	12.5	13.9	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	98	2065891	12.5	14.1	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	2446109	12.5	13.8	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	3183695	12.5	12.0	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	88	1557412	12.5	12.4	
155 Benzo[b]fluoranthene	252	13.192	13.198	-0.006	97	3705659	12.5	12.6	
157 Benzo[k]fluoranthene	252	13.233	13.239	-0.006	99	3889493	12.5	13.3	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	76	3550824	12.5	13.6	
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1183565	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	1762021	12.5	13.3	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	90	2749428	12.5	13.7	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	3233587	12.5	15.8	
163 Indeno[1,2,3-cd]pyrene	276	15.451	15.451	-0.006	99	3426036	12.5	14.3	M
164 Dibenz(a,h)anthracene	278	15.504	15.497	0.000	91	3667687	12.5	15.2	
165 Benzo[g,h,i]perylene	276	15.945	15.938	0.000	98	3604295	12.5	15.0	
S 166 Isosafrole	162				0		12.5	11.8	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 07-Jul-2025 11:29:15 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0321.D

Injection Date: 03-Jul-2025 20:11:30 Instrument ID: HP18831 Operator ID: EEA115318_KEL10217

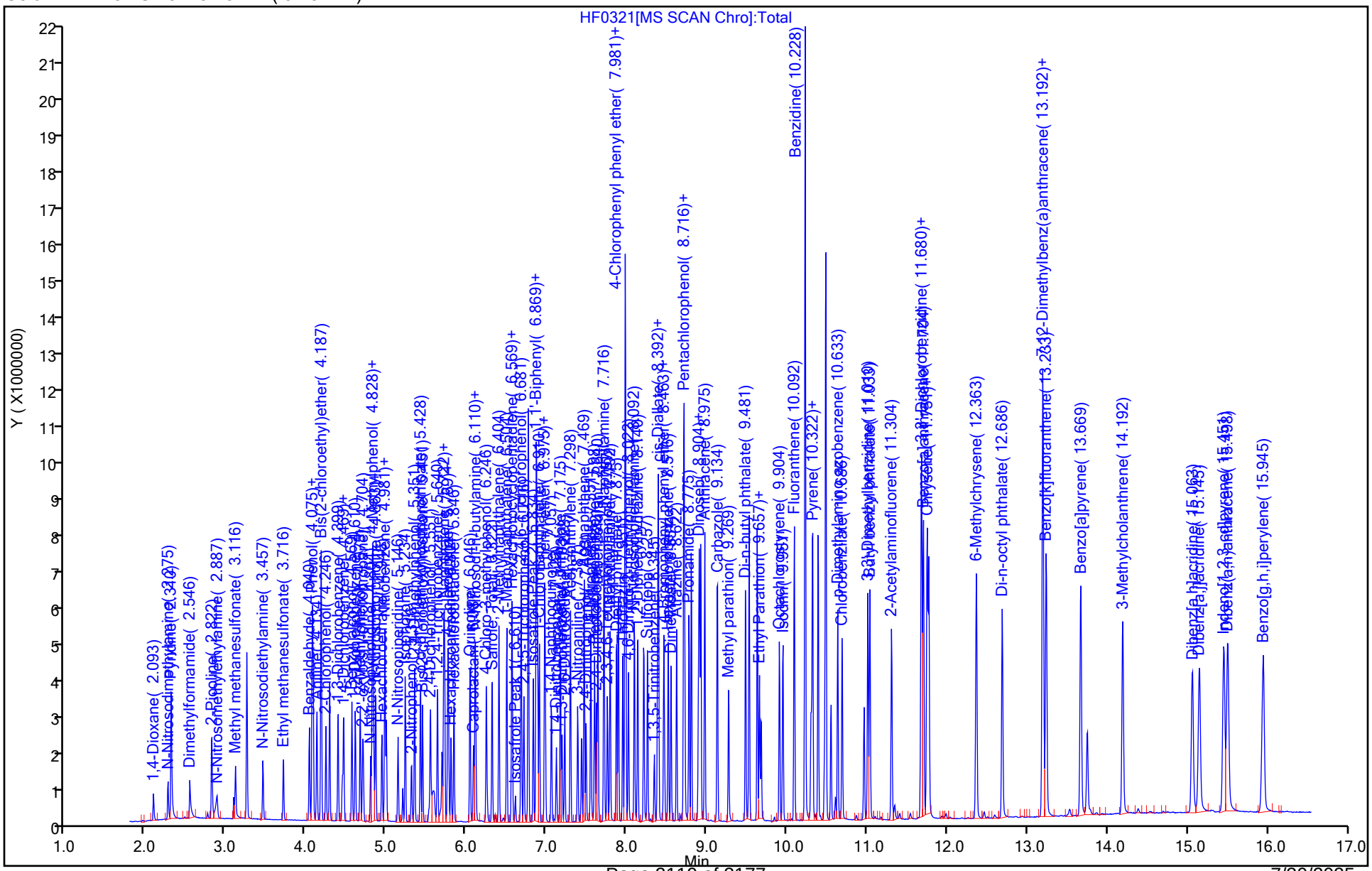
Lims ID: CCVC Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

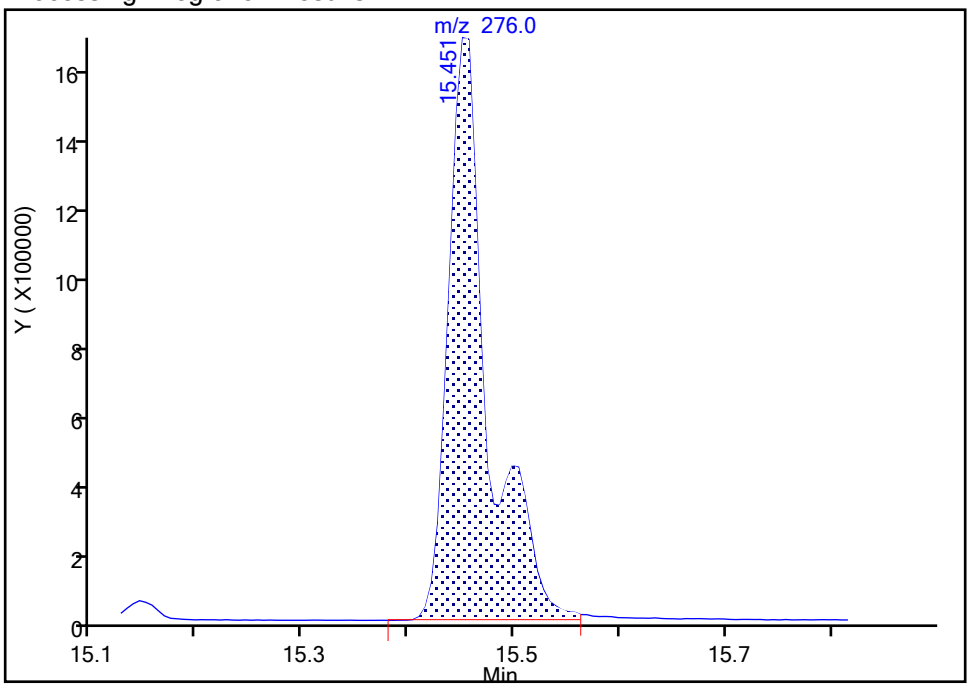
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0321.D				
Injection Date:	03-Jul-2025 20:11:30	Instrument ID:	HP18831		
Lims ID:	CCVC				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	2	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

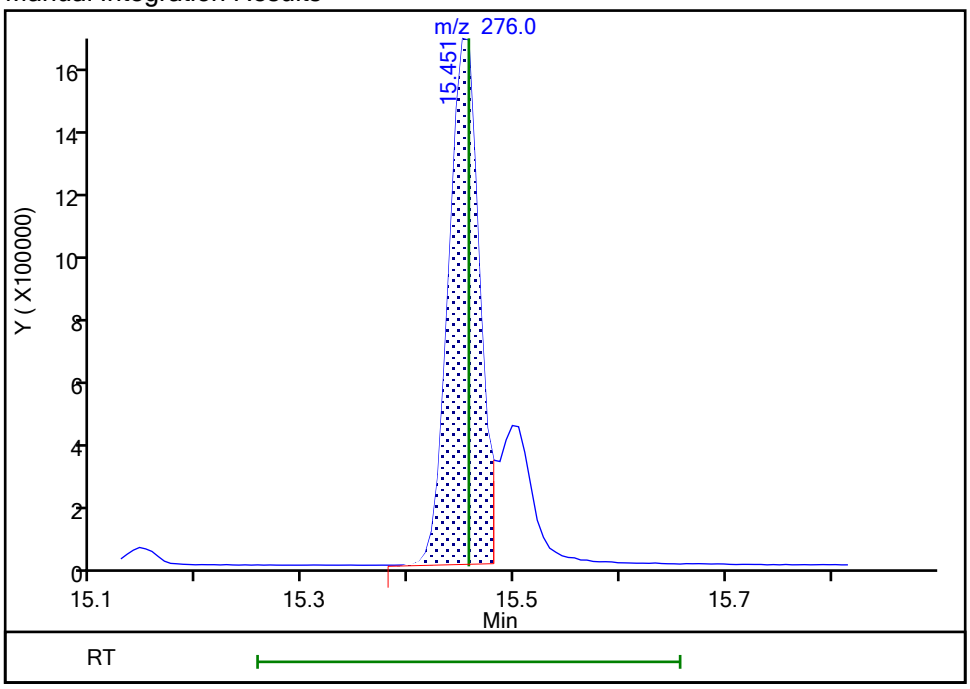
Processing Integration Results

RT: 15.45
Area: 4419690
Amount: 18.471981
Amount Units: ug/ml



Manual Integration Results

RT: 15.45
Area: 3426036
Amount: 14.319029
Amount Units: ug/ml



Reviewer: W6ZA, 07-Jul-2025 11:24:32 -04:00:00 (UTC)
Audit Action: Split an Integrated Peak Audit Reason: Incomplete Integration

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.5112		12.2	12.5	-2.4	20.0
N-Nitrosodimethylamine	Ave	0.9111	0.8851		12.1	12.5	-2.9	20.0
Pyridine	Ave	1.449	1.409		24.3	25.0	-2.7	20.0
N,N-dimethylformamide	Ave	0.9936	1.063		13.4	12.5	6.9	20.0
2-Picoline	Ave	1.495	1.511		12.6	12.5	1.1	20.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6996		12.9	12.5	3.5	20.0
Methyl methanesulfonate	Ave	0.8412	0.8805		13.1	12.5	4.7	20.0
N-Nitrosodiethylamine	Ave	0.6682	0.6759		12.6	12.5	1.2	20.0
Ethyl methanesulfonate	Ave	0.7584	0.7747		12.8	12.5	2.1	20.0
Benzaldehyde	Ave	1.272	1.113	0.0100	10.9	12.5	-12.5	20.0
Phenol	Ave	1.768	1.982	0.8000	14.0	12.5	12.1	20.0
Aniline	Ave	2.205	2.372		13.5	12.5	7.6	20.0
Bis(2-chloroethyl)ether	Ave	1.435	1.518	0.7000	13.2	12.5	5.8	20.0
2-Chlorophenol	Ave	1.293	1.376	0.8000	13.3	12.5	6.4	20.0
1,3-Dichlorobenzene	Ave	1.476	1.509		12.8	12.5	2.2	20.0
1,4-Dichlorobenzene	Ave	1.533	1.538		12.5	12.5	0.3	20.0
Benzyl alcohol	Ave	0.9501	0.9806		12.9	12.5	3.2	20.0
1,2-Dichlorobenzene	Ave	1.451	1.494		12.9	12.5	3.0	20.0
2-Methylphenol	Ave	1.284	1.437	0.7000	14.0	12.5	11.9	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.474	0.0100	13.1	12.5	4.6	20.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8565		13.3	12.5	6.5	20.0
3,4-Methylphenol	Ave	1.329	1.531	0.6000	14.4	12.5	15.2	20.0
Acetophenone	Ave	2.160	2.350	0.0100	13.6	12.5	8.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.312	0.5000	13.4	12.5	7.5	20.0
N-Nitrosomorpholine	Ave	1.146	1.203		13.1	12.5	5.0	20.0
o-Toluidine	Ave	2.316	2.453		13.2	12.5	5.9	20.0
Hexachloroethane	Ave	0.6187	0.6306	0.3000	12.7	12.5	1.9	20.0
Nitrobenzene	Ave	0.3849	0.3808	0.2000	12.4	12.5	-1.1	20.0
N-Nitrosopiperidine	Ave	0.1890	0.1810		12.0	12.5	-4.2	20.0
Isophorone	Ave	0.7472	0.7447	0.4000	12.5	12.5	-0.3	20.0
2-Nitrophenol	Ave	0.1189	0.1402	0.1000	14.7	12.5	17.9	20.0
2,4-Dimethylphenol	Ave	0.3495	0.3670	0.2000	13.1	12.5	5.0	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1908		12.1	12.5	-3.3	20.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4642	0.3000	12.5	12.5	0.3	20.0
2,4-Dichlorophenol	Ave	0.2634	0.2837	0.2000	13.5	12.5	7.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3314		12.3	12.5	-1.5	20.0
Naphthalene	Ave	1.027	1.057	0.7000	12.9	12.5	3.0	20.0
a-Terpineol	Ave	0.3263	0.3498		13.4	12.5	7.2	20.0
4-Chloroaniline	Ave	0.4491	0.4769	0.0100	13.3	12.5	6.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2829		13.5	12.5	7.8	20.0
Hexachloropropene	Ave	0.2086	0.1919		11.5	12.5	-8.0	20.0
Hexachlorobutadiene	Ave	0.1985	0.1993	0.0100	12.5	12.5	0.4	20.0
Quinoline	Ave	0.7634	0.7438		12.2	12.5	-2.6	20.0
Caprolactam	Ave	0.1121	0.1152	0.0100	12.9	12.5	2.8	20.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.2977		12.1	12.5	-3.6	20.0
1,4-phenylenediamine	Ave	0.4225	0.3774			12.5	-10.7	20.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3468	0.2000	14.1	12.5	13.1	20.0
Safrole, Total	Ave	0.2945	0.2880		12.2	12.5	-2.2	20.0
2-Methylnaphthalene	Ave	0.6681	0.6895	0.4000	12.9	12.5	3.2	20.0
1-Methylnaphthalene	Ave	0.6939	0.7238		13.0	12.5	4.3	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3287	0.0500	11.0	12.5	-12.1	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5569	0.0100	11.7	12.5	-6.3	20.0
Isosafrole Peak 1	Ave	0.5631	0.4695		1.67	2.00	-16.6	20.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3239	0.2000	13.5	12.5	8.1	20.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4021	0.2000	12.9	12.5	3.4	20.0
Isosafrole Peak 2	Ave	0.5697	0.5402		9.96	10.5	-5.2	20.0
1,1'-Biphenyl	Ave	1.473	1.446	0.0100	12.3	12.5	-1.8	20.0
2-Chloronaphthalene	Ave	1.212	1.145	0.8000	11.8	12.5	-5.6	20.0
1-Chloronaphthalene	Ave	1.070	1.055		12.3	12.5	-1.4	20.0
Diphenyl ether	Ave	0.8444	0.8136		12.0	12.5	-3.6	20.0
2-Nitroaniline	Ave	0.3247	0.3563	0.0100	13.7	12.5	9.7	20.0
1,4-Naphthoquinone	Ave	0.4673	0.4563		12.2	12.5	-2.3	20.0
1,4-Dinitrobenzene	Ave	0.1362	0.1699		15.6	12.5	24.8*	20.0
Dimethyl phthalate	Ave	1.394	1.423	0.0100	12.8	12.5	2.1	20.0
1,3-Dinitrobenzene	Ave	0.1757	0.2033		14.5	12.5	15.7	20.0
2,6-Dinitrotoluene	Ave	0.2673	0.2876	0.2000	13.5	12.5	7.6	20.0
Acenaphthylene	Ave	1.837	1.828	0.9000	12.4	12.5	-0.5	20.0
3-Nitroaniline	Ave	0.3037	0.3427	0.0100	14.1	12.5	12.9	20.0
Acenaphthene	Ave	1.243	1.212	0.9000	12.2	12.5	-2.5	20.0
2,4-Dinitrophenol	Ave	0.0610	0.1098	0.0100	45.0	25.0	80.0*	20.0
4-Nitrophenol	Ave	0.1653	0.2102	0.0100	31.8	25.0	27.2*	20.0
Pentachlorobenzene	Ave	0.5739	0.5295		11.5	12.5	-7.7	20.0
2,4-Dinitrotoluene	Ave	0.3532	0.4035	0.2000	14.3	12.5	14.3	20.0
Dibenzofuran	Ave	1.746	1.725	0.8000	12.4	12.5	-1.2	20.0
1-Naphthylamine	Ave	1.227	1.246		12.7	12.5	1.6	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3432	0.0100	12.9	12.5	3.1	20.0
2-Naphthylamine	Ave	1.337	1.299		12.1	12.5	-2.9	20.0
Diethyl phthalate	Ave	1.402	1.472	0.0100	13.1	12.5	5.0	20.0
Thionazin	Ave	0.2174	0.2224		12.8	12.5	2.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl-phenyl ether	Ave	0.7087	0.7070	0.4000	12.5	12.5	-0.2	20.0
Fluorene	Ave	1.439	1.456	0.9000	12.7	12.5	1.2	20.0
5-Nitro-o-toluidine	Ave	0.3560	0.3834		13.5	12.5	7.7	20.0
4-Nitroaniline	Ave	0.3391	0.4005	0.0100	14.8	12.5	18.1	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.0952	0.0100	42.0	25.0	68.1*	20.0
N-Nitrosodiphenylamine	Ave	0.5943	0.6107	0.0100	10.9	10.6	2.8	20.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7581		12.8	12.5	2.6	20.0
Sulfotepp	Ave	0.1209	0.1218		12.6	12.5	0.8	20.0
1,3,5-Trinitrobenzene	Qua2		0.0737			12.5	35.5*	20.0
cis-Diallate	Ave	0.2849	0.2845		9.24	9.25	-0.1	20.0
Phorate	Ave	0.4442	0.4551		12.8	12.5	2.4	20.0
Phenacetin	Ave	0.3359	0.3671		13.7	12.5	9.3	20.0
4-Bromophenyl-phenylether	Ave	0.2218	0.2142	0.1000	12.1	12.5	-3.4	20.0
trans-Diallate	Ave	0.3197	0.2828		2.88	3.25	-11.5	20.0
Hexachlorobenzene	Ave	0.2657	0.2544	0.1000	12.0	12.5	-4.2	20.0
Dimethoate	Lin1		0.2822		12.5	12.5	0.1	20.0
Atrazine	Ave	0.2108	0.2070	0.0100	12.3	12.5	-1.8	20.0
4-Aminobiphenyl	Ave	0.8505	0.7990		11.7	12.5	-6.1	20.0
Pentachlorophenol	Lin1		0.1337	0.0500	26.9	25.0	7.8	20.0
Pentachloronitrobenzene	Ave	0.0920	0.0941		12.8	12.5	2.3	20.0
Pronamide	Ave	0.3380	0.3426		12.7	12.5	1.4	20.0
Dinoseb	Ave	0.0748	0.1268		21.2	12.5	69.4*	20.0
Disulfoton	Lin2		0.4450		12.5	12.5	-0.0	20.0
Phenanthrene	Ave	1.114	1.106	0.7000	12.4	12.5	-0.7	20.0
Anthracene	Ave	1.093	1.127	0.7000	12.9	12.5	3.1	20.0
Carbazole	Ave	1.023	1.103	0.0100	13.5	12.5	7.8	20.0
Methyl parathion	Ave	0.1925	0.2236		14.5	12.5	16.1	20.0
Di-n-butyl phthalate	Ave	1.096	1.215	0.0100	13.9	12.5	10.9	20.0
Parathion	Ave	0.1208	0.1369		14.2	12.5	13.3	20.0
4-Nitroquinoline-1-oxide	Qua2		0.1062		14.3	12.5	14.0	20.0
Octachlorostyrene	Ave	0.1097	0.1096		12.5	12.5	-0.0	20.0
Isodrin	Ave	0.1396	0.1332		11.9	12.5	-4.6	20.0
Fluoranthene	Ave	1.244	1.320	0.6000	13.3	12.5	6.1	20.0
Benzidine	Ave	0.7336	0.8454		43.2	37.5	15.3	20.0
Pyrene	Ave	1.226	1.202	0.6000	12.3	12.5	-2.0	20.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2287		12.9	12.5	3.1	20.0
Chlorobenzilate	Ave	0.3103	0.3321		13.4	12.5	7.0	20.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.6956		11.8	12.5	-5.6	20.0
Butylbenzylphthalate	Ave	0.4497	0.5331	0.0100	14.8	12.5	18.5	20.0
2-Acetylaminofluorene	Ave	0.4183	0.4497		13.4	12.5	7.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668512/2 Calibration Date: 07/08/2025 20:38

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0851.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5519	0.0100	15.0	12.5	19.9	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2555		13.5	12.5	7.7	20.0
Benzo[a]anthracene	Ave	1.193	1.326	0.8000	13.9	12.5	11.2	20.0
Chrysene	Ave	1.157	1.267	0.7000	13.7	12.5	9.5	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7967	0.0100	14.5	12.5	16.2	20.0
6-Methylchrysene	Ave	0.8284	0.9024		13.6	12.5	8.9	20.0
Di-n-octyl phthalate	Lin2		1.125	0.0100	12.5	12.5	-0.2	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5134		12.1	12.5	-3.0	20.0
Benzo[b]fluoranthene	Ave	1.242	1.290	0.7000	13.0	12.5	3.8	20.0
Benzo[k]fluoranthene	Ave	1.234	1.327	0.7000	13.5	12.5	7.6	20.0
Benzo[a]pyrene	Ave	1.103	1.187	0.7000	13.5	12.5	7.6	20.0
3-Methylcholanthrene	Ave	0.5600	0.5938		13.3	12.5	6.0	20.0
Dibenz[a,h]acridine	Ave	0.8479	0.9269		13.7	12.5	9.3	20.0
Dibenz[a,j]acridine	Ave	0.8670	1.068		15.4	12.5	23.2*	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.148	0.5000	14.2	12.5	13.5	20.0
Dibenz(a,h)anthracene	Ave	1.019	1.229	0.4000	15.1	12.5	20.6*	20.0
Benzo[g,h,i]perylene	Ave	1.014	1.180	0.5000	14.6	12.5	16.4	20.0
2-Fluorophenol (Surr)	Ave	1.193	1.297		27.2	25.0	8.7	20.0
Phenol-d5 (Surr)	Ave	1.660	1.951		29.4	25.0	17.5	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.3927		27.5	25.0	10.1	20.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.388		25.7	25.0	2.8	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2497		29.8	25.0	19.1	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.8964		27.6	25.0	10.4	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0851.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jul-2025 20:38:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: kel10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Jul-2025 21:33:45 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1718

First Level Reviewer: SJ89 Date: 08-Jul-2025 21:33:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.087	2.087	0.000	98	204385	12.5	12.2	
2 N-Nitrosodimethylamine	74	2.269	2.269	0.000	89	353894	12.5	12.1	
3 Pyridine	79	2.310	2.310	0.000	90	1126979	25.0	24.3	
4 Dimethylformamide	73	2.540	2.540	0.000	95	424881	12.5	13.4	
5 2-Picoline	93	2.816	2.816	0.000	96	604241	12.5	12.6	
6 N-Nitrosomethylethylamine	88	2.881	2.881	0.000	94	279724	12.5	12.9	
9 Methyl methanesulfonate	80	3.116	3.116	0.000	87	352070	12.5	13.1	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	1037280	25.0	27.2	
11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	270252	12.5	12.6	
13 Ethyl methanesulfonate	109	3.710	3.710	0.000	99	309735	12.5	12.8	
15 Benzaldehyde	77	4.034	4.034	0.000	94	445184	12.5	10.9	
$ 16 Phenol-d5	99	4.075	4.075	0.000	97	1560307	25.0	29.4	
17 Phenol	94	4.087	4.087	0.000	98	792392	12.5	14.0	
18 Aniline	93	4.128	4.128	0.000	96	948571	12.5	13.5	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	92	607075	12.5	13.2	
20 2-Chlorophenol	128	4.246	4.246	0.000	97	550266	12.5	13.3	
22 1,3-Dichlorobenzene	146	4.393	4.393	0.000	97	603284	12.5	12.8	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	159935	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	92	614994	12.5	12.5	
26 Benzyl alcohol	108	4.569	4.569	0.000	90	392075	12.5	12.9	
27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	597497	12.5	12.9	
30 2-Methylphenol	108	4.675	4.675	0.000	97	574440	12.5	14.0	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	989351	12.5	13.1	
33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	85	342476	12.5	13.3	
36 4-Methylphenol	108	4.822	4.822	0.000	95	612054	12.5	14.4	
34 Acetophenone	105	4.828	4.828	0.000	89	939430	12.5	13.6	
35 N-Nitrosodi-n-propylamine	70	4.828	4.828	0.000	80	524458	12.5	13.4	
37 N-Nitrosomorpholine	56	4.846	4.846	0.000	93	481118	12.5	13.1	
38 2-Toluidine	106	4.863	4.863	0.000	96	980895	12.5	13.2	
40 Hexachloroethane	117	4.940	4.940	0.000	94	252141	12.5	12.7	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1439011	25.0	27.5	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	42 Nitrobenzene	77	4.999	4.999	0.000	91	697641	12.5	12.4	
	43 N-Nitrosopiperidine	114	5.146	5.146	0.000	80	331578	12.5	12.0	
	45 Isophorone	82	5.234	5.234	0.000	99	1364402	12.5	12.5	
	46 2-Nitrophenol	139	5.310	5.310	0.000	96	256865	12.5	14.7	
	48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	672424	12.5	13.1	
	49 o,o',o''-Triethylphosphorothioat	198	5.422	5.422	0.000	89	349515	12.5	12.1	
	51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	850530	12.5	12.5	
	52 2,4-Dichlorophenol	162	5.551	5.551	0.000	95	519877	12.5	13.5	
	53 1,2,4-Trichlorobenzene	180	5.640	5.640	0.000	94	607282	12.5	12.3	
*	54 Naphthalene-d8	136	5.693	5.693	0.000	100	732906	5.00	5.00	
	55 Naphthalene	128	5.716	5.716	0.000	98	1936766	12.5	12.9	
	29 Alpha-Terpineol	59	5.728	5.728	0.000	94	640907	12.5	13.4	
	57 4-Chloroaniline	127	5.763	5.763	0.000	95	873883	12.5	13.3	
	58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	518262	12.5	13.5	
	59 Hexachloropropene	213	5.804	5.804	0.000	89	351556	12.5	11.5	
	60 Hexachlorobutadiene	225	5.840	5.840	0.000	95	365082	12.5	12.5	
	62 Quinoline	129	6.045	6.045	0.000	96	1362776	12.5	12.2	
	63 Caprolactam	113	6.087	6.087	0.000	75	211151	12.5	12.8	
	64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	545442	12.5	12.1	
	39 p-Phenylene diamine	108	6.116	6.116	0.000	95	691478	12.5	11.2	
	66 4-Chloro-3-methylphenol	107	6.251	6.251	0.000	97	635486	12.5	14.1	
	67 Safrole, Total	162	6.322	6.322	0.000	90	527759	12.5	12.2	
	68 2-Methylnaphthalene	142	6.404	6.404	0.000	91	1263304	12.5	12.9	
	69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	1326118	12.5	13.0	
	71 Hexachlorocyclopentadiene	237	6.563	6.563	0.000	95	407079	12.5	11.0	
	72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	98	689730	12.5	11.7	
	73 Isosafrole Peak 1	162	6.610	6.610	0.000	89	93034	2.00	1.67	
	74 2,4,6-Trichlorophenol	196	6.681	6.681	0.000	76	401145	12.5	13.5	
	75 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	95	498042	12.5	12.9	
$	76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	3437939	25.0	25.7	
	77 Isosafrole Peak 2	162	6.834	6.834	0.000	91	561983	10.5	9.96	
	78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	1790679	12.5	12.3	
	79 2-Chloronaphthalene	162	6.887	6.887	0.000	97	1417553	12.5	11.8	
	80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	1306678	12.5	12.3	
	81 Phenyl ether	170	6.975	6.975	0.000	90	1007724	12.5	12.0	
	82 2-Nitroaniline	138	6.987	6.987	0.000	87	441248	12.5	13.7	
	84 1,4-Naphthoquinone	158	7.063	7.063	0.000	90	565169	12.5	12.2	
	85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	210458	12.5	15.6	
	86 Dimethyl phthalate	163	7.175	7.175	0.000	99	1762657	12.5	12.8	
	87 1,3-Dinitrobenzene	168	7.192	7.192	0.000	83	251741	12.5	14.5	
	88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	94	356203	12.5	13.5	
	89 Acenaphthylene	152	7.298	7.298	0.000	98	2264619	12.5	12.4	
	90 3-Nitroaniline	138	7.392	7.392	0.000	94	424490	12.5	14.1	
*	91 Acenaphthene-d10	164	7.440	7.440	0.000	94	495411	5.00	5.00	
	93 Acenaphthene	153	7.469	7.469	0.000	96	1500775	12.5	12.2	
	94 2,4-Dinitrophenol	184	7.492	7.492	0.000	83	271970	25.0	45.0	
	95 4-Nitrophenol	109	7.557	7.557	0.000	96	520660	25.0	31.8	
	96 Pentachlorobenzene	250	7.598	7.598	0.000	98	655846	12.5	11.5	
	98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	499764	12.5	14.3	
	97 Dibenzofuran	168	7.640	7.640	0.000	96	2136624	12.5	12.4	
	99 1-Naphthylamine	143	7.716	7.716	0.000	99	1543768	12.5	12.7	
	101 2,3,4,6-Tetrachlorophenol	232	7.763	7.763	0.000	73	425087	12.5	12.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.792	7.792	0.000	97	1608291	12.5	12.1	
104 Diethyl phthalate	149	7.875	7.875	0.000	98	1823262	12.5	13.1	
106 Thionazin	107	7.951	7.951	0.000	80	275491	12.5	12.8	
105 Fluorene	166	7.981	7.981	0.000	93	1803009	12.5	12.6	
108 4-Chlorophenyl phenyl ether	204	7.981	7.981	0.000	86	875641	12.5	12.5	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	88	474811	12.5	13.5	
109 4-Nitroaniline	138	7.992	7.992	0.000	82	496023	12.5	14.8	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	0.000	81	484537	25.0	42.0	
111 N-Nitrosodiphenylamine	169	8.098	8.098	0.000	64	1320261	10.6	10.9	
112 1,2-Diphenylhydrazine	77	8.139	8.139	0.000	99	1928148	12.5	12.8	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	618531	25.0	29.8	
114 Sulfotepp	97	8.257	8.257	0.000	80	309921	12.5	12.6	
172 1,3,5-Trinitrobenzene	213	8.345	8.345	0.000	85	187440	12.5	16.9	
115 cis-Diallate	86	8.387	8.387	0.000	94	535563	9.25	9.24	
116 Phorate	75	8.392	8.392	0.000	95	1157595	12.5	12.8	
117 Phenacetin	108	8.398	8.398	0.000	94	933688	12.5	13.7	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	67	544874	12.5	12.1	
119 trans-Diallate	86	8.475	8.475	0.000	88	187050	3.25	2.88	
120 Hexachlorobenzene	284	8.516	8.516	0.000	96	647172	12.5	12.0	
121 Dimethoate	87	8.551	8.551	0.000	95	717732	12.5	12.5	
122 Atrazine	200	8.622	8.622	0.000	92	526434	12.5	12.3	
123 Pentachlorophenol	266	8.716	8.716	0.000	93	679916	25.0	26.9	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	2032331	12.5	11.7	
124 Pentachloronitrobenzene	237	8.728	8.728	0.000	87	239444	12.5	12.8	
126 Pronamide	173	8.775	8.775	0.000	91	871516	12.5	12.7	
* 127 Phenanthrene-d10	188	8.898	8.898	0.000	97	1017418	5.00	5.00	
128 Dinoseb	211	8.898	8.898	0.000	96	322446	12.5	21.2	
70 Disulfoton	88	8.910	8.910	0.000	97	1131922	12.5	12.5	
129 Phenanthrene	178	8.922	8.922	0.000	98	2813042	12.5	12.4	
130 Anthracene	178	8.975	8.975	0.000	97	2866419	12.5	12.9	
S 56 Dinitrotoluene	165				0		25.0	27.7	
131 Carbazole	167	9.134	9.134	0.000	96	2805640	12.5	13.5	
132 Methyl parathion	109	9.269	9.269	0.000	94	568773	12.5	14.5	
133 Di-n-butyl phthalate	149	9.481	9.481	0.000	100	3090815	12.5	13.9	
S 65 Diallate	86				0		12.5	12.1	
134 Ethyl Parathion	109	9.657	9.657	0.000	85	348228	12.5	14.2	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	93	270121	12.5	14.2	
136 Octachlorostyrene	308	9.904	9.904	0.000	92	278875	12.5	12.5	
137 Isodrin	193	9.945	9.945	0.000	93	338810	12.5	11.9	
138 Fluoranthene	202	10.092	10.092	0.000	97	3357939	12.5	13.3	
139 Benzidine	184	10.228	10.228	0.000	99	7544743	37.5	43.2	e
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	1189888	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	3574524	12.5	12.3	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	5333179	25.0	27.6	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	94	680171	12.5	12.9	
144 Chlorobenzilate	139	10.686	10.686	0.000	90	987776	12.5	13.4	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2069144	12.5	11.8	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	98	1585788	12.5	14.8	
147 2-Acetylaminofluorene	181	11.304	11.304	0.000	94	1337816	12.5	13.4	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	76	1641762	12.5	15.0	
150 4,4'-Methylene bis(2-chloroani	231	11.680	11.680	0.000	96	759918	12.5	13.5	
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	3943476	12.5	13.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.751	11.751	0.000	96	3768091	12.5	13.7	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	97	2370039	12.5	14.5	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	2684530	12.5	13.6	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	3640951	12.5	12.5	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	88	1661122	12.5	12.1	
155 Benzo[b]fluoranthene	252	13.198	13.198	0.000	97	4173160	12.5	13.0	
157 Benzo[k]fluoranthene	252	13.233	13.233	0.000	99	4294061	12.5	13.4	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	76	3841922	12.5	13.5	
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1294254	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	1921418	12.5	13.3	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	89	2999135	12.5	13.7	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	3454810	12.5	15.4	
163 Indeno[1,2,3-cd]pyrene	276	15.451	15.451	0.000	98	3713197	12.5	14.2	M
164 Dibenz(a,h)anthracene	278	15.504	15.504	0.000	92	3975417	12.5	15.1	
165 Benzo[g,h,i]perylene	276	15.945	15.945	0.000	98	3818639	12.5	14.5	
S 166 Isosafrole	162				0		12.5	11.6	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 08-Jul-2025 21:33:46 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0851.D

Injection Date: 08-Jul-2025 20:38:30 Instrument ID: HP18831 Operator ID: kel10217

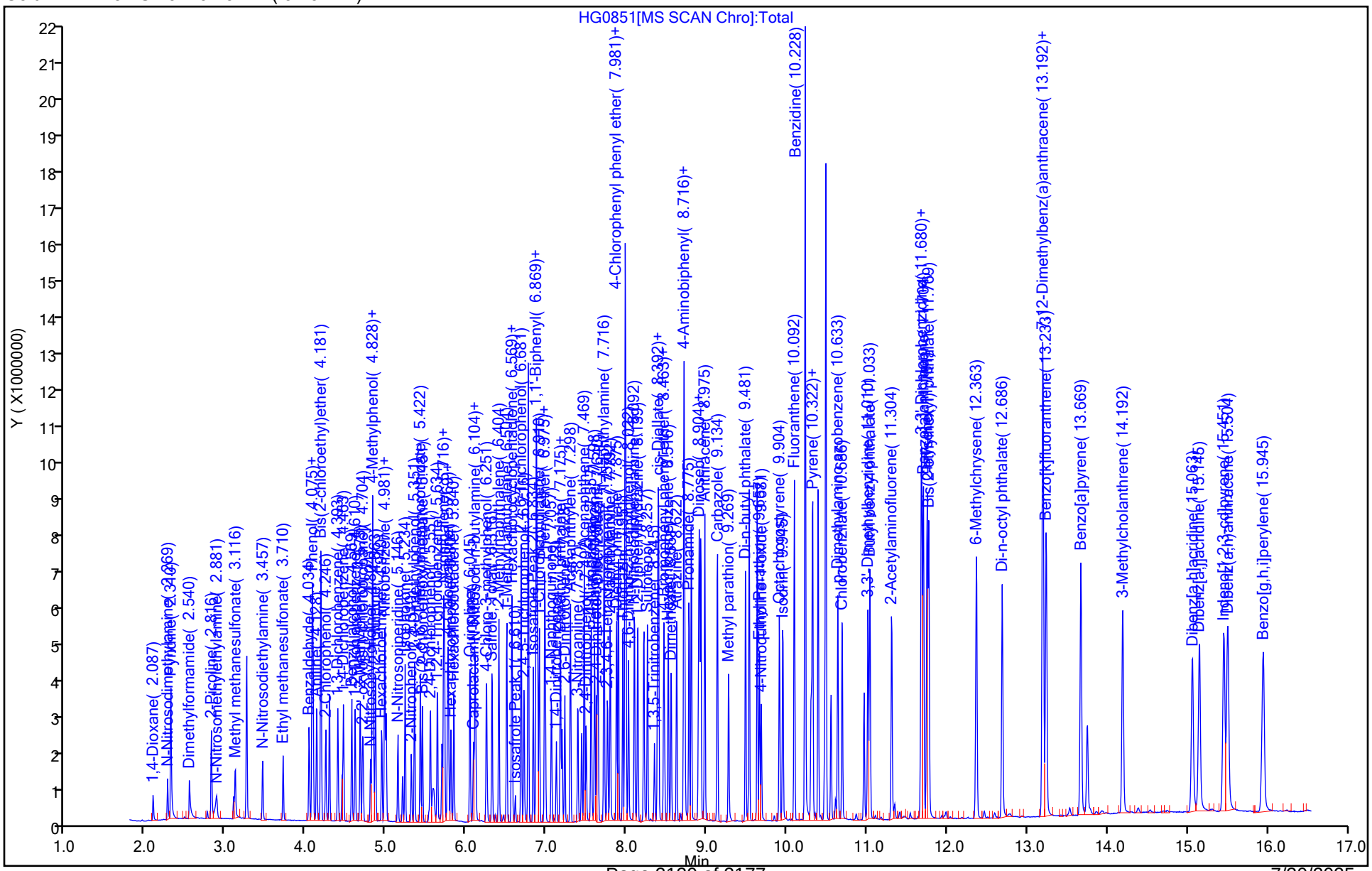
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

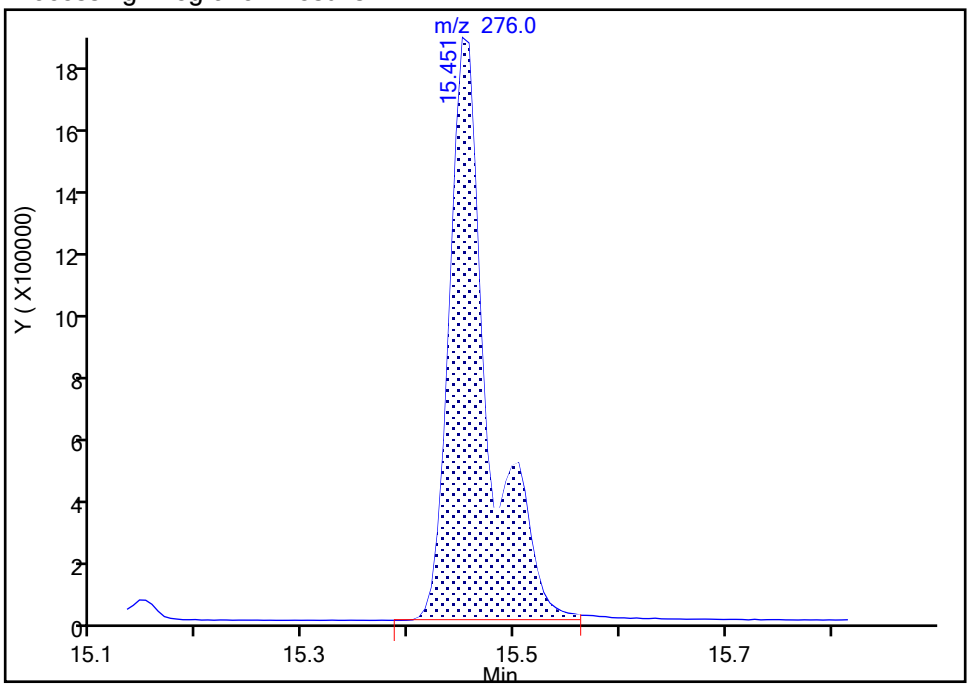
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0851.D				
Injection Date:	08-Jul-2025 20:38:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

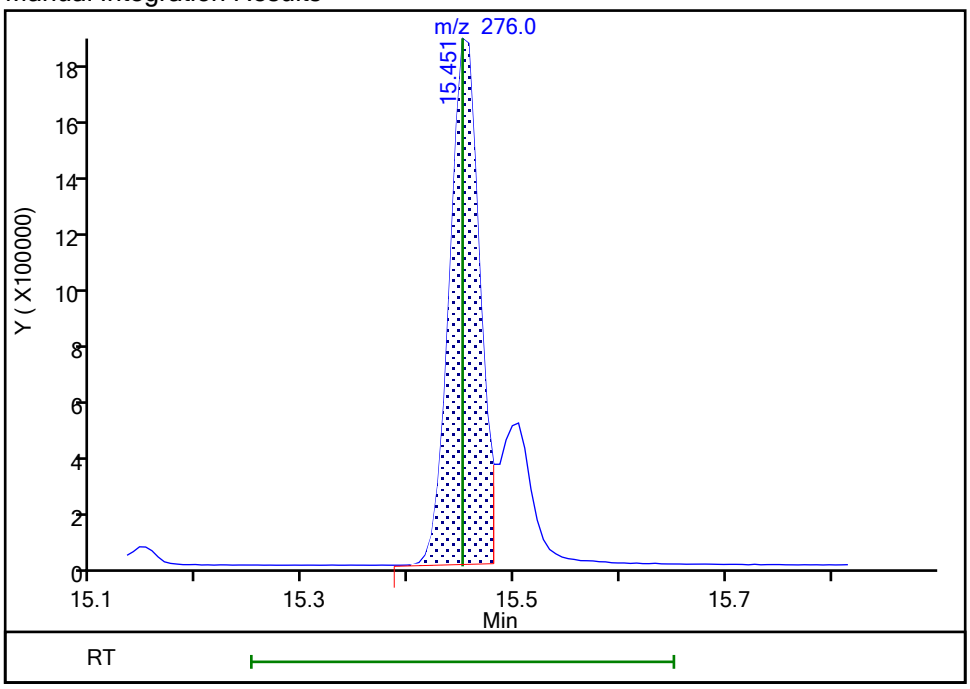
Processing Integration Results

RT: 15.45
Area: 4807989
Amount: 18.376285
Amount Units: ug/ml



Manual Integration Results

RT: 15.45
Area: 3713197
Amount: 14.191956
Amount Units: ug/ml



Reviewer: SJ89, 08-Jul-2025 20:59:52 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Baseline

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5238	0.5352		12.8	12.5	2.2	20.0
N-Nitrosodimethylamine	Ave	0.9111	0.8906		12.2	12.5	-2.3	20.0
Pyridine	Ave	1.449	1.417		24.5	25.0	-2.2	20.0
N,N-dimethylformamide	Ave	0.9936	1.081		13.6	12.5	8.8	20.0
2-Picoline	Ave	1.495	1.594		13.3	12.5	6.6	20.0
N-Nitrosomethylethylamine	Ave	0.6760	0.6576		12.2	12.5	-2.7	20.0
Methyl methanesulfonate	Ave	0.8412	0.8432		12.5	12.5	0.2	20.0
N-Nitrosodiethylamine	Ave	0.6682	0.6762		12.7	12.5	1.2	20.0
Ethyl methanesulfonate	Ave	0.7584	0.7389		12.2	12.5	-2.6	20.0
Benzaldehyde	Ave	1.272	1.009	0.0100	9.92	12.5	-20.7*	20.0
Phenol	Ave	1.768	1.911	0.8000	13.5	12.5	8.0	20.0
Aniline	Ave	2.205	2.341		13.3	12.5	6.2	20.0
Bis(2-chloroethyl)ether	Ave	1.435	1.500	0.7000	13.1	12.5	4.5	20.0
2-Chlorophenol	Ave	1.293	1.386	0.8000	13.4	12.5	7.2	20.0
1,3-Dichlorobenzene	Ave	1.476	1.489		12.6	12.5	0.9	20.0
1,4-Dichlorobenzene	Ave	1.533	1.516		12.4	12.5	-1.1	20.0
Benzyl alcohol	Ave	0.9501	0.9809		12.9	12.5	3.2	20.0
1,2-Dichlorobenzene	Ave	1.451	1.496		12.9	12.5	3.1	20.0
2-Methylphenol	Ave	1.284	1.386	0.7000	13.5	12.5	8.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.365	2.563	0.0100	13.6	12.5	8.4	20.0
N-Nitrosopyrrolidine	Ave	0.8046	0.8222		12.8	12.5	2.2	20.0
3,4-Methylphenol	Ave	1.329	1.481	0.6000	13.9	12.5	11.4	20.0
Acetophenone	Ave	2.160	2.270	0.0100	13.1	12.5	5.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.220	1.285	0.5000	13.2	12.5	5.3	20.0
N-Nitrosomorpholine	Ave	1.146	1.193		13.0	12.5	4.1	20.0
o-Toluidine	Ave	2.316	2.350		12.7	12.5	1.5	20.0
Hexachloroethane	Ave	0.6187	0.6256	0.3000	12.6	12.5	1.1	20.0
Nitrobenzene	Ave	0.3849	0.4030	0.2000	13.1	12.5	4.7	20.0
N-Nitrosopiperidine	Ave	0.1890	0.1868		12.4	12.5	-1.1	20.0
Isophorone	Ave	0.7472	0.7679	0.4000	12.9	12.5	2.8	20.0
2-Nitrophenol	Ave	0.1189	0.1630	0.1000	17.1	12.5	37.1*	20.0
2,4-Dimethylphenol	Ave	0.3495	0.3701	0.2000	13.2	12.5	5.9	20.0
o,o',o''-Triethylphosphorothioate	Ave	0.1973	0.1974		12.5	12.5	0.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.4628	0.4796	0.3000	13.0	12.5	3.6	20.0
2,4-Dichlorophenol	Ave	0.2634	0.2924	0.2000	13.9	12.5	11.0	20.0
1,2,4-Trichlorobenzene	Ave	0.3366	0.3338		12.4	12.5	-0.9	20.0
Naphthalene	Ave	1.027	1.050	0.7000	12.8	12.5	2.3	20.0
a-Terpineol	Ave	0.3263	0.3693		14.1	12.5	13.2	20.0
4-Chloroaniline	Ave	0.4491	0.4771	0.0100	13.3	12.5	6.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,6-Dichlorophenol	Ave	0.2623	0.2896		13.8	12.5	10.4	20.0
Hexachloropropene	Ave	0.2086	0.1997		12.0	12.5	-4.2	20.0
Hexachlorobutadiene	Ave	0.1985	0.1965	0.0100	12.4	12.5	-1.0	20.0
Quinoline	Ave	0.7634	0.7400		12.1	12.5	-3.1	20.0
Caprolactam	Ave	0.1121	0.1150	0.0100	12.8	12.5	2.5	20.0
N-Nitrosodi-n-butylamine	Ave	0.3088	0.3673		14.9	12.5	19.0	20.0
1,4-phenylenediamine	Ave	0.4225	0.3422			12.5	-19.0	20.0
4-Chloro-3-methylphenol	Ave	0.3066	0.3430	0.2000	14.0	12.5	11.9	20.0
Safrole, Total	Ave	0.2945	0.2871		12.2	12.5	-2.5	20.0
2-Methylnaphthalene	Ave	0.6681	0.6841	0.4000	12.8	12.5	2.4	20.0
1-Methylnaphthalene	Ave	0.6939	0.7038		12.7	12.5	1.4	20.0
Hexachlorocyclopentadiene	Ave	0.3741	0.3597	0.0500	12.0	12.5	-3.8	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5944	0.5636	0.0100	11.9	12.5	-5.2	20.0
Isosafrole Peak 1	Ave	0.5631	0.4905		1.74	2.00	-12.9	20.0
2,4,6-Trichlorophenol	Ave	0.2995	0.3486	0.2000	14.6	12.5	16.4	20.0
2,4,5-Trichlorophenol	Ave	0.3890	0.4127	0.2000	13.3	12.5	6.1	20.0
Isosafrole Peak 2	Ave	0.5697	0.5413		9.98	10.5	-5.0	20.0
1,1'-Biphenyl	Ave	1.473	1.437	0.0100	12.2	12.5	-2.4	20.0
2-Chloronaphthalene	Ave	1.212	1.116	0.8000	11.5	12.5	-8.0	20.0
1-Chloronaphthalene	Ave	1.070	1.051		12.3	12.5	-1.8	20.0
Diphenyl ether	Ave	0.8444	0.8157		12.1	12.5	-3.4	20.0
2-Nitroaniline	Ave	0.3247	0.3686	0.0100	14.2	12.5	13.5	20.0
1,4-Naphthoquinone	Ave	0.4673	0.4558		12.2	12.5	-2.5	20.0
1,4-Dinitrobenzene	Ave	0.1362	0.1846		16.9	12.5	35.5*	20.0
Dimethyl phthalate	Ave	1.394	1.440	0.0100	12.9	12.5	3.3	20.0
1,3-Dinitrobenzene	Ave	0.1757	0.2158		15.4	12.5	22.8*	20.0
2,6-Dinitrotoluene	Ave	0.2673	0.2993	0.2000	14.0	12.5	12.0	20.0
Acenaphthylene	Ave	1.837	1.832	0.9000	12.5	12.5	-0.3	20.0
3-Nitroaniline	Ave	0.3037	0.3413	0.0100	14.1	12.5	12.4	20.0
Acenaphthene	Ave	1.243	1.193	0.9000	12.0	12.5	-4.0	20.0
2,4-Dinitrophenol	Ave	0.0610	0.1438	0.0100	58.9	25.0	135.7*	20.0
4-Nitrophenol	Ave	0.1653	0.1915	0.0100	29.0	25.0	15.9	20.0
Pentachlorobenzene	Ave	0.5739	0.5264		11.5	12.5	-8.3	20.0
2,4-Dinitrotoluene	Ave	0.3532	0.4213	0.2000	14.9	12.5	19.3	20.0
Dibenzofuran	Ave	1.746	1.714	0.8000	12.3	12.5	-1.8	20.0
1-Naphthylamine	Ave	1.227	1.227		12.5	12.5	-0.0	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3329	0.3414	0.0100	12.8	12.5	2.5	20.0
2-Naphthylamine	Ave	1.337	1.237		11.6	12.5	-7.5	20.0
Diethyl phthalate	Ave	1.402	1.494	0.0100	13.3	12.5	6.6	20.0
Thionazin	Ave	0.2174	0.2201		12.7	12.5	1.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Chlorophenyl-phenyl ether	Ave	0.7087	0.6889	0.4000	12.2	12.5	-2.8	20.0
Fluorene	Ave	1.439	1.431	0.9000	12.4	12.5	-0.5	20.0
5-Nitro-o-toluidine	Ave	0.3560	0.3855		13.5	12.5	8.3	20.0
4-Nitroaniline	Ave	0.3391	0.3792	0.0100	14.0	12.5	11.8	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.1090	0.0100	46.7	25.0	86.8*	20.0
N-Nitrosodiphenylamine	Ave	0.5943	0.6019	0.0100	10.8	10.6	1.3	20.0
1,2-Diphenylhydrazine	Ave	0.7386	0.7642		12.9	12.5	3.5	20.0
Sulfotepp	Ave	0.1209	0.1227		12.7	12.5	1.5	20.0
1,3,5-Trinitrobenzene	Qua2		0.0738			12.5	35.6*	20.0
cis-Diallate	Ave	0.2849	0.2925		9.50	9.25	2.7	20.0
Phorate	Ave	0.4442	0.4786		13.5	12.5	7.7	20.0
Phenacetin	Ave	0.3359	0.3595		13.4	12.5	7.0	20.0
4-Bromophenyl-phenylether	Ave	0.2218	0.2129	0.1000	12.0	12.5	-4.0	20.0
trans-Diallate	Ave	0.3197	0.2960		3.01	3.25	-7.4	20.0
Hexachlorobenzene	Ave	0.2657	0.2449	0.1000	11.5	12.5	-7.8	20.0
Dimethoate	Lin1		0.2864		12.7	12.5	1.6	20.0
Atrazine	Ave	0.2108	0.2067	0.0100	12.3	12.5	-2.0	20.0
4-Aminobiphenyl	Ave	0.8505	0.7798		11.5	12.5	-8.3	20.0
Pentachlorophenol	Lin1		0.1353	0.0500	27.3	25.0	9.0	20.0
Pentachloronitrobenzene	Ave	0.0920	0.0959		13.0	12.5	4.2	20.0
Pronamide	Ave	0.3380	0.3366		12.5	12.5	-0.4	20.0
Dinoseb	Ave	0.0748	0.1505		25.1	12.5	101.1*	20.0
Disulfoton	Lin2		0.4575		12.9	12.5	2.8	20.0
Phenanthrene	Ave	1.114	1.062	0.7000	11.9	12.5	-4.7	20.0
Anthracene	Ave	1.093	1.093	0.7000	12.5	12.5	-0.0	20.0
Carbazole	Ave	1.023	1.036	0.0100	12.7	12.5	1.2	20.0
Methyl parathion	Ave	0.1925	0.2351		15.3	12.5	22.1*	20.0
Di-n-butyl phthalate	Ave	1.096	1.212	0.0100	13.8	12.5	10.6	20.0
Parathion	Ave	0.1208	0.1396		14.4	12.5	15.5	20.0
4-Nitroquinoline-1-oxide	Qua2		0.1089		14.5	12.5	16.3	20.0
Octachlorostyrene	Ave	0.1097	0.1044		11.9	12.5	-4.9	20.0
Isodrin	Ave	0.1396	0.1260		11.3	12.5	-9.7	20.0
Fluoranthene	Ave	1.244	1.244	0.6000	12.5	12.5	0.0	20.0
Benzidine	Ave	0.7336	0.7350		37.6	37.5	0.2	20.0
Pyrene	Ave	1.226	1.210	0.6000	12.3	12.5	-1.3	20.0
p-Dimethylamino azobenzene	Ave	0.2218	0.2321		13.1	12.5	4.6	20.0
Chlorobenzilate	Ave	0.3103	0.3356		13.5	12.5	8.1	20.0
3,3'-Dimethylbenzidine	Ave	0.7371	0.6443		10.9	12.5	-12.6	20.0
Butylbenzylphthalate	Ave	0.4497	0.5255	0.0100	14.6	12.5	16.8	20.0
2-Acetylaminofluorene	Ave	0.4183	0.4228		12.6	12.5	1.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: CCVIS 410-668774/2 Calibration Date: 07/09/2025 09:26

Instrument ID: HP18831 Calib Start Date: 06/23/2025 20:42

GC Column: DB-5MS 30m 0.25 ID: 0.25(mm) Calib End Date: 06/23/2025 23:36

Lab File ID: HG0901.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4602	0.5228	0.0100	14.2	12.5	13.6	20.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2371	0.2402		12.7	12.5	1.3	20.0
Benzo[a]anthracene	Ave	1.193	1.262	0.8000	13.2	12.5	5.8	20.0
Chrysene	Ave	1.157	1.211	0.7000	13.1	12.5	4.7	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6859	0.7836	0.0100	14.3	12.5	14.3	20.0
6-Methylchrysene	Ave	0.8284	0.8708		13.1	12.5	5.1	20.0
Di-n-octyl phthalate	Lin2		1.197	0.0100	13.2	12.5	5.9	20.0
7,12-Dimethylbenz(a)anthracene	Ave	0.5293	0.5356		12.7	12.5	1.2	20.0
Benzo[b]fluoranthene	Ave	1.242	1.244	0.7000	12.5	12.5	0.2	20.0
Benzo[k]fluoranthene	Ave	1.234	1.349	0.7000	13.7	12.5	9.4	20.0
Benzo[a]pyrene	Ave	1.103	1.152	0.7000	13.1	12.5	4.4	20.0
3-Methylcholanthrene	Ave	0.5600	0.6029		13.5	12.5	7.7	20.0
Dibenz[a,h]acridine	Ave	0.8479	0.8891		13.1	12.5	4.9	20.0
Dibenz[a,j]acridine	Ave	0.8670	0.9913		14.3	12.5	14.3	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.011	1.107	0.5000	13.7	12.5	9.5	20.0
Dibenz(a,h)anthracene	Ave	1.019	1.122	0.4000	13.8	12.5	10.1	20.0
Benzo[g,h,i]perylene	Ave	1.014	1.100	0.5000	13.6	12.5	8.5	20.0
2-Fluorophenol (Surr)	Ave	1.193	1.317		27.6	25.0	10.4	20.0
Phenol-d5 (Surr)	Ave	1.660	1.907		28.7	25.0	14.9	20.0
Nitrobenzene-d5 (Surr)	Ave	0.3566	0.4114		28.8	25.0	15.4	20.0
2-Fluorobiphenyl (Surr)	Ave	1.350	1.385		25.7	25.0	2.6	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.2096	0.2459		29.3	25.0	17.3	20.0
p-Terphenyl-d14 (Surr)	Ave	0.8121	0.8813		27.1	25.0	8.5	20.0

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jul-2025 09:26:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Operator ID: eea115318_kel10217 Instrument ID: HP18831
Sublist: chrom-MSSemi_HP18831*sub63

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:15:47 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: RN6U Date: 09-Jul-2025 10:11:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	2.093	2.093	0.000	98	355600	12.5	12.8	
	2 N-Nitrosodimethylamine	74	2.269	2.269	0.000	90	591749	12.5	12.2	M
	3 Pyridine	79	2.310	2.310	0.000	89	1882857	25.0	24.5	
	4 Dimethylformamide	73	2.540	2.540	0.000	94	718028	12.5	13.6	
	5 2-Picoline	93	2.816	2.816	0.000	96	1058953	12.5	13.3	
	6 N-Nitrosomethylethylamine	88	2.881	2.881	0.000	95	436906	12.5	12.2	
	9 Methyl methanesulfonate	80	3.116	3.116	0.000	87	560248	12.5	12.5	
$	10 2-Fluorophenol	112	3.257	3.257	0.000	95	1750680	25.0	27.6	
	11 N-Nitrosodiethylamine	102	3.457	3.457	0.000	93	449299	12.5	12.6	
	13 Ethyl methanesulfonate	109	3.710	3.710	0.000	98	490978	12.5	12.2	
	15 Benzaldehyde	77	4.034	4.034	0.000	94	670370	12.5	9.92	
$	16 Phenol-d5	99	4.075	4.075	0.000	97	2534536	25.0	28.7	
	17 Phenol	94	4.087	4.087	0.000	99	1269451	12.5	13.5	
	18 Aniline	93	4.128	4.128	0.000	96	1555730	12.5	13.3	
	19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	92	996410	12.5	13.1	
	20 2-Chlorophenol	128	4.246	4.246	0.000	98	920733	12.5	13.4	
	22 1,3-Dichlorobenzene	146	4.393	4.393	0.000	97	989556	12.5	12.6	
*	23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	265771	5.00	5.00	
	24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	91	1007397	12.5	12.4	
	26 Benzyl alcohol	108	4.569	4.569	0.000	90	651719	12.5	12.9	
	27 1,2-Dichlorobenzene	146	4.610	4.610	0.000	95	994044	12.5	12.9	
	30 2-Methylphenol	108	4.675	4.675	0.000	97	920925	12.5	13.5	a
	32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	1703146	12.5	13.5	
	33 N-Nitrosopyrrolidine	100	4.804	4.804	0.000	85	546284	12.5	12.8	
	36 4-Methylphenol	108	4.822	4.822	0.000	97	983772	12.5	13.9	a
	34 Acetophenone	105	4.834	4.834	0.000	88	1508459	12.5	13.1	
	35 N-Nitrosodi-n-propylamine	70	4.834	4.834	0.000	91	854000	12.5	13.2	
	37 N-Nitrosomorpholine	56	4.846	4.846	0.000	93	792818	12.5	13.0	
	38 2-Toluidine	106	4.863	4.863	0.000	96	1561564	12.5	12.7	
	40 Hexachloroethane	117	4.940	4.940	0.000	95	415660	12.5	12.6	
$	41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	2361742	25.0	28.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
42 Nitrobenzene	77	4.999	4.999	0.000	91	1156744	12.5	13.1	
43 N-Nitrosopiperidine	114	5.146	5.146	0.000	81	536334	12.5	12.4	
45 Isophorone	82	5.234	5.234	0.000	99	2204244	12.5	12.8	
46 2-Nitrophenol	139	5.310	5.310	0.000	96	468020	12.5	17.1	
48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	1062521	12.5	13.2	
49 o,o',o''-Triethylphosphorothioat	198	5.428	5.428	0.000	84	566569	12.5	12.5	
51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	97	1376681	12.5	13.0	
52 2,4-Dichlorophenol	162	5.551	5.551	0.000	96	839416	12.5	13.9	
53 1,2,4-Trichlorobenzene	180	5.634	5.634	0.000	94	958102	12.5	12.4	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	99	1148231	5.00	5.00	
55 Naphthalene	128	5.716	5.716	0.000	98	3013797	12.5	12.8	
29 Alpha-Terpineol	59	5.728	5.728	0.000	93	1059976	12.5	14.1	
57 4-Chloroaniline	127	5.763	5.763	0.000	96	1369452	12.5	13.3	
58 2,6-Dichlorophenol	162	5.775	5.775	0.000	96	831310	12.5	13.8	
59 Hexachloropropene	213	5.804	5.804	0.000	89	573292	12.5	12.0	
60 Hexachlorobutadiene	225	5.840	5.840	0.000	96	564044	12.5	12.4	
62 Quinoline	129	6.046	6.046	0.000	96	2124122	12.5	12.1	
63 Caprolactam	113	6.093	6.093	0.000	72	329977	12.5	12.8	
64 N-Nitrosodi-n-butylamine	84	6.104	6.104	0.000	93	1054494	12.5	14.9	
39 p-Phenylene diamine	108	6.116	6.116	0.000	95	982213	12.5	10.1	
66 4-Chloro-3-methylphenol	107	6.251	6.251	0.000	97	984590	12.5	14.0	
67 Safrole, Total	162	6.322	6.322	0.000	91	824232	12.5	12.2	
68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	1963749	12.5	12.8	
69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	2020312	12.5	12.7	
71 Hexachlorocyclopentadiene	237	6.563	6.563	0.000	95	685100	12.5	12.0	
72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.569	0.000	97	1073477	12.5	11.9	
73 Isosafrole Peak 1	162	6.610	6.610	0.000	90	149494	2.00	1.74	
74 2,4,6-Trichlorophenol	196	6.681	6.681	0.000	92	663939	12.5	14.5	
75 2,4,5-Trichlorophenol	196	6.716	6.716	0.000	95	786041	12.5	13.3	
$ 76 2-Fluorobiphenyl (Surr)	172	6.775	6.775	0.000	100	5276357	25.0	25.7	
77 Isosafrole Peak 2	162	6.834	6.834	0.000	91	866132	10.5	9.98	
78 1,1'-Biphenyl	154	6.869	6.869	0.000	95	2736556	12.5	12.2	
79 2-Chloronaphthalene	162	6.887	6.887	0.000	97	2124744	12.5	11.5	
80 1-Chloronaphthalene	162	6.910	6.910	0.000	98	2000963	12.5	12.3	
81 Phenyl ether	170	6.975	6.975	0.000	91	1553745	12.5	12.1	
82 2-Nitroaniline	138	6.987	6.987	0.000	80	702125	12.5	14.2	
84 1,4-Naphthoquinone	158	7.063	7.063	0.000	90	868198	12.5	12.2	
85 1,4-Dinitrobenzene	168	7.122	7.122	0.000	93	351544	12.5	16.9	
86 Dimethyl phthalate	163	7.175	7.175	0.000	99	2742374	12.5	12.9	
87 1,3-Dinitrobenzene	168	7.193	7.193	0.000	84	411103	12.5	15.4	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	570028	12.5	14.0	
89 Acenaphthylene	152	7.298	7.298	0.000	98	3489315	12.5	12.5	
90 3-Nitroaniline	138	7.393	7.393	0.000	93	650165	12.5	14.0	
* 91 Acenaphthene-d10	164	7.440	7.440	0.000	94	761884	5.00	5.00	
93 Acenaphthene	153	7.469	7.469	0.000	95	2272580	12.5	12.0	
94 2,4-Dinitrophenol	184	7.492	7.492	0.000	82	547917	25.0	58.9	
95 4-Nitrophenol	109	7.557	7.557	0.000	97	729496	25.0	29.0	
96 Pentachlorobenzene	250	7.598	7.598	0.000	98	1002724	12.5	11.5	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	802408	12.5	14.9	
97 Dibenzofuran	168	7.640	7.640	0.000	96	3263787	12.5	12.3	
99 1-Naphthylamine	143	7.716	7.716	0.000	99	2336785	12.5	12.5	
101 2,3,4,6-Tetrachlorophenol	232	7.763	7.763	0.000	73	650285	12.5	12.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
103 2-Naphthylamine	143	7.792	7.792	0.000	97	2356098	12.5	11.6	
104 Diethyl phthalate	149	7.875	7.875	0.000	98	2846349	12.5	13.3	
106 Thionazin	107	7.951	7.951	0.000	80	419282	12.5	12.7	
105 Fluorene	166	7.981	7.981	0.000	93	2725077	12.5	12.4	
108 4-Chlorophenyl phenyl ether	204	7.981	7.981	0.000	91	1312080	12.5	12.1	
107 N-Nitro-o-toluidine	152	7.987	7.987	0.000	93	734338	12.5	13.5	
109 4-Nitroaniline	138	7.992	7.992	0.000	80	722338	12.5	14.0	
110 4,6-Dinitro-2-methylphenol	198	8.028	8.028	0.000	87	842480	25.0	46.7	
111 N-Nitrosodiphenylamine	169	8.098	8.098	0.000	64	1977276	10.6	10.8	
112 1,2-Diphenylhydrazine	77	8.134	8.134	0.000	100	2953350	12.5	12.9	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	936727	25.0	29.3	
114 Sulfotepp	97	8.257	8.257	0.000	78	474260	12.5	12.7	
172 1,3,5-Trinitrobenzene	213	8.351	8.351	0.000	84	285052	12.5	16.9	
115 cis-Diallate	86	8.387	8.387	0.000	85	836550	9.25	9.50	
116 Phorate	75	8.392	8.392	0.000	96	1849766	12.5	13.5	
117 Phenacetin	108	8.398	8.398	0.000	93	1389453	12.5	13.4	
118 4-Bromophenyl phenyl ether	248	8.463	8.463	0.000	69	822665	12.5	12.0	
119 trans-Diallate	86	8.475	8.475	0.000	87	297417	3.25	3.01	
120 Hexachlorobenzene	284	8.516	8.516	0.000	96	946617	12.5	11.5	
121 Dimethoate	87	8.557	8.557	0.000	95	1106778	12.5	12.7	
122 Atrazine	200	8.628	8.628	0.000	92	798729	12.5	12.3	
123 Pentachlorophenol	266	8.716	8.716	0.000	93	1045533	25.0	27.3	
125 4-Aminobiphenyl	169	8.716	8.716	0.000	91	3013805	12.5	11.5	
124 Pentachloronitrobenzene	237	8.728	8.728	0.000	87	370528	12.5	13.0	
126 Pronamide	173	8.781	8.781	0.000	91	1300711	12.5	12.4	
128 Dinoseb	211	8.892	8.892	0.000	96	581806	12.5	25.1	
* 127 Phenanthrene-d10	188	8.904	8.904	0.000	97	1545877	5.00	5.00	
70 Disulfoton	88	8.910	8.910	0.000	97	1768050	12.5	12.9	
129 Phenanthrene	178	8.922	8.922	0.000	97	4103081	12.5	11.9	
130 Anthracene	178	8.975	8.975	0.000	97	4223454	12.5	12.5	
S 56 Dinitrotoluene	165				0		25.0	28.9	
131 Carbazole	167	9.134	9.134	0.000	96	4002286	12.5	12.6	
132 Methyl parathion	109	9.275	9.275	0.000	96	908748	12.5	15.3	
133 Di-n-butyl phthalate	149	9.481	9.481	0.000	100	4685008	12.5	13.8	
S 65 Diallate	86				0		12.5	12.5	
134 Ethyl Parathion	109	9.657	9.657	0.000	84	539488	12.5	14.4	
135 4-Nitroquinoline-1-oxide	190	9.681	9.681	0.000	94	421043	12.5	14.5	
136 Octachlorostyrene	308	9.904	9.904	0.000	93	403402	12.5	11.9	
137 Isodrin	193	9.951	9.951	0.000	94	486882	12.5	11.3	
138 Fluoranthene	202	10.092	10.092	0.000	98	4809208	12.5	12.5	
139 Benzidine	184	10.233	10.233	0.000	99	9210392	37.5	37.6	e
* 140 Pyrene-d10 (IS)	212	10.304	10.304	0.000	99	1670919	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	97	5052600	12.5	12.3	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	100	7362800	25.0	27.1	
143 p-Dimethylamino azobenzene	225	10.633	10.633	0.000	95	969469	12.5	13.1	
144 Chlorobenzilate	139	10.686	10.686	0.000	92	1402030	12.5	13.5	
145 3,3'-Dimethylbenzidine	212	11.010	11.010	0.000	99	2691389	12.5	10.9	
146 Butyl benzyl phthalate	149	11.033	11.033	0.000	98	2195227	12.5	14.6	
147 2-Acetylaminofluorene	181	11.310	11.310	0.000	94	1766053	12.5	12.6	
149 3,3'-Dichlorobenzidine	252	11.675	11.675	0.000	76	2183735	12.5	14.2	
150 4,4'-Methylene bis(2-chloroani	231	11.686	11.686	0.000	95	1003325	12.5	12.7	
148 Benzo[a]anthracene	228	11.704	11.704	0.000	98	5273422	12.5	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
151 Chrysene	228	11.751	11.751	0.000	96	5058888	12.5	13.1	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.769	0.000	98	3273434	12.5	14.3	
153 6-Methylchrysene	242	12.363	12.363	0.000	99	3637538	12.5	13.1	
154 Di-n-octyl phthalate	149	12.686	12.686	0.000	99	4993571	12.5	13.2	
156 7,12-Dimethylbenz(a)anthracene	256	13.192	13.192	0.000	89	2233625	12.5	12.6	
155 Benzo[b]fluoranthene	252	13.198	13.198	0.000	97	5188338	12.5	12.5	
157 Benzo[k]fluoranthene	252	13.239	13.239	0.000	99	5627477	12.5	13.7	
158 Benzo[a]pyrene	252	13.669	13.669	0.000	77	4802845	12.5	13.0	M
* 159 Perylene-d12	264	13.751	13.751	0.000	99	1668151	5.00	5.00	
160 3-Methylcholanthrene	268	14.192	14.192	0.000	91	2514486	12.5	13.5	
161 Dibenz[a,h]acridine	279	15.063	15.063	0.000	90	3707710	12.5	13.1	
162 Dibenz[a,j]acridine	279	15.151	15.151	0.000	96	4134095	12.5	14.3	
163 Indeno[1,2,3-cd]pyrene	276	15.457	15.457	0.000	99	4616002	12.5	13.7	M
164 Dibenz(a,h)anthracene	278	15.504	15.504	0.000	90	4679162	12.5	13.8	M
165 Benzo[g,h,i]perylene	276	15.945	15.945	0.000	98	4587823	12.5	13.6	
S 166 Isosafrole	162				0		12.5	11.7	

QC Flag Legend

Processing Flags
- e - Potential Peak Saturated

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

MSS_RV8270_6_00068 Amount Added: 1.00 Units: mL

Report Date: 10-Jul-2025 13:15:48 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D

Injection Date: 09-Jul-2025 09:26:30 Instrument ID: HP18831 Operator ID: eea115318_kel10217

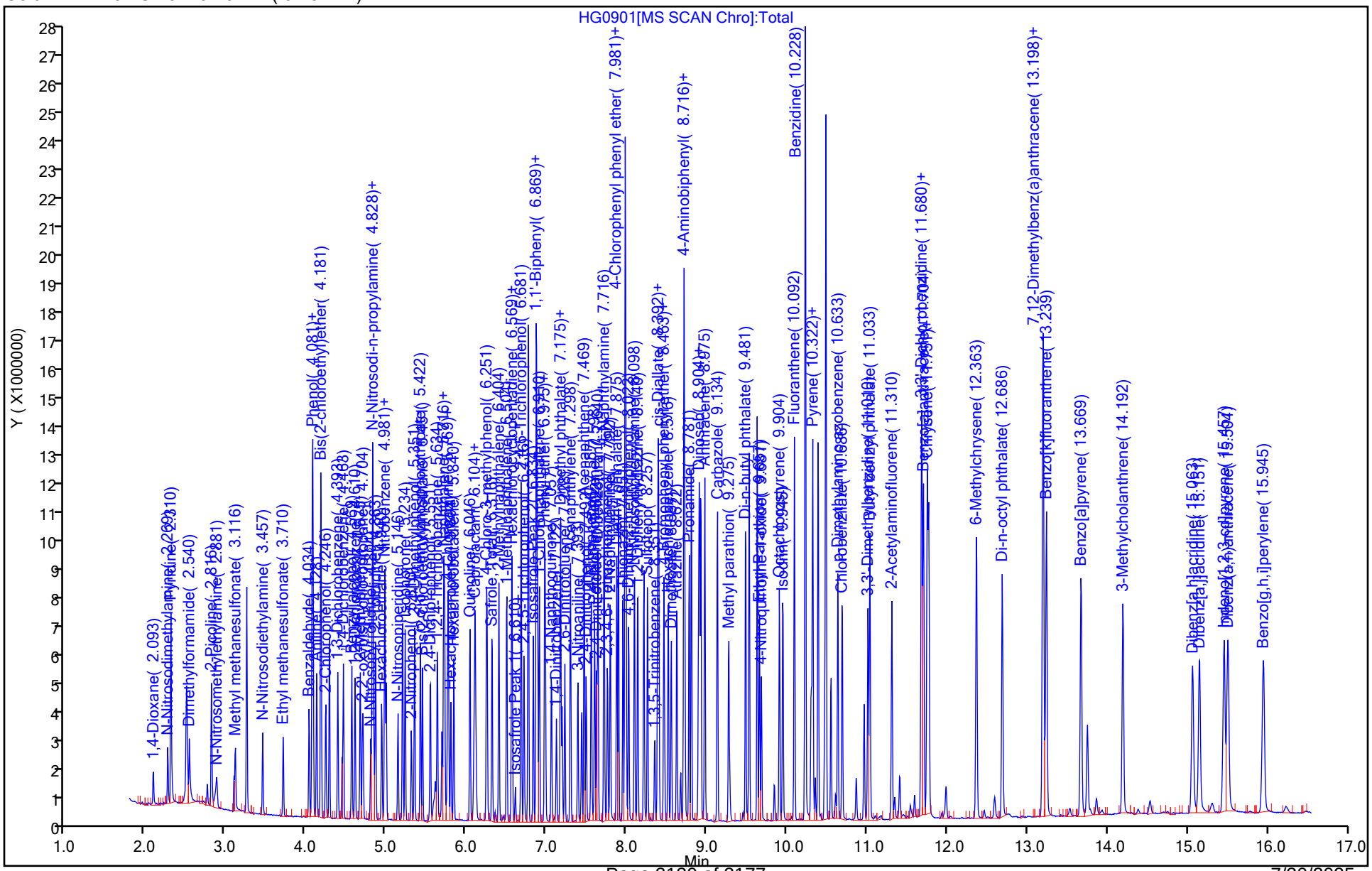
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

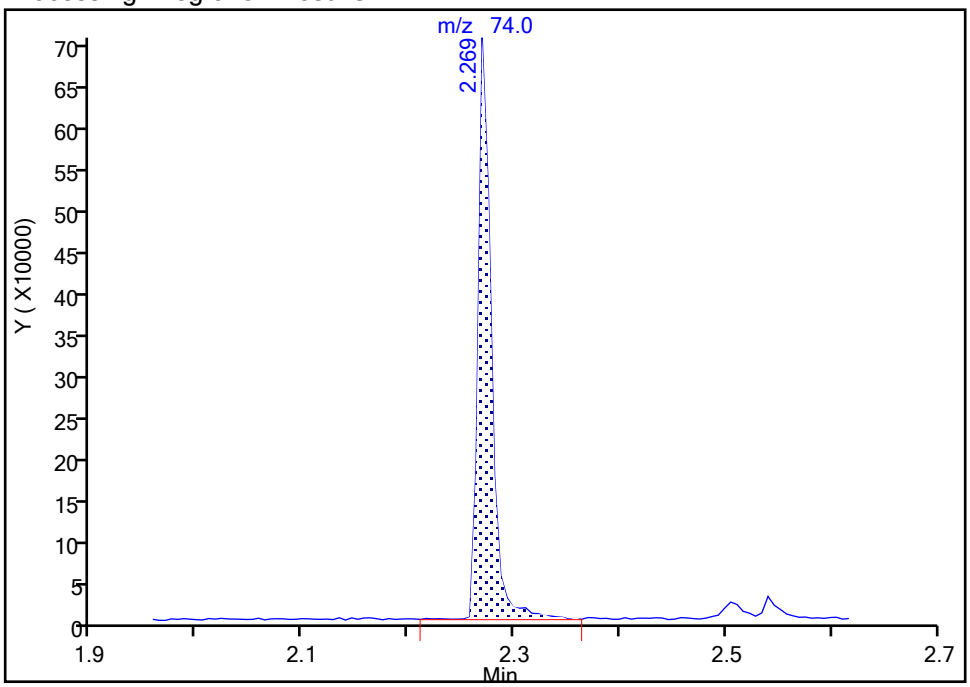
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

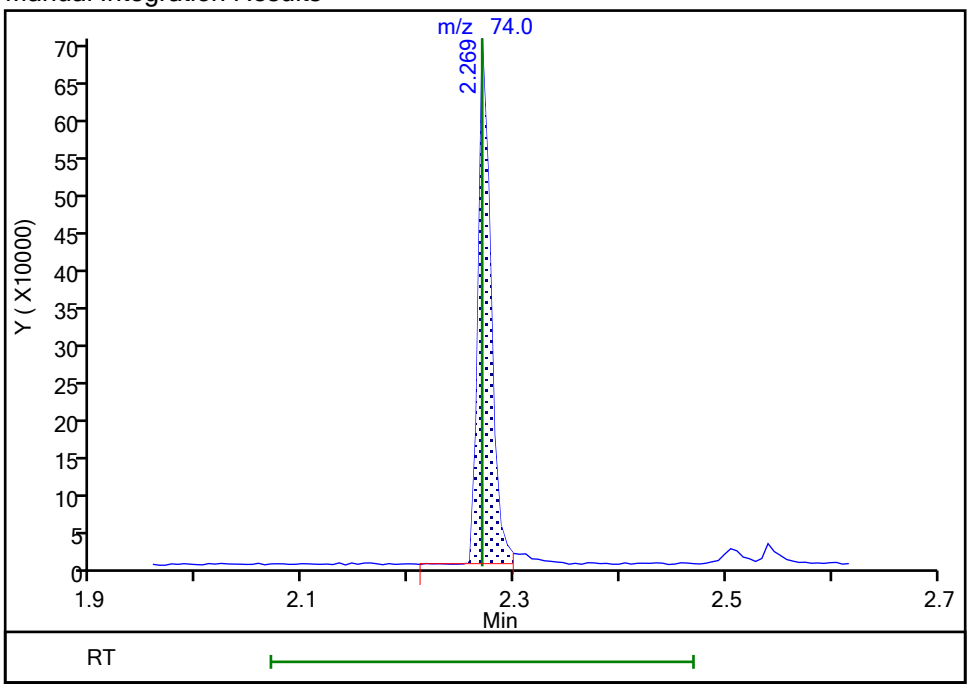
Processing Integration Results

RT: 2.27
Area: 617444
Amount: 12.749296
Amount Units: ug/ml



Manual Integration Results

RT: 2.27
Area: 591749
Amount: 12.218732
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 09:56:28 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

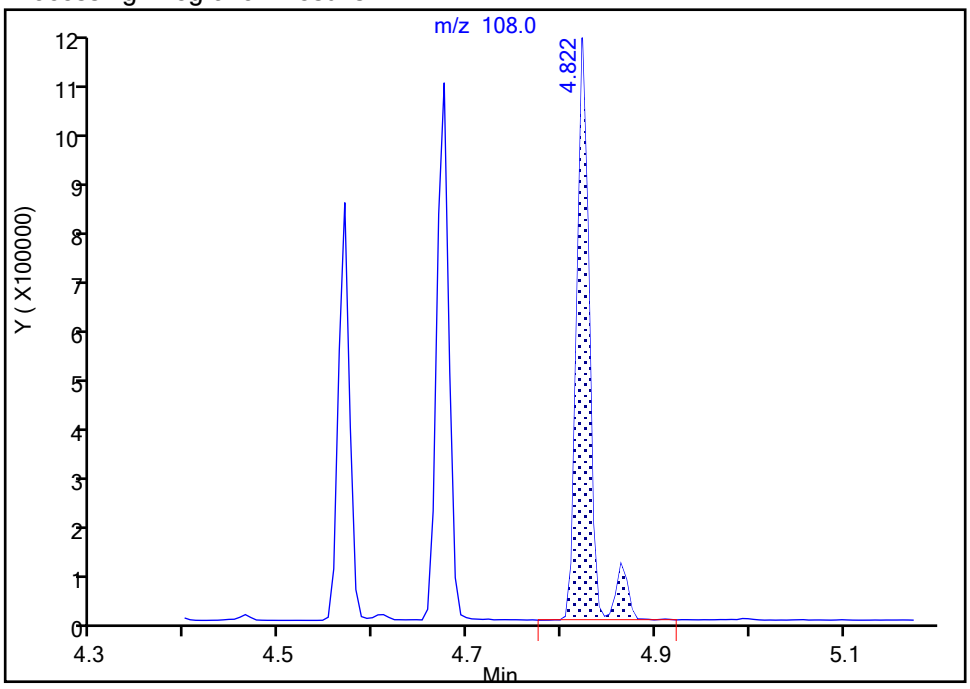
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

30 2-Methylphenol, CAS: 95-48-7

Signal: 1

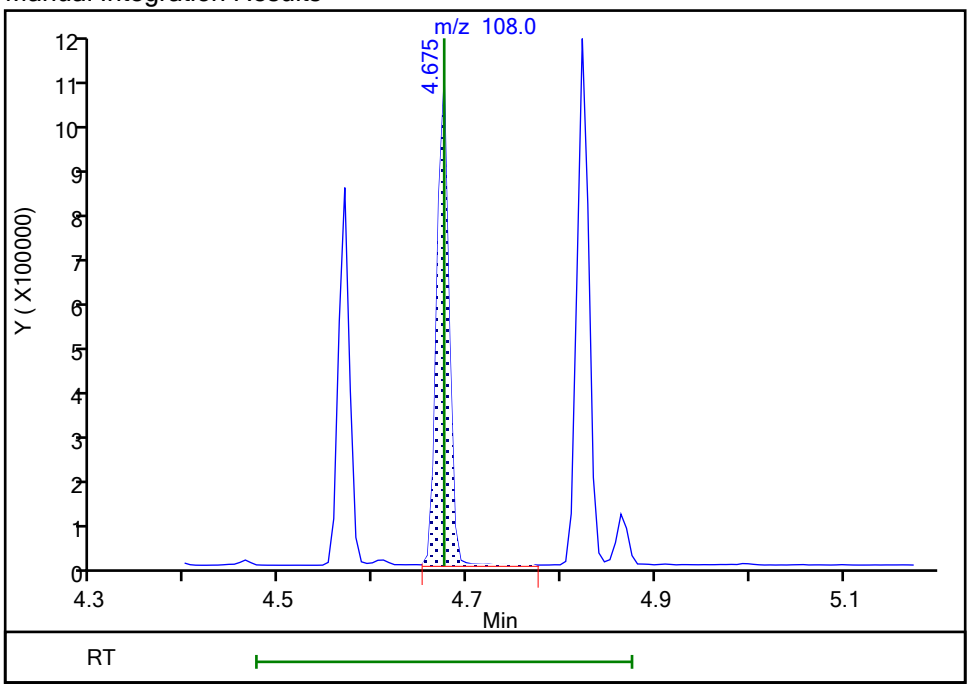
Processing Integration Results

RT: 4.82
Area: 1083924
Amount: 15.885740
Amount Units: ug/ml



Manual Integration Results

RT: 4.68
Area: 920925
Amount: 13.496864
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 09:57:58 -04:00:00 (UTC)

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

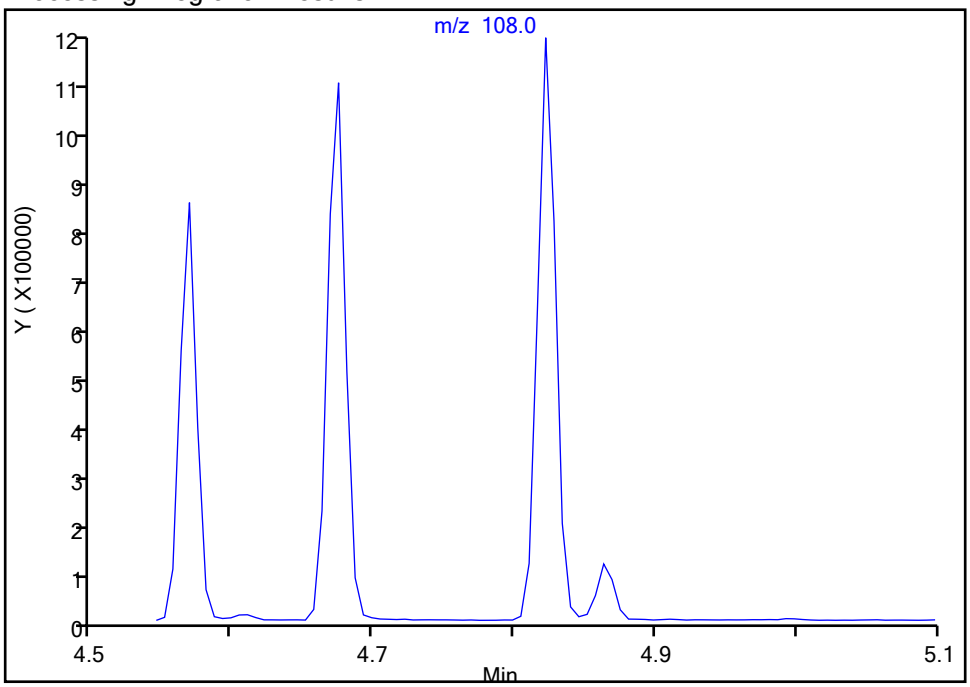
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

36 4-Methylphenol, CAS: 106-44-5

Signal: 1

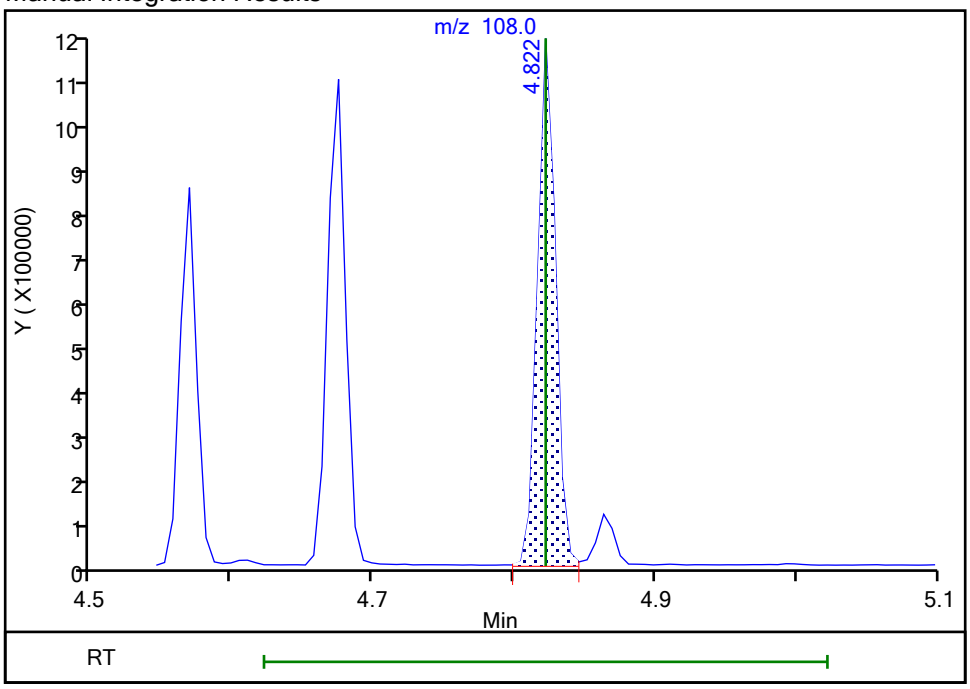
Not Detected
Expected RT: 4.82

Processing Integration Results



Manual Integration Results

RT: 4.82
Area: 983772
Amount: 13.925032
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 09:58:05 -04:00:00 (UTC)
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

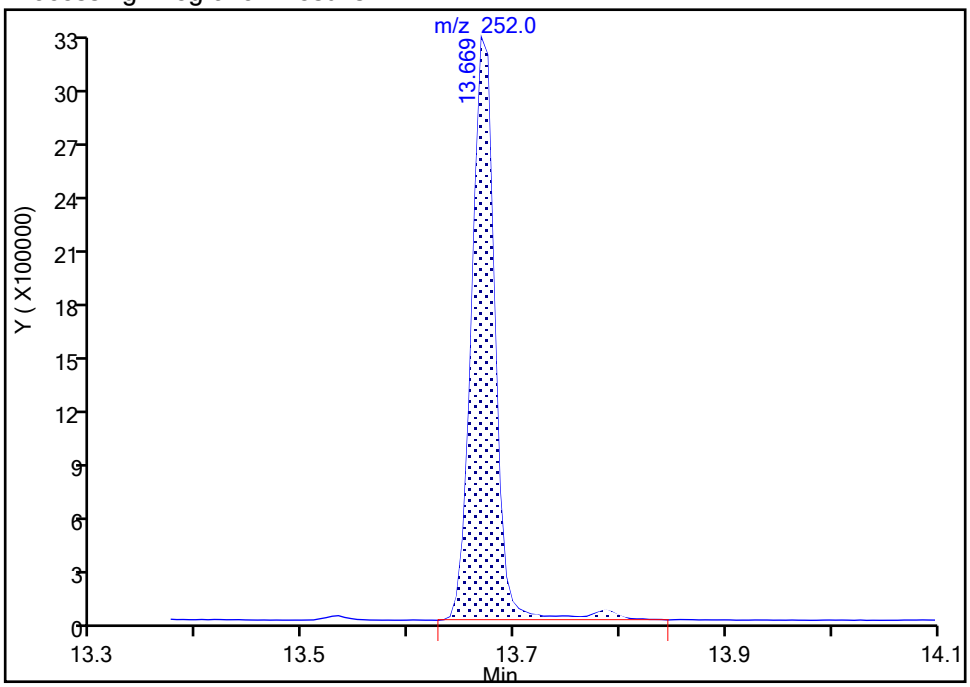
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

158 Benzo[a]pyrene, CAS: 50-32-8

Signal: 1

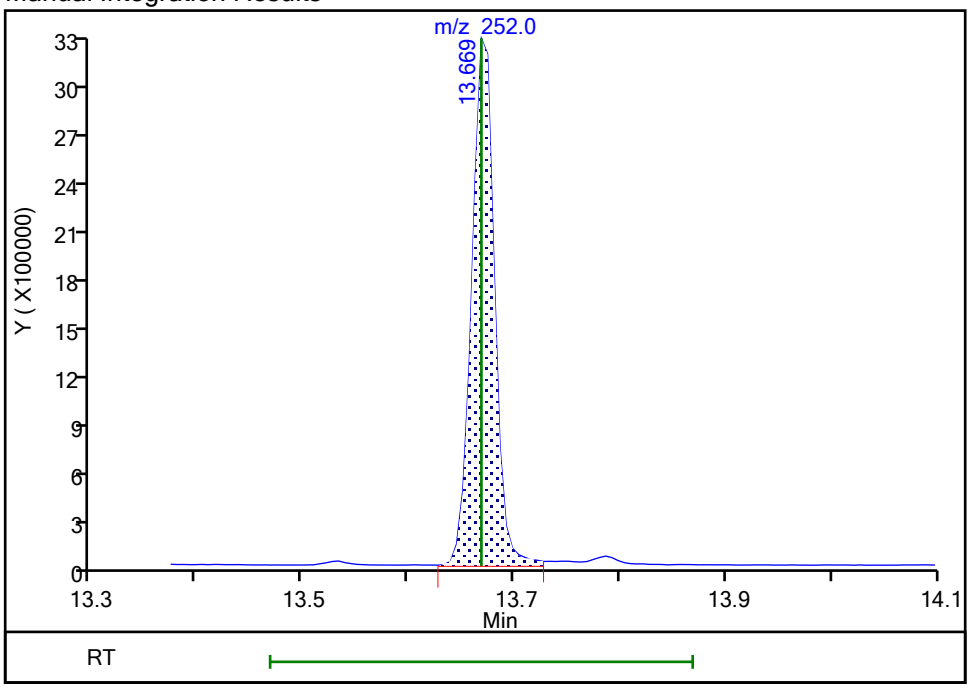
Processing Integration Results

RT: 13.67
Area: 4956536
Amount: 13.465102
Amount Units: ug/ml



Manual Integration Results

RT: 13.67
Area: 4802845
Amount: 13.047579
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 10:03:47 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

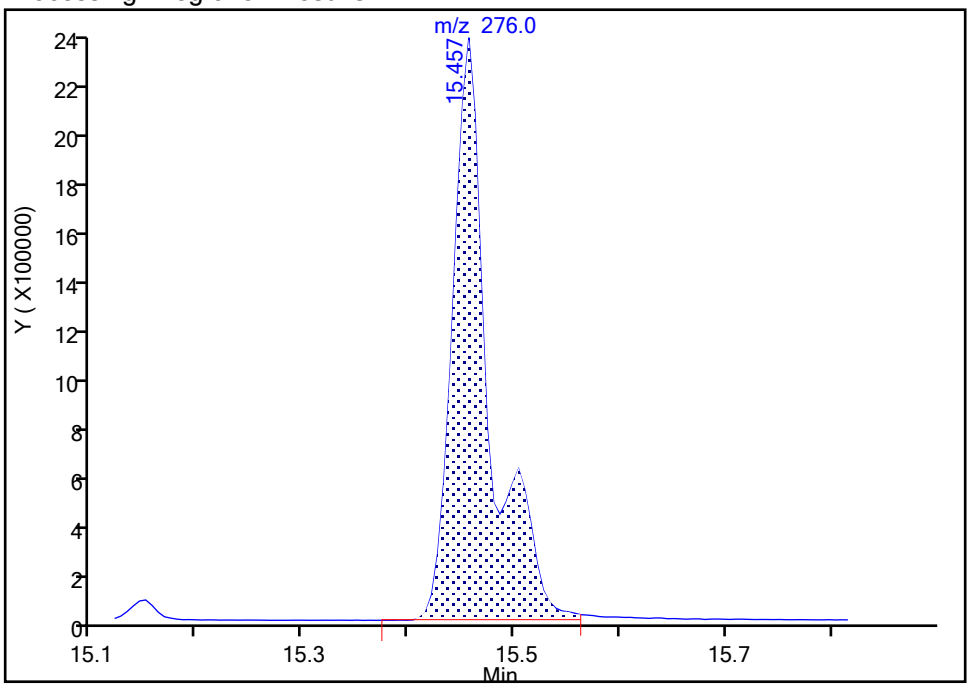
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

163 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

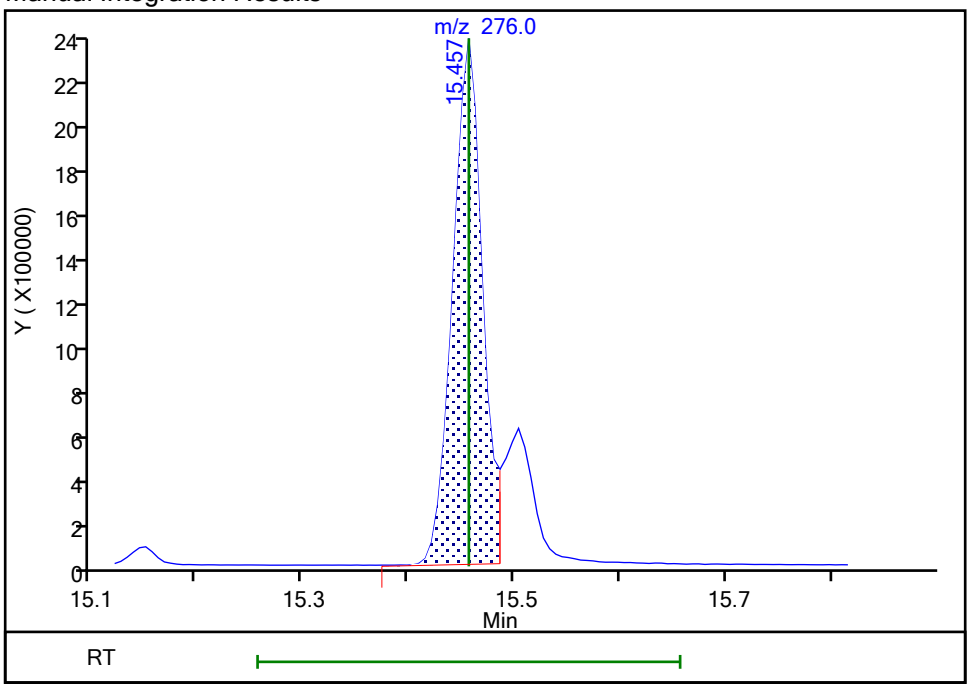
Processing Integration Results

RT: 15.46
Area: 5803977
Amount: 17.210920
Amount Units: ug/ml



Manual Integration Results

RT: 15.46
Area: 4616002
Amount: 13.688139
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 10:03:59 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

Eurofins Lancaster Laboratories Environment Testing, LLC

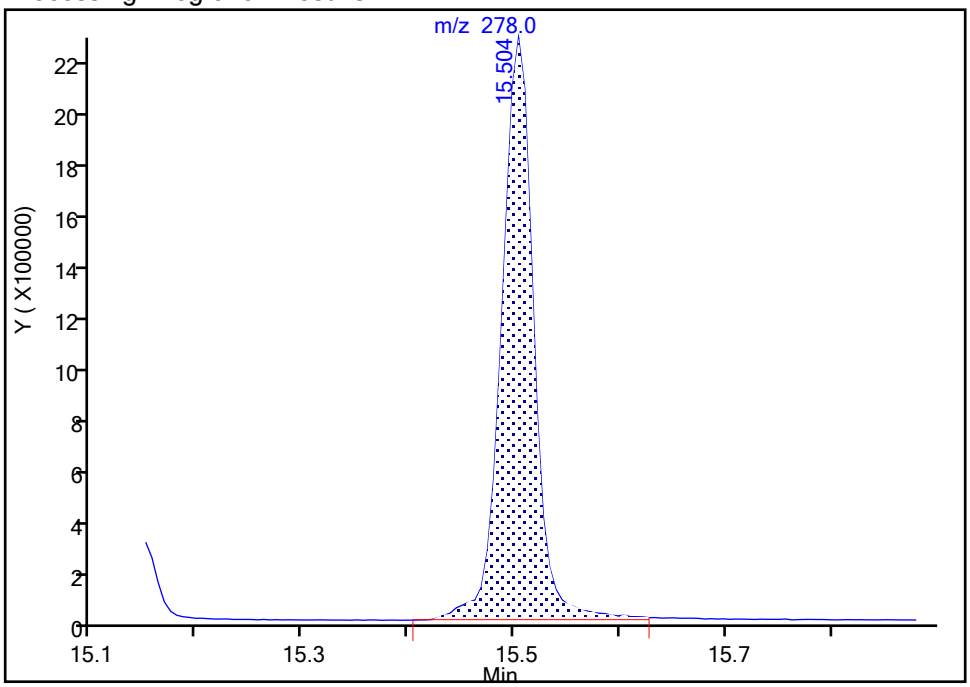
Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0901.D				
Injection Date:	09-Jul-2025 09:26:30	Instrument ID:	HP18831		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

164 Dibenz(a,h)anthracene, CAS: 53-70-3

Signal: 1

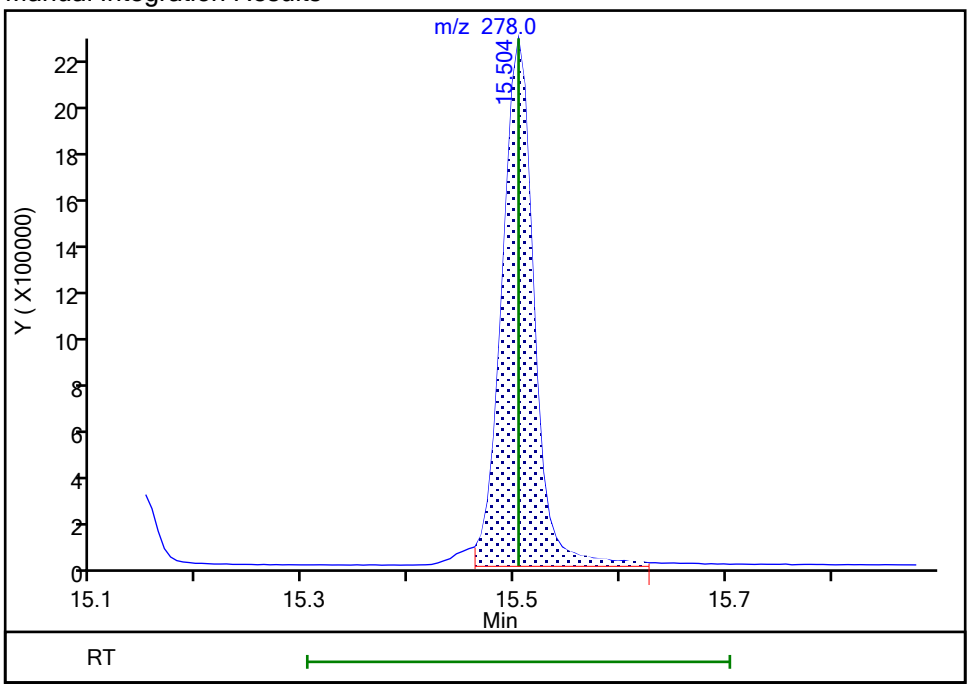
Processing Integration Results

RT: 15.50
Area: 4778304
Amount: 14.053821
Amount Units: ug/ml



Manual Integration Results

RT: 15.50
Area: 4679162
Amount: 13.762227
Amount Units: ug/ml



Reviewer: RN6U, 09-Jul-2025 10:04:09 -04:00:00 (UTC)

Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 23-Jun-2025 19:52:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: IR93211 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 10:14:11 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: N5QU Date: 23-Jun-2025 21:10:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.886	4.886	0.000	93	219319	NR	NR	
14 Benzidine_T	184	6.140	6.140	0.000	99	2058806	NR	NR	
178 DFTPP									
180 4,4'-DDE	246	6.296	6.296	0.000	23	2099		NR	
179 4,4'-DDD	235	6.602	6.602	0.000	11	2747		NR	
181 4,4'-DDT	235	6.821	6.821	0.000	98	961767	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

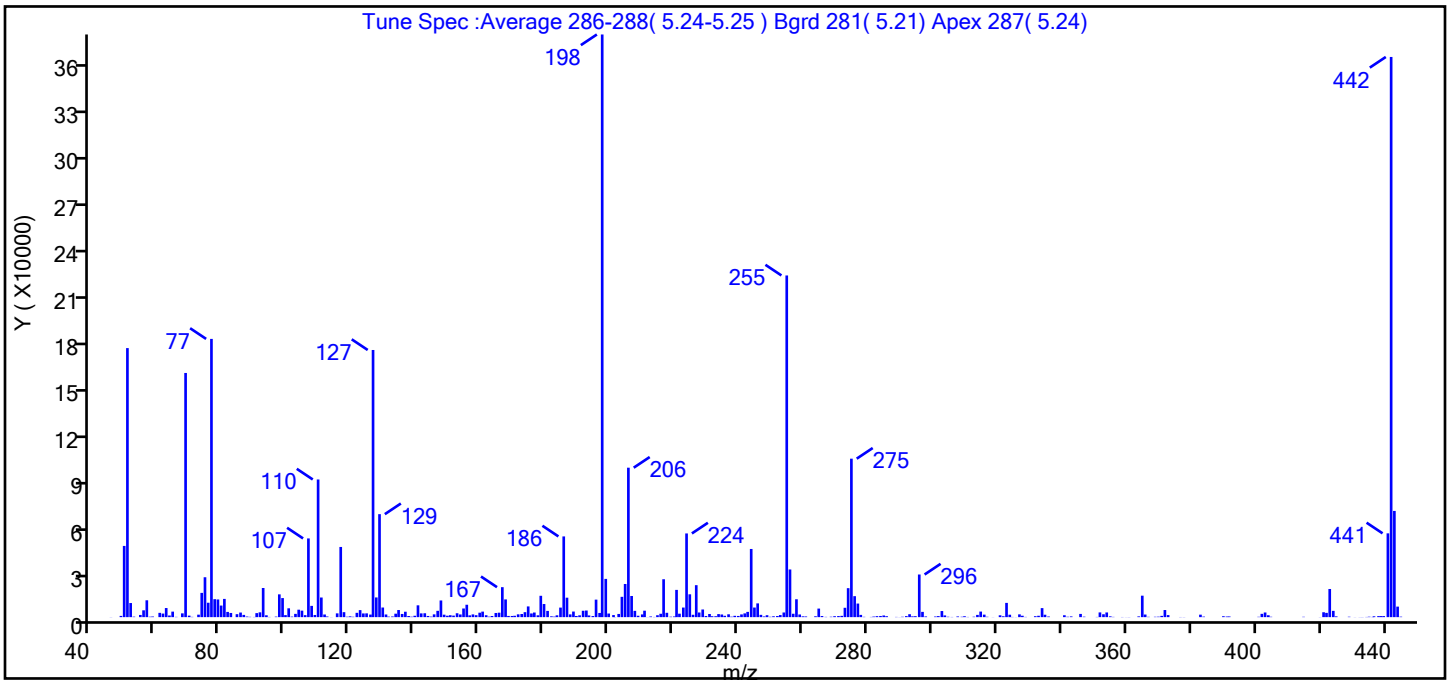
MSS_RVDFTPP_00017 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (104.0)
51	10-80% of the base peak	46.2
68	<2% of mass 69	0.6 (1.5)
69	Present	41.9
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	45.9
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.6
275	10-60% of the base peak	27.2
365	>1% of mass 198	3.7
441	present but <24% of mass 442	14.4 (15.0)
442	base peak, or >50% of 198	96.1
443	15-24% of mass 442	18.2 (19.0)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 23-Jun-2025 19:52:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 281(5.21) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	71	137.00	3471	219.00	287	310.00	575
49.00	797	138.00	725	220.00	433	311.00	132
50.00	45616	139.00	290	221.00	17456	313.00	278
51.00	172352	140.00	878	222.00	2211	314.00	1438
52.00	9035	141.00	7569	223.00	6144	315.00	3570
53.00	315	142.00	2411	224.00	53616	316.00	1603
55.00	1400	143.00	2490	225.00	14630	317.00	244
56.00	4373	144.00	754	226.00	1516	319.00	57
57.00	10802	145.00	329	227.00	20480	321.00	1179
58.00	270	146.00	1783	228.00	2972	322.00	552
59.00	402	147.00	4051	229.00	4902	323.00	9127
61.00	2753	148.00	10684	230.00	715	324.00	1550
62.00	2288	149.00	1572	231.00	2018	325.00	128
63.00	5832	150.00	914	232.00	591	326.00	52
64.00	1056	151.00	1239	233.00	589	327.00	1781
65.00	3536	152.00	984	234.00	1950	328.00	896
66.00	169	153.00	2496	235.00	1704	329.00	147
68.00	2421	154.00	1718	236.00	865	332.00	599
69.00	156416	155.00	5542	237.00	1821	333.00	877
70.00	965	156.00	7941	238.00	311	334.00	5784
71.00	166	157.00	1150	239.00	853	335.00	1547
73.00	1582	158.00	1751	240.00	766	336.00	413
74.00	15538	159.00	1245	241.00	1750	341.00	1218
75.00	25560	160.00	2848	242.00	2397	342.00	251
76.00	9228	161.00	3541	243.00	3369	343.00	465
77.00	178240	162.00	1220	244.00	43672	346.00	2061
78.00	11510	163.00	315	245.00	6156	347.00	297
79.00	11323	164.00	730	246.00	8815	351.00	130
80.00	7420	165.00	2663	247.00	1469	352.00	3024
81.00	11682	166.00	2851	248.00	439	353.00	1850
82.00	3348	167.00	19200	249.00	1240	354.00	3005
83.00	2676	168.00	11361	250.00	232	355.00	506
85.00	1897	169.00	773	251.00	557	356.00	161

Report Date: 24-Jun-2025 10:14:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 23-Jun-2025 19:52:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 281(5.21) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
86.00	2944	170.00	751	252.00	720	359.00	101
87.00	1441	171.00	877	253.00	1336	360.00	52
88.00	378	172.00	1793	254.00	2982	361.00	81
89.00	197	173.00	2016	255.00	218880	364.00	481
90.00	121	174.00	3184	256.00	30536	365.00	13748
91.00	2576	175.00	6869	257.00	2179	366.00	1674
92.00	3079	176.00	2363	258.00	11458	367.00	209
93.00	18672	177.00	2963	259.00	1703	369.00	237
94.00	1193	178.00	1183	260.00	513	370.00	305
95.00	129	179.00	13677	261.00	433	371.00	819
97.00	342	180.00	8404	264.00	554	372.00	4557
98.00	14598	181.00	3992	265.00	5487	373.00	1309
99.00	12212	182.00	531	266.00	705	377.00	99
100.00	1295	183.00	333	267.00	164	378.00	78
101.00	5664	184.00	1169	269.00	271	383.00	1587
102.00	339	185.00	6115	270.00	602	384.00	338
103.00	2099	186.00	51712	271.00	691	390.00	583
104.00	4771	187.00	12466	272.00	829	391.00	390
105.00	4167	188.00	1765	273.00	5994	392.00	426
106.00	1278	189.00	3584	274.00	18560	401.00	223
107.00	50424	190.00	745	275.00	101512	402.00	2118
108.00	7216	191.00	1160	276.00	13436	403.00	2980
109.00	1388	192.00	4087	277.00	8704	404.00	1207
110.00	88184	193.00	4236	278.00	1446	405.00	244
111.00	12581	194.00	1094	279.00	193	415.00	219
112.00	1697	195.00	699	281.00	137	420.00	75
113.00	428	196.00	11220	282.00	367	421.00	3136
114.00	58	197.00	2683	283.00	639	422.00	2739
116.00	2426	198.00	373248	284.00	743	423.00	18032
117.00	44960	199.00	24496	285.00	1061	424.00	4018
118.00	3191	200.00	2307	286.00	602	425.00	487
119.00	268	201.00	1335	289.00	142	429.00	265
120.00	505	202.00	88	290.00	60	431.00	53
121.00	243	203.00	2048	291.00	246	432.00	67

Report Date: 24-Jun-2025 10:14:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 23-Jun-2025 19:52:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 281(5.21) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	2765	204.00	13010	292.00	662	433.00	81
123.00	4499	205.00	21240	293.00	1873	434.00	124
124.00	2376	206.00	95736	294.00	507	435.00	271
125.00	2421	207.00	13551	295.00	618	436.00	136
126.00	1657	208.00	4024	296.00	27312	437.00	535
127.00	171136	209.00	898	297.00	3376	438.00	656
128.00	12621	210.00	1742	298.00	439	439.00	679
129.00	65968	211.00	4131	301.00	403	440.00	670
130.00	6166	212.00	66	302.00	661	441.00	53680
131.00	1706	213.00	428	303.00	3912	442.00	358848
132.00	353	214.00	119	304.00	1101	443.00	68032
133.00	429	215.00	1226	305.00	264	444.00	6745
134.00	2208	216.00	2159	306.00	118	445.00	306
135.00	4558	217.00	24280	308.00	437		
136.00	2033	218.00	2784	309.00	250		

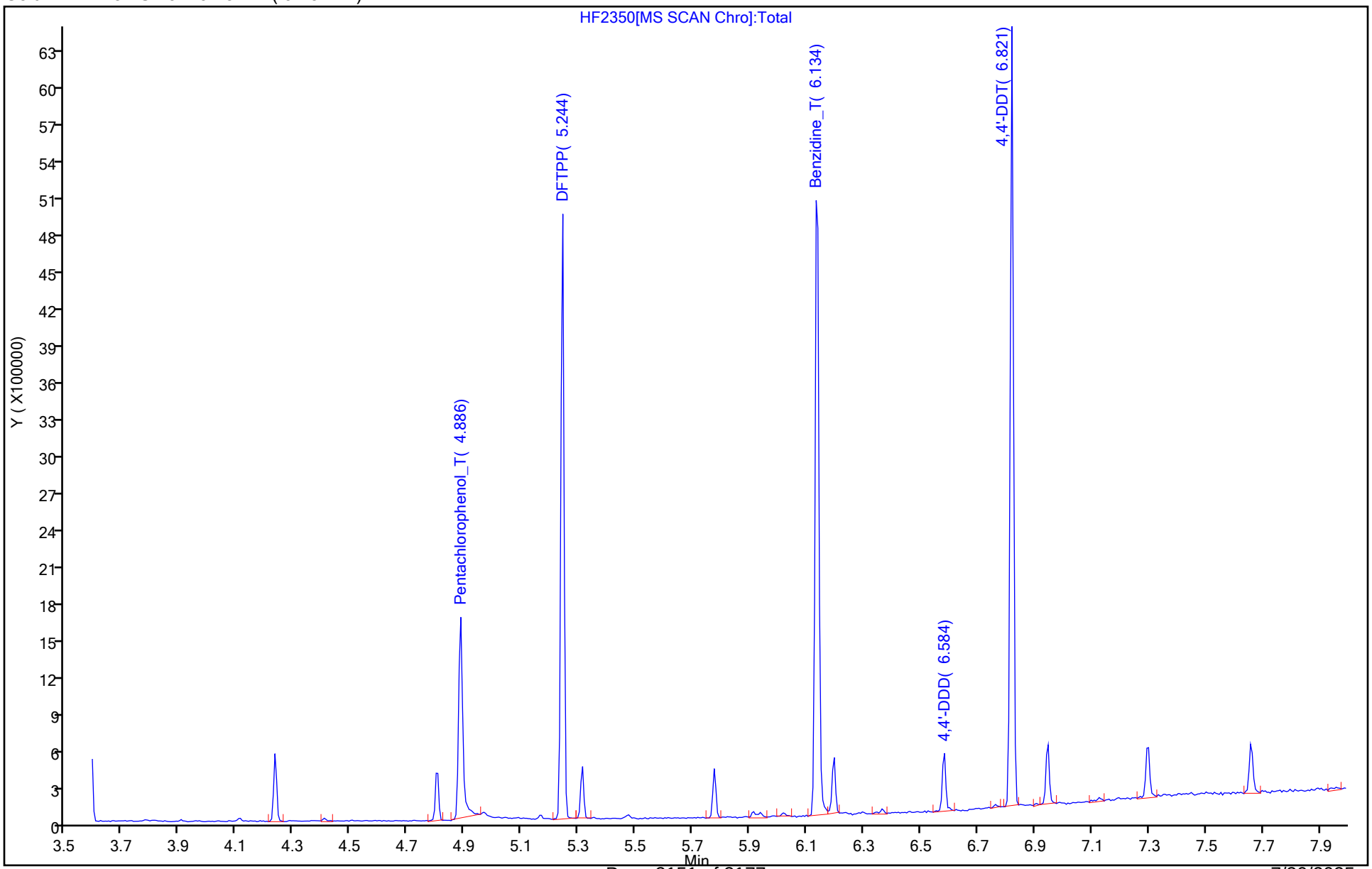
Report Date: 24-Jun-2025 10:14:11 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D

Injection Date:	23-Jun-2025 19:52:30	Instrument ID:	HP18831	Operator ID:	IR93211
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

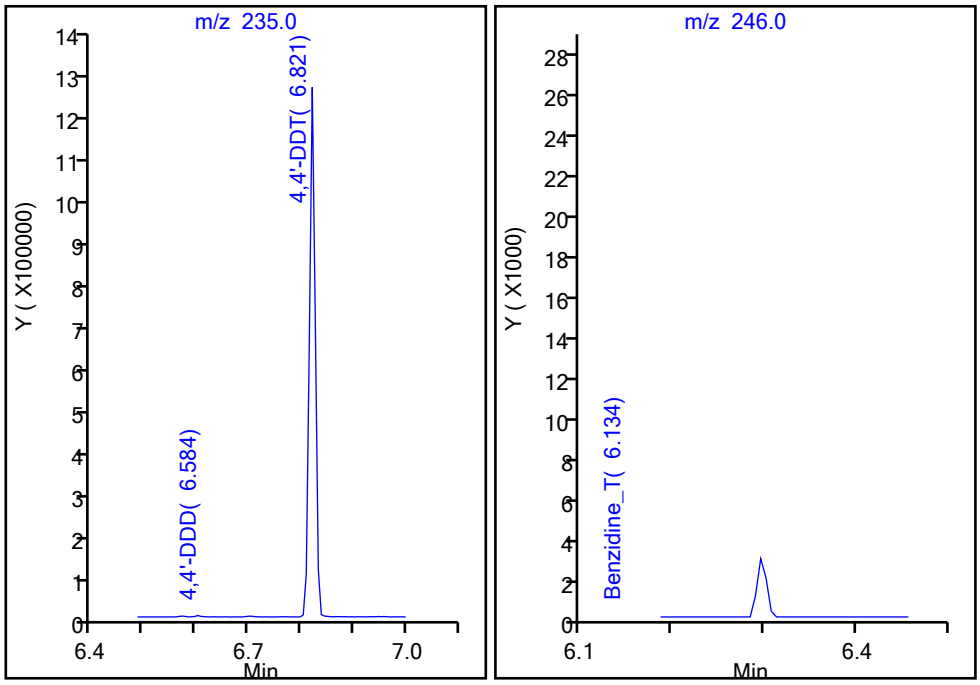
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 961767
179 4,4'-DDD, Area = 2747
180 4,4'-DDE, Area = 2099

%Breakdown: 0.50%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

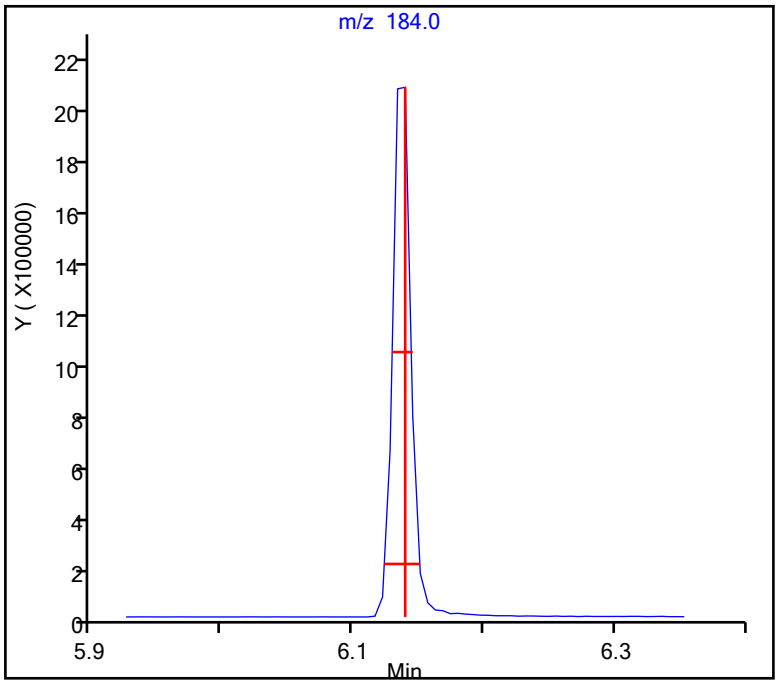
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

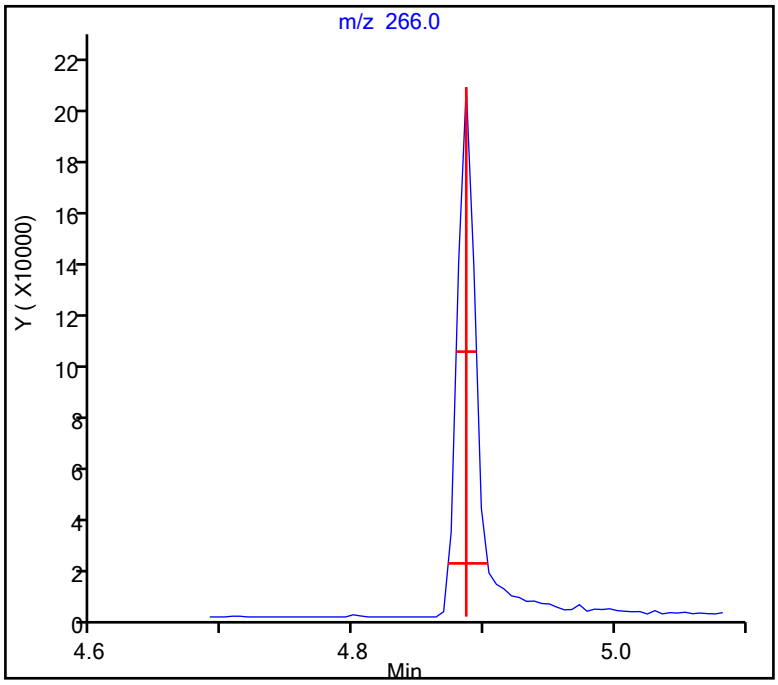
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2350.D
Injection Date: 23-Jun-2025 19:52:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: IR93211 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.14, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 24-Jun-2025 09:59:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 24-Jun-2025 13:04:30 Calib Date: 24-Jun-2025 03:38:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250623-151283.b\HF2369.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1692

First Level Reviewer: SJ89 Date: 24-Jun-2025 10:18:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.886	4.886	0.000	92	149512	NR	NR	
14 Benzidine_T	184	6.139	6.139	0.000	99	1600299	NR	NR	
178 DFTPP									
180 4,4'-DDE	246	6.295	6.295	0.000	51	1680		NR	
179 4,4'-DDD	235	6.573	6.573	0.000	53	3656		NR	
181 4,4'-DDT	235	6.821	6.821	0.000	98	728917	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

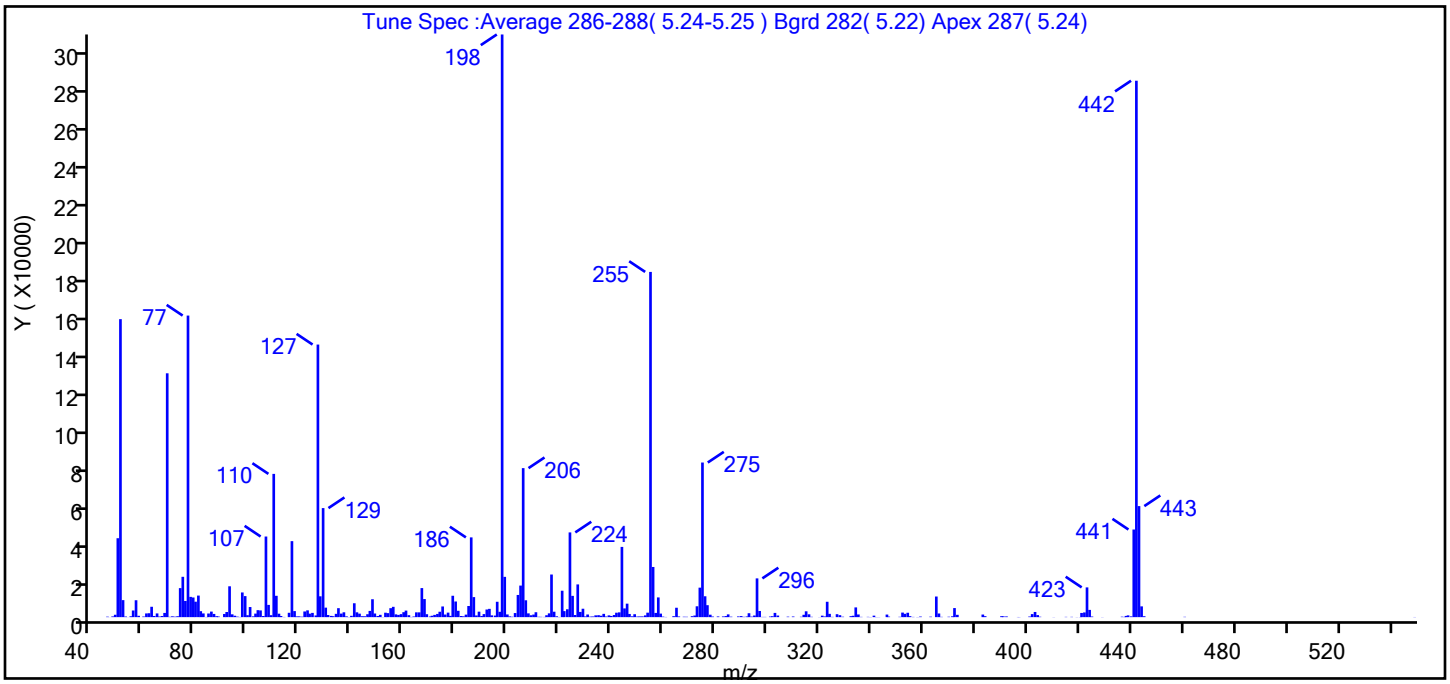
MSS_RVDFTPP_00017 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (108.6)
51	10-80% of the base peak	51.1
68	<2% of mass 69	0.7 (1.7)
69	Present	41.9
70	<2% of mass 69	0.1 (0.1)
127	10-80% of the base peak	46.8
197	<2% of mass 198	0.9
199	5-9% of mass 198	6.9
275	10-60% of the base peak	26.5
365	>1% of mass 198	3.5
441	present but <24% of mass 442	15.0 (16.3)
442	base peak, or >50% of 198	92.1
443	15-24% of mass 442	19.1 (20.7)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 24-Jun-2025 09:59:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 282(5.22) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	245	131.00	1109	213.00	151	304.00	827
47.00	28	132.00	645	214.00	116	308.00	256
48.00	376	133.00	469	215.00	984	310.00	330
49.00	1236	134.00	1712	216.00	1964	313.00	194
50.00	40952	135.00	4653	217.00	22120	314.00	1223
51.00	154624	136.00	1845	218.00	2817	315.00	3031
52.00	8827	137.00	2519	219.00	436	316.00	1462
53.00	322	138.00	398	220.00	90	317.00	174
54.00	36	139.00	78	221.00	13704	320.00	58
55.00	465	140.00	688	222.00	3120	321.00	765
56.00	3453	141.00	7204	223.00	4092	322.00	357
57.00	8771	142.00	2505	224.00	43968	323.00	7977
58.00	698	143.00	1809	225.00	11040	324.00	1711
60.00	319	144.00	479	226.00	1108	325.00	139
61.00	1924	145.00	456	227.00	16984	327.00	1525
62.00	2028	146.00	1511	228.00	2705	328.00	1018
63.00	5379	147.00	3232	229.00	4365	329.00	221
64.00	604	148.00	9292	230.00	379	332.00	504
65.00	1928	149.00	1882	231.00	1368	333.00	711
66.00	320	150.00	597	232.00	281	334.00	5050
67.00	594	151.00	1198	233.00	352	335.00	1382
68.00	2188	152.00	74	234.00	925	336.00	140
69.00	126528	153.00	2303	235.00	1011	339.00	150
70.00	175	154.00	2077	236.00	730	340.00	77
71.00	429	155.00	4658	237.00	1706	341.00	772
72.00	259	156.00	5352	238.00	330	342.00	76
73.00	469	157.00	1442	239.00	917	343.00	62
74.00	15059	158.00	1156	240.00	603	346.00	1339
75.00	20928	159.00	1562	241.00	1098	347.00	294
76.00	8391	160.00	2568	242.00	2301	351.00	177
77.00	156480	161.00	3394	243.00	2478	352.00	2364
78.00	10514	162.00	1015	244.00	36440	353.00	1730
79.00	10201	163.00	97	245.00	4525	354.00	2280

Report Date: 24-Jun-2025 13:04:30 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 24-Jun-2025 09:59:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 282(5.22) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	8016	164.00	330	246.00	6995	355.00	506
81.00	11190	165.00	2491	247.00	1655	356.00	121
82.00	3088	166.00	2476	248.00	437	358.00	76
83.00	1923	167.00	15077	249.00	1525	359.00	309
84.00	104	168.00	9386	250.00	319	363.00	248
85.00	1882	169.00	1516	251.00	367	365.00	10702
86.00	2884	170.00	318	252.00	387	366.00	1893
87.00	1668	171.00	719	253.00	904	367.00	150
88.00	484	172.00	1173	254.00	2322	370.00	216
89.00	345	173.00	1662	255.00	179136	371.00	441
91.00	1643	174.00	2805	256.00	26032	372.00	4710
92.00	2658	175.00	5540	257.00	2198	373.00	1204
93.00	16012	176.00	1348	258.00	10234	383.00	1350
94.00	1459	177.00	2341	259.00	1833	384.00	499
95.00	728	178.00	663	260.00	270	390.00	505
96.00	275	179.00	11093	261.00	97	391.00	435
97.00	101	180.00	8121	264.00	490	392.00	374
98.00	12807	181.00	3296	265.00	4876	396.00	86
99.00	10913	182.00	588	266.00	357	397.00	52
100.00	1008	183.00	429	268.00	212	401.00	323
101.00	5249	184.00	1310	269.00	189	402.00	1569
102.00	406	185.00	5777	271.00	499	403.00	2685
103.00	1834	186.00	41384	272.00	827	404.00	1060
104.00	3626	187.00	10395	273.00	5636	405.00	208
105.00	3481	188.00	874	274.00	15300	410.00	57
106.00	584	189.00	2841	275.00	80232	415.00	145
107.00	41832	190.00	609	276.00	10833	417.00	151
108.00	6353	191.00	1586	277.00	6205	419.00	59
109.00	1007	192.00	3965	278.00	1270	420.00	66
110.00	74336	193.00	4299	279.00	315	421.00	2176
111.00	11075	194.00	918	281.00	358	422.00	2440
112.00	1788	195.00	808	283.00	372	423.00	15438
113.00	600	196.00	7978	284.00	562	424.00	3761
114.00	98	197.00	2765	285.00	1431	425.00	317

Report Date: 24-Jun-2025 13:04:30 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D\MSSemi_HP18831.rslt\spectra.
Injection Date: 24-Jun-2025 09:59:30
Spectrum: Tune Spec :Average 286-288(5.24-5.25) Bgrd 282(5.22) Apex 287(5.24)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 326

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	2259	198.00	302336	286.00	243	429.00	61
117.00	39432	199.00	20904	289.00	369	436.00	238
118.00	3134	200.00	1397	290.00	551	438.00	83
119.00	388	201.00	390	291.00	171	438.00	632
120.00	397	202.00	220	292.00	343	439.00	908
121.00	243	203.00	2123	293.00	2031	440.00	388
122.00	2946	204.00	11511	294.00	286	441.00	45464
123.00	3524	205.00	16376	295.00	847	442.00	278336
124.00	1811	206.00	77320	296.00	20112	443.00	57616
125.00	2208	207.00	8751	297.00	3201	444.00	5590
126.00	869	208.00	1955	298.00	123	445.00	471
127.00	141440	209.00	978	299.00	127	461.00	165
128.00	10813	210.00	1324	301.00	314	549.00	81
129.00	56584	211.00	2547	302.00	476		
130.00	4929	212.00	188	303.00	2200		

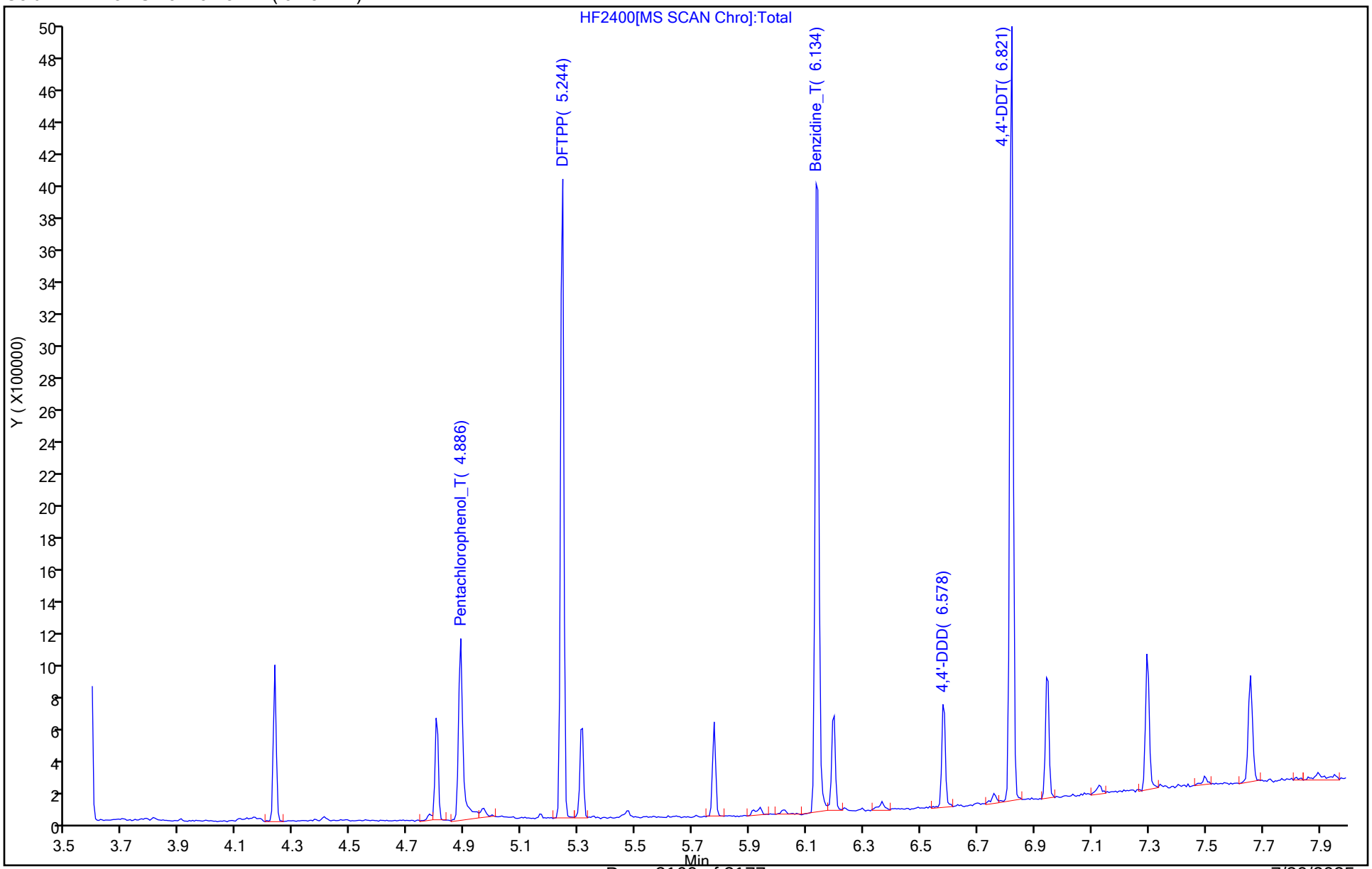
Report Date: 24-Jun-2025 13:04:30 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D

Injection Date:	24-Jun-2025 09:59:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

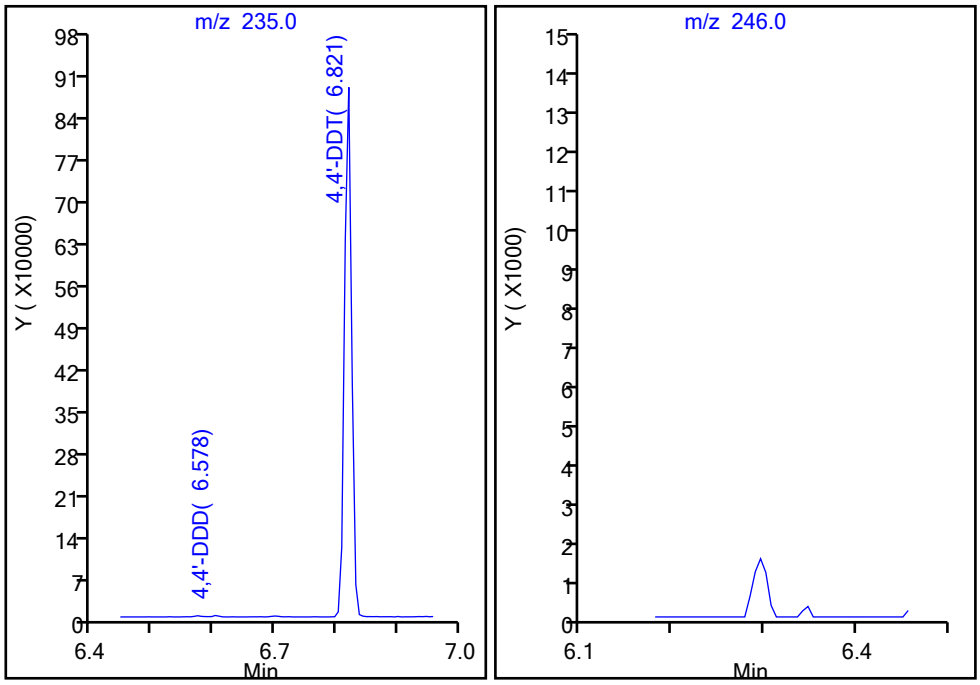
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 728917
179 4,4'-DDD, Area = 3656
180 4,4'-DDE, Area = 1680

%Breakdown: 0.73%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

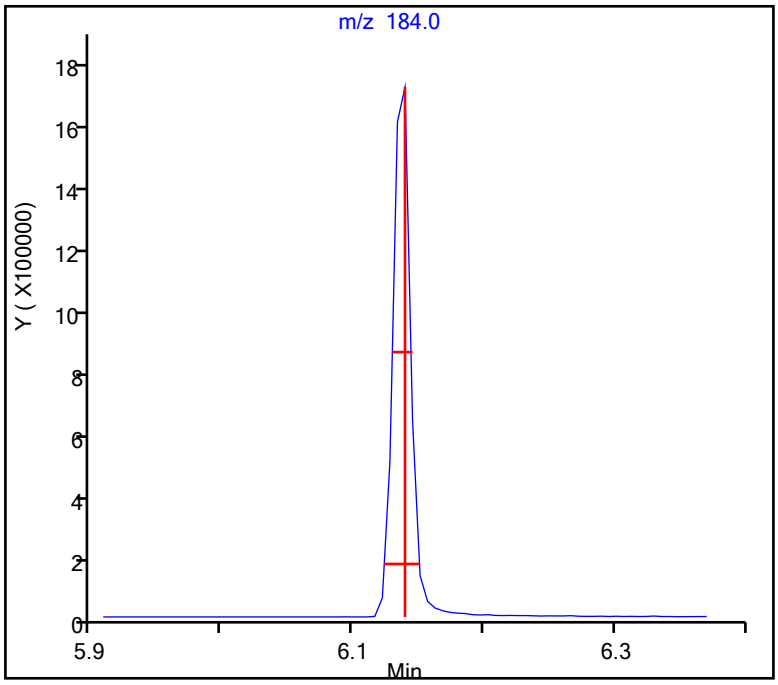
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

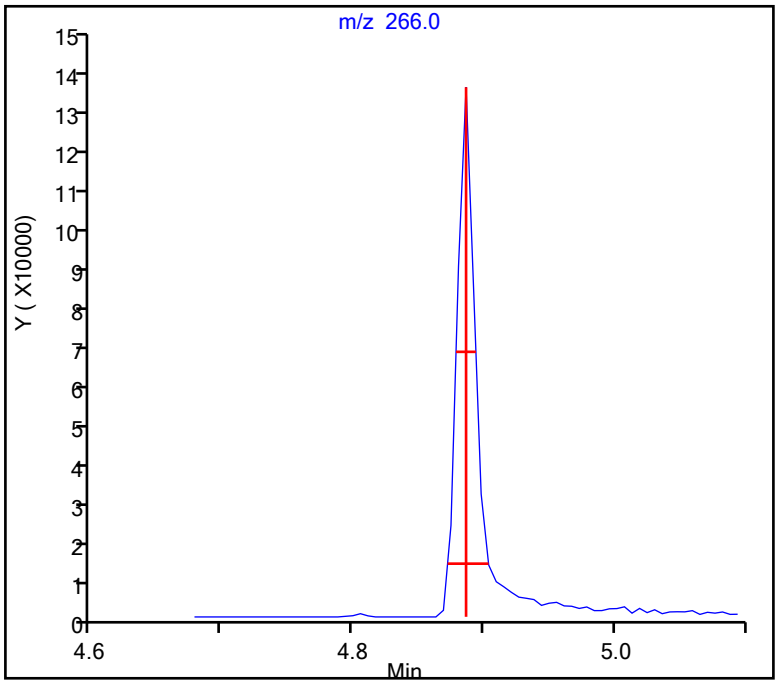
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250624-151363.b\HF2400.D
Injection Date: 24-Jun-2025 09:59:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.21, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 03-Jul-2025 11:39:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 10:10:55 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1707

First Level Reviewer: RN6U Date: 03-Jul-2025 12:32:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.805	4.805	0.000	92	317882	NR	NR	
14 Benzidine_T	184	6.059	6.059	0.000	99	2192852	NR	NR	
178 DFTPP									
180 4,4'-DDE	246		6.215					ND	U
179 4,4'-DDD	235		6.740					ND	U
181 4,4'-DDT	235	6.740	6.740	0.000	98	1126284	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

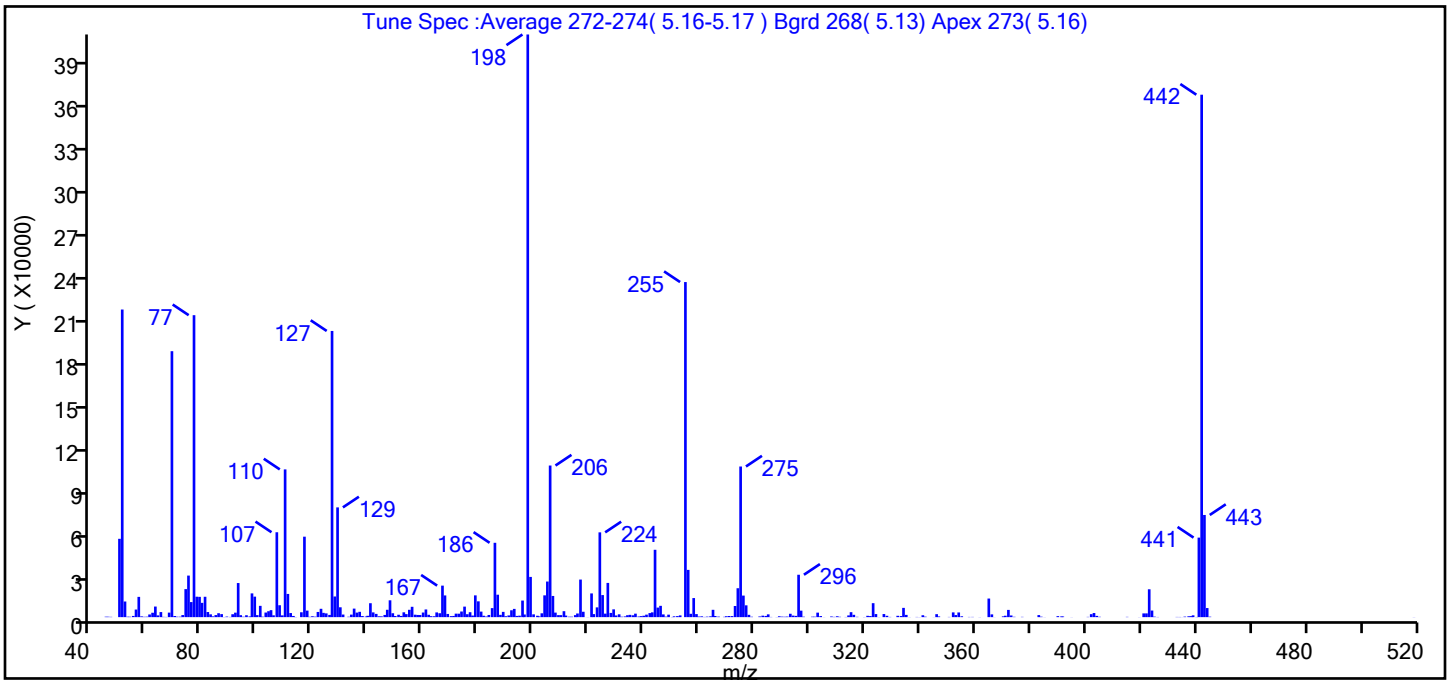
MSS_RVDFTPP_00018 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Injection Date: 03-Jul-2025 11:39:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: EEA115318_KEL10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (111.5)
51	10-80% of the base peak	52.8
68	<2% of mass 69	0.8 (1.7)
69	Present	45.6
70	<2% of mass 69	0.2 (0.4)
127	10-80% of the base peak	49.1
197	<2% of mass 198	0.5
199	5-9% of mass 198	6.9
275	10-60% of the base peak	25.9
365	>1% of mass 198	3.2
441	present but <24% of mass 442	13.6 (15.2)
442	base peak, or >50% of 198	89.7
443	15-24% of mass 442	17.5 (19.6)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D\MSSemi_HP18831.rslt\spectra
Injection Date: 03-Jul-2025 11:39:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	303	131.00	1793	215.00	1373	308.00	461
46.00	284	132.00	16	216.00	2524	309.00	193
47.00	199	133.00	270	217.00	25920	310.00	613
50.00	54024	134.00	1747	218.00	3716	311.00	231
51.00	212160	135.00	5887	219.00	20	313.00	124
52.00	10787	136.00	3135	220.00	62	314.00	1184
53.00	314	137.00	3673	221.00	16361	315.00	3419
54.00	272	138.00	756	222.00	2097	316.00	1604
55.00	832	139.00	407	223.00	6736	317.00	224
56.00	5242	140.00	927	224.00	58480	320.00	88
57.00	13982	141.00	9605	225.00	15218	321.00	920
58.00	529	142.00	3280	226.00	2411	322.00	726
59.00	247	143.00	2243	227.00	23600	323.00	9633
60.00	312	144.00	600	228.00	2915	324.00	2120
61.00	1842	145.00	540	229.00	5374	325.00	68
62.00	3029	146.00	1520	230.00	1161	327.00	2144
63.00	7308	147.00	5079	231.00	1947	328.00	929
64.00	1208	148.00	11619	232.00	317	329.00	153
65.00	3499	149.00	2696	233.00	498	332.00	920
66.00	201	150.00	774	234.00	1321	333.00	751
67.00	142	151.00	1653	235.00	1579	334.00	6394
68.00	3124	152.00	850	236.00	1275	335.00	1550
69.00	183424	153.00	3336	237.00	2403	336.00	66
70.00	786	154.00	2078	238.00	426	339.00	143
71.00	309	155.00	5066	239.00	699	340.00	78
72.00	298	156.00	7136	240.00	969	341.00	1308
73.00	1435	157.00	1689	241.00	1719	342.00	324
74.00	19328	158.00	1505	242.00	2792	345.00	55
75.00	28664	159.00	1461	243.00	3299	346.00	2051
76.00	10387	160.00	3179	244.00	46456	347.00	497
77.00	208256	161.00	5301	245.00	6583	350.00	150
78.00	14090	162.00	1621	246.00	7800	352.00	3280
79.00	13999	163.00	666	247.00	1892	353.00	1427

Report Date: 07-Jul-2025 10:10:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D\MSSemi_HP18831.rslt\spectra
Injection Date: 03-Jul-2025 11:39:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	9854	164.00	613	248.00	362	354.00	3231
81.00	14052	165.00	3265	249.00	1707	355.00	589
82.00	3527	166.00	2705	250.00	115	358.00	144
83.00	1938	167.00	21736	251.00	562	359.00	165
84.00	538	168.00	14972	252.00	728	362.00	70
85.00	1424	169.00	2208	253.00	1196	365.00	12828
86.00	2701	170.00	709	255.00	231104	366.00	1910
87.00	2086	171.00	826	256.00	32592	367.00	56
88.00	106	172.00	2407	257.00	2305	370.00	530
89.00	395	173.00	2377	258.00	13160	371.00	973
90.00	151	174.00	3893	259.00	2103	372.00	4994
91.00	2005	175.00	7259	260.00	405	373.00	1150
92.00	3098	176.00	2019	261.00	544	374.00	235
93.00	23520	177.00	3400	262.00	150	377.00	196
94.00	1349	178.00	1097	263.00	338	383.00	1413
95.00	304	179.00	15013	264.00	568	384.00	321
96.00	1310	180.00	10905	265.00	5062	385.00	59
97.00	493	181.00	3821	266.00	782	390.00	691
98.00	16384	182.00	966	267.00	371	391.00	460
99.00	14139	183.00	431	269.00	218	392.00	455
100.00	1393	184.00	1502	270.00	613	395.00	60
101.00	7792	185.00	6219	271.00	783	401.00	182
102.00	327	186.00	51280	272.00	725	402.00	2045
103.00	3169	187.00	15471	273.00	7686	403.00	2838
104.00	4084	188.00	1582	274.00	19944	404.00	874
105.00	4817	189.00	3633	275.00	103896	405.00	250
106.00	1264	190.00	626	276.00	14868	415.00	194
107.00	58552	191.00	1174	277.00	8148	419.00	68
108.00	8214	192.00	4738	278.00	1589	421.00	2581
109.00	1215	193.00	5692	279.00	278	422.00	2590
110.00	101896	194.00	859	282.00	467	423.00	19216
111.00	16005	195.00	1016	283.00	1012	424.00	4547
112.00	2823	196.00	11437	284.00	835	425.00	342
113.00	821	197.00	1827	285.00	1920	426.00	123

Report Date: 07-Jul-2025 10:10:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D\MSSemi_HP18831.rslt\spectra
Injection Date: 03-Jul-2025 11:39:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 333

m/z	Y	m/z	Y	m/z	Y	m/z	Y
114.00	112	198.00	401856	286.00	139	433.00	145
115.00	14	199.00	27744	288.00	80	434.00	137
116.00	3366	200.00	1931	289.00	600	435.00	51
117.00	55496	201.00	958	290.00	351	436.00	360
118.00	4500	202.00	510	291.00	275	437.00	597
119.00	231	203.00	2651	292.00	366	438.00	682
120.00	621	204.00	15029	293.00	2326	439.00	1244
121.00	343	205.00	24560	294.00	1057	440.00	122
122.00	3580	206.00	104568	295.00	870	441.00	54848
123.00	5758	207.00	14614	296.00	29240	442.00	360320
124.00	2950	208.00	3127	297.00	4471	443.00	70464
125.00	2589	209.00	1391	298.00	311	444.00	6271
126.00	1536	210.00	1376	301.00	317	445.00	315
127.00	197376	211.00	4100	302.00	329	519.00	64
128.00	14245	212.00	1069	303.00	3105		
129.00	75696	213.00	301	304.00	750		
130.00	6800	214.00	309	305.00	58		

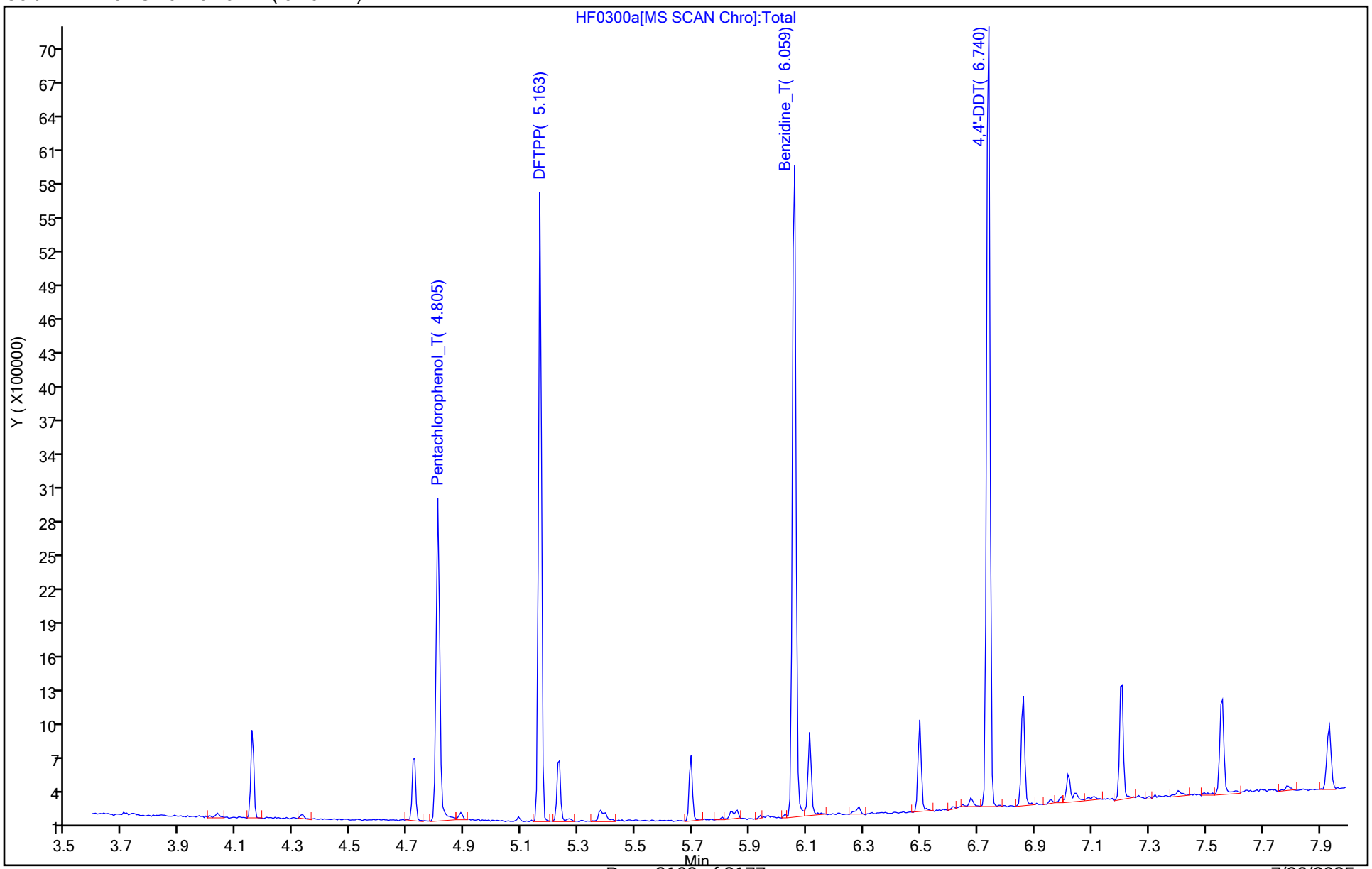
Report Date: 07-Jul-2025 10:10:56 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D

Injection Date:	03-Jul-2025 11:39:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D				
Injection Date:	03-Jul-2025 11:39:30	Instrument ID:	HP18831		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	EEA115318_KEL10217	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

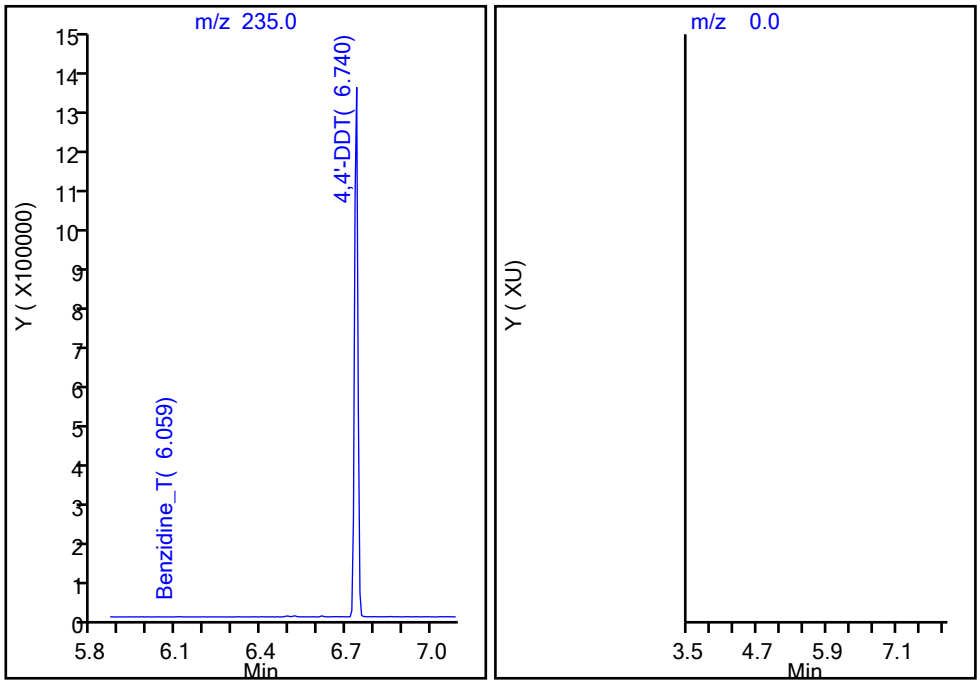
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 1126284
179 4,4'-DDD, Area = 0
180 4,4'-DDE, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

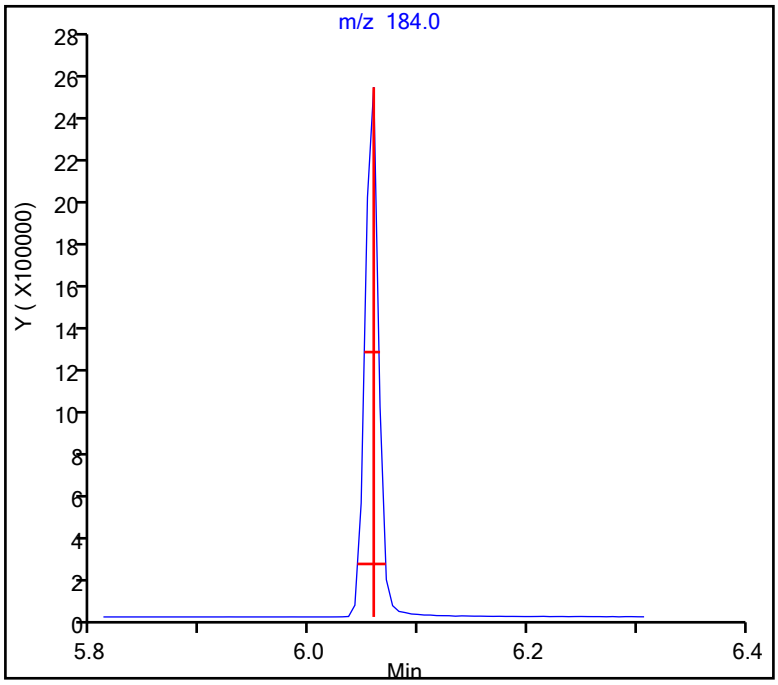
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Injection Date: 03-Jul-2025 11:39:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: EEA115318_KEL10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 0.73, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

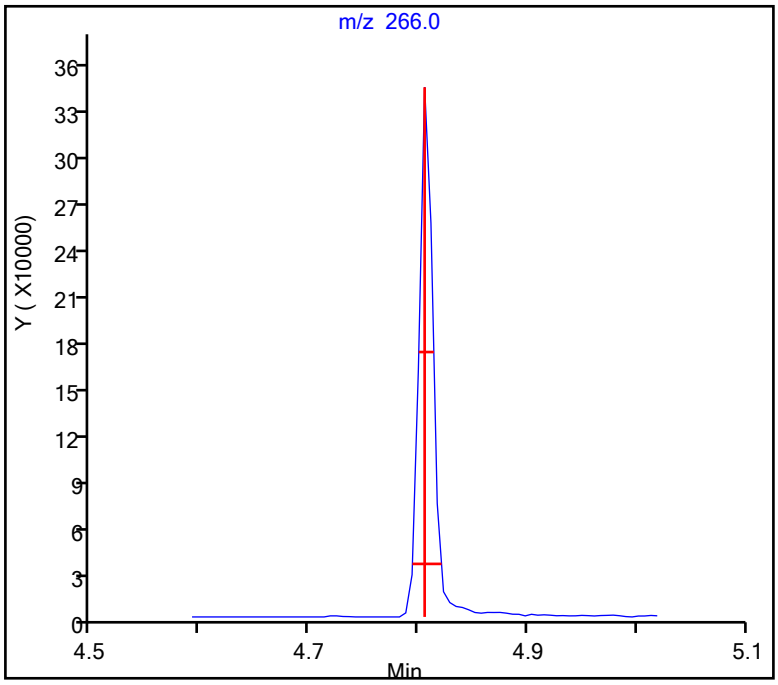
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0300a.D
Injection Date: 03-Jul-2025 11:39:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: EEA115318_KEL10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.45, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 08-Jul-2025 20:14:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 08-Jul-2025 21:34:27 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1718

First Level Reviewer: SJ89 Date: 08-Jul-2025 20:34:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.806	4.806	0.000	92	221661	NR	NR	
14 Benzidine_T	184	6.053	6.053	0.000	99	1505160	NR	NR	
178 DFTPP									
180 4,4'-DDE	246	6.215	6.215	0.000	90	5012		NR	
179 4,4'-DDD	235	6.492	6.492	0.000	54	12589		NR	a
181 4,4'-DDT	235	6.740	6.740	0.000	98	852210	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

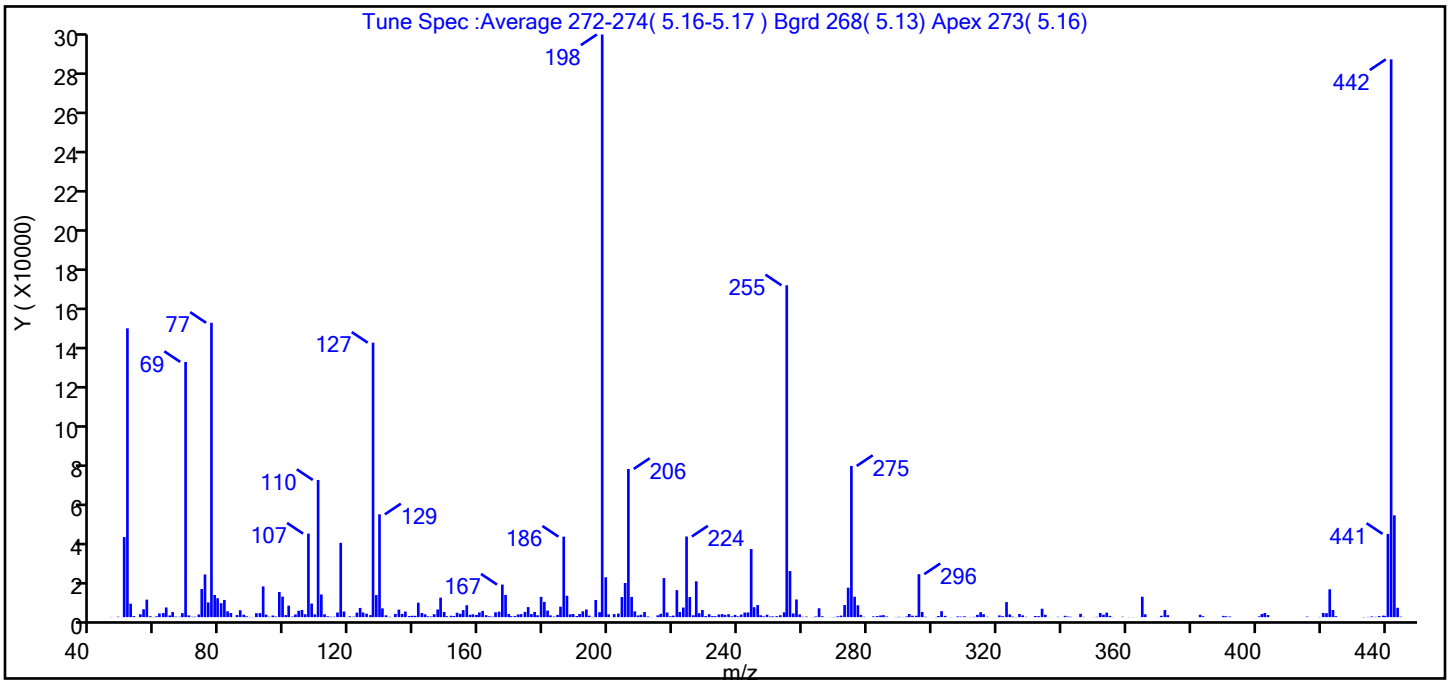
MSS_RVDFTPP_00018 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (104.5)
51	10-80% of the base peak	49.6
68	<2% of mass 69	0.7 (1.6)
69	Present	43.8
70	<2% of mass 69	0.3 (0.7)
127	10-80% of the base peak	47.1
197	<2% of mass 198	0.9
199	5-9% of mass 198	6.8
275	10-60% of the base peak	25.9
365	>1% of mass 198	3.5
441	present but <24% of mass 442	14.3 (14.9)
442	base peak, or >50% of 198	95.7
443	15-24% of mass 442	17.5 (18.2)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D\MSSemi_HP18831.rslt\spectra
Injection Date: 08-Jul-2025 20:14:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
46.00	94	131.00	929	213.00	104	303.00	3062
48.00	222	132.00	196	215.00	926	304.00	646
50.00	40968	134.00	1651	216.00	1697	306.00	69
51.00	147776	135.00	3855	217.00	19976	308.00	379
52.00	6888	136.00	1618	218.00	2368	309.00	274
53.00	548	137.00	2847	219.00	431	310.00	436
55.00	1475	138.00	561	220.00	788	311.00	70
56.00	4025	139.00	700	221.00	13818	312.00	119
57.00	8965	140.00	666	222.00	2667	313.00	158
58.00	468	141.00	7393	223.00	4917	314.00	1182
59.00	88	142.00	2116	224.00	41264	315.00	2539
60.00	421	143.00	1441	225.00	10278	316.00	1490
61.00	1897	144.00	426	226.00	966	317.00	203
62.00	2087	145.00	310	227.00	18328	321.00	886
63.00	4954	146.00	1475	228.00	1980	322.00	494
64.00	865	147.00	3903	229.00	3638	323.00	7698
65.00	2601	148.00	9966	230.00	563	324.00	1397
66.00	272	149.00	2658	231.00	1480	325.00	304
67.00	208	150.00	501	232.00	519	326.00	63
68.00	2046	151.00	729	233.00	478	327.00	1606
69.00	130576	152.00	595	234.00	1350	328.00	881
70.00	873	153.00	2262	235.00	1548	329.00	160
71.00	212	154.00	1714	236.00	1160	332.00	603
72.00	231	155.00	3618	237.00	1514	333.00	524
73.00	1340	156.00	6091	238.00	413	334.00	4316
74.00	14376	157.00	1203	239.00	1152	335.00	1204
75.00	21840	158.00	1444	240.00	424	336.00	62
76.00	7530	159.00	1142	241.00	1321	339.00	170
77.00	150592	160.00	2403	242.00	2346	341.00	673
78.00	11313	161.00	3203	243.00	2406	342.00	322
79.00	9677	162.00	993	244.00	34840	343.00	183
80.00	7133	163.00	468	245.00	5082	346.00	1718
81.00	8807	164.00	231	246.00	6161	347.00	151

Report Date: 08-Jul-2025 21:34:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D\MSSemi_HP18831.rslt\spectra
Injection Date: 08-Jul-2025 20:14:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2967	165.00	2457	247.00	982	350.00	81
83.00	2086	166.00	2789	248.00	412	351.00	166
85.00	1058	167.00	16672	249.00	1266	352.00	2151
86.00	3527	168.00	11366	250.00	302	353.00	1232
87.00	1248	169.00	1600	251.00	387	354.00	2299
88.00	424	170.00	488	252.00	498	355.00	652
89.00	131	171.00	626	253.00	978	356.00	76
90.00	56	172.00	1363	254.00	2461	359.00	204
91.00	2026	173.00	1525	255.00	169792	361.00	75
92.00	2079	174.00	2671	256.00	23568	362.00	78
93.00	15733	175.00	5140	257.00	1877	365.00	10430
94.00	1277	176.00	1575	258.00	9045	366.00	1443
95.00	222	177.00	2677	259.00	1412	370.00	54
96.00	827	178.00	958	260.00	187	371.00	711
97.00	319	179.00	10374	261.00	302	372.00	3645
98.00	12873	180.00	7790	263.00	78	373.00	1007
99.00	10486	181.00	3350	264.00	345	383.00	1230
100.00	1042	182.00	899	265.00	4544	384.00	481
101.00	5878	183.00	303	266.00	460	390.00	647
102.00	305	184.00	1150	268.00	65	391.00	462
103.00	1383	185.00	5343	269.00	69	392.00	336
104.00	3282	186.00	41184	270.00	119	401.00	391
105.00	3672	187.00	10954	271.00	410	402.00	1561
106.00	1473	188.00	1415	272.00	776	403.00	2126
107.00	42728	189.00	1601	273.00	6196	404.00	1057
108.00	6956	190.00	571	274.00	15077	416.00	294
109.00	1422	191.00	1626	275.00	77360	420.00	123
110.00	70176	192.00	2985	276.00	10430	421.00	2150
111.00	11595	193.00	3923	277.00	6065	422.00	2031
112.00	1431	194.00	759	278.00	1160	423.00	14246
113.00	463	195.00	105	279.00	203	424.00	3659
114.00	221	196.00	8750	282.00	399	425.00	488
115.00	222	197.00	2534	283.00	569	433.00	64
116.00	2388	198.00	298112	284.00	863	434.00	68

Report Date: 08-Jul-2025 21:34:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D\MSSemi_HP18831.rslt\spectra
Injection Date: 08-Jul-2025 20:14:30
Spectrum: Tune Spec :Average 272-274(5.16-5.17) Bgrd 268(5.13) Apex 273(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	38016	199.00	20416	285.00	1038	435.00	131
118.00	2886	200.00	1379	286.00	352	436.00	356
119.00	27	202.00	1564	289.00	112	437.00	132
120.00	419	202.00	100	290.00	178	438.00	519
121.00	253	203.00	1837	291.00	100	440.00	775
122.00	2319	204.00	10262	292.00	349	440.00	494
123.00	4723	205.00	17472	293.00	1623	441.00	42592
124.00	2406	206.00	75840	294.00	720	442.00	285376
125.00	1762	207.00	10350	295.00	706	443.00	52080
126.00	1023	208.00	2948	296.00	22000	444.00	4777
127.00	140416	209.00	867	297.00	2660	445.00	238
128.00	11293	210.00	1223	298.00	212		
129.00	52592	211.00	2647	301.00	89		
130.00	4496	212.00	338	302.00	587		

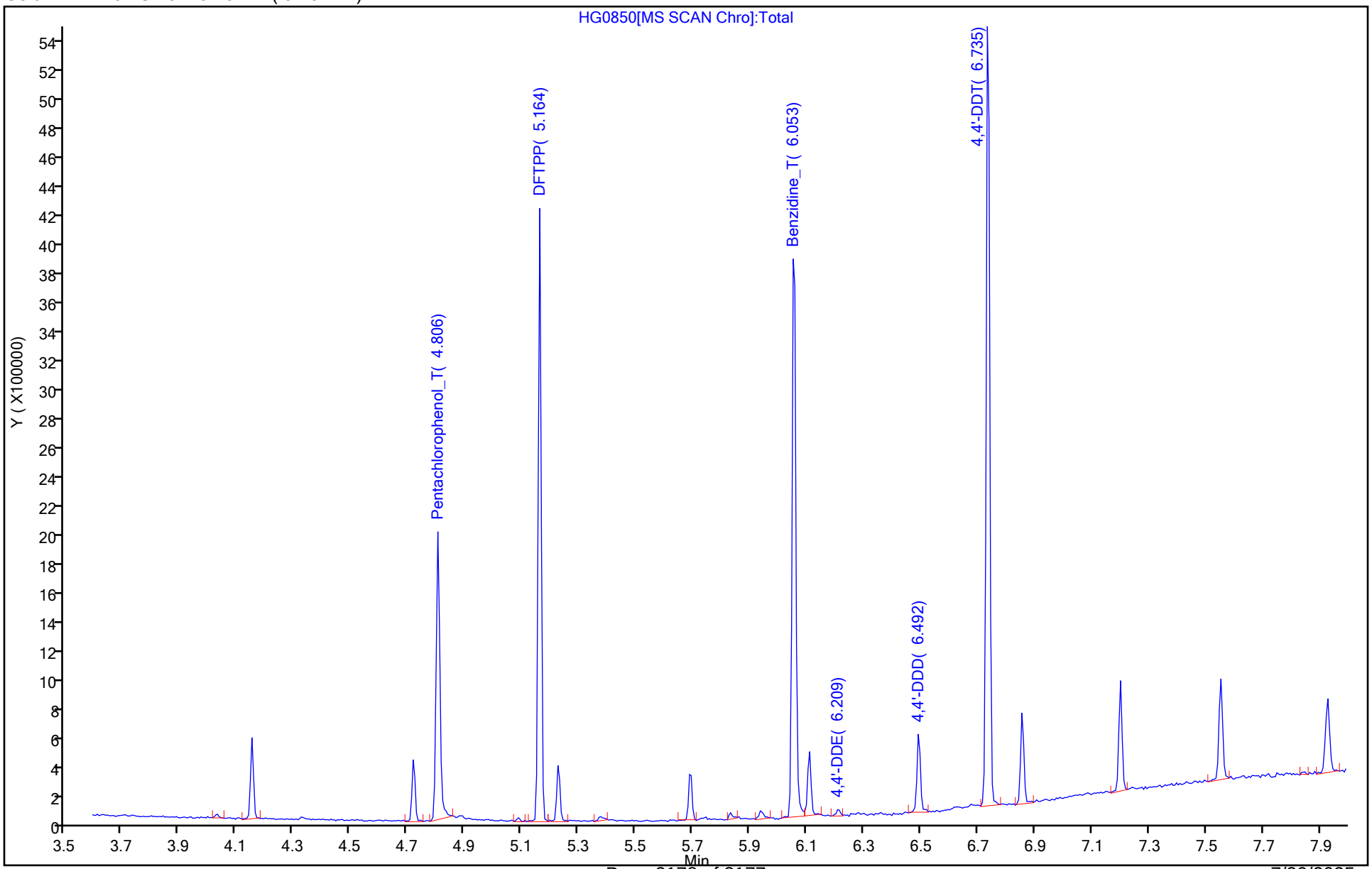
Report Date: 08-Jul-2025 21:34:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D

Injection Date:	08-Jul-2025 20:14:30	Instrument ID:	HP18831	Operator ID:	kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

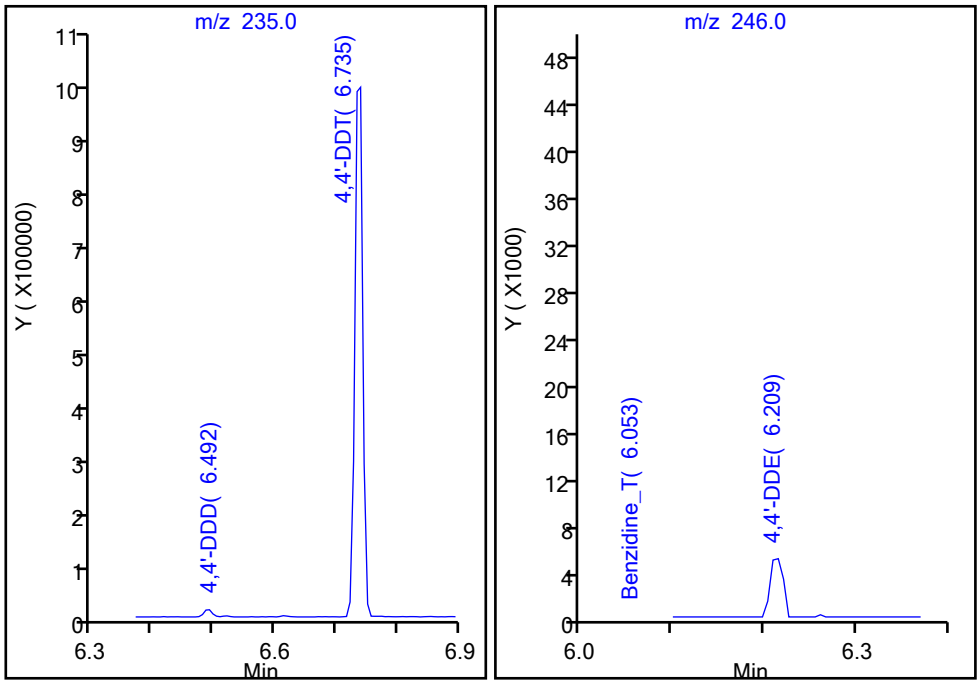
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 852210
179 4,4'-DDD, Area = 12589
180 4,4'-DDE, Area = 5012

%Breakdown: 2.02%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

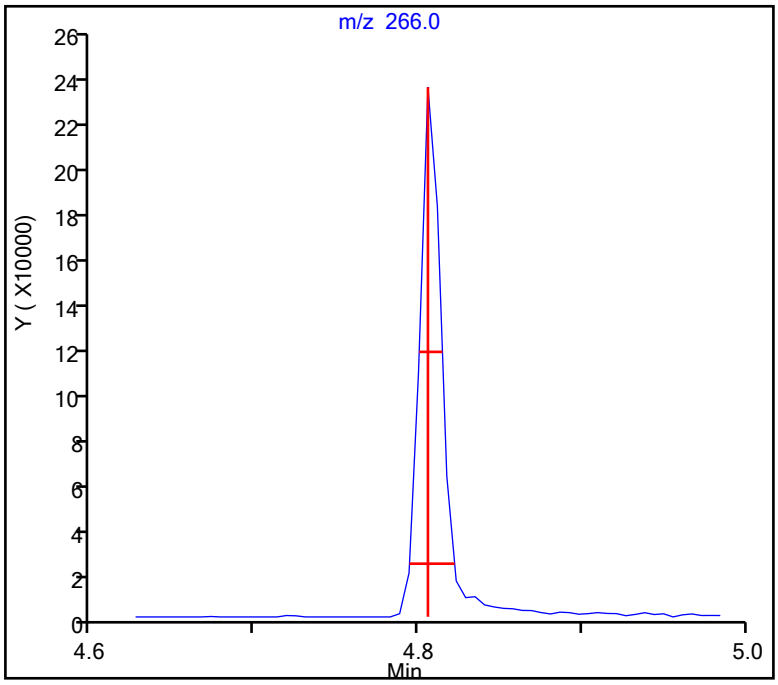
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.45, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

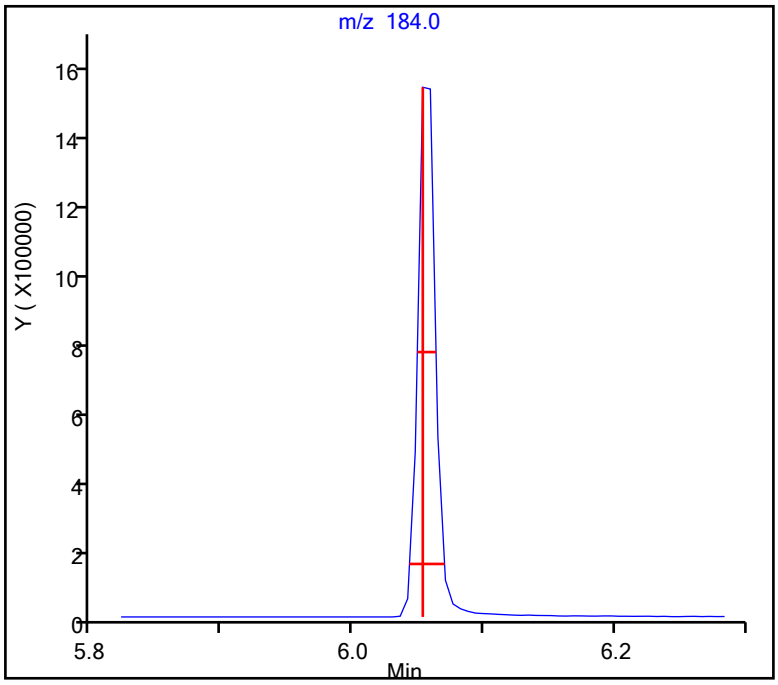
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250708-152813.b\HG0850.D
Injection Date: 08-Jul-2025 20:14:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.010 (min.)

Tailing Factor = 1.70, Max. Tailing <= 2.00
Passed



Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 09-Jul-2025 09:05:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:15:43 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: RN6U Date: 09-Jul-2025 09:55:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
8 Pentachlorophenol_T	266	4.806	4.806	0.000	92	309617	NR	NR	
14 Benzidine_T	184	6.053	6.053	0.000	99	1726113	NR	NR	
178 DFTPP									
180 4,4'-DDE	246		6.209					ND	U
179 4,4'-DDD	235		6.486					ND	U
181 4,4'-DDT	235	6.734	6.734	0.000	98	980488	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
U - Marked Undetected

Reagents:

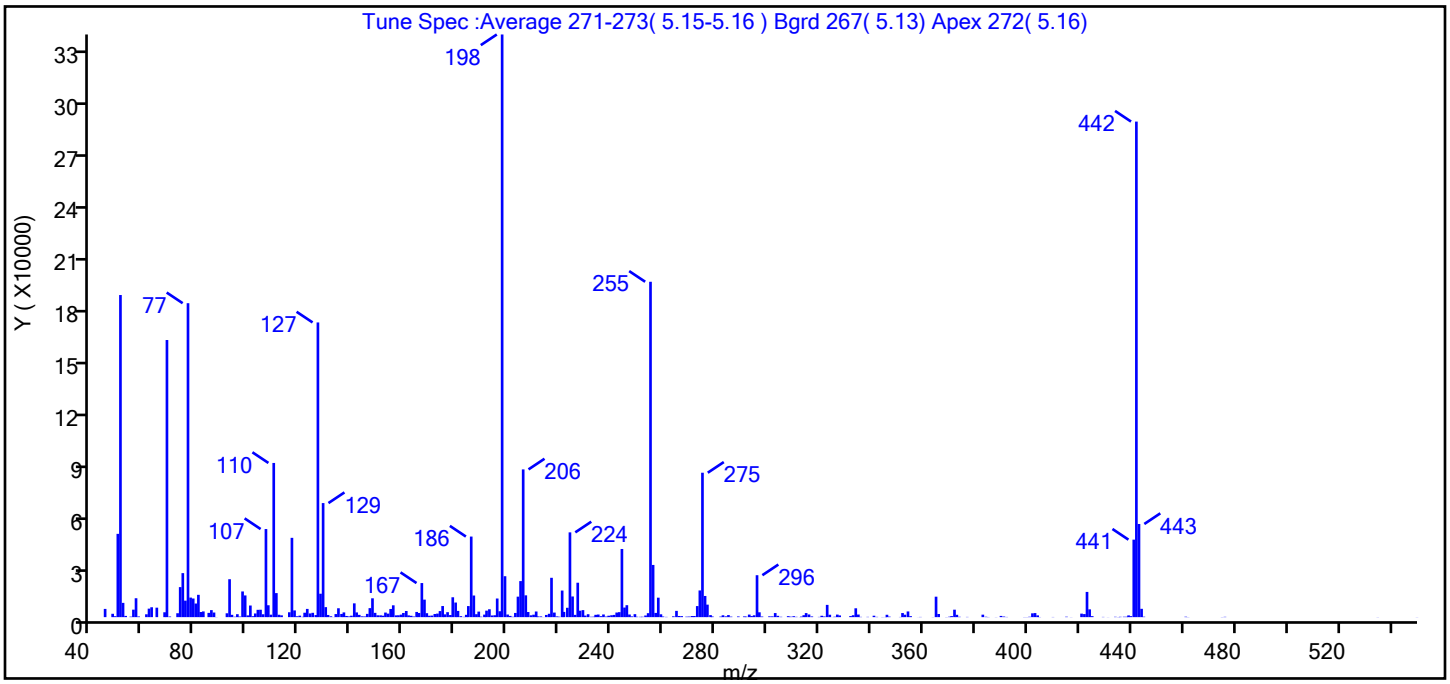
MSS_RVDFTPP_00018 Amount Added: 1.00 Units: mL

MS Tune Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI
Tune Method: DFTPP Method 8270D, BP 198

178 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (117.6)
51	10-80% of the base peak	55.3
68	<2% of mass 69	0.8 (1.8)
69	Present	47.6
70	<2% of mass 69	0.1 (0.2)
127	10-80% of the base peak	50.6
197	<2% of mass 198	1.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	24.8
365	>1% of mass 198	3.5
441	present but <24% of mass 442	13.3 (15.6)
442	base peak, or >50% of 198	85.1
443	15-24% of mass 442	16.0 (18.8)

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D\MSSemi_HP18831.rslt\spectra
Injection Date: 09-Jul-2025 09:05:30
Spectrum: Tune Spec :Average 271-273(5.15-5.16) Bgrd 267(5.13) Apex 272(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
45.00	4768	143.00	1321	225.00	11967	321.00	792
48.00	1944	144.00	470	226.00	1318	322.00	369
49.00	536	145.00	397	227.00	19928	323.00	7098
50.00	48224	146.00	1891	228.00	3737	324.00	1387
51.00	186496	147.00	5218	229.00	4062	325.00	36
52.00	8262	148.00	10910	230.00	905	326.00	250
53.00	717	149.00	2482	231.00	1686	327.00	1476
55.00	296	150.00	1065	232.00	232	328.00	988
56.00	4338	151.00	1038	233.00	296	332.00	628
57.00	10949	152.00	831	234.00	1349	333.00	1103
58.00	397	153.00	2643	235.00	1513	334.00	5127
61.00	1655	154.00	2037	236.00	567	335.00	1506
62.00	4925	155.00	4734	237.00	1543	336.00	160
63.00	5720	156.00	6851	238.00	329	339.00	162
65.00	5482	157.00	1034	239.00	822	341.00	825
68.00	2824	158.00	1078	240.00	1099	342.00	161
69.00	160448	159.00	1441	241.00	1290	344.00	89
70.00	361	160.00	2409	242.00	2668	346.00	104
73.00	2263	161.00	3560	243.00	2887	346.00	1375
74.00	17384	162.00	1025	244.00	39464	347.00	304
75.00	25488	163.00	786	245.00	5551	351.00	114
76.00	9546	164.00	374	246.00	6914	352.00	2371
77.00	181760	165.00	3010	247.00	1527	353.00	1415
78.00	11316	166.00	2416	248.00	435	354.00	3299
79.00	10788	167.00	19736	249.00	1730	355.00	569
80.00	7883	168.00	10140	250.00	231	358.00	31
81.00	12923	169.00	2282	251.00	189	359.00	123
82.00	2973	170.00	816	252.00	229	364.00	70
83.00	3308	171.00	909	253.00	949	365.00	11845
85.00	2467	172.00	1823	254.00	2295	366.00	1826
86.00	4066	173.00	2045	255.00	194176	369.00	80
87.00	2674	174.00	3504	256.00	30224	370.00	272
88.00	66	175.00	6430	257.00	2456	371.00	592

Report Date: 10-Jul-2025 13:15:45 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D\MSSemi_HP18831.rslt\spectra
Injection Date: 09-Jul-2025 09:05:30
Spectrum: Tune Spec :Average 271-273(5.15-5.16) Bgrd 267(5.13) Apex 272(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	2240	176.00	1616	258.00	11268	372.00	4319
93.00	21960	177.00	2872	259.00	1648	373.00	1347
94.00	1343	178.00	1224	260.00	366	374.00	207
95.00	256	179.00	11505	261.00	141	377.00	133
96.00	1706	180.00	8454	264.00	475	383.00	1438
97.00	348	181.00	3608	265.00	3630	384.00	224
98.00	14875	182.00	564	266.00	669	385.00	93
99.00	12568	183.00	165	267.00	573	388.00	61
100.00	1015	184.00	1344	269.00	273	390.00	710
101.00	6732	185.00	6403	270.00	335	391.00	346
102.00	545	186.00	46656	271.00	650	392.00	116
103.00	2120	187.00	12517	272.00	651	399.00	83
104.00	4240	188.00	1698	273.00	6402	400.00	78
105.00	4289	189.00	3209	274.00	15454	401.00	230
106.00	1672	190.00	259	275.00	83616	402.00	2208
107.00	51000	191.00	1467	276.00	12260	403.00	2351
108.00	6885	192.00	3761	277.00	7235	404.00	1018
109.00	1426	193.00	4572	278.00	1175	405.00	91
110.00	89272	194.00	970	279.00	384	410.00	104
111.00	13921	195.00	1097	282.00	319	415.00	254
112.00	1378	196.00	10790	283.00	1080	417.00	57
113.00	1036	197.00	3404	284.00	456	421.00	2028
116.00	2821	198.00	337344	285.00	1198	422.00	1774
117.00	45920	199.00	23696	286.00	302	423.00	14602
118.00	3887	200.00	1516	289.00	394	424.00	4507
119.00	524	201.00	724	291.00	412	425.00	574
120.00	864	202.00	215	292.00	312	429.00	132
121.00	200	203.00	2429	293.00	1484	431.00	50
122.00	2554	204.00	11864	294.00	622	434.00	206
123.00	4767	205.00	20872	295.00	1062	435.00	85
124.00	2146	206.00	85536	296.00	24280	436.00	200
125.00	2510	207.00	12623	297.00	2804	437.00	243
126.00	1200	208.00	2966	298.00	359	438.00	250
127.00	170624	209.00	1056	301.00	467	439.00	1004

Report Date: 10-Jul-2025 13:15:45 Chrom Revision: 2.3 14-Jun-2025 12:06:34
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D\MSSemi_HP18831.rslt\spectra
Injection Date: 09-Jul-2025 09:05:30
Spectrum: Tune Spec :Average 271-273(5.15-5.16) Bgrd 267(5.13) Apex 272(5.16)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 325

m/z	Y	m/z	Y	m/z	Y	m/z	Y
128.00	13557	210.00	1413	302.00	446	440.00	573
129.00	66040	211.00	3269	303.00	2362	441.00	44864
130.00	5797	212.00	410	304.00	763	442.00	286912
131.00	1263	213.00	408	305.00	207	443.00	53936
132.00	498	214.00	53	308.00	563	444.00	4824
133.00	54	215.00	1270	309.00	287	445.00	259
134.00	1782	216.00	1943	310.00	546	461.00	246
135.00	5144	217.00	22784	311.00	194	462.00	73
136.00	1851	218.00	2649	313.00	54	475.00	80
137.00	2739	219.00	421	313.00	341	476.00	179
138.00	683	220.00	248	314.00	1121	535.00	61
139.00	410	221.00	15395	315.00	2351	550.00	54
140.00	831	222.00	3038	316.00	1534		
141.00	7984	223.00	5421	317.00	402		
142.00	2736	224.00	49088	320.00	143		

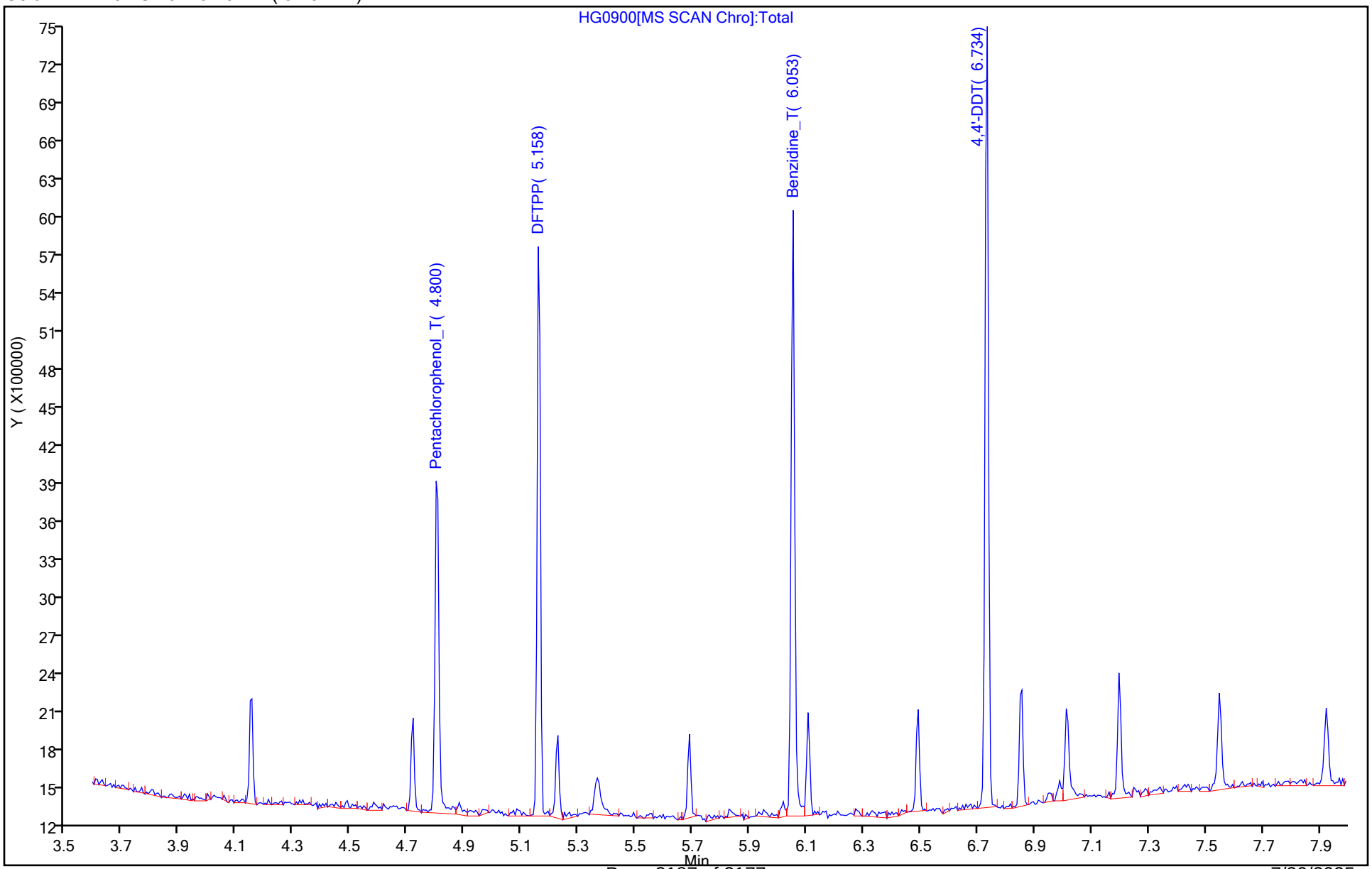
Report Date: 10-Jul-2025 13:15:45 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D

Injection Date:	09-Jul-2025 09:05:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	DFTPP			Worklist Smp#:	1
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Breakdown Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

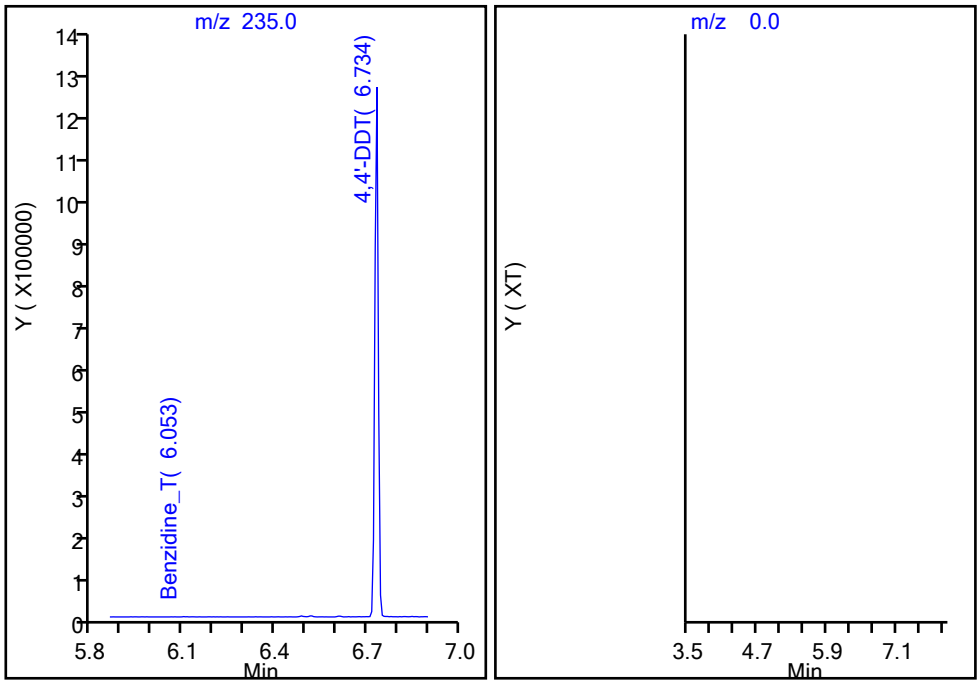
181 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

181 4,4'-DDT, Area = 980488
179 4,4'-DDD, Area = 0
180 4,4'-DDE, Area = 0

%Breakdown: 0.00%, <= 20.00%
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

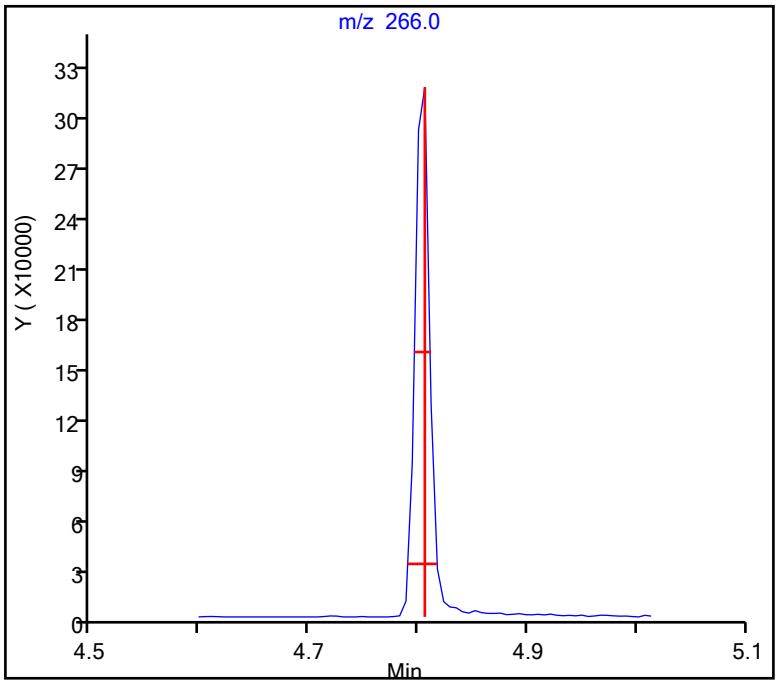
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

8 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.011 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 0.69, Max. Tailing <= 2.00
Passed



Peak Tailing Report

Eurofins Lancaster Laboratories Environment Testing, LLC

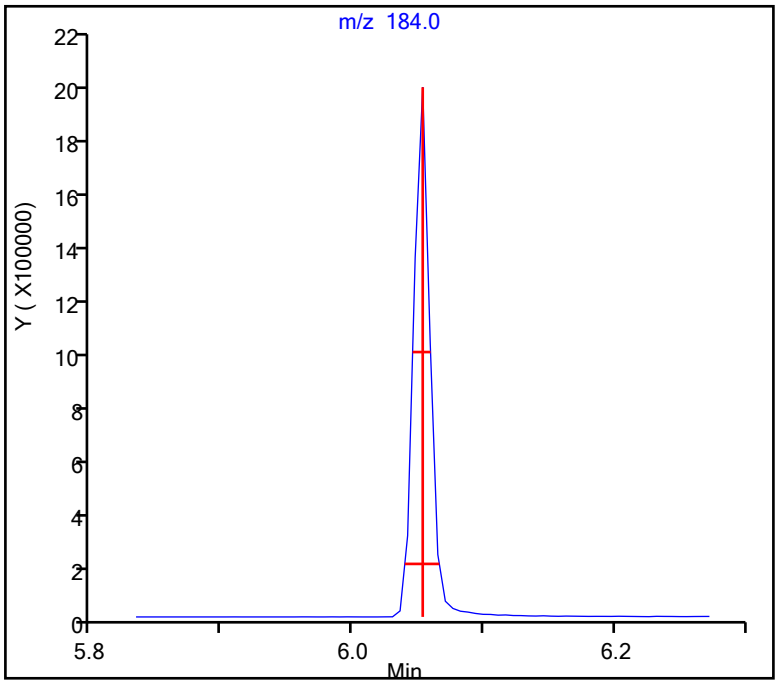
Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0900.D
Injection Date: 09-Jul-2025 09:05:30 Instrument ID: HP18831
Lims ID: DFTPP
Client ID:
Operator ID: eea115318_kel10217 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

14 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 0.93, Max. Tailing <= 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-666257/1-A

Matrix: Water
Lab File ID: HF0305.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 250(mL)
Date Analyzed: 07/03/2025 14:27

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.0	1.00
84-66-2	Diethyl phthalate	ND		5.00	2.00
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	63		13-134
321-60-8	2-Fluorobiphenyl (Surr)	73		45-120
367-12-4	2-Fluorophenol (Surr)	50		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	78		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	105		26-123
4165-62-2	Phenol-d5 (Surr)	35		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0305.D
Lims ID: MB 410-666257/1-A
Client ID:
Sample Type: MB
Inject. Date: 03-Jul-2025 14:27:30 ALS Bottle#: 6 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-666257/1-A
Misc. Info.: 410-0152352-020
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	307083	25.0	12.6	
$ 16 Phenol-d5	99	4.075	4.069	0.006	96	296509	25.0	8.74	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	98	102177	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	590953	25.0	19.4	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	427292	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1440745	25.0	18.3	
88 2,6-Dinitrotoluene	165		7.228					ND	7
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	93	291164	5.00	5.00	
98 2,4-Dinitrotoluene	165		7.622					ND	
104 Diethyl phthalate	149		7.875					ND	7
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	96	191515	25.0	15.7	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	98	606362	5.00	5.00	
129 Phenanthrene	178		8.922					ND	7
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	685407	5.00	5.00	
141 Pyrene	202		10.322					ND	7
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	2933609	25.0	26.4	
151 Chrysene	228		11.751					ND	7
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	751874	5.00	5.00	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

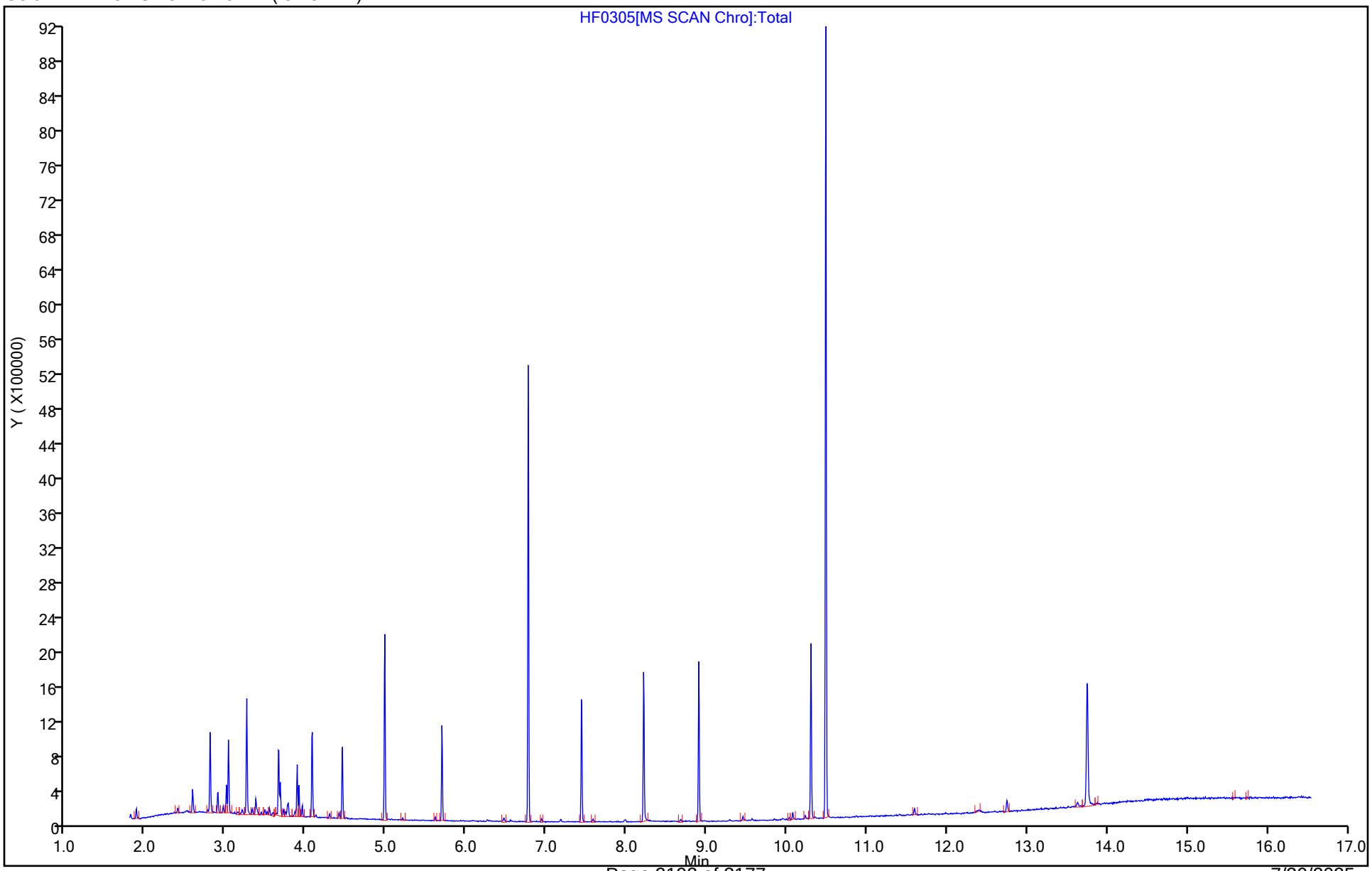
Report Date: 07-Jul-2025 11:28:21 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0305.D

Injection Date:	03-Jul-2025 14:27:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	MB 410-666257/1-A			Worklist Smp#:	20
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0305.D				
Lims ID:	MB 410-666257/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	03-Jul-2025 14:27:30	ALS Bottle#:	6	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-666257/1-A				
Misc. Info.:	410-0152352-020				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:27:34	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:05

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.6	50.38
$ 16 Phenol-d5	25.0	8.74	34.96
$ 41 Nitrobenzene-d5	25.0	19.4	77.57
$ 76 2-Fluorobiphenyl (Surr)	25.0	18.3	73.33
$ 113 2,4,6-Tribromophenol	25.0	15.7	62.77
$ 142 p-Terphenyl-d14	25.0	26.4	105.40

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: MB 410-666606/1-A

Matrix: Water
Lab File ID: HG0904.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 250(mL)
Date Analyzed: 07/09/2025 11:15

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	ND		10.0	1.00
84-66-2	Diethyl phthalate	ND		5.00	2.00
606-20-2	2,6-Dinitrotoluene	ND		10.0	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	62		13-134
321-60-8	2-Fluorobiphenyl (Surr)	80		45-120
367-12-4	2-Fluorophenol (Surr)	57		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	81		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	94		26-123
4165-62-2	Phenol-d5 (Surr)	40		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D
Lims ID: MB 410-666606/1-A
Client ID:
Sample Type: MB
Inject. Date: 09-Jul-2025 11:15:30 ALS Bottle#: 4 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: MB 410-666606/1-A
Misc. Info.: 410-0152870-010
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:13:53 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:00

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88		2.093					ND	U
	3 Pyridine	79		2.310					ND	7
$	10 2-Fluorophenol	112	3.257	3.257	0.000	94	567935	25.0	14.2	
	15 Benzaldehyde	77		4.034					ND	7
$	16 Phenol-d5	99	4.075	4.075	0.000	97	556237	25.0	10.0	
	17 Phenol	94		4.087					ND	7
	19 Bis(2-chloroethyl)ether	93		4.187					ND	U
	20 2-Chlorophenol	128		4.246					ND	7
*	23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	167264	5.00	5.00	
	24 1,4-Dichlorobenzene	146		4.463					ND	7
	26 Benzyl alcohol	108		4.569					ND	7
	30 2-Methylphenol	108		4.675					ND	
	32 2,2'-oxybis[1-chloropropane]	45		4.704					ND	7
	36 4-Methylphenol	108		4.822					ND	7
	34 Acetophenone	105		4.834					ND	7
	35 N-Nitrosodi-n-propylamine	70		4.834					ND	7
	40 Hexachloroethane	117		4.940					ND	7
$	41 Nitrobenzene-d5	82	4.975	4.981	-0.006	93	1007304	25.0	20.2	
	42 Nitrobenzene	77		4.999					ND	U
	45 Isophorone	82		5.234					ND	7
	46 2-Nitrophenol	139		5.310					ND	
	48 2,4-Dimethylphenol	107		5.351					ND	
	51 Bis(2-chloroethoxy)methane	93		5.451					ND	7
	52 2,4-Dichlorophenol	162		5.551					ND	
	53 1,2,4-Trichlorobenzene	180		5.634					ND	7
*	54 Naphthalene-d8	136	5.692	5.693	-0.001	100	699053	5.00	5.00	
	55 Naphthalene	128		5.716					ND	7
	57 4-Chloroaniline	127		5.763					ND	7
	60 Hexachlorobutadiene	225		5.840					ND	
	63 Caprolactam	113		6.093					ND	7
	66 4-Chloro-3-methylphenol	107		6.251					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
68 2-Methylnaphthalene	142		6.404					ND	
69 1-Methylnaphthalene	142		6.504					ND	
71 Hexachlorocyclopentadiene	237		6.563					ND	
72 1,2,4,5-Tetrachlorobenzene	216		6.569					ND	
74 2,4,6-Trichlorophenol	196		6.681					ND	
75 2,4,5-Trichlorophenol	196		6.716					ND	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2391869	25.0	19.9	
78 1,1'-Biphenyl	154		6.869					ND	7
79 2-Chloronaphthalene	162		6.887					ND	7
82 2-Nitroaniline	138		6.987					ND	7
86 Dimethyl phthalate	163		7.175					ND	7
88 2,6-Dinitrotoluene	165		7.228					ND	
89 Acenaphthylene	152		7.298					ND	7
90 3-Nitroaniline	138		7.393					ND	
* 91 Acenaphthene-d10	164	7.433	7.440	-0.007	95	445744	5.00	5.00	
93 Acenaphthene	153		7.469					ND	7
94 2,4-Dinitrophenol	184		7.492					ND	
95 4-Nitrophenol	109		7.557					ND	7
98 2,4-Dinitrotoluene	165		7.622					ND	U
97 Dibenzofuran	168		7.640					ND	7
101 2,3,4,6-Tetrachlorophenol	232		7.763					ND	
104 Diethyl phthalate	149		7.875					ND	7
105 Fluorene	166		7.981					ND	
108 4-Chlorophenyl phenyl ether	204		7.981					ND	7
109 4-Nitroaniline	138		7.992					ND	
110 4,6-Dinitro-2-methylphenol	198		8.028					ND	7
111 N-Nitrosodiphenylamine	169		8.098					ND	7
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	287692	25.0	15.4	
118 4-Bromophenyl phenyl ether	248		8.463					ND	
120 Hexachlorobenzene	284		8.516					ND	
122 Atrazine	200		8.628					ND	
123 Pentachlorophenol	266		8.716					ND	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	894356	5.00	5.00	
129 Phenanthrene	178		8.922					ND	7
130 Anthracene	178		8.975					ND	7
131 Carbazole	167		9.134					ND	7
133 Di-n-butyl phthalate	149		9.481					ND	7
138 Fluoranthene	202		10.092					ND	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	971842	5.00	5.00	
141 Pyrene	202		10.322					ND	7
$ 142 p-Terphenyl-d14	244	10.486	10.480	0.000	98	3707823	25.0	23.5	
146 Butyl benzyl phthalate	149		11.033					ND	7
149 3,3'-Dichlorobenzidine	252		11.675					ND	7
148 Benzo[a]anthracene	228		11.704					ND	7
151 Chrysene	228		11.751					ND	7
152 Bis(2-ethylhexyl) phthalate	149		11.769					ND	7
154 Di-n-octyl phthalate	149		12.686					ND	7
155 Benzo[b]fluoranthene	252		13.198					ND	7
157 Benzo[k]fluoranthene	252		13.239					ND	7
158 Benzo[a]pyrene	252		13.669					ND	7
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	914158	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276		15.457					ND	7

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
164 Dibenz(a,h)anthracene	278		15.504					ND	7
165 Benzo[g,h,i]perylene	276		15.945					ND	7
S 337 3 & 4 Methylphenol	108		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

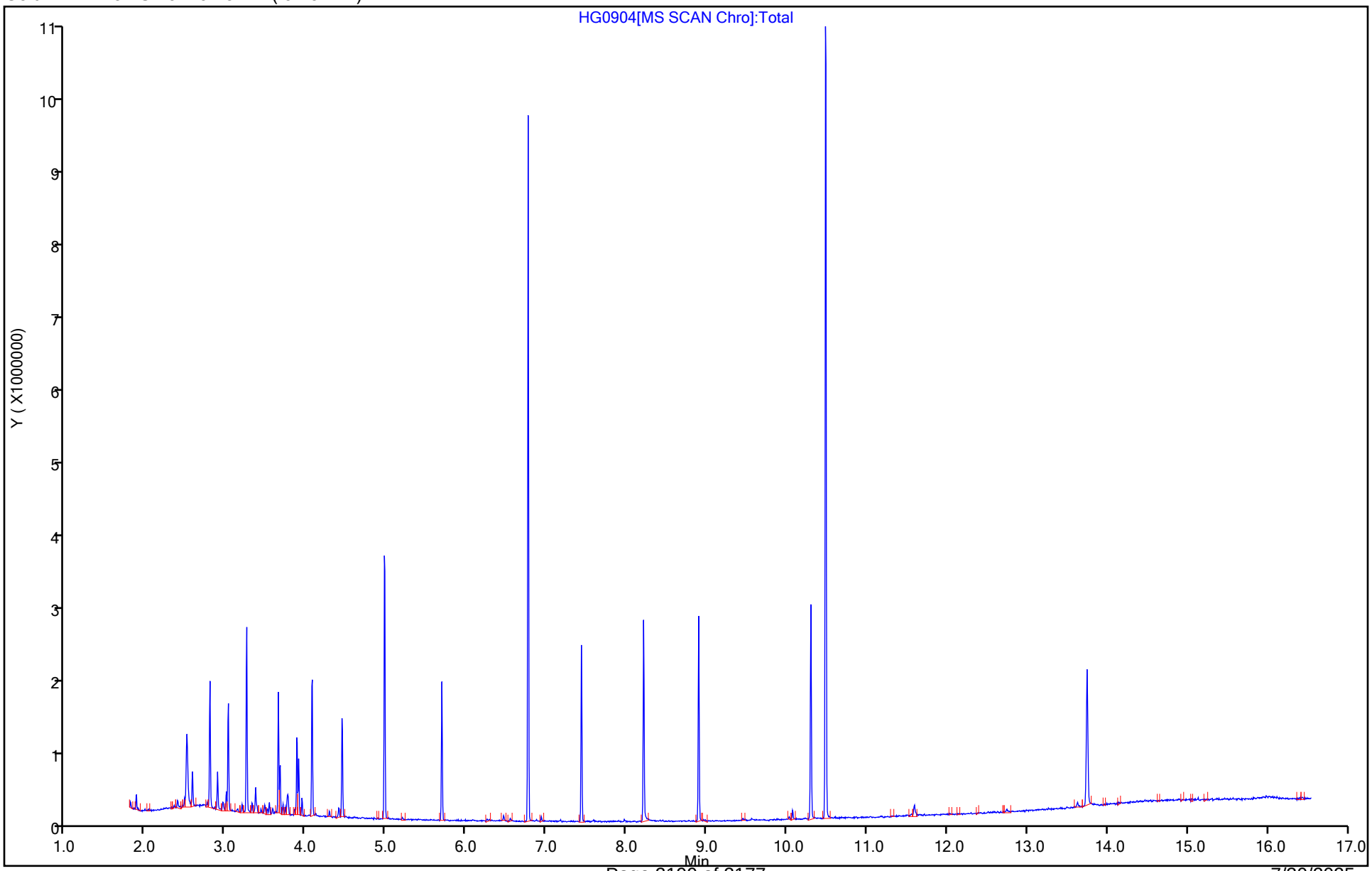
Report Date: 10-Jul-2025 13:14:06 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D

Injection Date:	09-Jul-2025 11:15:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	MB 410-666606/1-A			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D				
Lims ID:	MB 410-666606/1-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	09-Jul-2025 11:15:30	ALS Bottle#:	4	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 410-666606/1-A				
Misc. Info.:	410-0152870-010				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:13:53	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:00

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	14.2	56.92
$ 16 Phenol-d5	25.0	10.0	40.07
$ 41 Nitrobenzene-d5	25.0	20.2	80.82
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.9	79.52
$ 113 2,4,6-Tribromophenol	25.0	15.4	61.59
$ 142 p-Terphenyl-d14	25.0	23.5	93.96

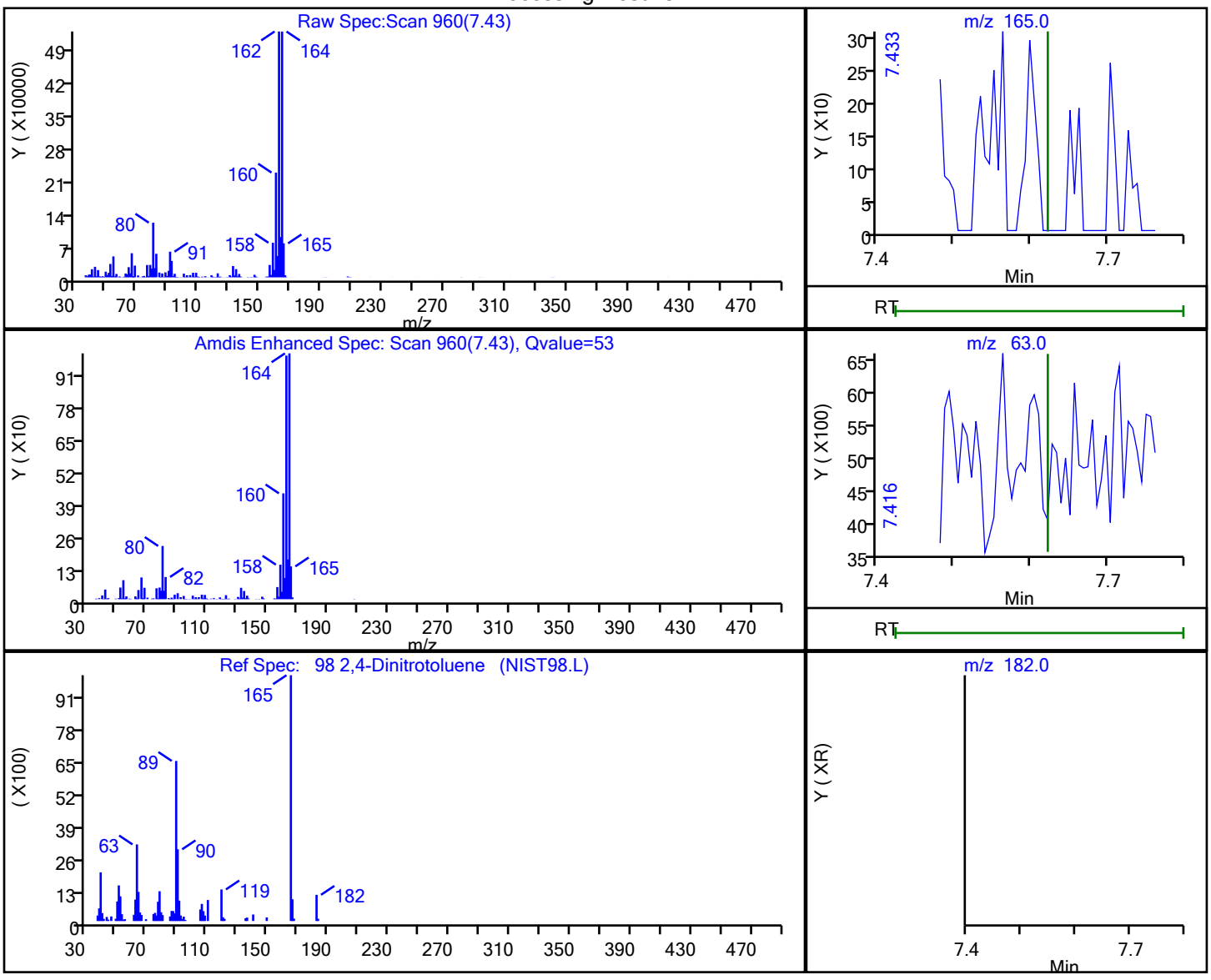
User Disabled Compound Report

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0904.D				
Injection Date:	09-Jul-2025 11:15:30	Instrument ID:	HP18831		
Lims ID:	MB 410-666606/1-A				
Client ID:					
Operator ID:	eea115318_kel10217	ALS Bottle#:	4	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		
Column:	DB-5MS 20m 0.25mm (0.25 mm)	Detector	MS SCAN		

98 2,4-Dinitrotoluene, CAS: 121-14-2

Processing Results



RT	Mass	Response	Amount
7.43	165.00	60228	1.912941
7.42	63.00	5350	
7.62	182.00	0	
7.43	89.00	2375	

Reviewer: W6ZA, 10-Jul-2025 12:52:48 -04:00:00 (UTC)

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-666257/2-A

Matrix: Water
Lab File ID: HF0306.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 250(mL)
Date Analyzed: 07/03/2025 14:48

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	46.82		10.0	1.00
84-66-2	Diethyl phthalate	40.83		5.00	2.00
606-20-2	2,6-Dinitrotoluene	43.03		10.0	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		13-134
321-60-8	2-Fluorobiphenyl (Surr)	63		45-120
367-12-4	2-Fluorophenol (Surr)	52		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	74		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	95		26-123
4165-62-2	Phenol-d5 (Surr)	37		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0306.D
Lims ID: LCS 410-666257/2-A
Client ID:
Sample Type: LCS
Inject. Date: 03-Jul-2025 14:48:30 ALS Bottle#: 7 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-666257/2-A
Misc. Info.: 410-0152352-021
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	355891	25.0	12.9	
$ 16 Phenol-d5	99	4.075	4.069	0.006	97	358586	25.0	9.36	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	96	115432	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	640154	25.0	18.4	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	488472	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1513667	25.0	15.8	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	204253	12.5	10.8	
* 91 Acenaphthene-d10	164	7.439	7.440	-0.001	92	355210	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	94	293669	12.5	11.7	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1016633	12.5	10.2	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	96	280819	25.0	18.9	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	726946	5.00	5.00	
129 Phenanthrene	178	8.922	8.922	0.000	98	1684839	12.5	10.4	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	99	833756	5.00	5.00	
141 Pyrene	202	10.322	10.322	0.000	98	2212286	12.5	10.8	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	3224833	25.0	23.8	
151 Chrysene	228	11.745	11.751	-0.006	96	2362161	12.5	12.2	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	898913	5.00	5.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

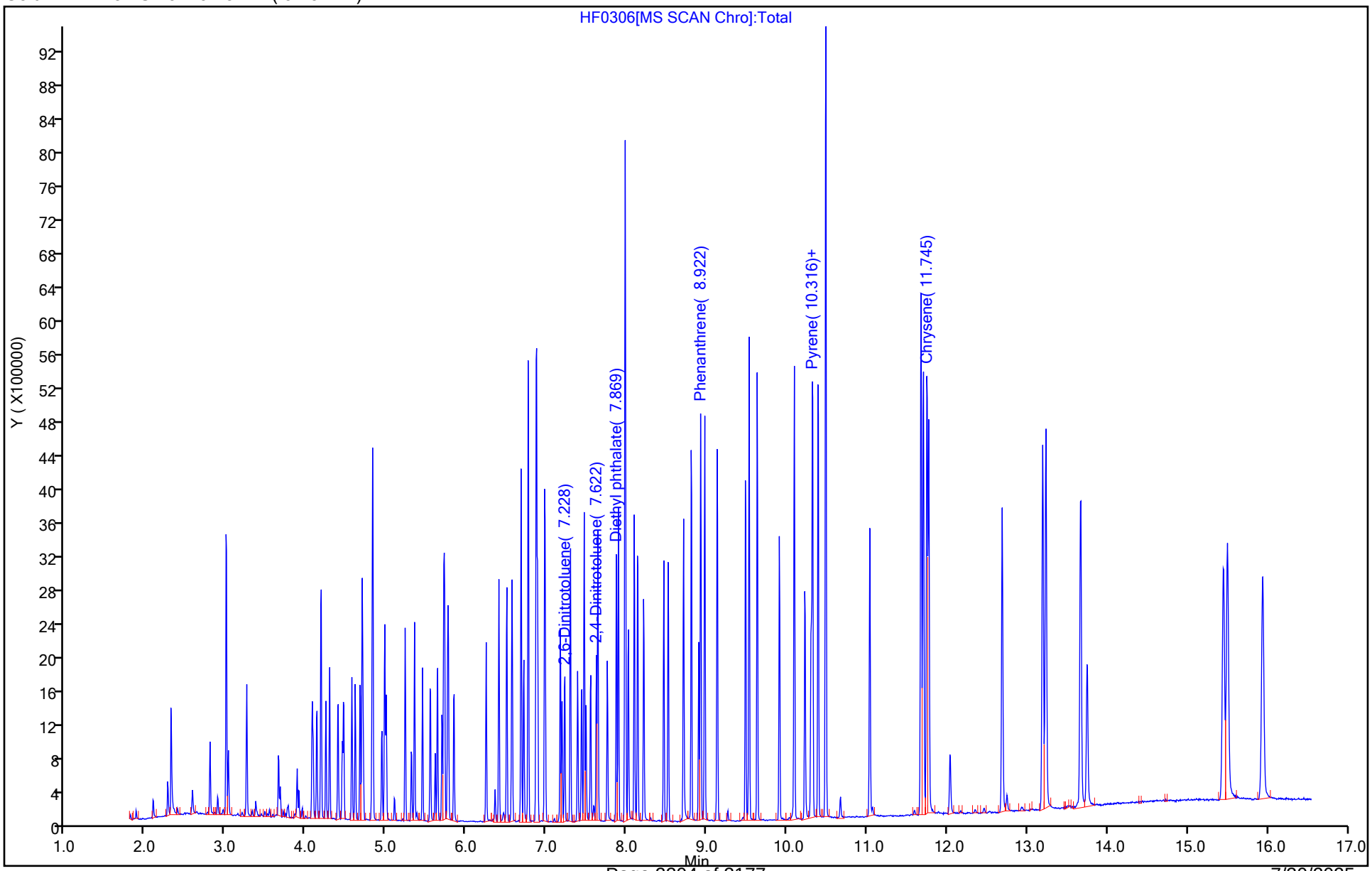
Report Date: 07-Jul-2025 11:28:24 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0306.D

Injection Date:	03-Jul-2025 14:48:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	LCS 410-666257/2-A			Worklist Smp#:	21
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0306.D				
Lims ID:	LCS 410-666257/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	03-Jul-2025 14:48:30	ALS Bottle#:	7	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 410-666257/2-A				
Misc. Info.:	410-0152352-021				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:27:34	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:17

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.9	51.69
$ 16 Phenol-d5	25.0	9.36	37.43
$ 41 Nitrobenzene-d5	25.0	18.4	73.50
$ 76 2-Fluorobiphenyl (Surr)	25.0	15.8	63.15
$ 113 2,4,6-Tribromophenol	25.0	18.9	75.44
$ 142 p-Terphenyl-d14	25.0	23.8	95.25

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCS 410-666606/2-A

Matrix: Water
Lab File ID: HG0905.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 250(mL)
Date Analyzed: 07/09/2025 11:36

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	49.08		10.0	1.00
84-66-2	Diethyl phthalate	32.77		5.00	2.00
606-20-2	2,6-Dinitrotoluene	43.93		10.0	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	77		13-134
321-60-8	2-Fluorobiphenyl (Surr)	66		45-120
367-12-4	2-Fluorophenol (Surr)	50		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	60		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	102		26-123
4165-62-2	Phenol-d5 (Surr)	39		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0905.D
Lims ID: LCS 410-666606/2-A
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2025 11:36:30 ALS Bottle#: 5 Worklist Smp#: 10
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 410-666606/2-A
Misc. Info.: 410-0152870-011
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:13:53 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.093	2.093	0.000	96	109062	12.5	5.33	
3 Pyridine	79	2.316	2.310	0.006	89	618905	25.0	10.9	
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	578092	25.0	12.4	
15 Benzaldehyde	77	4.034	4.034	0.000	94	294179	12.5	5.92	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	635206	25.0	9.80	
17 Phenol	94	4.087	4.087	0.000	99	395405	12.5	5.73	
19 Bis(2-chloroethyl)ether	93	4.187	4.187	0.000	92	466813	12.5	8.33	
20 2-Chlorophenol	128	4.246	4.245	0.000	97	405922	12.5	8.04	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	195294	5.00	5.00	
24 1,4-Dichlorobenzene	146	4.463	4.463	0.000	92	446306	12.5	7.45	
26 Benzyl alcohol	108	4.569	4.569	0.000	91	318273	12.5	8.58	
30 2-Methylphenol	108	4.669	4.675	-0.006	99	423574	12.5	8.45	
32 2,2'-oxybis[1-chloropropane]	45	4.704	4.704	0.000	92	766250	12.5	8.30	
36 4-Methylphenol	108	4.822	4.822	0.000	97	450368	12.5	8.68	
34 Acetophenone	105	4.828	4.834	-0.006	83	718700	12.5	8.52	
35 N-Nitrosodi-n-propylamine	70	4.828	4.834	-0.006	87	381101	12.5	8.00	
40 Hexachloroethane	117	4.940	4.939	0.000	93	158163	12.5	6.54	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	870858	25.0	15.0	
42 Nitrobenzene	77	4.998	4.998	-0.001	91	517130	12.5	8.23	
45 Isophorone	82	5.234	5.234	0.000	99	1078969	12.5	8.85	
46 2-Nitrophenol	139	5.310	5.310	0.000	97	151067	12.5	7.78	
48 2,4-Dimethylphenol	107	5.351	5.351	0.000	96	548822	12.5	9.62	
51 Bis(2-chloroethoxy)methane	93	5.451	5.451	0.000	98	670645	12.5	8.88	
52 2,4-Dichlorophenol	162	5.545	5.551	-0.006	96	413496	12.5	9.62	
53 1,2,4-Trichlorobenzene	180	5.634	5.634	0.000	95	407479	12.5	7.42	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	815872	5.00	5.00	
55 Naphthalene	128	5.716	5.716	0.000	98	1408994	12.5	8.41	
57 4-Chloroaniline	127	5.763	5.763	0.000	96	635783	12.5	8.68	
60 Hexachlorobutadiene	225	5.840	5.840	0.000	96	218503	12.5	6.74	
63 Caprolactam	113	6.087	6.092	-0.006	75	75680	12.5	4.14	
66 4-Chloro-3-methylphenol	107	6.245	6.251	-0.006	97	531948	12.5	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
68 2-Methylnaphthalene	142	6.404	6.404	0.000	92	961828	12.5	8.82	
69 1-Methylnaphthalene	142	6.504	6.504	0.000	93	987345	12.5	8.72	
71 Hexachlorocyclopentadiene	237	6.563	6.558	0.000	95	132556	12.5	3.39	
72 1,2,4,5-Tetrachlorobenzene	216	6.569	6.564	0.000	97	505805	12.5	8.15	
74 2,4,6-Trichlorophenol	196	6.681	6.675	0.000	77	341507	12.5	10.9	
75 2,4,5-Trichlorophenol	196	6.716	6.711	0.000	95	448921	12.5	11.1	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2325619	25.0	16.5	
78 1,1'-Biphenyl	154	6.869	6.863	0.000	96	1441847	12.5	9.38	
79 2-Chloronaphthalene	162	6.887	6.881	-0.001	97	1085888	12.5	8.58	
82 2-Nitroaniline	138	6.987	6.981	-0.001	83	355090	12.5	10.5	
86 Dimethyl phthalate	163	7.169	7.169	-0.006	99	616207	12.5	4.24	
88 2,6-Dinitrotoluene	165	7.228	7.222	0.000	92	306474	12.5	11.0	
89 Acenaphthylene	152	7.292	7.293	-0.006	98	1985297	12.5	10.4	
90 3-Nitroaniline	138	7.386	7.387	-0.006	92	338835	12.5	10.7	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	521994	5.00	5.00	
93 Acenaphthene	153	7.469	7.463	0.000	96	1261925	12.5	9.72	
94 2,4-Dinitrophenol	184	7.492	7.486	0.000	81	190381	25.0	29.9	
95 4-Nitrophenol	109	7.551	7.551	-0.006	96	296311	25.0	17.2	
98 2,4-Dinitrotoluene	165	7.622	7.616	0.000	94	452421	12.5	12.3	
97 Dibenzofuran	168	7.639	7.633	-0.001	96	1874928	12.5	10.3	
101 2,3,4,6-Tetrachlorophenol	232	7.757	7.757	-0.006	73	322458	12.5	9.28	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1199167	12.5	8.19	
105 Fluorene	166	7.975	7.974	-0.006	93	1586190	12.5	10.6	
108 4-Chlorophenyl phenyl ether	204	7.981	7.974	0.000	92	794647	12.5	10.7	
109 4-Nitroaniline	138	7.986	7.986	-0.006	82	397362	12.5	11.2	
110 4,6-Dinitro-2-methylphenol	198	8.022	8.022	-0.006	82	319084	25.0	30.3	
111 N-Nitrosodiphenylamine	169	8.092	8.093	-0.006	72	1219518	10.6	10.2	
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	422099	25.0	19.3	
118 4-Bromophenyl phenyl ether	248	8.463	8.457	0.000	67	501378	12.5	11.2	
120 Hexachlorobenzene	284	8.516	8.510	0.000	95	576899	12.5	10.8	
122 Atrazine	200	8.622	8.622	-0.006	92	468380	12.5	11.0	
123 Pentachlorophenol	266	8.710	8.710	-0.006	93	535594	25.0	21.7	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	1005653	5.00	5.00	
129 Phenanthrene	178	8.922	8.916	0.000	98	2549827	12.5	11.4	
130 Anthracene	178	8.975	8.969	0.000	97	2590659	12.5	11.8	
131 Carbazole	167	9.128	9.127	-0.006	96	2458597	12.5	11.9	
133 Di-n-butyl phthalate	149	9.480	9.474	-0.001	100	2454502	12.5	11.1	
138 Fluoranthene	202	10.092	10.085	0.000	97	2926372	12.5	11.7	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1082512	5.00	5.00	
141 Pyrene	202	10.316	10.316	-0.006	97	3095331	12.5	11.7	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4496622	25.0	25.6	
146 Butyl benzyl phthalate	149	11.033	11.027	0.000	98	744659	12.5	7.65	
149 3,3'-Dichlorobenzidine	252	11.674	11.668	-0.001	73	1993831	25.0	20.0	
148 Benzo[a]anthracene	228	11.698	11.697	-0.006	98	3119823	12.5	12.1	
151 Chrysene	228	11.745	11.744	-0.006	96	3146571	12.5	12.6	
152 Bis(2-ethylhexyl) phthalate	149	11.769	11.762	0.000	97	1709228	12.5	11.5	
154 Di-n-octyl phthalate	149	12.686	12.681	0.000	99	2575049	12.5	11.0	
155 Benzo[b]fluoranthene	252	13.192	13.192	-0.006	97	2849102	12.5	11.0	
157 Benzo[k]fluoranthene	252	13.233	13.233	-0.006	99	3297913	12.5	12.8	
158 Benzo[a]pyrene	252	13.668	13.657	-0.001	76	2852009	12.5	12.4	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1042765	5.00	5.00	
163 Indeno[1,2,3-cd]pyrene	276	15.451	15.451	-0.006	99	2675396	12.5	12.7	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
164 Dibenz(a,h)anthracene	278	15.498	15.497	-0.006	91	2826868	12.5	13.3	
165 Benzo[g,h,i]perylene	276	15.939	15.938	-0.006	98	2676861	12.5	12.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:12 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0905.D

Injection Date: 09-Jul-2025 11:36:30 Instrument ID: HP18831 Operator ID: eea115318_kel10217

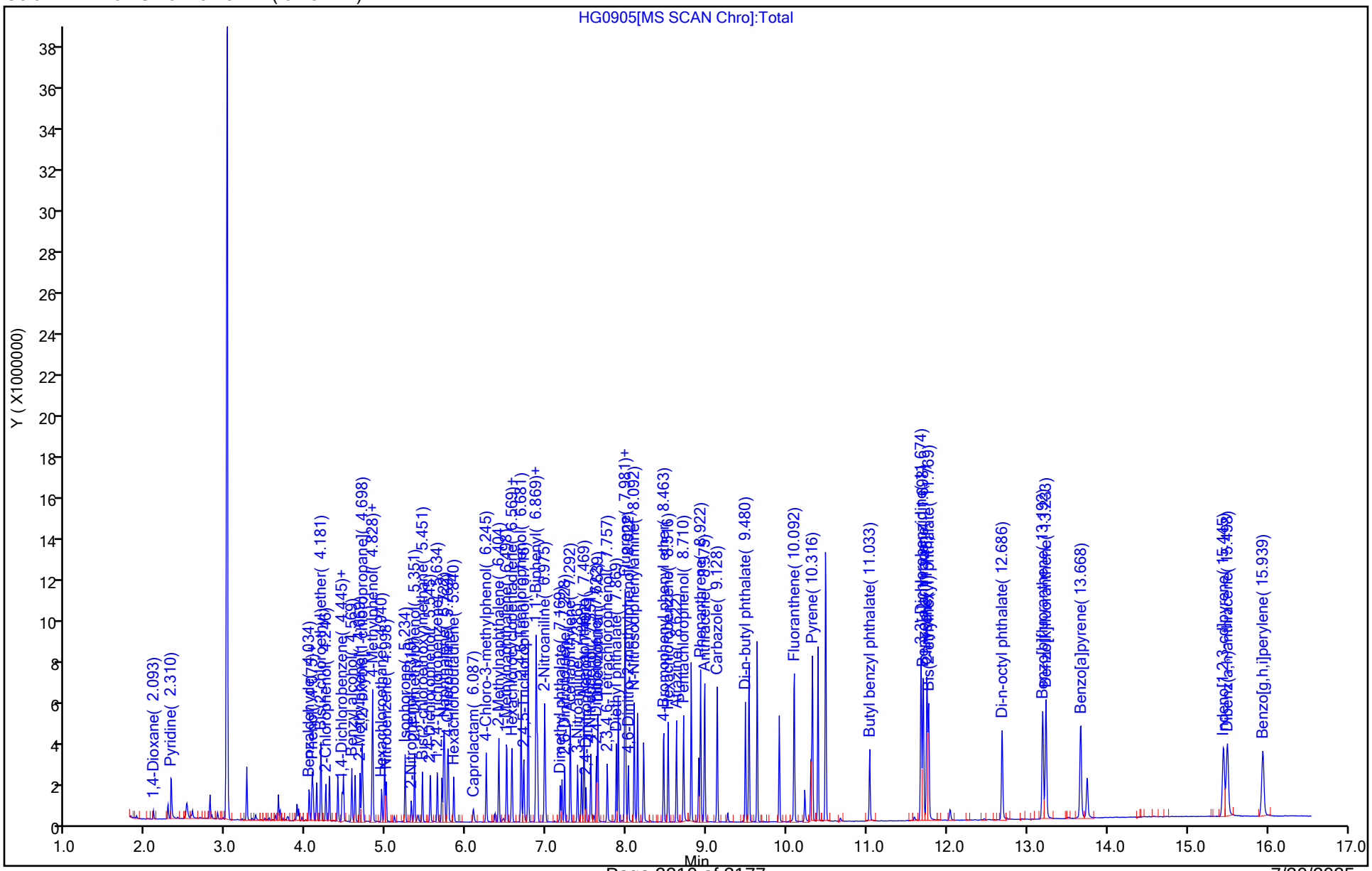
Lims ID: LCS 410-666606/2-A Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 5

Method: MSSemi_HP18831 Limit Group: MSSV - 8270D_E LVI

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0905.D				
Lims ID:	LCS 410-666606/2-A				
Client ID:					
Sample Type:	LCS				
Inject. Date:	09-Jul-2025 11:36:30	ALS Bottle#:	5	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCS 410-666606/2-A				
Misc. Info.:	410-0152870-011				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:13:53	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 12:53:56

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.4	49.62
$ 16 Phenol-d5	25.0	9.80	39.19
$ 41 Nitrobenzene-d5	25.0	15.0	59.87
$ 76 2-Fluorobiphenyl (Surr)	25.0	16.5	66.03
$ 113 2,4,6-Tribromophenol	25.0	19.3	77.16
$ 142 p-Terphenyl-d14	25.0	25.6	102.30

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID:
Lab Sample ID: LCSD 410-666257/3-A

Matrix: Water
Lab File ID: HF0307.D

Analysis Method: 8270D
Date Collected:

Extract. Method: 3510C
Date Extracted: 07/02/2025 15:31

Sample wt/vol: 250(mL)
Date Analyzed: 07/03/2025 15:10

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 666539
Units: ug/L

Preparation Batch No.: 666257
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	48.37		10.0	1.00
84-66-2	Diethyl phthalate	42.84		5.00	2.00
606-20-2	2,6-Dinitrotoluene	43.12		10.0	1.00

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	75		13-134
321-60-8	2-Fluorobiphenyl (Surr)	64		45-120
367-12-4	2-Fluorophenol (Surr)	51		10-120
4165-60-0	Nitrobenzene-d5 (Surr)	69		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	92		26-123
4165-62-2	Phenol-d5 (Surr)	38		10-120

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0307.D
Lims ID: LCSD 410-666257/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 03-Jul-2025 15:10:30 ALS Bottle#: 8 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCSD 410-666257/3-A
Misc. Info.: 410-0152352-022
Operator ID: EEA115318_KEL10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 07-Jul-2025 11:27:34 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1664

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	277788	25.0	12.7	
$ 16 Phenol-d5	99	4.075	4.069	0.006	97	290132	25.0	9.53	
* 23 1,4-Dichlorobenzene-d4	152	4.451	4.446	0.005	96	91690	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	92	508766	25.0	17.2	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	99	414161	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	0.000	100	1246787	25.0	15.9	
88 2,6-Dinitrotoluene	165	7.228	7.228	0.000	93	166920	12.5	10.8	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	289681	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.622	0.000	93	247432	12.5	12.1	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	869954	12.5	10.7	
$ 113 2,4,6-Tribromophenol	330	8.216	8.216	0.000	95	227027	25.0	18.7	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	613354	5.00	5.00	
129 Phenanthrene	178	8.922	8.922	0.000	98	1424152	12.5	10.4	
* 140 Pyrene-d10 (IS)	212	10.298	10.298	0.000	98	726973	5.00	5.00	
141 Pyrene	202	10.316	10.322	-0.006	98	1903178	12.5	10.7	
$ 142 p-Terphenyl-d14	244	10.486	10.486	0.000	98	2710420	25.0	23.0	
151 Chrysene	228	11.751	11.751	0.000	96	2105568	12.5	12.5	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	847541	5.00	5.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

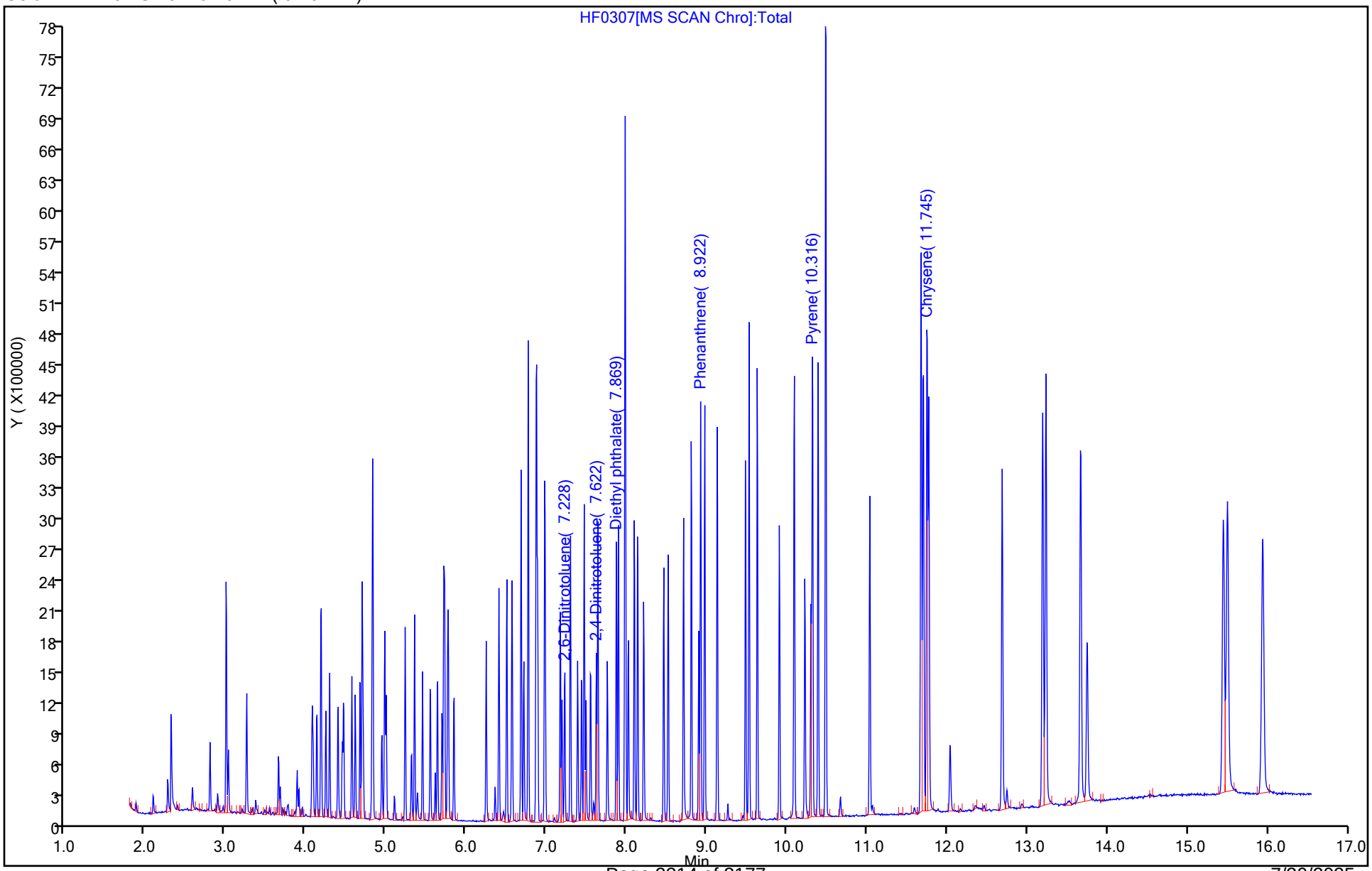
Report Date: 07-Jul-2025 11:28:28 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0307.D

Injection Date:	03-Jul-2025 15:10:30	Instrument ID:	HP18831	Operator ID:	EEA115318_KEL10217
Lims ID:	LCSD 410-666257/3-A			Worklist Smp#:	22
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\HF0307.D				
Lims ID:	LCSD 410-666257/3-A				
Client ID:					
Sample Type:	LCSD				
Inject. Date:	03-Jul-2025 15:10:30	ALS Bottle#:	8	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	LCSD 410-666257/3-A				
Misc. Info.:	410-0152352-022				
Operator ID:	EEA115318_KEL10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250703-152352.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	07-Jul-2025 11:27:34	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1664				

First Level Reviewer: W6ZA Date: 07-Jul-2025 11:16:28

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	12.7	50.79
$ 16 Phenol-d5	25.0	9.53	38.12
$ 41 Nitrobenzene-d5	25.0	17.2	68.90
$ 76 2-Fluorobiphenyl (Surr)	25.0	15.9	63.79
$ 113 2,4,6-Tribromophenol	25.0	18.7	74.79
$ 142 p-Terphenyl-d14	25.0	23.0	91.82

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MS
Lab Sample ID: 410-229895-4 MS

Matrix: Water
Lab File ID: HG0912.D

Analysis Method: 8270D
Date Collected: 06/26/2025 09:45

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 245.3(mL)
Date Analyzed: 07/09/2025 14:55

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture:
% Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	50.98		10.2	1.02
84-66-2	Diethyl phthalate	43.39		5.10	2.04
606-20-2	2,6-Dinitrotoluene	47.70		10.2	1.02

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	71		45-120
4165-60-0	Nitrobenzene-d5 (Surr)	76		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	101		26-123

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0912.D
Lims ID: 410-229895-H-4-B MS
Client ID: 16WC1A
Sample Type: MS
Inject. Date: 09-Jul-2025 14:55:30 ALS Bottle#: 12 Worklist Smp#: 16
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-H-4-B MS
Misc. Info.: 410-0152870-016
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	95	265351	25.0	6.22	
$ 16 Phenol-d5	99	4.075	4.075	0.000	95	254173	25.0	4.28	
* 23 1,4-Dichlorobenzene-d4	152	4.446	4.446	0.000	97	178766	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1066594	25.0	19.0	
* 54 Naphthalene-d8	136	5.693	5.693	0.000	100	785065	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2510793	25.0	17.8	
88 2,6-Dinitrotoluene	165	7.228	7.222	0.000	93	326077	12.5	11.7	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	93	521358	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.616	0.000	94	460478	12.5	12.5	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1556027	12.5	10.6	
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	95	92860	25.0	4.25	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	999501	5.00	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	98	1088174	5.00	5.00	
$ 142 p-Terphenyl-d14	244	10.480	10.480	-0.006	98	4462378	25.0	25.2	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1073276	5.00	5.00	

QC Flag Legend
Processing Flags

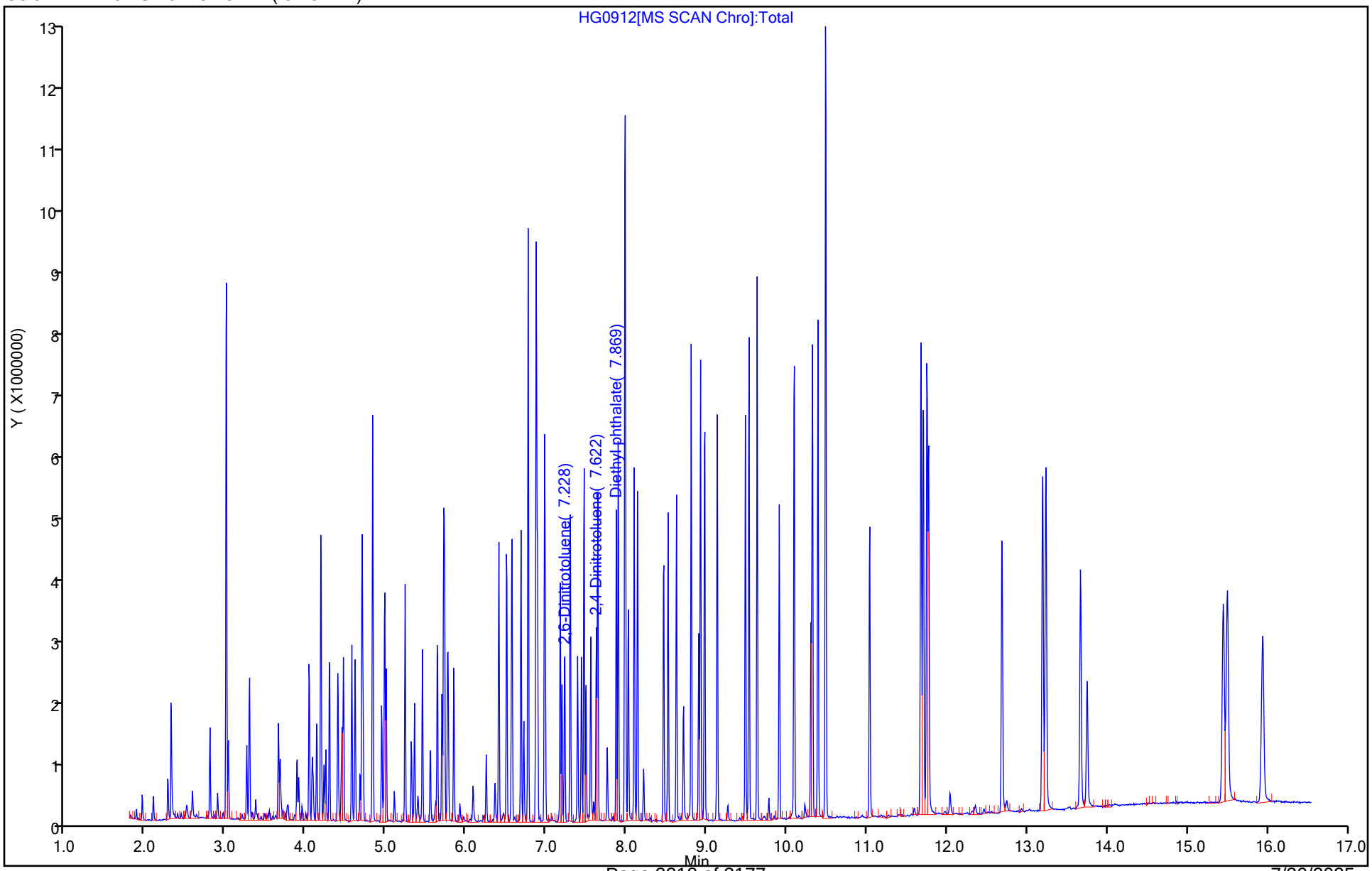
Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 10-Jul-2025 13:14:44 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0912.D				
Injection Date:	09-Jul-2025 14:55:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-4-B MS			Worklist Smp#:	16
Client ID:	16WC1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



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Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0912.D				
Lims ID:	410-229895-H-4-B MS				
Client ID:	16WC1A				
Sample Type:	MS				
Inject. Date:	09-Jul-2025 14:55:30	ALS Bottle#:	12	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-4-B MS				
Misc. Info.:	410-0152870-016				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:08

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	6.22	24.88
$ 16 Phenol-d5	25.0	4.28	17.13
$ 41 Nitrobenzene-d5	25.0	19.0	76.20
$ 76 2-Fluorobiphenyl (Surr)	25.0	17.8	71.37
$ 113 2,4,6-Tribromophenol	25.0	4.25	17.00
$ 142 p-Terphenyl-d14	25.0	25.2	100.99

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Client Sample ID: 16WC1A MSD
Lab Sample ID: 410-229895-4 MSD

Matrix: Water
Lab File ID: HG0913.D

Analysis Method: 8270D
Date Collected: 06/26/2025 09:45

Extract. Method: 3510C
Date Extracted: 07/03/2025 08:30

Sample wt/vol: 246.9(mL)
Date Analyzed: 07/09/2025 15:17

Con. Extract Vol.: 1(mL)
Dilution Factor: 1

Injection Volume: 1(uL)
GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)

% Moisture: % Solids:
GPC Cleanup:(Y/N) N

Cleanup Factor:
Level: (low/med) Low

Analysis Batch No.: 668774
Units: ug/L

Preparation Batch No.: 666606
Instrument ID: HP18831

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
121-14-2	2,4-Dinitrotoluene	53.68		10.1	1.01
84-66-2	Diethyl phthalate	46.99		5.06	2.03
606-20-2	2,6-Dinitrotoluene	49.91		10.1	1.01

CAS NO.	SURROGATE	%REC	Q	LIMITS
321-60-8	2-Fluorobiphenyl (Surr)	77		45-120
4165-60-0	Nitrobenzene-d5 (Surr)	82		33-120
1718-51-0	p-Terphenyl-d14 (Surr)	102		26-123

Eurofins Lancaster Laboratories Environment Testing, LLC
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0913.D
Lims ID: 410-229895-H-4-C MSD
Client ID: 16WC1A
Sample Type: MSD
Inject. Date: 09-Jul-2025 15:17:30 ALS Bottle#: 13 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 410-229895-H-4-C MSD
Misc. Info.: 410-0152870-017
Operator ID: eea115318_kel10217 Instrument ID: HP18831

Method: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m
Limit Group: MSSV - 8270D_E LVI
Last Update: 10-Jul-2025 13:14:23 Calib Date: 28-Jun-2025 03:19:30
Integrator: Falcon ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D

Column 1 : DB-5MS 20m 0.25mm (0.25 mm) Det: MS SCAN
Process Host: CTX1672

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
$ 10 2-Fluorophenol	112	3.257	3.257	0.000	94	296128	25.0	6.81	
$ 16 Phenol-d5	99	4.075	4.075	0.000	96	340400	25.0	5.63	
* 23 1,4-Dichlorobenzene-d4	152	4.445	4.446	-0.001	97	182239	5.00	5.00	
$ 41 Nitrobenzene-d5	82	4.981	4.981	0.000	91	1141653	25.0	20.4	
* 54 Naphthalene-d8	136	5.692	5.693	-0.001	100	783446	5.00	5.00	
$ 76 2-Fluorobiphenyl (Surr)	172	6.769	6.769	-0.006	100	2622193	25.0	19.2	
88 2,6-Dinitrotoluene	165	7.228	7.222	0.000	94	332813	12.5	12.3	
* 91 Acenaphthene-d10	164	7.434	7.440	-0.006	94	505278	5.00	5.00	
98 2,4-Dinitrotoluene	165	7.622	7.616	0.000	95	472996	12.5	13.3	
104 Diethyl phthalate	149	7.869	7.868	-0.006	98	1643655	12.5	11.6	
$ 113 2,4,6-Tribromophenol	330	8.210	8.209	-0.006	96	138305	25.0	6.53	
* 127 Phenanthrene-d10	188	8.898	8.904	-0.006	97	987547	5.00	5.00	
* 140 Pyrene-d10 (IS)	212	10.298	10.304	-0.006	99	1061851	5.00	5.00	
$ 142 p-Terphenyl-d14	244	10.486	10.480	0.000	98	4379299	25.0	25.4	
* 159 Perylene-d12	264	13.745	13.751	-0.006	99	1002992	5.00	5.00	

QC Flag Legend
Processing Flags

Reagents:
MSS_RV8270_IS_00111 Amount Added: 20.00 Units: uL Run Reagent

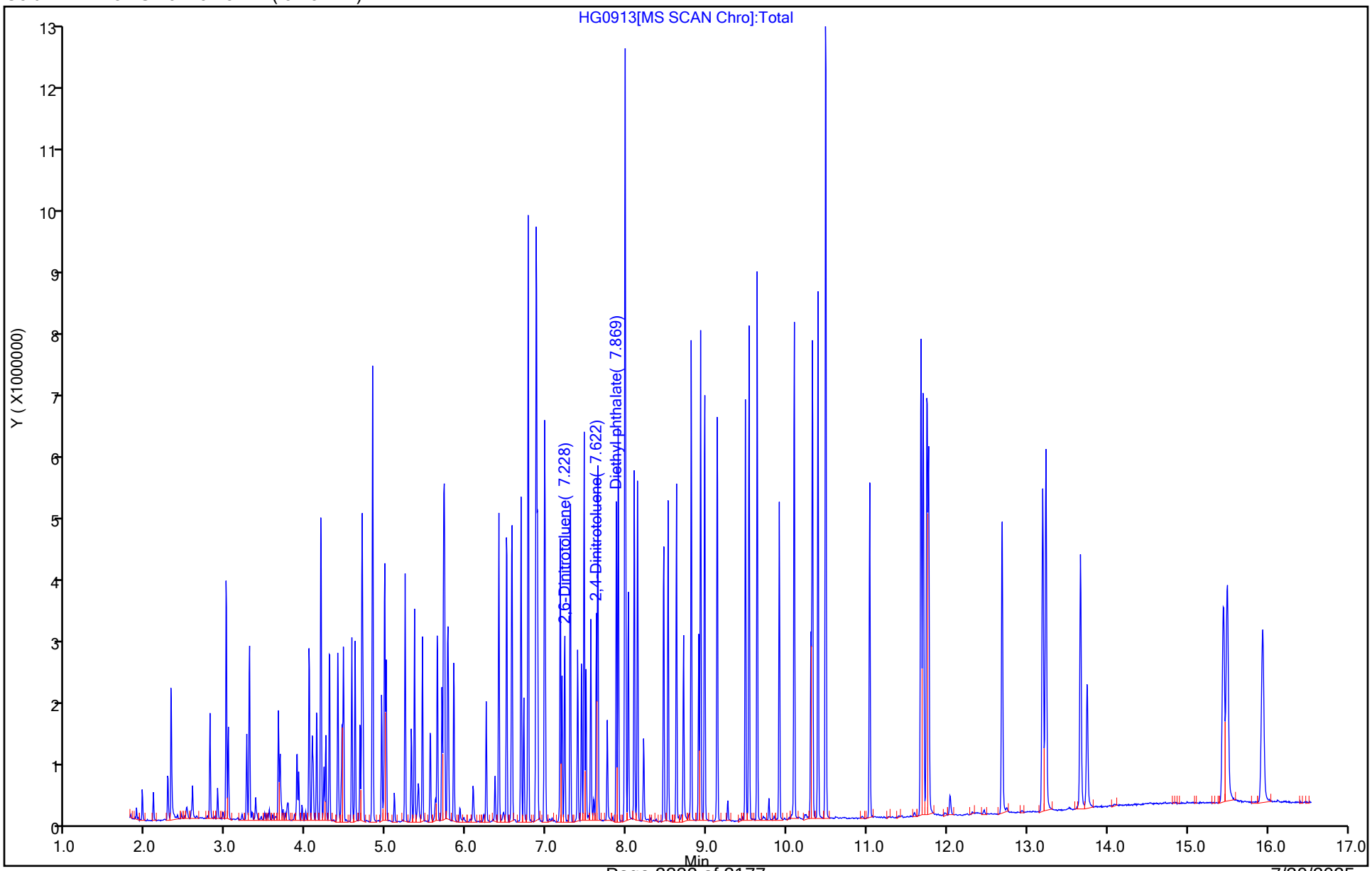
Report Date: 10-Jul-2025 13:14:47 Chrom Revision: 2.3 14-Jun-2025 12:06:34

Eurofins Lancaster Laboratories Environment Testing, LLC

Data File: \\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0913.D

Injection Date:	09-Jul-2025 15:17:30	Instrument ID:	HP18831	Operator ID:	eea115318_kel10217
Lims ID:	410-229895-H-4-C MSD			Worklist Smp#:	17
Client ID:	16WC1A				
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	MSSemi_HP18831	Limit Group:	MSSV - 8270D_E LVI		

Column: DB-5MS 20m 0.25mm (0.25 mm)



7/30/2025
1:47:08 PM

Eurofins Lancaster Laboratories Environment Testing, LLC

Recovery Report

Data File:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\HG0913.D				
Lims ID:	410-229895-H-4-C MSD				
Client ID:	16WC1A				
Sample Type:	MSD				
Inject. Date:	09-Jul-2025 15:17:30	ALS Bottle#:	13	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	410-229895-H-4-C MSD				
Misc. Info.:	410-0152870-017				
Operator ID:	eea115318_kel10217	Instrument ID:	HP18831		
Method:	\\chromfs\Lancaster\ChromData\HP18831\20250709-152870.b\MSSemi_HP18831.m				
Limit Group:	MSSV - 8270D_E LVI				
Last Update:	10-Jul-2025 13:14:23	Calib Date:	28-Jun-2025 03:19:30		
Integrator:	Falcon	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Lancaster\ChromData\HP18831\20250627-151855.b\HF2764.D				
Column 1 :	DB-5MS 20m 0.25mm (0.25 mm)		Det: MS SCAN		
Process Host:	CTX1672				

First Level Reviewer: W6ZA Date: 10-Jul-2025 13:00:27

Compound	Amount Added	Amount Recovered	% Rec.
$ 10 2-Fluorophenol	25.0	6.81	27.24
$ 16 Phenol-d5	25.0	5.63	22.51
$ 41 Nitrobenzene-d5	25.0	20.4	81.73
$ 76 2-Fluorobiphenyl (Surr)	25.0	19.2	76.91
$ 113 2,4,6-Tribromophenol	25.0	6.53	26.12
$ 142 p-Terphenyl-d14	25.0	25.4	101.57

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 06/23/2025 19:52

Analysis Batch Number: 661633 End Date: 06/24/2025 04:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-661633/1		06/23/2025 19:52	1	HF2350.D	DB-5MS 30m 0.25 0.25(mm)
ICIS 410-661633/2		06/23/2025 20:42	1	HF2351.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/3		06/23/2025 21:24	1	HF2352.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/4		06/23/2025 21:46	1	HF2353.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/5		06/23/2025 22:08	1	HF2354.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/6		06/23/2025 22:30	1	HF2355.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/7		06/23/2025 22:52	1	HF2356.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/8		06/23/2025 23:14	1	HF2357.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/9		06/23/2025 23:36	1	HF2358.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-661633/10		06/23/2025 23:58	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-661633/11		06/24/2025 00:20	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-661633/12		06/24/2025 00:42	1	HF2361.D	DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/15		06/24/2025 01:48	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/16		06/24/2025 02:10	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/17		06/24/2025 02:32	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/18		06/24/2025 02:54	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/19		06/24/2025 03:16	1		DB-5MS 30m 0.25 0.25(mm)
IC 410-661633/20		06/24/2025 03:38	1		DB-5MS 30m 0.25 0.25(mm)
ICVL 410-661633/21		06/24/2025 04:00	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-661633/22		06/24/2025 04:22	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831

Start Date: 06/24/2025 09:59

Analysis Batch Number: 661953

End Date: 06/24/2025 14:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-661953/1		06/24/2025 09:59	1	HF2400.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-661953/2		06/24/2025 10:21	1		DB-5MS 30m 0.25 0.25(mm)
ICV 410-661953/3		06/24/2025 11:42	1	HF2403.D	DB-5MS 30m 0.25 0.25(mm)
ICV 410-661953/4		06/24/2025 12:04	1	HF2404.D	DB-5MS 30m 0.25 0.25(mm)
CCV 410-661953/27		06/24/2025 12:27	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 12:49	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 13:11	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 13:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 13:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		06/24/2025 14:17	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 07/03/2025 11:39

Analysis Batch Number: 666539 End Date: 07/03/2025 23:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-666539/1		07/03/2025 11:39	1	HF0300a.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-666539/2		07/03/2025 12:04	1	HF0301a.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/03/2025 13:44	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/03/2025 14:06	1		DB-5MS 30m 0.25 0.25(mm)
MB 410-666257/1-A		07/03/2025 14:27	1	HF0305.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-666257/2-A		07/03/2025 14:48	1	HF0306.D	DB-5MS 30m 0.25 0.25(mm)
LCSD 410-666257/3-A		07/03/2025 15:10	1	HF0307.D	DB-5MS 30m 0.25 0.25(mm)
CCVC 410-666539/19		07/03/2025 20:11	1	HF0321.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 20:32	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 20:54	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 21:15	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 21:36	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 21:58	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/03/2025 22:19	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-2	16MW8	07/03/2025 22:40	1	HF0328.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-7	16-2	07/03/2025 23:01	1	HF0329.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-8	16-3	07/03/2025 23:23	1	HF0330.D	DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 07/08/2025 20:14

Analysis Batch Number: 668512 End Date: 07/09/2025 07:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-668512/1		07/08/2025 20:14	1	HG0850.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-668512/2		07/08/2025 20:38	1	HG0851.D	DB-5MS 30m 0.25 0.25(mm)
CCV 410-668512/4		07/08/2025 21:06	1	HG0852.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/08/2025 21:48	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/08/2025 22:10	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/08/2025 22:31	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/08/2025 23:35	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/08/2025 23:56	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 00:17	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 00:39	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 01:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 01:22	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 01:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 02:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 02:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 02:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 03:08	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-9	16-5	07/09/2025 03:30	1	HG0870.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-10	16WC2B	07/09/2025 03:51	1	HG0871.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-11	16SPRING	07/09/2025 04:12	1	HG0872.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 04:33	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 04:55	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 05:16	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 05:37	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 05:59	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 06:20	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 06:41	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 07:03	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 07:24	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: HP18831 Start Date: 07/09/2025 09:05

Analysis Batch Number: 668774 End Date: 07/09/2025 21:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-668774/1		07/09/2025 09:05	1	HG0900.D	DB-5MS 30m 0.25 0.25(mm)
CCVIS 410-668774/2		07/09/2025 09:26	1	HG0901.D	DB-5MS 30m 0.25 0.25(mm)
ICVL 410-668774/39		07/09/2025 10:32	1		DB-5MS 30m 0.25 0.25(mm)
MB 410-666606/1-A		07/09/2025 11:15	1	HG0904.D	DB-5MS 30m 0.25 0.25(mm)
LCS 410-666606/2-A		07/09/2025 11:36	1	HG0905.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 13:30	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 13:51	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 14:12	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-4	16WC1A	07/09/2025 14:34	1	HG0911.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-4 MS	16WC1A MS	07/09/2025 14:55	1	HG0912.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-4 MSD	16WC1A MSD	07/09/2025 15:17	1	HG0913.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 15:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 16:00	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (QC)		07/09/2025 16:21	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 16:43	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:04	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:26	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 17:47	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:09	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:30	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 18:52	1		DB-5MS 30m 0.25 0.25(mm)
410-229895-1	16C1	07/09/2025 19:13	1	HG0924.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-3	16MW9	07/09/2025 19:34	1	HG0925.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-5	16WDUP	07/09/2025 19:56	1	HG0926.D	DB-5MS 30m 0.25 0.25(mm)
410-229895-6	16WC1B	07/09/2025 20:17	1	HG0927.D	DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 20:38	1		DB-5MS 30m 0.25 0.25(mm)
ZZZZZ (Client)		07/09/2025 21:00	1		DB-5MS 30m 0.25 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 661633 Batch Start Date: 06/23/25 19:52 Batch Analyst: Lutte, Kate E

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	MSS_RV8270_1 00043	MSS_RV8270_2 00044	MSS_RV8270_3 00042	MSS_RV8270_4 00041	MSS_RV8270_5 00054
DFTPP 410-661633/1		8270D			1 mL					
ICIS 410-661633/2		8270D			1 mL					
IC 410-661633/3		8270D			1 mL					
IC 410-661633/4		8270D			1 mL					
IC 410-661633/5		8270D			1 mL					1 mL
IC 410-661633/6		8270D			1 mL				1 mL	
IC 410-661633/7		8270D			1 mL			1 mL		
IC 410-661633/8		8270D			1 mL		1 mL			
IC 410-661633/9		8270D			1 mL	1 mL				
ICV 410-661633/12		8270D			1 mL					

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MSS_RV8270_6 00068	MSS_RV8270_7 00045	MSS_RV8270_8 00044	MSS_RV8270ICV 00037	MSS_RVDFTPP 00017	
DFTPP 410-661633/1		8270D							1 mL	
ICIS 410-661633/2		8270D			1 mL					
IC 410-661633/3		8270D					1 mL			
IC 410-661633/4		8270D				1 mL				
IC 410-661633/5		8270D								
IC 410-661633/6		8270D								
IC 410-661633/7		8270D								
IC 410-661633/8		8270D								
IC 410-661633/9		8270D								
ICV 410-661633/12		8270D						1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 661633 Batch Start Date: 06/23/25 19:52 Batch Analyst: Lutte, Kate E

Batch Method: 8270D Batch End Date:

Batch Notes	
Pipette/Syringe/Dispenser ID	Scan internal syringe
Dilution Solution ID	Mecl2: 65052
Vial Lot Number	25110335

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 661953 Batch Start Date: 06/24/25 09:59 Batch Analyst: Lutte, Kate E

Batch Method: 8270D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	FinalAmount	MSS_RVDFTPP 00017	MSS_RVHCPICV 00011	MSS_RVPDAICV 00007		
DFTPP 410-661953/1		8270D			1 mL	1 mL				
ICV 410-661953/3		8270D			1 mL		1 mL			
ICV 410-661953/4		8270D			1 mL			1 mL		

Batch Notes	
Pipette/Syringe/Dispenser ID	Scan internal syringe
Dilution Solution ID	MeCl2: 65052
Vial Lot Number	25110335

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666257 Batch Start Date: 07/02/25 15:31 Batch Analyst: McArdle, Meghan

Batch Method: 3510C Batch End Date: 07/02/25 20:32

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH
MB 410-666257/1		3510C, 8270D					250 mL	1 mL	n/a SU	11 SU
LCS 410-666257/2		3510C, 8270D					250 mL	1 mL	n/a SU	11 SU
LCSD 410-666257/3		3510C, 8270D					250 mL	1 mL	n/a SU	11 SU
410-229895-E-2	16MW8	3510C, 8270D	Water	T	415.61 g	170.50 g	245.1 mL	1 mL	n/a SU	11 SU
410-229895-E-7	16-2	3510C, 8270D	Water	T	416.04 g	168.48 g	247.6 mL	1 mL	n/a SU	11 SU
410-229895-E-8	16-3	3510C, 8270D	Water	T	416.57 g	169.82 g	246.8 mL	1 mL	n/a SU	11 SU
410-229895-E-9	16-5	3510C, 8270D	Water	T	416.44 g	170.40 g	246 mL	1 mL	n/a SU	11 SU
410-229895-E-10	16WC2B	3510C, 8270D	Water	T	414.45 g	167.86 g	246.6 mL	1 mL	n/a SU	11 SU
410-229895-E-11	16SPRING	3510C, 8270D	Water	T	414.86 g	165.94 g	248.9 mL	1 mL	n/a SU	11 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	SecondAdjustpH	OP_MINIBNA_SS 00158	OP_MINLCS1_MS 00275	AnalysisComment		
MB 410-666257/1		3510C, 8270D			2 SU	1 mL		Tap H2O		
LCS 410-666257/2		3510C, 8270D			2 SU	1 mL	1 mL	Tap H2O		
LCSD 410-666257/3		3510C, 8270D			2 SU	1 mL	1 mL	Tap H2O		
410-229895-E-2	16MW8	3510C, 8270D	Water	T	2 SU	1 mL		Clear		
410-229895-E-7	16-2	3510C, 8270D	Water	T	2 SU	1 mL		Clear		
410-229895-E-8	16-3	3510C, 8270D	Water	T	2 SU	1 mL		Clear		
410-229895-E-9	16-5	3510C, 8270D	Water	T	2 SU	1 mL		Clear		
410-229895-E-10	16WC2B	3510C, 8270D	Water	T	2 SU	1 mL		Clear		
410-229895-E-11	16SPRING	3510C, 8270D	Water	T	2 SU	1 mL		Clear		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666257 Batch Start Date: 07/02/25 15:31 Batch Analyst: McArdle, Meghan

Batch Method: 3510C Batch End Date: 07/02/25 20:32

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	6
Analyst ID - Extraction	MM98986 SG115470 AS86224
Analyst ID - Spike Analyst	AS86224
Acid Used for pH Adjustment ID	H2SO4: 244189
Base Used to Adjust pH ID	NaOH: 4404N64
Prep Solvent ID	MeCl2: 65122
Prep Solvent Volume Used	90 mL
Na2SO4 ID	25182A
Analyst ID - Concentration	MM98986 SG115470 AS86224
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	25110335
Pipette Tip Lot ID	N2175000

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666606 Batch Start Date: 07/03/25 08:30 Batch Analyst: Stewart, Hannah

Batch Method: 3510C Batch End Date: 07/03/25 13:51

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH
MB 410-666606/1		3510C, 8270D					250 mL	1 mL	>11 SU	<2 SU
LCS 410-666606/2		3510C, 8270D					250 mL	1 mL	>11 SU	<2 SU
410-229895-H-4 MS	16WC1A	3510C, 8270D	Water	T	415.35 g	170.04 g	245.3 mL	1 mL	>11 SU	<2 SU
410-229895-H-4 MSD	16WC1A	3510C, 8270D	Water	T	416.45 g	169.53 g	246.9 mL	1 mL	>11 SU	<2 SU
410-229895-H-4	16WC1A	3510C, 8270D	Water	T	416.71 g	169.50 g	247.2 mL	1 mL	>11 SU	<2 SU
410-229895-H-1	16C1	3510C, 8270D	Water	T	414.31 g	169.67 g	244.6 mL	1 mL	>11 SU	<2 SU
410-229895-Q-3	16MW9	3510C, 8270D	Water	T	415.56 g	167.87 g	247.7 mL	1 mL	>11 SU	<2 SU
410-229895-E-5	16WDUP	3510C, 8270D	Water	T	416.06 g	168.62 g	247.4 mL	1 mL	>11 SU	<2 SU
410-229895-E-6	16WC1B	3510C, 8270D	Water	T	413.61 g	168.48 g	245.1 mL	1 mL	>11 SU	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	CUPerformed	OP_MINIBNA_SS 00158	OP_MINLCS1_MS 00275	OP_MINLCS2_MS 00165	AnalysisComment	
MB 410-666606/1		3510C, 8270D			N	1 mL			Tap H2O	
LCS 410-666606/2		3510C, 8270D			N	1 mL	1 mL	1 mL	Tap H2O	
410-229895-H-4 MS	16WC1A	3510C, 8270D	Water	T	N	1 mL	1 mL	1 mL	yellow cloudy	
410-229895-H-4 MSD	16WC1A	3510C, 8270D	Water	T	N	1 mL	1 mL	1 mL	yellow cloudy	
410-229895-H-4	16WC1A	3510C, 8270D	Water	T	N	1 mL			yellow cloudy	
410-229895-H-1	16C1	3510C, 8270D	Water	T	N	1 mL			clear	
410-229895-Q-3	16MW9	3510C, 8270D	Water	T	N	1 mL			pale yellow tint	
410-229895-E-5	16WDUP	3510C, 8270D	Water	T	N	1 mL			pale yellow tint	
410-229895-E-6	16WC1B	3510C, 8270D	Water	T	N	1 mL			pale yellow tint	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 666606 Batch Start Date: 07/03/25 08:30 Batch Analyst: Stewart, Hannah

Batch Method: 3510C Batch End Date: 07/03/25 13:51

Batch Notes	
Balance ID	93158
Balance is Level? (Y/N)	yes
Pipette/Syringe/Dispenser ID	6
Analyst ID - Extraction	HAS95678, AL105933
Analyst ID - Spike Analyst	HAS95678, AL105933
Acid Used for pH Adjustment ID	H2SO4 244189
Base Used to Adjust pH ID	NaOH 4404N64
Prep Solvent ID	MeCL2 65122
Prep Solvent Volume Used	90 mL
Na2SO4 ID	25182A
Analyst ID - Concentration	HAS95678, AL105933
Equipment ID - Concentration 1	Buchi
Concentration 1 Corrected Temperature	55 Degrees C
Vial Lot Number	25110628
Pipette Tip Lot ID	N2175000

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 410-229895-1

SDG No.:

Project: RFAAP, Radford HWMU16

Client Sample ID	Lab Sample ID
16C1	410-229895-1
16MW8	410-229895-2
16MW9	410-229895-3
16WC1A	410-229895-4
16WDUP	410-229895-5
16WC1B	410-229895-6
16-2	410-229895-7
16-3	410-229895-8
16-5	410-229895-9
16WC2B	410-229895-10
16SPRING	410-229895-11

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16C1 | Lab Sample ID: 410-229895-1

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG ID.:

Matrix: Water | Date Sampled: 06/26/2025 12:15

Reporting Basis: WET | Date Received: 06/27/2025 09:35

Preparation Batch Number: 668919 | Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16C1
Lab Sample ID: 410-229895-1
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 12:15
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	200	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16MW8 | Lab Sample ID: 410-229895-2

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG ID.:

Matrix: Water | Date Sampled: 06/25/2025 12:05

Reporting Basis: WET | Date Received: 06/27/2025 09:35

Preparation Batch Number: 668919 | Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16MW8
Lab Sample ID: 410-229895-2
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 12:05
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	120	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	16	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	34	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16MW9 | Lab Sample ID: 410-229895-3

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG ID.:

Matrix: Water | Date Sampled: 06/26/2025 11:00

Reporting Basis: WET | Date Received: 06/27/2025 09:35

Preparation Batch Number: 668919 | Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16MW9
Lab Sample ID: 410-229895-3
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 11:00
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	650	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	5.4	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	12	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 09:45
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16WC1A
Lab Sample ID: 410-229895-4
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 09:45
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	360	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	12	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	10	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 09:00
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16WDUP
Lab Sample ID: 410-229895-5
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 09:00
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	360	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	11	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 11:20
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16WC1B
Lab Sample ID: 410-229895-6
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/26/2025 11:20
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	130	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 11:15
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16-2
Lab Sample ID: 410-229895-7
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 11:15
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	250	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16-3
Lab Sample ID: 410-229895-8
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 13:00
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16-3
Lab Sample ID: 410-229895-8
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 13:00
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	770	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16-5
Lab Sample ID: 410-229895-9
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 09:15
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16-5
Lab Sample ID: 410-229895-9
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 09:15
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	180	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16WC2B
Lab Sample ID: 410-229895-10
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 10:20
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16WC2B
Lab Sample ID: 410-229895-10
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 10:20
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	120	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 09:25
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 668919
Instrument ID: M10 - 31820

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7439-97-6	Mercury	ND	2.0		ug/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: 16SPRING
Lab Sample ID: 410-229895-11
Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1
SDG ID.:
Matrix: Water
Date Sampled: 06/25/2025 09:25
Reporting Basis: WET
Date Received: 06/27/2025 09:35
Preparation Batch Number: 665887
Instrument ID: E08 - 30647

CAS No.	Analyte	Result	RL		Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	10		ug/L			1	6020B
7440-39-3	Barium	230	10		ug/L			1	6020B
7440-41-7	Beryllium	ND	1.0		ug/L			1	6020B
7440-43-9	Cadmium	ND	1.0		ug/L			1	6020B
7440-47-3	Chromium	ND	5.0		ug/L			1	6020B
7440-48-4	Cobalt	ND	5.0		ug/L			1	6020B
7440-50-8	Copper	ND	5.0		ug/L			1	6020B
7439-92-1	Lead	ND	3.0		ug/L			1	6020B
7440-02-0	Nickel	ND	10		ug/L			1	6020B
7440-22-4	Silver	ND	2.0		ug/L			1	6020B
7440-62-2	Vanadium	ND	10		ug/L			1	6020B
7440-66-6	Zinc	ND	30		ug/L			1	6020B

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

ICV Source: MT_MJ_ICV_00140 Concentration Units: ug/L

CCV Source: MT_MJ_CCV_00229

Analyte	ICV 410-669799/4 07/10/2025 09:12				CCV 410-669799/12 07/10/2025 16:16				CCV 410-669799/34 07/10/2025 17:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	246		250	98	250		250	100	246		250	98
Barium	253		250	101	251		250	100	243		250	97
Beryllium	25.0		25.0	100	24.9		25.0	100	24.4		25.0	98
Cadmium	26.8		25.0	107	25.9		25.0	104	25.2		25.0	101
Chromium	258		250	103	257		250	103	246		250	98
Cobalt	261		250	104	257		250	103	245		250	98
Copper	255		250	102	256		250	102	247		250	99
Lead	25.0		25.0	100	24.8		25.0	99	24.9		25.0	100
Nickel	261		250	104	256		250	102	246		250	98
Silver	24.5		25.0	98	25.5		25.0	102	24.1		25.0	97
Vanadium	259		250	104	257		250	103	246		250	98
Zinc	253		250	101	255		250	102	245		250	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

ICV Source: MT_MJ_ICV_00140 Concentration Units: ug/L

CCV Source: MT_MJ_CCV_00229

Analyte	CCV 410-669799/44 07/10/2025 17:45				CCV 410-669799/54 07/10/2025 18:11							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Arsenic	248		250	99	255		250	102				
Barium	251		250	100	248		250	99				
Beryllium	24.4		25.0	98	24.9		25.0	100				
Cadmium	25.6		25.0	102	25.9		25.0	103				
Chromium	255		250	102	253		250	101				
Cobalt	251		250	100	252		250	101				
Copper	250		250	100	256		250	102				
Lead	24.8		25.0	99	25.2		25.0	101				
Nickel	250		250	100	252		250	101				
Silver	24.9		25.0	100	24.9		25.0	100				
Vanadium	252		250	101	255		250	102				
Zinc	251		250	101	258		250	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

ICV Source: Hg_1Control_00262 Concentration Units: ug/L

CCV Source: Hg_1Cal_00262

Analyte	ICV 410-668254/7-A 07/14/2025 19:22				CCV 410-668254/11-A 07/14/2025 19:28				CCV 410-668254/11-A 07/14/2025 19:50			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.54		2.50	102	1.01		1.00	101	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

ICV Source: Hg_1Control_00262 Concentration Units: ug/L

CCV Source: Hg_1Cal_00262

Analyte	CCV 410-668254/11-A 07/14/2025 20:13				CCV 410-668254/11-A 07/14/2025 20:36							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	1.02		1.00	102	0.986		1.00	99				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Method: 6020B Instrument ID: E08 - 30647

Lab Sample ID: CRI 410-669799/6 Concentration Units: ug/L

CRQL Check Standard Source: MT_MJ_CRI-V_00218

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	2.02	2.05		101	80-120
Barium	1.99	1.84	J	92	80-120
Beryllium	0.499	0.511		102	80-120
Cadmium	0.496	0.595		120	80-120
Chromium	2.00	2.26		113	80-120
Cobalt	0.504	0.598		119	80-120
Copper	0.999	1.07		107	80-120
Lead	0.503	0.513		102	80-120
Nickel	1.00	1.09		109	80-120
Silver	0.496	0.502		101	80-120
Vanadium	2.00	2.08	J	104	80-120
Zinc	10.0	10.5		105	80-120

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Method: 7470A Instrument ID: M10 - 31820

Lab Sample ID: CRA 410-668254/8-A Concentration Units: ug/L

CRQL Check Standard Source: Hg_0.1Control_00276

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.235		118	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 410-669799/5 07/10/2025 09:19		CCB 410-669799/13 07/10/2025 16:20		CCB 410-669799/35 07/10/2025 17:23		CCB 410-669799/45 07/10/2025 17:49	
		Found	C	Found	C	Found	C	Found	C
Arsenic	2.0	ND		ND		ND		ND	
Barium	2.0	ND		ND		ND		ND	
Beryllium	0.50	ND		ND		ND		ND	
Cadmium	0.50	ND		ND		ND		ND	
Chromium	2.0	ND		ND		ND		ND	
Cobalt	0.50	ND		ND		ND		ND	
Copper	1.0	ND		ND		ND		ND	
Lead	0.50	ND		ND		ND		ND	
Nickel	1.0	ND		ND		ND		ND	
Silver	0.50	ND		ND		ND		ND	
Vanadium	4.0	ND		ND		ND		ND	
Zinc	10	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 410-669799/55 07/10/2025 18:16							
		Found	C	Found	C	Found	C	Found	C
Arsenic	2.0	0.727	J						
Barium	2.0	ND							
Beryllium	0.50	ND							
Cadmium	0.50	ND							
Chromium	2.0	ND							
Cobalt	0.50	ND							
Copper	1.0	ND							
Lead	0.50	ND							
Nickel	1.0	ND							
Silver	0.50	ND							
Vanadium	4.0	ND							
Zinc	10	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 410-668254/9-A 07/14/2025 19:24		CCB 410-668254/10-A 07/14/2025 19:30		CCB 410-668254/10-A 07/14/2025 19:52		CCB 410-668254/10-A 07/14/2025 20:15	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	CCB 410-668254/10-A 07/14/2025 20:38							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 410-665887/1-A

Instrument Code: E08 - 30647 Batch No.: 669799

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND			6020B
7440-39-3	Barium	ND			6020B
7440-41-7	Beryllium	ND			6020B
7440-43-9	Cadmium	ND			6020B
7440-47-3	Chromium	ND			6020B
7440-48-4	Cobalt	ND			6020B
7440-50-8	Copper	ND			6020B
7439-92-1	Lead	ND			6020B
7440-02-0	Nickel	ND			6020B
7440-22-4	Silver	ND			6020B
7440-62-2	Vanadium	ND			6020B
7440-66-6	Zinc	ND			6020B

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 410-668919/1-A

Instrument Code: M10 - 31820 Batch No.: 671166

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICSA 410-669799/7 Instrument ID: E08 - 30647

Lab File ID: 023ICSA.d ICS Source: MT_MJ_ICSA_00142

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic	**8.50**	**0.0400**	
Barium	**0.390**	**0.339**	
Beryllium	**0.0200**	**0.0010**	
Cadmium	**0.480**	**0.201**	
Chromium	**3.20**	**2.12**	
Cobalt	**0.220**	**0.347**	
Copper	**0.860**	**-0.0630**	
Lead	**0.120**	**0.0680**	
Nickel	**1.20**	**0.305**	
Silver	**0.200**	**0.0710**	
Vanadium	**0.460**	**-0.0650**	
Zinc	**0.450**	**0.983**	
Aluminum	*100000*	*103264*	*103*
Antimony	*0.140*	*0.198*	
Calcium	*300000*	*296797*	*99*
Iron	*250000*	*247106*	*99*
Magnesium	*100000*	*100834*	*101*
Manganese	*0.500*	*0.773*	
Molybdenum	*2000*	*2067*	*103*
Potassium	*100000*	*102596*	*103*
Selenium	*0.580*	*-0.0290*	
Sodium	*250000*	*252200*	*101*
Strontium	*1.70*	*2.51*	
Thallium	*0.0100*	*-0.0090*	
Tin	*0.0600*	*-0.179*	
Titanium	*2000*	*2091*	*104*
Uranium	*0.120*	*0.0130*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICSAB 410-669799/8 Instrument ID: E08 - 30647

Lab File ID: 024ICSB.d ICS Source: MT_MJ_ICSAB_00123

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**100**	**94.3**	**94**
Barium		**0.301**	
Beryllium		**-0.0030**	
Cadmium	**100**	**102**	**102**
Chromium	**200**	**205**	**102**
Cobalt	**200**	**203**	**102**
Copper	**200**	**191**	**95**
Lead		**0.0740**	
Nickel	**200**	**201**	**100**
Silver	**50.0**	**50.7**	**101**
Vanadium	**200**	**208**	**104**
Zinc	**100**	**98.5**	**98**
Aluminum	*100000*	*101255*	*101*
Antimony		*0.175*	
Calcium	*300000*	*289338*	*96*
Iron	*250000*	*240111*	*96*
Magnesium	*100000*	*97445*	*97*
Manganese	*200*	*205*	*102*
Molybdenum	*2000*	*2031*	*102*
Potassium	*100000*	*99631*	*100*
Selenium	*100*	*98.4*	*98*
Sodium	*250000*	*243053*	*97*
Strontium	*2.80*	*2.41*	
Thallium		*-0.0230*	
Tin		*-0.0560*	
Titanium	*2000*	*2030*	*101*
Uranium		*0.0020*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICSA 410-669799/10 Instrument ID: E08 - 30647

Lab File ID: 166ICSA.d ICS Source: MT_MJ_ICSA_00142

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Arsenic	**8.50**	**0.181**	
Barium	**0.390**	**0.312**	
Beryllium	**0.0200**	**-0.0370**	
Cadmium	**0.480**	**0.178**	
Chromium	**3.20**	**1.85**	
Cobalt	**0.220**	**0.243**	
Copper	**0.860**	**-0.223**	
Lead	**0.120**	**0.0800**	
Nickel	**1.20**	**0.104**	
Silver	**0.200**	**0.0410**	
Vanadium	**0.460**	**-0.197**	
Zinc	**0.450**	**0.925**	
Aluminum	*100000*	*103798*	*104*
Antimony	*0.140*	*0.171*	
Calcium	*300000*	*295505*	*99*
Iron	*250000*	*247166*	*99*
Magnesium	*100000*	*102227*	*102*
Manganese	*0.500*	*0.379*	
Molybdenum	*2000*	*2131*	*107*
Potassium	*100000*	*102560*	*103*
Selenium	*0.580*	*-0.0500*	
Sodium	*250000*	*254040*	*102*
Strontium	*1.70*	*2.40*	
Thallium	*0.0100*	*-0.0390*	
Tin	*0.0600*	*-0.0900*	
Titanium	*2000*	*2075*	*104*
Uranium	*0.120*	*0.0040*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Lab Sample ID: ICSAB 410-669799/11 Instrument ID: E08 - 30647

Lab File ID: 167ICSB.d ICS Source: MT_MJ_ICSAB_00123

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Arsenic	**100**	**95.6**	**96**
Barium		**0.411**	
Beryllium		**-0.0240**	
Cadmium	**100**	**103**	**103**
Chromium	**200**	**205**	**102**
Cobalt	**200**	**202**	**101**
Copper	**200**	**194**	**97**
Lead		**0.0680**	
Nickel	**200**	**198**	**99**
Silver	**50.0**	**51.3**	**103**
Vanadium	**200**	**206**	**103**
Zinc	**100**	**98.4**	**98**
Aluminum	*100000*	*101575*	*102*
Antimony		*0.142*	
Calcium	*300000*	*287829*	*96*
Iron	*250000*	*239961*	*96*
Magnesium	*100000*	*99226*	*99*
Manganese	*200*	*202*	*101*
Molybdenum	*2000*	*2088*	*104*
Potassium	*100000*	*100063*	*100*
Selenium	*100*	*99.6*	*100*
Sodium	*250000*	*246741*	*99*
Strontium	*2.80*	*2.22*	
Thallium		*-0.0400*	
Tin		*-0.105*	
Titanium	*2000*	*2005*	*100*
Uranium		*0.0040*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 16WC1A MS
Lab ID: 410-229895-4 MS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC
Job No.: 410-229895-1

SDG No.:

Matrix: Water
Concentration Units: ug/L

% Solids:

Analyte	SSR C		Sample Result (SR) C		Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	ND		ND		1.00	104	80-120		7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: 16WC1A MS | Lab ID: 410-229895-4 MS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG No.:

Matrix: Water | Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	513		ND		500	102	75-125		6020B
Barium	876		360		500	103	75-125		6020B
Beryllium	51.1		ND		50.0	102	75-125		6020B
Cadmium	52.7		ND		50.0	105	75-125		6020B
Chromium	522		ND		500	104	75-125		6020B
Cobalt	520		12		500	102	80-125		6020B
Copper	500		ND		500	100	75-125		6020B
Lead	51.6		ND		50.0	103	75-125		6020B
Nickel	516		10		500	101	75-125		6020B
Silver	52.4		ND		50.0	105	75-125		6020B
Vanadium	522		ND		500	104	75-125		6020B
Zinc	509		ND		500	102	75-125		6020B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 16WC1A MSD Lab ID: 410-229895-4 MSD

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	ND		1.00	106	80-120	2	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: 16WC1A MSD | Lab ID: 410-229895-4 MSD

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG No.:

Matrix: Water | Concentration Units: ug/L

% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	521		500	103	75-125	1	20		6020B
Barium	897		500	108	75-125	2	20		6020B
Beryllium	51.5		50.0	103	75-125	1	20		6020B
Cadmium	53.8		50.0	108	75-125	2	20		6020B
Chromium	540		500	108	75-125	3	20		6020B
Cobalt	531		500	104	80-125	2	20		6020B
Copper	509		500	102	75-125	2	20		6020B
Lead	52.2		50.0	104	75-125	1	20		6020B
Nickel	530		500	104	75-125	3	20		6020B
Silver	53.0		50.0	106	75-125	1	20		6020B
Vanadium	538		500	108	75-125	3	20		6020B
Zinc	521		500	104	75-125	2	20		6020B

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VD - IN

6-IN
DUPLICATES
METALS

Client ID: 16WC1A DU | Lab ID: 410-229895-4 DU

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG No.:

% Solids for Sample: | % Solids for Duplicate:

Matrix: Water | Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	2.0	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS - TOTAL RECOVERABLE

Client ID: 16WC1A DU | Lab ID: 410-229895-4 DU

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC | Job No.: 410-229895-1

SDG No.:

% Solids for Sample: | % Solids for Duplicate:

Matrix: Water | Concentration Units: ug/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	10	ND		ND		NC		6020B
Barium	10	360		361		0.2		6020B
Beryllium	1.0	ND		ND		NC		6020B
Cadmium	1.0	ND		ND		NC		6020B
Chromium	5.0	ND		ND		NC		6020B
Cobalt	5.0	12		11.4		3		6020B
Copper	5.0	ND		ND		NC		6020B
Lead	3.0	ND		ND		NC		6020B
Nickel	10	10		ND		NC		6020B
Silver	2.0	ND		ND		NC		6020B
Vanadium	10	ND		ND		NC		6020B
Zinc	30	ND		ND		NC		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LINEAR RANGE CHECK STANDARD
METALS

Lab ID: LRC 410-669799/9

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-229895-1

Sample Matrix:

LCS Source: MT_MJ_LRC_00127

Analyte	(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	2000	1990		100	90	110		6020B
Barium	2000	1990		100	90	110		6020B
Beryllium	2000	1880		94	90	110		6020B
Cadmium	2000	1980		99	90	110		6020B
Chromium	2000	1910		96	90	110		6020B
Cobalt	2000	1880		94	90	110		6020B
Copper	2000	1960		98	90	110		6020B
Lead	2000	1980		99	90	110		6020B
Nickel	2000	1880		94	90	110		6020B
Silver	2000	1920		96	90	110		6020B
Vanadium	2000	1910		95	90	110		6020B
Zinc	2000	1960		98	90	110		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 410-665887/2-A

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-229895-1

Sample Matrix: Water

LCS Source: MT_LCS-SPK-A_00053

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	500	508		102	86	111		6020B
Barium	500	523		105	86	114		6020B
Beryllium	50.0	52.2		104	80	120		6020B
Cadmium	50.0	53.4		107	86	114		6020B
Chromium	500	530		106	84	113		6020B
Cobalt	500	528		106	85	112		6020B
Copper	500	514		103	86	111		6020B
Lead	50.0	52.0		104	86	114		6020B
Nickel	500	525		105	85	113		6020B
Silver	50.0	52.1		104	88	116		6020B
Vanadium	500	524		105	84	112		6020B
Zinc	500	520		104	86	112		6020B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 410-668919/2-A

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC

Job No.: 410-229895-1

Sample Matrix: Water

LCS Source: MP_40Hg_IV_00259

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	1.00	1.11	J	111	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 410-229895-1

SDG Number:

Matrix: Water Instrument ID: E08 - 30647

Method: 6020B MDL Date: 04/10/2024 11:55

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Arsenic	75	10	3
Barium	137	10	1
Beryllium	9	1	0.5
Cadmium	111	1	0.15
Chromium	52	5	1
Cobalt	59	5	0.16
Copper	63	5	1
Lead	208	3	1.1
Nickel	60	10	3
Silver	107	2	1
Vanadium	51	10	2
Zinc	66	30	6.2

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 410-229895-1

SDG Number:

Matrix: Water Instrument ID: E08 - 30647

Method: 6020B XMDL Date: 04/09/2025 09:22

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Arsenic	75	2	0.68
Barium	137	2	0.746
Beryllium	9	0.5	0.119
Cadmium	111	0.5	0.151
Chromium	52	2	0.55
Cobalt	59	0.5	0.156
Copper	63	1	0.85
Lead	208	0.5	0.12
Nickel	60	1	0.4
Silver	107	0.5	0.1
Vanadium	51	4	0.794
Zinc	66	10	4

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 410-229895-1

SDG Number:

Matrix: Water Instrument ID: M10 - 31820

Method: 7470A MDL Date: 05/08/2025 08:40

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		2	0.087

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job Number: 410-229895-1

SDG Number:

Matrix: Water Instrument ID: M10 - 31820

Method: 7470A XMDL Date: 05/08/2025 08:43

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.087

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No: 410-229895-1

SDG No.:

Instrument ID: E08 - 30647 Date: 11/26/2024 16:40

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic		2000	6020B
Barium		2000	6020B
Beryllium		2000	6020B
Cadmium		2000	6020B
Chromium		2000	6020B
Cobalt		2000	6020B
Copper		2000	6020B
Lead		2000	6020B
Nickel		2000	6020B
Silver		2000	6020B
Vanadium		2000	6020B
Zinc		2000	6020B

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No: 410-229895-1

SDG No.:

Instrument ID: M10 - 31820 Date: 12/01/2020 00:00

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury		4.5	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 410-665887/1-A	07/04/2025 21:00	665887		50	50
LCS 410-665887/2-A	07/04/2025 21:00	665887		50	50
410-229895-4	07/04/2025 21:00	665887		50	50
410-229895-4 DU	07/04/2025 21:00	665887		50	50
410-229895-4 MS	07/04/2025 21:00	665887		50	50
410-229895-4 MSD	07/04/2025 21:00	665887		50	50
410-229895-8	07/04/2025 21:00	665887		50	50
410-229895-10	07/04/2025 21:00	665887		50	50
410-229895-6	07/04/2025 21:00	665887		50	50
410-229895-2	07/04/2025 21:00	665887		50	50
410-229895-1	07/04/2025 21:00	665887		50	50
410-229895-3	07/04/2025 21:00	665887		50	50
410-229895-9	07/04/2025 21:00	665887		50	50
410-229895-5	07/04/2025 21:00	665887		50	50
410-229895-7	07/04/2025 21:00	665887		50	50
410-229895-11	07/04/2025 21:00	665887		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 410-668919/1-A	07/11/2025 07:15	668919		20.0	20.0
LCS 410-668919/2-A	07/11/2025 07:15	668919		20.0	20.0
410-229895-4	07/11/2025 07:15	668919		20	20.0
410-229895-4 DU	07/11/2025 07:15	668919		20	20.0
410-229895-4 MS	07/11/2025 07:15	668919		20	20.0
410-229895-4 MSD	07/11/2025 07:15	668919		20	20.0
410-229895-8	07/11/2025 07:15	668919		20	20.0
410-229895-10	07/11/2025 07:15	668919		20	20.0
410-229895-7	07/11/2025 07:15	668919		20	20.0
410-229895-9	07/11/2025 07:15	668919		20	20.0
410-229895-3	07/11/2025 07:15	668919		20	20.0
410-229895-1	07/11/2025 07:15	668919		20	20.0
410-229895-6	07/11/2025 07:15	668919		20	20.0
410-229895-5	07/11/2025 07:15	668919		20	20.0
410-229895-11	07/11/2025 07:15	668919		20	20.0
410-229895-2	07/11/2025 07:15	668919		20	20.0

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: E08 - 30647 Analysis Method: 6020B

Start Date: 07/10/2025 08:22 End Date: 07/10/2025 23:30

Lab Sample Id	D/F	Type	Time	Analytes																											
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Ni	Pb	V	Zn																
ITUNE 410-669799/1	1		08:22																												
ICIS 410-669799/2			09:07	X	X	X	X	X	X	X	X	X	X	X	X																
STD1 410-669799/3 IC	1		09:10	X	X	X	X	X	X	X	X	X	X	X	X																
ICV 410-669799/4	1		09:12	X	X	X	X	X	X	X	X	X	X	X	X																
ICB 410-669799/5	1		09:19	X	X	X	X	X	X	X	X	X	X	X	X																
CRI 410-669799/6	1		09:21	X	X	X	X	X	X	X	X	X	X	X	X																
ICSA 410-669799/7	1		09:29	X	X	X	X	X	X	X	X	X	X	X	X																
ICSAB 410-669799/8	1		09:32	X	X	X	X	X	X	X	X	X	X	X	X																
LRC 410-669799/9	1		09:34	X	X	X	X	X	X	X	X	X	X	X	X																
ICSA 410-669799/10	1		16:03	X	X	X	X	X	X	X	X	X	X	X	X																
ICSAB 410-669799/11	1		16:05	X	X	X	X	X	X	X	X	X	X	X	X																
CCV 410-669799/12	1		16:16	X	X	X	X	X	X	X	X	X	X	X	X																
CCB 410-669799/13	1		16:20	X	X	X	X	X	X	X	X	X	X	X	X																
ZZZZZZ (QC)			16:23																												
ZZZZZZ (QC)			16:25																												
ZZZZZZ (Client)			16:27																												
ZZZZZZ (QC)			16:29																												
ZZZZZZ (QC)			16:32																												
ZZZZZZ (QC)			16:34																												
CCV 410-669799/20			16:38																												
CCB 410-669799/21			16:43																												
ZZZZZZ (QC)			16:45																												
ZZZZZZ (Client)			16:47																												
ZZZZZZ (Client)			16:49																												
ZZZZZZ (Client)			16:51																												
ZZZZZZ (Client)			16:54																												
ZZZZZZ (Client)			16:56																												
CCV 410-669799/28			17:00																												
CCB 410-669799/29			17:05																												
ZZZZZZ (QC)			17:08																												
ZZZZZZ (Client)			17:10																												
ZZZZZZ (Client)			17:12																												
ZZZZZZ (Client)			17:14																												
CCV 410-669799/34	1		17:19	X	X	X	X	X	X	X	X	X	X	X	X																
CCB 410-669799/35	1		17:23	X	X	X	X	X	X	X	X	X	X	X	X																
MB 410-665887/1-A	1	R	17:25	X	X	X	X	X	X	X	X	X	X	X	X																
LCS 410-665887/2-A	1	R	17:27	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-4	1	R	17:30	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-4 DU	1	R	17:32	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-4 MS	1	R	17:34	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-4 MSD	1	R	17:36	X	X	X	X	X	X	X	X	X	X	X	X																

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: E08 - 30647 Analysis Method: 6020B

Start Date: 07/10/2025 08:22 End Date: 07/10/2025 23:30

Lab Sample Id	D/F	Type	Time	Analytes																											
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Ni	Pb	V	Zn																
410-229895-8	1	R	17:38	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-10	1	R	17:41	X	X	X	X	X	X	X	X	X	X	X	X																
CCV 410-669799/44	1		17:45	X	X	X	X	X	X	X	X	X	X	X	X																
CCB 410-669799/45	1		17:49	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-6	1	R	17:52	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-2	1	R	17:54	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-1	1	R	17:56	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-3	1	R	17:58	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-9	1	R	18:00	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-5	1	R	18:03	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-7	1	R	18:05	X	X	X	X	X	X	X	X	X	X	X	X																
410-229895-11	1	R	18:07	X	X	X	X	X	X	X	X	X	X	X	X																
CCV 410-669799/54	1		18:11	X	X	X	X	X	X	X	X	X	X	X	X																
CCB 410-669799/55	1		18:16	X	X	X	X	X	X	X	X	X	X	X	X																
ZZZZZZ (Client)			18:18																												
ZZZZZZ (Client)			18:20																												
ZZZZZZ (Client)			18:22																												
ZZZZZZ (Client)			18:25																												
ZZZZZZ (Client)			18:27																												
ZZZZZZ (Client)			18:29																												
ZZZZZZ (Client)			18:31																												
ZZZZZZ (Client)			18:33																												
ZZZZZZ (Client)			18:36																												
CCV 410-669799/65			18:40																												
CCB 410-669799/66			18:44																												
ZZZZZZ (QC)			18:47																												
ZZZZZZ (QC)			18:49																												
ZZZZZZ (Client)			18:51																												
ZZZZZZ (Client)			18:53																												
ZZZZZZ (Client)			18:56																												
CCV 410-669799/72			19:00																												
CCB 410-669799/73			19:04																												
ZZZZZZ (QC)			19:08																												
ZZZZZZ (QC)			19:10																												
ZZZZZZ (Client)			19:12																												
ZZZZZZ (QC)			19:15																												
ZZZZZZ (QC)			19:17																												
ZZZZZZ (QC)			19:19																												
ZZZZZZ (Client)			19:21																												
ZZZZZZ (Client)			19:23																												
CCV 410-669799/82			19:28																												

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: E08 - 30647 Analysis Method: 6020B

Start Date: 07/10/2025 08:22 End Date: 07/10/2025 23:30

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Ni	Pb	V	Zn															
CCB 410-669799/83			19:32																											
ZZZZZZ (Client)			19:34																											
ZZZZZZ (Client)			19:37																											
ZZZZZZ (Client)			19:39																											
ZZZZZZ (Client)			19:41																											
ZZZZZZ (Client)			19:43																											
ZZZZZZ (Client)			19:45																											
ZZZZZZ (Client)			19:48																											
ZZZZZZ (Client)			19:50																											
CCV 410-669799/92			19:54																											
CCB 410-669799/93			19:59																											
ZZZZZZ (Client)			20:01																											
ZZZZZZ (Client)			20:03																											
ZZZZZZ (Client)			20:05																											
ZZZZZZ (Client)			20:07																											
ZZZZZZ (Client)			20:10																											
ZZZZZZ (Client)			20:12																											
ZZZZZZ (Client)			20:14																											
ZZZZZZ (Client)			20:16																											
ZZZZZZ (Client)			20:18																											
CCV 410-669799/103			20:23																											
CCB 410-669799/104			20:27																											
ZZZZZZ (QC)			20:31																											
ZZZZZZ (QC)			20:33																											
ZZZZZZ (Client)			20:35																											
ZZZZZZ (QC)			20:38																											
ZZZZZZ (QC)			20:40																											
ZZZZZZ (QC)			20:42																											
ZZZZZZ (Client)			20:44																											
ZZZZZZ (Client)			20:46																											
CCV 410-669799/113			20:51																											
CCB 410-669799/114			20:55																											
ZZZZZZ (Client)			20:57																											
ZZZZZZ (Client)			21:00																											
ZZZZZZ (Client)			21:02																											
ZZZZZZ (Client)			21:04																											
ZZZZZZ (Client)			21:06																											
ZZZZZZ (Client)			21:08																											
ZZZZZZ (Client)			21:11																											
ZZZZZZ (Client)			21:13																											
CCV 410-669799/123			21:17																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: E08 - 30647 Analysis Method: 6020B

Start Date: 07/10/2025 08:22 End Date: 07/10/2025 23:30

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Ni	Pb	V	Zn															
CCB 410-669799/124			21:22																											
ZZZZZZ (QC)			21:24																											
ZZZZZZ (QC)			21:26																											
ZZZZZZ (Client)			21:28																											
ZZZZZZ (QC)			21:31																											
ZZZZZZ (QC)			21:33																											
ZZZZZZ (Client)			21:35																											
ZZZZZZ (Client)			21:37																											
ZZZZZZ (Client)			21:39																											
ZZZZZZ (Client)			21:42																											
CCV 410-669799/134			21:46																											
CCB 410-669799/135			21:50																											
ZZZZZZ (Client)			21:53																											
ZZZZZZ (Client)			21:55																											
ZZZZZZ (Client)			21:57																											
ZZZZZZ (Client)			21:59																											
ZZZZZZ (Client)			22:01																											
ZZZZZZ (Client)			22:04																											
ZZZZZZ (Client)			22:06																											
CCV 410-669799/143			22:10																											
CCB 410-669799/144			22:15																											
ZZZZZZ (QC)			22:18																											
ZZZZZZ (QC)			22:20																											
ZZZZZZ (Client)			22:22																											
ZZZZZZ (QC)			22:24																											
ZZZZZZ (QC)			22:26																											
ZZZZZZ (Client)			22:29																											
ZZZZZZ (Client)			22:31																											
ZZZZZZ (Client)			22:33																											
CCV 410-669799/153			22:37																											
CCB 410-669799/154			22:42																											
ZZZZZZ (Client)			22:44																											
ZZZZZZ (Client)			22:46																											
ZZZZZZ (Client)			22:48																											
ZZZZZZ (Client)			22:51																											
ZZZZZZ (Client)			22:53																											
ZZZZZZ (Client)			22:55																											
ZZZZZZ (Client)			22:57																											
ZZZZZZ (Client)			22:59																											
CCV 410-669799/163			23:04																											
CCB 410-669799/164			23:08																											

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: E08 - 30647 Analysis Method: 6020B

Start Date: 07/10/2025 08:22 End Date: 07/10/2025 23:30

Lab Sample Id	D/F	Type	Time	Analytes																										
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Ni	Pb	V	Zn															
ZZZZZZ (Client)			23:10																											
ZZZZZZ (Client)			23:13																											
ZZZZZZ (Client)			23:15																											
ZZZZZZ (Client)			23:17																											
ZZZZZZ (QC)			23:19																											
ZZZZZZ (QC)			23:21																											
CCV 410-669799/171			23:26																											
CCB 410-669799/172			23:30																											

Prep Types:
R = Total Recoverable

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: M10 - 31820 Analysis Method: 7470A

Start Date: 07/14/2025 19:11 End Date: 07/14/2025 21:33

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
IC 410-668254/1-A			19:11	X
IC 410-668254/2-A			19:13	X
IC 410-668254/3-A			19:15	X
IC 410-668254/4-A			19:16	X
IC 410-668254/5-A			19:18	X
IC 410-668254/6-A			19:20	X
ICV 410-668254/7-A	1		19:22	X
ICB 410-668254/9-A	1		19:24	X
CRA 410-668254/8-A	1		19:26	X
CCV 410-668254/11-A	1		19:28	X
CCB 410-668254/10-A	1		19:30	X
MB 410-668919/1-A	1	T	19:32	X
LCS 410-668919/2-A	1	T	19:33	X
410-229895-4	1	T	19:35	X
410-229895-4 DU	1	T	19:37	X
410-229895-4 MS	1	T	19:39	X
410-229895-4 MSD	1	T	19:41	X
ZZZZZZ (Client)			19:43	
ZZZZZZ (Client)			19:45	
ZZZZZZ (Client)			19:47	
ZZZZZZ (Client)			19:48	
CCV 410-668254/11-A	1		19:50	X
CCB 410-668254/10-A	1		19:52	X
ZZZZZZ (Client)			19:54	
ZZZZZZ (Client)			19:56	
ZZZZZZ (Client)			19:58	
ZZZZZZ (Client)			20:00	
410-229895-8	1	T	20:02	X
410-229895-10	1	T	20:04	X
410-229895-7	1	T	20:05	X
410-229895-9	1	T	20:07	X
410-229895-3	1	T	20:09	X
410-229895-1	1	T	20:11	X
CCV 410-668254/11-A	1		20:13	X
CCB 410-668254/10-A	1		20:15	X
410-229895-6	1	T	20:17	X
410-229895-5	1	T	20:19	X
410-229895-11	1	T	20:21	X
ZZZZZZ (Client)			20:23	
410-229895-2	1	T	20:24	X
ZZZZZZ (QC)			20:26	

FORM XIII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

Instrument ID: M10 - 31820 Analysis Method: 7470A

Start Date: 07/14/2025 19:11 End Date: 07/14/2025 21:33

Lab Sample Id	D/F	Type	Time	Analytes
				Hg
ZZZZZZ (QC)			20:28	
ZZZZZZ (Client)			20:30	
ZZZZZZ (QC)			20:32	
ZZZZZZ (QC)			20:34	
CCV 410-668254/11-A	1		20:36	X
CCB 410-668254/10-A	1		20:38	X
ZZZZZZ (QC)			20:40	
ZZZZZZ (QC)			20:41	
ZZZZZZ (Client)			20:43	
ZZZZZZ (Client)			20:45	
ZZZZZZ (Client)			20:47	
ZZZZZZ (Client)			20:49	
ZZZZZZ (Client)			20:51	
ZZZZZZ (Client)			20:53	
ZZZZZZ (QC)			20:55	
ZZZZZZ (QC)			20:57	
CCV 410-668254/11-A			20:59	
CCB 410-668254/10-A			21:00	
ZZZZZZ (QC)			21:02	
ZZZZZZ (QC)			21:04	
ZZZZZZ (QC)			21:06	
ZZZZZZ (Client)			21:08	
ZZZZZZ (QC)			21:10	
ZZZZZZ (QC)			21:12	
ZZZZZZ (QC)			21:14	
ZZZZZZ (Client)			21:16	
ZZZZZZ (Client)			21:18	
ZZZZZZ (QC)			21:20	
CCV 410-668254/11-A			21:21	
CCB 410-668254/10-A			21:23	
ZZZZZZ (QC)			21:25	
ZZZZZZ (QC)			21:27	
ZZZZZZ (Client)			21:29	
CCV 410-668254/11-A			21:31	
CCB 410-668254/10-A			21:33	

Prep Types:
T = Total/NA

FORM XIII-IN

14-IN
ICP-MS TUNE
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.:

ICP-MS Instrument ID: E08 - 30647 Analysis Date: 07/10/25

Lab ID: ITUNE 410-669799/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Be-9	9	0.7724	1.023	
Mg-24	24	0.7687	0.218	
Co-59	59	0.7689	0.157	
In-115	115	0.7094	0.218	
Pb-208	208	0.7649	0.638	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.: Analysis Batch No.: 669799

ICP-MS Instrument ID: E08 - 30647 Start Date: 07/10/2025 End Date: 07/10/2025

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Sc-45/1	Q	Element Sc-45/2	Q	Element Sc-45/3	Q	Element Ge/1	Q	Element Ge/2	Q
STD1 410-669799/3	09:10	100		101		104		98		99	
IC ICV 410-669799/4	09:12	100		101		100		98		100	
ICB 410-669799/5	09:19	99		99		100		99		100	
CRI 410-669799/6	09:21	100		99		100		99		100	
ICSA 410-669799/7	09:29	100		99		98		101		100	
ICSAB 410-669799/8	09:32	100		99		101		101		102	
LRC 410-669799/9	09:34	103		97		105		100		100	
ICSA 410-669799/10	16:03	98		96		97		98		98	
ICSAB 410-669799/11	16:05	99		96		100		99		98	
CCV 410-669799/12	16:16	97		98		98		95		97	
CCB 410-669799/13	16:20	98		96		99		96		96	
CCV 410-669799/34	17:19	98		97		101		95		97	
CCB 410-669799/35	17:23	94		96		98		94		96	
MB 410-665887/1-A	17:25	97		98		98		95		98	
LCS 410-665887/2-A	17:27	98		100		100		98		100	
410-229895-4	17:30	97		100		99		98		102	
410-229895-4 DU	17:32	98		99		99		98		99	
410-229895-4 MS	17:34	99		98		101		97		100	
410-229895-4 MSD	17:36	99		99		100		98		100	
410-229895-8	17:38	96		100		98		98		101	
410-229895-10	17:41	96		100		100		97		101	
CCV 410-669799/44	17:45	97		99		99		96		97	
CCB 410-669799/45	17:49	94		98		97		94		98	
410-229895-6	17:52	98		99		99		98		101	
410-229895-2	17:54	97		99		99		97		101	
410-229895-1	17:56	97		100		98		97		100	
410-229895-3	17:58	95		98		99		96		100	
410-229895-9	18:00	97		100		102		98		101	
410-229895-5	18:03	97		98		101		97		100	
410-229895-7	18:05	96		99		102		96		100	
410-229895-11	18:07	98		98		101		98		100	
CCV 410-669799/54	18:11	96		98		100		93		97	
CCB 410-669799/55	18:16	96		98		97		94		96	
IS Name on Instrument											

15A-IN
ICP-MS INTERNAL STANDARDS RELATIONS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.: Analysis Batch No.: 669799

ICP-MS Instrument ID: E08 - 30647 Start Date: 07/10/2025 End Date: 07/10/2025

Analyte	Mass	Internal Standard Used:				
		Element In-115/2 115	Element In-115/3 115	Element Tb-159 159	Element Bi-209 209	Element Sc-45/1 45
Arsenic	75					
Barium	137		X			
Beryllium	9					X
Cadmium	111		X			
Chromium	52					
Cobalt	59					
Copper	63					
Lead	208			X		
Nickel	60					
Silver	107		X			
Vanadium	51					
Zinc	66					
Aluminum	27					
Antimony	121		X			
Calcium	44					
Iron	57					
Magnesium	24					
Manganese	55					
Molybdenum	98		X			
Potassium	39					
Selenium	78					
Sodium	23					
Strontium	88		X			
Thallium	205			X		
Tin	120		X			
Titanium	47					
Uranium	238			X		
Internal Standard Name on Instrument		In-115 (IS)	In-115 (IS)	Tb-159 (IS)	Bi-209 (IS)	Sc-45 (IS)

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.: Analysis Batch No.: 669799

ICP-MS Instrument ID: E08 - 30647 Start Date: 07/10/2025 End Date: 07/10/2025

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge/3	Q	Element In-115/2	Q	Element In-115/3	Q	Element Tb-159	Q	Element Bi-209	Q
STD1 410-669799/3	09:10	101		100		101		101		102	
IC ICV 410-669799/4	09:12	100		99		101		101		100	
ICB 410-669799/5	09:19	102		98		101		100		100	
CRI 410-669799/6	09:21	99		99		99		100		100	
ICSA 410-669799/7	09:29	101		95		97		101		97	
ICSAB 410-669799/8	09:32	104		96		99		100		96	
LRC 410-669799/9	09:34	101		116		102		101		97	
ICSA 410-669799/10	16:03	98		93		91		94		92	
ICSAB 410-669799/11	16:05	99		91		95		96		92	
CCV 410-669799/12	16:16	95		96		95		96		96	
CCB 410-669799/13	16:20	96		95		96		95		94	
CCV 410-669799/34	17:19	97		95		97		95		94	
CCB 410-669799/35	17:23	95		94		95		93		94	
MB 410-665887/1-A	17:25	95		96		97		95		95	
LCS 410-665887/2-A	17:27	99		97		97		96		96	
410-229895-4	17:30	100		95		96		95		96	
410-229895-4 DU	17:32	100		95		96		95		95	
410-229895-4 MS	17:34	100		96		97		96		97	
410-229895-4 MSD	17:36	100		95		96		96		95	
410-229895-8	17:38	100		95		95		94		94	
410-229895-10	17:41	100		95		97		94		95	
CCV 410-669799/44	17:45	96		95		95		94		94	
CCB 410-669799/45	17:49	96		94		95		93		92	
410-229895-6	17:52	99		95		97		95		95	
410-229895-2	17:54	100		96		97		95		96	
410-229895-1	17:56	99		95		95		94		93	
410-229895-3	17:58	100		94		96		96		95	
410-229895-9	18:00	99		95		95		95		94	
410-229895-5	18:03	99		96		95		95		95	
410-229895-7	18:05	100		96		95		94		94	
410-229895-11	18:07	100		95		96		95		94	
CCV 410-669799/54	18:11	96		96		97		95		93	
CCB 410-669799/55	18:16	97		95		96		93		93	
IS Name on Instrument											

FORM XV - IN

15A-IN
ICP-MS INTERNAL STANDARDS RELATIONS
METALS

Lab Name: Eurofins Lancaster Laboratories Environment Testing, LLC Job No.: 410-229895-1

SDG No.: Analysis Batch No.: 669799

ICP-MS Instrument ID: E08 - 30647 Start Date: 07/10/2025 End Date: 07/10/2025

Analyte	Mass	Internal Standard Used:				
		Element Sc-45/2 45	Element Sc-45/3 45	Element Ge/1 72	Element Ge/2 72	Element Ge/3 72
Arsenic	75					X
Barium	137					
Beryllium	9					
Cadmium	111					
Chromium	52		X			
Cobalt	59		X			
Copper	63					X
Lead	208					
Nickel	60		X			
Silver	107					
Vanadium	51		X			
Zinc	66					X
Aluminum	27		X			
Antimony	121					
Calcium	44		X			
Iron	57		X			
Magnesium	24		X			
Manganese	55		X			
Molybdenum	98					
Potassium	39		X			
Selenium	78				X	
Sodium	23		X			
Strontium	88					
Thallium	205					
Tin	120					
Titanium	47		X			
Uranium	238					
Internal Standard Name on Instrument		Sc-45 (IS)	Sc-45 (IS)	Ge Internal Standard	Ge Internal Standard	Ge Internal Standard

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 665887 Batch Start Date: 07/04/25 21:00 Batch Analyst: Kuhns, Annamaria M

Batch Method: 3005A Batch End Date: 07/05/25 01:00

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	MP_1:1HCl 00052	MP_1:1HNO3 00086	MT_LCS-SPK-A 00053	MT_LCS-SPK-B 00052
MB 410-665887/1		3005A, 6020B			50 mL	50 mL	5 mL	2 mL		
LCS 410-665887/2		3005A, 6020B			50 mL	50 mL	5 mL	2 mL	0.2 mL	0.2 mL
410-229895-J-4	16WC1A	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-H-4 DU	16WC1A	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-J-4 MS	16WC1A	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL	0.2 mL	0.2 mL
410-229895-J-4 MSD	16WC1A	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL	0.2 mL	0.2 mL
410-229895-G-8	16-3	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-10	16WC2B	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-6	16WC1B	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-2	16MW8	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-J-1	16C1	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-S-3	16MW9	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-9	16-5	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-5	16WDUP	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-7	16-2	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		
410-229895-G-11	16SPRING	3005A, 6020B	Water	R	50 mL	50 mL	5 mL	2 mL		

Batch Notes	
Digestion Tube/Cup ID	24061004
Pipette/Syringe/Dispenser ID	G20054G
Pipette Tip Lot ID	M211419J
Digestion Unit ID	15
Thermometer ID	3917
Temperature - Uncorrected - Start	95 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	95 Degrees C
Temperature - Corrected - End	95 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 665887 Batch Start Date: 07/04/25 21:00 Batch Analyst: Kuhns, Annamaria M

Batch Method: 3005A Batch End Date: 07/05/25 01:00

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668254 Batch Start Date: 07/08/25 12:15 Batch Analyst: Ruf, Skyler

Batch Method: 7470A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Hg_0.1Control 00276	Hg_1Cal 00262	Hg_1Control 00262	Hg_5%KMnO4 00554
ICV 410-668254/7		7470A, 7470A			100 mL	100 mL			0.25 mL	15 mL
CRA 410-668254/8		7470A, 7470A			100 mL	100 mL	0.2 mL			15 mL
ICB 410-668254/9		7470A, 7470A			100 mL	100 mL				15 mL
CCB 410-668254/10		7470A, 7470A			100 mL	100 mL				15 mL
CCV 410-668254/11		7470A, 7470A			100 mL	100 mL		0.1 mL		15 mL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MP_5K2S2O8 00150	MP_NaClHNO 00369	MT_HNO3_FI 00018	MT_SULF_FI 00022		
ICV 410-668254/7		7470A, 7470A			8 mL	6 mL	2.5 mL	5 mL		
CRA 410-668254/8		7470A, 7470A			8 mL	6 mL	2.5 mL	5 mL		
ICB 410-668254/9		7470A, 7470A			8 mL	6 mL	2.5 mL	5 mL		
CCB 410-668254/10		7470A, 7470A			8 mL	6 mL	2.5 mL	5 mL		
CCV 410-668254/11		7470A, 7470A			8 mL	6 mL	2.5 mL	5 mL		

Batch Notes	
Pipette/Syringe/Dispenser ID	UU08850, UU37982 H22813L KU08130 JUO8391
Digestion Unit ID	3
Thermometer ID	3993
Temperature - Uncorrected - Start	96 Degrees C
Temperature - Corrected - Start	95 Degrees C
Temperature - Uncorrected - End	96 Degrees C
Temperature - Corrected - End	95 Degrees C
Pipette Tip Lot ID	L207589P, L203624K

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668254 Batch Start Date: 07/08/25 12:15 Batch Analyst: Ruf, Skyler

Batch Method: 7470A Batch End Date:

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668919 Batch Start Date: 07/11/25 07:15 Batch Analyst: Ruf, Skyler

Batch Method: 7470A Batch End Date: 07/11/25 09:15

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	InitialAmount	FinalAmount	Hg_5%KMnO4 00553	MP_40Hg_IV 00259	MP_5K2S2O8 00150	MP_NaClHNO 00370
MB 410-668919/1		7470A, 7470A			20.0 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
LCS 410-668919/2		7470A, 7470A			20.0 mL	20.0 mL	3 mL	0.5 mL	1.6 mL	1.2 mL
410-229895-K-4	16WC1A	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-I-4 DU	16WC1A	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-K-4 MS	16WC1A	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL	0.5 mL	1.6 mL	1.2 mL
410-229895-K-4 MSD	16WC1A	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL	0.5 mL	1.6 mL	1.2 mL
410-229895-H-8	16-3	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-J-10	16WC2B	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-H-7	16-2	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-H-9	16-5	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-T-3	16MW9	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-K-1	16C1	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-H-6	16WC1B	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-H-5	16WDUP	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-H-11	16SPRING	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL
410-229895-H-2	16MW8	7470A, 7470A	Water	T	20 mL	20.0 mL	3 mL		1.6 mL	1.2 mL

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MT_HNO3_FI 00018	MT_SULF_FI 00022				
MB 410-668919/1		7470A, 7470A			0.5 mL	1 mL				
LCS 410-668919/2		7470A, 7470A			0.5 mL	1 mL				
410-229895-K-4	16WC1A	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-I-4 DU	16WC1A	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-K-4 MS	16WC1A	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-K-4 MSD	16WC1A	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-H-8	16-3	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-J-10	16WC2B	7470A, 7470A	Water	T	0.5 mL	1 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-229895-1

SDG No.:

Batch Number: 668919 Batch Start Date: 07/11/25 07:15 Batch Analyst: Ruf, Skyler

Batch Method: 7470A Batch End Date: 07/11/25 09:15

Lab Sample ID	Client Sample ID	Method Chain	Matrix	Basis	MT_HNO3_FI 00018	MT_SULF_FI 00022				
410-229895-H-7	16-2	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-H-9	16-5	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-T-3	16MW9	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-K-1	16C1	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-H-6	16WC1B	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-H-5	16WDUP	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-H-11	16SPRING	7470A, 7470A	Water	T	0.5 mL	1 mL				
410-229895-H-2	16MW8	7470A, 7470A	Water	T	0.5 mL	1 mL				

Batch Notes	
Digestion Tube/Cup ID	LV24010607
Pipette/Syringe/Dispenser ID	S/500
Digestion Unit ID	10
Thermometer ID	3906
Temperature - Uncorrected - Start	96.0 Degrees C
Temperature - Corrected - Start	95.0 Degrees C
Temperature - Uncorrected - End	96.0 Degrees C
Temperature - Corrected - End	95.0 Degrees C
Reflux Cap ID	2307074
Pipette Tip Lot ID	L208595R

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Quantitation Report

Data File Name	018CALB.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 9:07:53 AM
Sample Name	ICIS 7996167
Sample Type	CalBlk
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

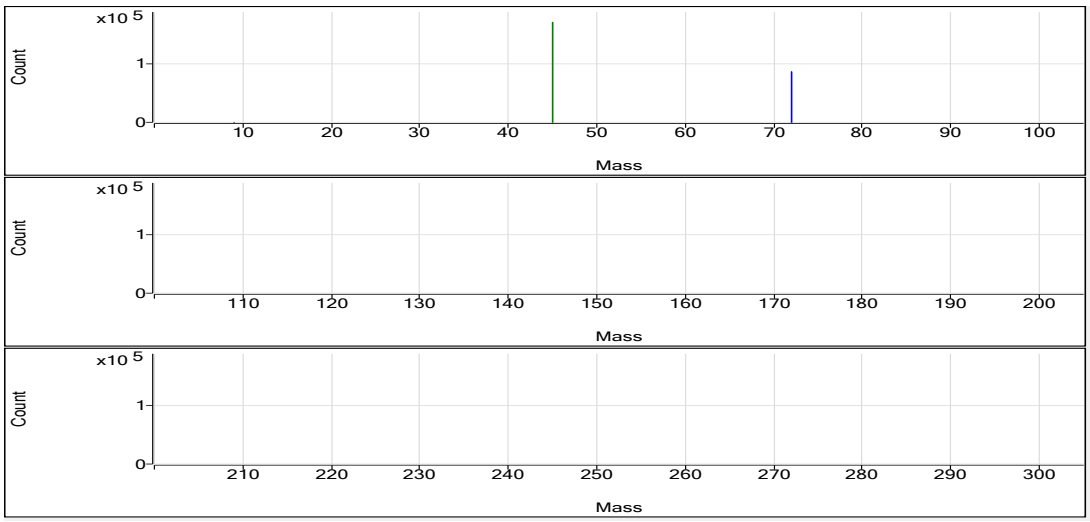
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.000	ppb	N/A	44.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.000	ppb	N/A	6.22	0.0001	Pulse	1.5000	3
Na	23	45	He	0.000	ppb	N/A	29610.20	0.7502	Pulse	0.1000	3
Mg	24	45	He	0.000	ppb	N/A	1033.40	0.0262	Pulse	0.1000	3
Al	27	45	He	0.000	ppb	N/A	210.01	0.0053	Pulse	0.1000	3
K	39	45	He	0.000	ppb	N/A	20966.21	0.5307	Pulse	0.5000	3
Ca	44	45	He	0.000	ppb	N/A	175.33	0.0044	Pulse	0.5000	3
Ti	47	45	He	0.000	ppb	N/A	18.00	0.0005	Pulse	0.5000	3
V	51	45	He	0.000	ppb	N/A	1030.04	0.0261	Pulse	0.5000	3
Cr	52	45	He	0.000	ppb	N/A	1996.85	0.0506	Pulse	0.1000	3
Mn	55	45	He	0.000	ppb	N/A	422.68	0.0107	Pulse	0.5000	3
Fe	57	45	He	0.000	ppb	N/A	333.35	0.0085	Pulse	0.1000	3
Co	59	45	He	0.000	ppb	N/A	237.33	0.0060	Pulse	0.5000	3
Ni	60	45	He	0.000	ppb	N/A	462.68	0.0117	Pulse	0.5000	3
Cu	63	72	He	0.000	ppb	N/A	983.37	0.0144	Pulse	0.5000	3
Zn	66	72	He	0.000	ppb	N/A	191.33	0.0028	Pulse	0.5000	3
As	75	72	He	0.000	ppb	N/A	86.67	0.0013	Pulse	0.5000	3
Sr	88	115	He	0.000	ppb	N/A	63.33	0.0011	Pulse	0.1000	3
Mo	98	115	He	0.000	ppb	N/A	83.33	0.0015	Pulse	0.1000	3
Ag	107	115	He	0.000	ppb	N/A	73.33	0.0013	Pulse	0.1000	3
Cd	111	115	He	0.000	ppb	N/A	2.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.000	ppb	N/A	606.70	0.0110	Pulse	0.1000	3
Sb	121	115	He	0.000	ppb	N/A	20.00	0.0004	Pulse	0.3000	3
Ba	137	115	He	0.000	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Tl	205	159	He	0.000	ppb	N/A	273.34	0.0013	Pulse	0.1000	3
Pb	208	159	He	0.000	ppb	N/A	306.68	0.0015	Pulse	0.1000	3
U	238	159	He	0.000	ppb	N/A	23.33	0.0001	Pulse	0.1000	3

ISTD Table:

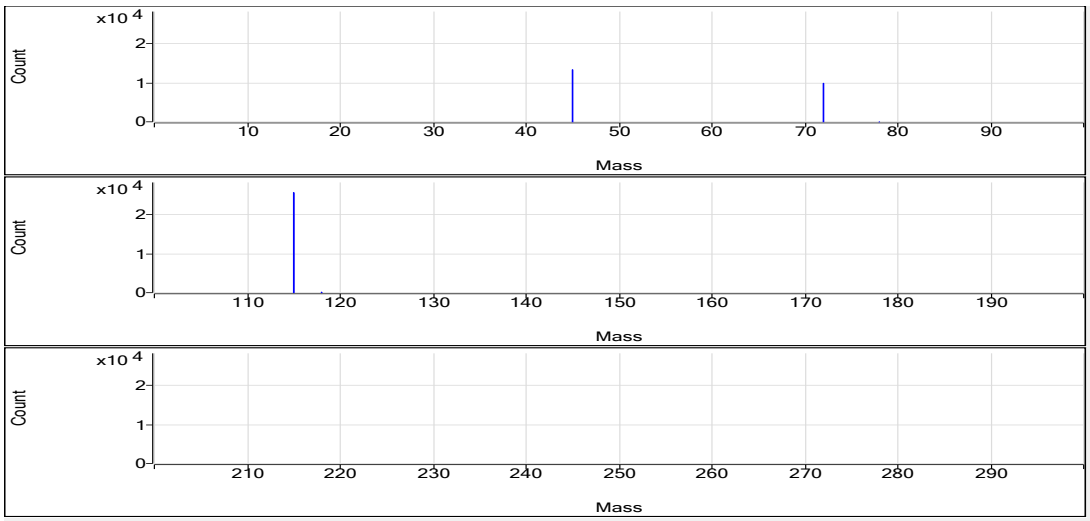
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1708522.37	0.9	100.0	Analog	0.1000	3
No Gas	Ge	72	863873.27	1.8	100.0	Pulse	0.1000	3
H2	Sc	45	133616.87	0.6	100.0	Pulse	0.1000	3
H2	Ge	72	99061.10	1.6	100.0	Pulse	0.1000	3
H2	In	115	256672.57	1.0	100.0	Pulse	0.1000	3
He	Sc	45	39471.48	1.1	100.0	Pulse	0.1000	3
He	Ge	72	68108.04	1.1	100.0	Pulse	0.1000	3
He	In	115	55404.90	1.3	100.0	Pulse	0.1000	3
He	Tb	159	204788.60	0.3	100.0	Pulse	0.1000	3
He	Bi	209	151267.00	0.4	100.0	Pulse	0.1000	3

No Gas

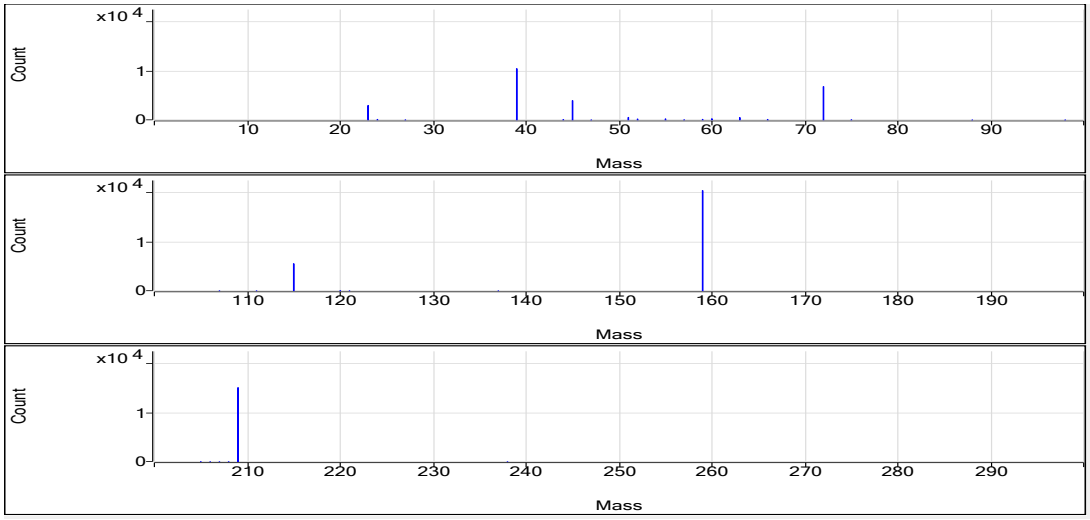


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.008	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.002	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.01	0	50.00	0.0003	2.616E-05
Se	78	2	H2	-0.004	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	0.064	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	-0.06	0	4.00	0.0004	6.3E-05
Na	23	3	He	-1.703	0.7459	29777.35	0.0025	0.7502
Na	23	3	He	1.587	0.7541	29757.12	0.0025	0.7502
Na	23	3	He	0.116	0.7505	29296.14	0.0025	0.7502
Mg	24	3	He	-0.106	0.0261	1040.06	0.0012	0.02618
Mg	24	3	He	-0.063	0.0261	1030.07	0.0012	0.02618
Mg	24	3	He	0.169	0.0264	1030.07	0.0012	0.02618
Al	27	3	He	-2.175	0.0045	180.01	0.0004	0.005329
Al	27	3	He	-2.035	0.0046	180.01	0.0004	0.005329
Al	27	3	He	4.209	0.0069	270.01	0.0004	0.005329
K	39	3	He	84.584	0.6146	24536.33	0.001	0.5307
K	39	3	He	-32.294	0.4986	19673.76	0.001	0.5307
K	39	3	He	-52.29	0.4787	18688.54	0.001	0.5307
Ca	44	3	He	4.152	0.0047	186.00	0.0001	0.004441
Ca	44	3	He	-2.518	0.0043	170.00	0.0001	0.004441
Ca	44	3	He	-1.634	0.0044	170.00	0.0001	0.004441
Ti	47	3	He	0.11	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	-0.123	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.013	0.0005	18.00	0.0004	0.0004559
V	51	3	He	0.066	0.0273	1088.04	0.0176	0.02609
V	51	3	He	-0.123	0.0239	944.03	0.0176	0.02609
V	51	3	He	0.057	0.0271	1058.04	0.0176	0.02609
Cr	52	3	He	-0.104	0.0484	1930.17	0.0217	0.05061
Cr	52	3	He	-0.031	0.0499	1970.18	0.0217	0.05061
Cr	52	3	He	0.135	0.0535	2090.19	0.0217	0.05061
Mn	55	3	He	-0.026	0.0105	418.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.026	0.0109	432.01	0.0091	0.01071
Mn	55	3	He	0	0.0107	418.01	0.0091	0.01071
Fe	57	3	He	-0.464	0.0083	330.01	0.0004	0.008452
Fe	57	3	He	-4.03	0.0068	270.01	0.0004	0.008452
Fe	57	3	He	4.495	0.0102	400.02	0.0004	0.008452
Co	59	3	He	0.001	0.0061	242.00	0.0413	0.006013
Co	59	3	He	-0.006	0.0058	228.00	0.0413	0.006013
Co	59	3	He	0.005	0.0062	242.00	0.0413	0.006013
Ni	60	3	He	0.107	0.013	518.01	0.0117	0.01172
Ni	60	3	He	-0.087	0.0107	422.01	0.0117	0.01172
Ni	60	3	He	-0.02	0.0115	448.01	0.0117	0.01172
Cu	63	3	He	0.001	0.0145	976.03	0.0196	0.01443
Cu	63	3	He	-0.044	0.0136	922.03	0.0196	0.01443
Cu	63	3	He	0.043	0.0153	1052.04	0.0196	0.01443
Zn	66	3	He	-0.036	0.0027	184.00	0.0023	0.002807
Zn	66	3	He	-0.121	0.0025	172.00	0.0023	0.002807
Zn	66	3	He	0.157	0.0032	218.00	0.0023	0.002807
As	75	3	He	-0.111	0.0011	72.00	0.0018	0.001271
As	75	3	He	-0.003	0.0013	86.00	0.0018	0.001271
As	75	3	He	0.114	0.0015	102.00	0.0018	0.001271
Sr	88	3	He	0.035	0.0014	80.00	0.0082	0.00114
Sr	88	3	He	-0.05	0.0007	40.00	0.0082	0.00114
Sr	88	3	He	0.015	0.0013	70.00	0.0082	0.00114
Mo	98	3	He	0.006	0.0016	90.00	0.0177	0.001504
Mo	98	3	He	0.008	0.0016	90.00	0.0177	0.001504
Mo	98	3	He	-0.014	0.0013	70.00	0.0177	0.001504
Ag	107	3	He	-0.002	0.0012	70.00	0.0368	0.001325
Ag	107	3	He	0.009	0.0016	90.00	0.0368	0.001325
Ag	107	3	He	-0.007	0.0011	60.00	0.0368	0.001325
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.192	0.0086	480.02	0.0126	0.01097
Sn	120	3	He	0.087	0.0121	660.04	0.0126	0.01097
Sn	120	3	He	0.105	0.0123	680.04	0.0126	0.01097
Sb	121	3	He	0.024	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	-0.005	0.0003	16.67	0.012	0.0003595
Sb	121	3	He	-0.02	0.0001	6.67	0.012	0.0003595
Ba	137	3	He	-0.093	0	0.00	0.0039	0.0003633
Ba	137	3	He	0.047	0.0005	30.00	0.0039	0.0003633
Ba	137	3	He	0.046	0.0005	30.00	0.0039	0.0003633
Tl	205	3	He	-0.006	0.0012	250.01	0.0189	0.001334
Tl	205	3	He	0.017	0.0017	340.01	0.0189	0.001334
Tl	205	3	He	-0.011	0.0011	230.01	0.0189	0.001334
Pb	208	3	He	-0.015	0.0011	140.01	0.0252	0.001497
Pb	208	3	He	0.006	0.0017	140.01	0.0252	0.001497
Pb	208	3	He	0.009	0.0017	180.01	0.0252	0.001497
U	238	3	He	-0.003	0	10.00	0.0245	0.0001141
U	238	3	He	-0.003	0	10.00	0.0245	0.0001141
U	238	3	He	0.005	0.0002	50.00	0.0245	0.0001141
Sc	45	1	No Gas			1708636.38		
Sc	45	1	No Gas			1724362.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1692567.94		
Ge	72	1	No Gas			861486.71		
Ge	72	1	No Gas			880207.80		
Ge	72	1	No Gas			849925.30		
Sc	45	2	H2			132662.62		
Sc	45	2	H2			134245.30		
Sc	45	2	H2			133942.70		
Ge	72	2	H2			97846.27		
Ge	72	2	H2			98531.68		
Ge	72	2	H2			100805.34		
In	115	2	H2			259528.20		
In	115	2	H2			254925.19		
In	115	2	H2			255564.31		
Sc	45	3	He			39919.20		
Sc	45	3	He			39458.32		
Sc	45	3	He			39036.93		
Ge	72	3	He			67481.80		
Ge	72	3	He			67934.06		
Ge	72	3	He			68908.26		
In	115	3	He			56121.22		
In	115	3	He			54727.15		
In	115	3	He			55379.07		
Tb	159	3	He			204568.14		
Tb	159	3	He			205582.46		
Tb	159	3	He			204215.21		
Bi	209	3	He			151529.39		
Bi	209	3	He			150610.25		
Bi	209	3	He			151661.36		

Quantitation Report

Data File Name	019CALS.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 9:10:05 AM
Sample Name	STD1 8033211
Sample Type	CalStd
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

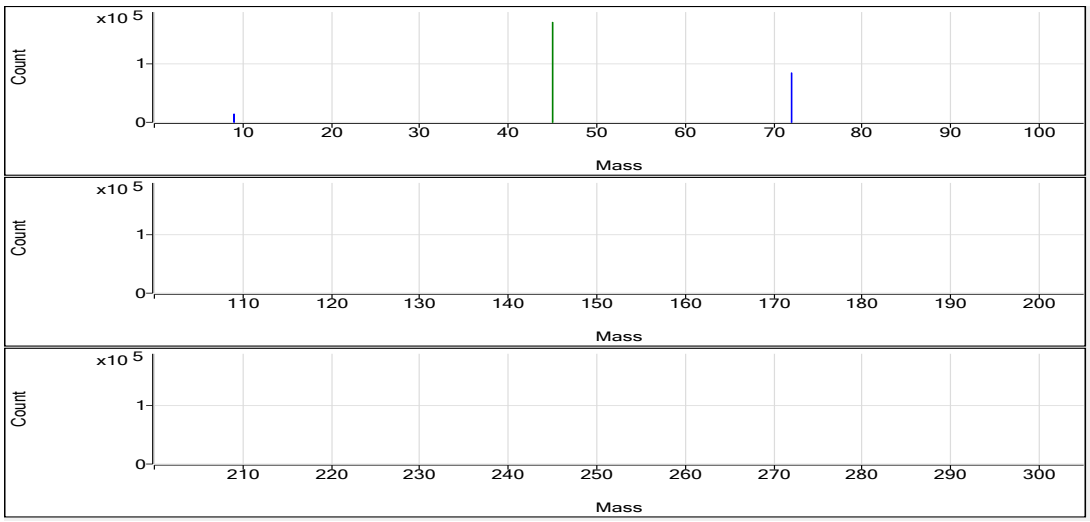
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	50.000	ppb	5.7	28842.56	0.0169	Pulse	0.5000	3
Se	78	72	H2	50.000	ppb	0.3	1905.01	0.0195	Pulse	1.5000	3
Na	23	45	He	5000.000	ppb	0.5	541394.09	13.2138	Pulse	0.1000	3
Mg	24	45	He	5000.000	ppb	0.9	249126.36	6.0806	Pulse	0.1000	3
Al	27	45	He	5000.000	ppb	2.3	77467.36	1.8908	Pulse	0.1000	3
K	39	45	He	5000.000	ppb	1.7	225151.70	5.4954	Pulse	0.5000	3
Ca	44	45	He	5000.000	ppb	0.6	10965.69	0.2676	Pulse	0.5000	3
Ti	47	45	He	5000.000	ppb	0.8	83802.42	2.0453	Pulse	0.5000	3
V	51	45	He	500.000	ppb	0.3	361383.96	8.8203	Pulse	0.5000	3
Cr	52	45	He	500.000	ppb	0.5	447131.35	10.9129	Pulse	0.1000	3
Mn	55	45	He	500.000	ppb	0.1	187159.36	4.5680	Pulse	0.5000	3
Fe	57	45	He	5000.000	ppb	1.6	82154.47	2.0051	Pulse	0.1000	3
Co	59	45	He	500.000	ppb	0.7	846060.83	20.6503	Pulse	0.5000	3
Ni	60	45	He	500.000	ppb	1.0	241083.31	5.8843	Pulse	0.5000	3
Cu	63	72	He	500.000	ppb	2.0	670942.79	9.7955	Pulse	0.5000	3
Zn	66	72	He	500.000	ppb	2.3	78024.98	1.1392	Pulse	0.5000	3
As	75	72	He	500.000	ppb	2.0	63128.93	0.9216	Pulse	0.5000	3
Sr	88	115	He	50.000	ppb	0.7	23137.35	0.4120	Pulse	0.1000	3
Mo	98	115	He	50.000	ppb	2.3	49812.88	0.8871	Pulse	0.1000	3
Ag	107	115	He	50.000	ppb	1.5	103325.81	1.8400	Pulse	0.1000	3
Cd	111	115	He	50.000	ppb	3.2	11518.95	0.2052	Pulse	0.5000	3
Sn	120	115	He	50.000	ppb	2.6	35955.66	0.6403	Pulse	0.1000	3
Sb	121	115	He	50.000	ppb	1.2	33843.48	0.6027	Pulse	0.3000	3
Ba	137	115	He	500.000	ppb	2.1	109563.10	1.9512	Pulse	0.1000	3
Tl	205	159	He	50.000	ppb	0.8	196327.68	0.9483	Pulse	0.1000	3
Pb	208	159	He	50.000	ppb	1.4	260695.10	1.2594	Pulse	0.1000	3
U	238	159	He	50.000	ppb	1.6	254103.53	1.2275	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1711319.03	0.7	100.2	Analog	0.1000	3
No Gas	Ge	72	845951.71	0.3	97.9	Pulse	0.1000	3
H2	Sc	45	134925.06	0.2	101.0	Pulse	0.1000	3
H2	Ge	72	97927.46	1.2	98.9	Pulse	0.1000	3
H2	In	115	255977.05	1.3	99.7	Pulse	0.1000	3
He	Sc	45	40971.86	0.6	103.8	Pulse	0.1000	3
He	Ge	72	68516.30	2.4	100.6	Pulse	0.1000	3
He	In	115	56164.56	1.7	101.4	Pulse	0.1000	3
He	Tb	159	207030.79	1.6	101.1	Pulse	0.1000	3
He	Bi	209	153961.36	1.7	101.8	Pulse	0.1000	3

No Gas



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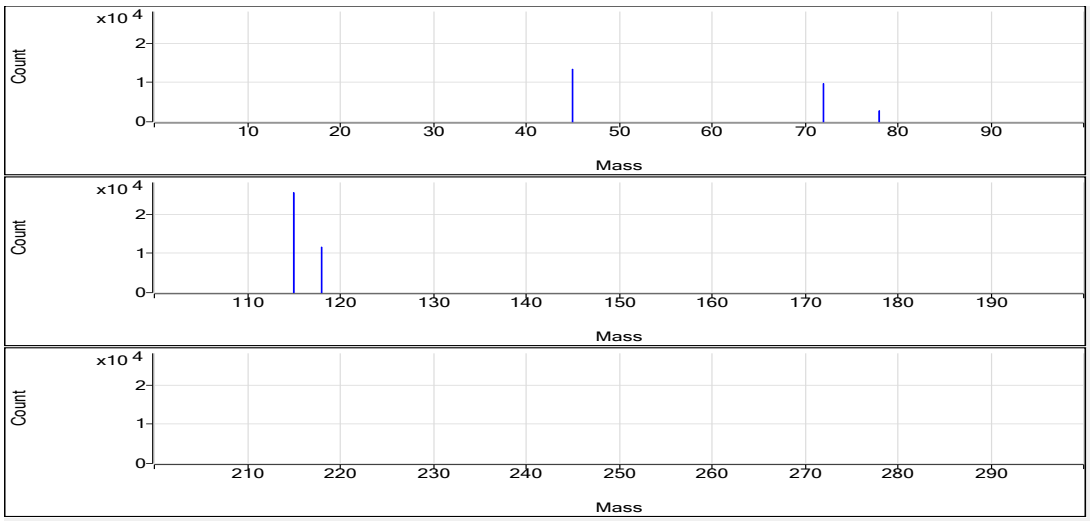
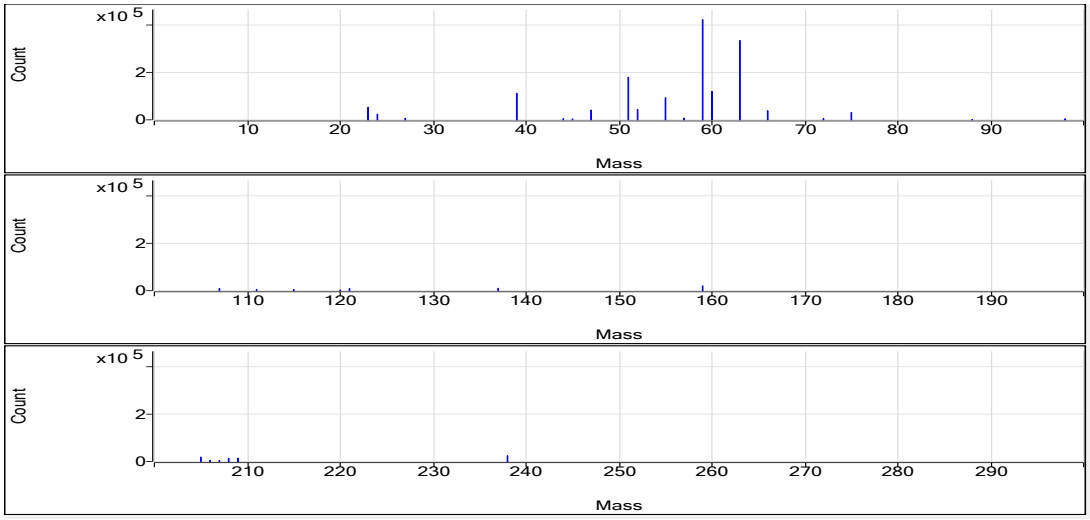


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	47.128	0.0159	27303.95	0.0003	2.616E-05
Be	9	1	No Gas	50.067	0.0169	28638.19	0.0003	2.616E-05
Be	9	1	No Gas	52.804	0.0178	30585.54	0.0003	2.616E-05
Se	78	2	H2	49.838	0.0194	1899.45	0.0004	6.3E-05
Se	78	2	H2	50.026	0.0195	1928.12	0.0004	6.3E-05
Se	78	2	H2	50.137	0.0195	1887.45	0.0004	6.3E-05
Na	23	3	He	5020.508	13.2649	540959.02	0.0025	0.7502
Na	23	3	He	4971.193	13.142	537666.59	0.0025	0.7502
Na	23	3	He	5008.299	13.2345	545556.67	0.0025	0.7502
Mg	24	3	He	5053.803	6.1457	250629.02	0.0012	0.02618
Mg	24	3	He	4966.451	6.0399	247106.29	0.0012	0.02618
Mg	24	3	He	4979.745	6.056	249643.77	0.0012	0.02618
Al	27	3	He	5128.618	1.9393	79088.42	0.0004	0.005329
Al	27	3	He	4911.581	1.8575	75993.90	0.0004	0.005329
Al	27	3	He	4959.801	1.8757	77319.77	0.0004	0.005329
K	39	3	He	5091.42	5.5862	227811.67	0.001	0.5307
K	39	3	He	4928.716	5.4246	221933.42	0.001	0.5307
K	39	3	He	4979.864	5.4754	225710.00	0.001	0.5307
Ca	44	3	He	4973.451	0.2662	10857.61	0.0001	0.004441
Ca	44	3	He	5029.752	0.2692	11013.72	0.0001	0.004441
Ca	44	3	He	4996.797	0.2675	11025.73	0.0001	0.004441
Ti	47	3	He	4962.383	2.0299	82782.64	0.0004	0.0004559
Ti	47	3	He	4997.799	2.0444	83640.99	0.0004	0.0004559
Ti	47	3	He	5039.817	2.0616	84983.64	0.0004	0.0004559
V	51	3	He	501.48	8.8463	360764.19	0.0176	0.02609
V	51	3	He	498.493	8.7938	359773.06	0.0176	0.02609
V	51	3	He	500.028	8.8208	363614.63	0.0176	0.02609
Cr	52	3	He	498.199	10.8738	443446.83	0.0217	0.05061
Cr	52	3	He	499.133	10.8941	445700.93	0.0217	0.05061
Cr	52	3	He	502.668	10.9709	452246.28	0.0217	0.05061
Mn	55	3	He	499.255	4.5612	186010.58	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	500.422	4.5718	187042.94	0.0091	0.01071
Mn	55	3	He	500.324	4.5709	188424.56	0.0091	0.01071
Fe	57	3	He	5061.35	2.0296	82770.99	0.0004	0.008452
Fe	57	3	He	4907.9	1.9684	80529.71	0.0004	0.008452
Fe	57	3	He	5030.75	2.0174	83162.70	0.0004	0.008452
Co	59	3	He	502.728	20.7629	846736.50	0.0413	0.006013
Co	59	3	He	501.04	20.6933	846604.88	0.0413	0.006013
Co	59	3	He	496.232	20.4947	844841.13	0.0413	0.006013
Ni	60	3	He	505.821	5.9526	242755.78	0.0117	0.01172
Ni	60	3	He	497.04	5.8495	239315.52	0.0117	0.01172
Ni	60	3	He	497.139	5.8507	241178.63	0.0117	0.01172
Cu	63	3	He	488.301	9.5666	671899.50	0.0196	0.01443
Cu	63	3	He	506.985	9.9321	665247.13	0.0196	0.01443
Cu	63	3	He	504.714	9.8877	675681.75	0.0196	0.01443
Zn	66	3	He	486.827	1.1092	77905.78	0.0023	0.002807
Zn	66	3	He	507.964	1.1573	77513.68	0.0023	0.002807
Zn	66	3	He	505.21	1.151	78655.49	0.0023	0.002807
As	75	3	He	488.527	0.9005	63247.44	0.0018	0.001271
As	75	3	He	506.741	0.9341	62562.67	0.0018	0.001271
As	75	3	He	504.732	0.9304	63576.69	0.0018	0.001271
Sr	88	3	He	50.069	0.4125	22756.78	0.0082	0.00114
Sr	88	3	He	49.64	0.409	23037.30	0.0082	0.00114
Sr	88	3	He	50.291	0.4143	23617.97	0.0082	0.00114
Mo	98	3	He	50.831	0.9018	49749.25	0.0177	0.001504
Mo	98	3	He	50.505	0.896	50471.58	0.0177	0.001504
Mo	98	3	He	48.665	0.8635	49217.82	0.0177	0.001504
Ag	107	3	He	50.529	1.8594	102574.37	0.0368	0.001325
Ag	107	3	He	50.346	1.8527	104356.06	0.0368	0.001325
Ag	107	3	He	49.126	1.8078	103046.99	0.0368	0.001325
Cd	111	3	He	51.637	0.2119	11688.41	0.0041	4.798E-05
Cd	111	3	He	49.879	0.2047	11528.29	0.0041	4.798E-05
Cd	111	3	He	48.484	0.1989	11340.15	0.0041	4.798E-05
Sn	120	3	He	51.382	0.6577	36283.00	0.0126	0.01097
Sn	120	3	He	48.792	0.6251	35210.71	0.0126	0.01097
Sn	120	3	He	49.825	0.6381	36373.28	0.0126	0.01097
Sb	121	3	He	50.603	0.6099	33646.39	0.012	0.0003595
Sb	121	3	He	50.016	0.6029	33956.99	0.012	0.0003595
Sb	121	3	He	49.381	0.5952	33927.07	0.012	0.0003595
Ba	137	3	He	512.211	1.9988	110264.77	0.0039	0.0003633
Ba	137	3	He	492.889	1.9234	108340.47	0.0039	0.0003633
Ba	137	3	He	494.9	1.9313	110084.06	0.0039	0.0003633
Tl	205	3	He	50.118	0.9506	199898.02	0.0189	0.001334
Tl	205	3	He	49.565	0.9401	194547.26	0.0189	0.001334
Tl	205	3	He	50.317	0.9543	194537.75	0.0189	0.001334
Pb	208	3	He	49.613	1.2496	140611.31	0.0252	0.001497
Pb	208	3	He	49.606	1.2494	138229.36	0.0252	0.001497
Pb	208	3	He	50.781	1.279	139118.42	0.0252	0.001497
U	238	3	He	49.536	1.2162	255751.62	0.0245	0.0001141
U	238	3	He	49.564	1.2168	251824.51	0.0245	0.0001141
U	238	3	He	50.9	1.2496	254734.45	0.0245	0.0001141
Sc	45	1	No Gas			1718575.44		
Sc	45	1	No Gas			1696896.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1718484.97		
Ge	72	1	No Gas			847854.60		
Ge	72	1	No Gas			843229.44		
Ge	72	1	No Gas			846771.08		
Sc	45	2	H2			135152.99		
Sc	45	2	H2			134689.78		
Sc	45	2	H2			134932.41		
Ge	72	2	H2			97958.24		
Ge	72	2	H2			99064.09		
Ge	72	2	H2			96760.06		
In	115	2	H2			254960.35		
In	115	2	H2			259743.53		
In	115	2	H2			253227.26		
Sc	45	3	He			40781.16		
Sc	45	3	He			40912.09		
Sc	45	3	He			41222.34		
Ge	72	3	He			70233.72		
Ge	72	3	He			66979.48		
Ge	72	3	He			68335.69		
In	115	3	He			55419.43		
In	115	3	He			56573.57		
In	115	3	He			57255.74		
Tb	159	3	He			210295.66		
Tb	159	3	He			206948.36		
Tb	159	3	He			203848.36		
Bi	209	3	He			152186.42		
Bi	209	3	He			152670.97		
Bi	209	3	He			157026.69		

Quantitation Report

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Sample Name	ICV 8015782
Sample Type	ICV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

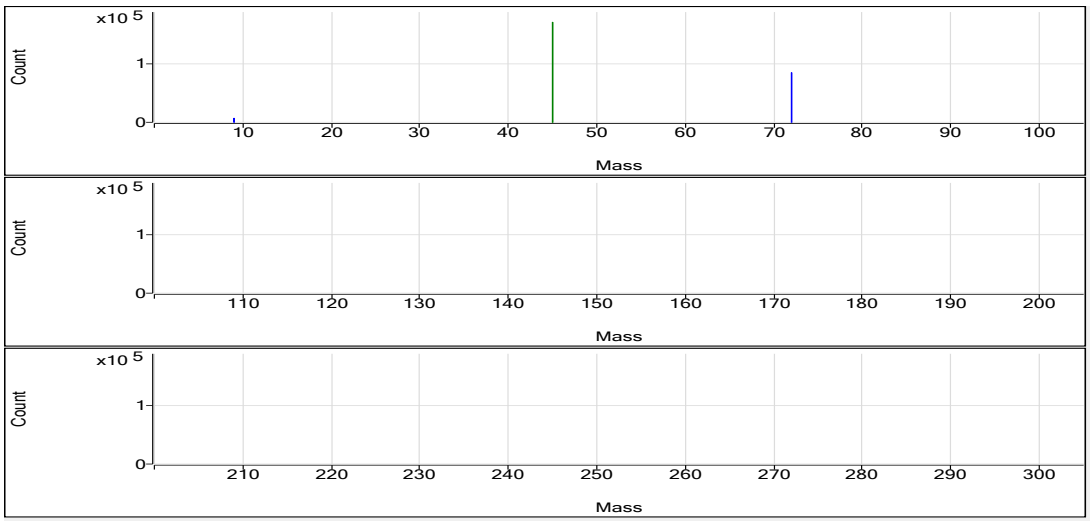
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	25.028	ppb	6.0	14403.50	0.0084	Pulse	0.5000	3
Se	78	72	H2	24.808	ppb	2.3	959.81	0.0097	Pulse	1.5000	3
Na	23	45	He	2593.020	ppb	2.5	283999.42	7.2139	Pulse	0.1000	3
Mg	24	45	He	2625.011	ppb	2.4	126164.27	3.2047	Pulse	0.1000	3
Al	27	45	He	2619.390	ppb	2.3	39096.64	0.9931	Pulse	0.1000	3
K	39	45	He	2602.706	ppb	1.5	122658.05	3.1150	Pulse	0.5000	3
Ca	44	45	He	2578.961	ppb	4.9	5518.29	0.1402	Pulse	0.5000	3
Ti	47	45	He	2571.945	ppb	2.4	41426.65	1.0523	Pulse	0.5000	3
V	51	45	He	259.134	ppb	2.2	180466.47	4.5839	Pulse	0.5000	3
Cr	52	45	He	257.908	ppb	2.6	222563.74	5.6536	Pulse	0.1000	3
Mn	55	45	He	260.604	ppb	1.5	93941.54	2.3860	Pulse	0.5000	3
Fe	57	45	He	2672.886	ppb	1.2	42359.06	1.0758	Pulse	0.1000	3
Co	59	45	He	260.962	ppb	2.5	424411.11	10.7808	Pulse	0.5000	3
Ni	60	45	He	260.629	ppb	2.3	120972.24	3.0728	Pulse	0.5000	3
Cu	63	72	He	255.129	ppb	2.5	339944.70	5.0053	Pulse	0.5000	3
Zn	66	72	He	253.394	ppb	2.6	39302.77	0.5787	Pulse	0.5000	3
As	75	72	He	245.944	ppb	1.8	30836.14	0.4540	Pulse	0.5000	3
Sr	88	115	He	24.289	ppb	2.7	11261.06	0.2007	Pulse	0.1000	3
Mo	98	115	He	24.544	ppb	3.8	24459.52	0.4362	Pulse	0.1000	3
Ag	107	115	He	24.460	ppb	2.8	50515.45	0.9008	Pulse	0.1000	3
Cd	111	115	He	26.831	ppb	1.2	6177.92	0.1101	Pulse	0.5000	3
Sn	120	115	He	24.811	ppb	3.2	18127.70	0.3233	Pulse	0.1000	3
Sb	121	115	He	26.763	ppb	2.2	18101.73	0.3228	Pulse	0.3000	3
Ba	137	115	He	253.022	ppb	2.7	55387.34	0.9876	Pulse	0.1000	3
Tl	205	159	He	24.829	ppb	0.8	97648.23	0.4716	Pulse	0.1000	3
Pb	208	159	He	25.013	ppb	0.2	130608.22	0.6308	Pulse	0.1000	3
U	238	159	He	25.557	ppb	1.7	129925.78	0.6275	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1703918.88	1.3	99.7	Analog	0.1000	3
No Gas	Ge	72	845896.94	0.8	97.9	Pulse	0.1000	3
H2	Sc	45	134773.09	1.5	100.9	Pulse	0.1000	3
H2	Ge	72	99110.61	0.5	100.0	Pulse	0.1000	3
H2	In	115	253221.56	0.9	98.7	Pulse	0.1000	3
He	Sc	45	39378.06	1.6	99.8	Pulse	0.1000	3
He	Ge	72	67937.30	1.9	99.7	Pulse	0.1000	3
He	In	115	56105.00	2.4	101.3	Pulse	0.1000	3
He	Tb	159	207062.94	0.4	101.1	Pulse	0.1000	3
He	Bi	209	151281.22	1.2	100.0	Pulse	0.1000	3

No Gas



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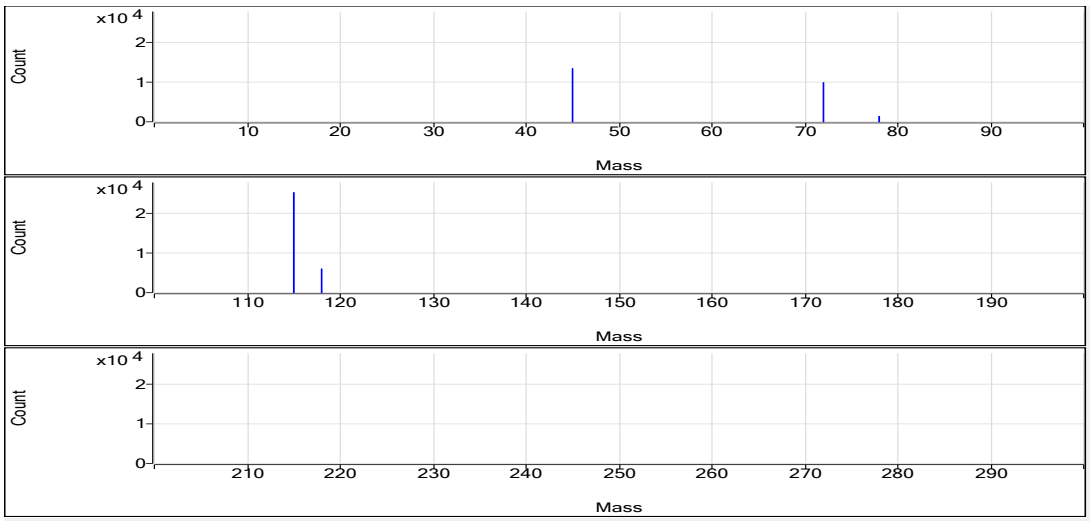
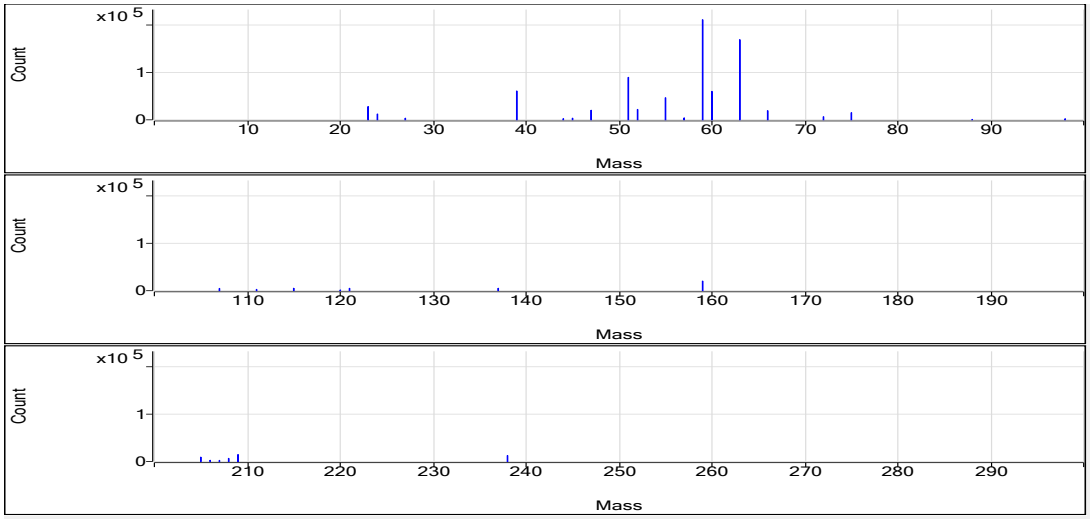


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.434	0.0079	13369.31	0.0003	2.616E-05
Be	9	1	No Gas	25.262	0.0085	14432.17	0.0003	2.616E-05
Be	9	1	No Gas	26.387	0.0089	15409.03	0.0003	2.616E-05
Se	78	2	H2	25.257	0.0099	982.70	0.0004	6.3E-05
Se	78	2	H2	25.015	0.0098	964.70	0.0004	6.3E-05
Se	78	2	H2	24.152	0.0094	932.03	0.0004	6.3E-05
Na	23	3	He	2525.743	7.0462	282477.32	0.0025	0.7502
Na	23	3	He	2653.14	7.3637	285837.36	0.0025	0.7502
Na	23	3	He	2600.178	7.2317	283683.59	0.0025	0.7502
Mg	24	3	He	2561.617	3.128	125399.20	0.0012	0.02618
Mg	24	3	He	2686.581	3.2793	127292.21	0.0012	0.02618
Mg	24	3	He	2626.835	3.207	125801.40	0.0012	0.02618
Al	27	3	He	2554.091	0.9685	38825.90	0.0004	0.005329
Al	27	3	He	2673.899	1.0137	39347.16	0.0004	0.005329
Al	27	3	He	2630.18	0.9972	39116.85	0.0004	0.005329
K	39	3	He	2601.662	3.114	124838.29	0.001	0.5307
K	39	3	He	2641.583	3.1536	122414.15	0.001	0.5307
K	39	3	He	2564.873	3.0775	120721.70	0.001	0.5307
Ca	44	3	He	2439.879	0.1329	5326.89	0.0001	0.004441
Ca	44	3	He	2614.677	0.1421	5514.96	0.0001	0.004441
Ca	44	3	He	2682.328	0.1456	5713.02	0.0001	0.004441
Ti	47	3	He	2501.838	1.0236	41036.98	0.0004	0.0004559
Ti	47	3	He	2622.675	1.0731	41652.60	0.0004	0.0004559
Ti	47	3	He	2591.32	1.0602	41590.38	0.0004	0.0004559
V	51	3	He	255.004	4.5112	180852.95	0.0176	0.02609
V	51	3	He	265.744	4.7001	182444.19	0.0176	0.02609
V	51	3	He	256.652	4.5402	178102.28	0.0176	0.02609
Cr	52	3	He	250.484	5.4923	220183.02	0.0217	0.05061
Cr	52	3	He	263.643	5.7782	224290.99	0.0217	0.05061
Cr	52	3	He	259.598	5.6903	223217.20	0.0217	0.05061
Mn	55	3	He	256.15	2.3454	94025.91	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	262.739	2.4055	93372.44	0.0091	0.01071
Mn	55	3	He	262.923	2.4071	94426.27	0.0091	0.01071
Fe	57	3	He	2643.93	1.0643	42666.15	0.0004	0.008452
Fe	57	3	He	2708.057	1.0899	42305.81	0.0004	0.008452
Fe	57	3	He	2666.67	1.0734	42105.21	0.0004	0.008452
Co	59	3	He	253.682	10.4802	420145.03	0.0413	0.006013
Co	59	3	He	265.988	10.9883	426531.97	0.0413	0.006013
Co	59	3	He	263.216	10.8738	426556.34	0.0413	0.006013
Ni	60	3	He	254.105	2.9962	120116.39	0.0117	0.01172
Ni	60	3	He	265.535	3.1305	121514.80	0.0117	0.01172
Ni	60	3	He	262.246	3.0918	121285.53	0.0117	0.01172
Cu	63	3	He	249.287	4.891	338897.16	0.0196	0.01443
Cu	63	3	He	261.793	5.1356	342901.50	0.0196	0.01443
Cu	63	3	He	254.308	4.9892	338035.44	0.0196	0.01443
Zn	66	3	He	246.092	0.5621	38948.57	0.0023	0.002807
Zn	66	3	He	259.275	0.5921	39531.96	0.0023	0.002807
Zn	66	3	He	254.814	0.5819	39427.79	0.0023	0.002807
As	75	3	He	241.447	0.4457	30883.57	0.0018	0.001271
As	75	3	He	250.377	0.4622	30857.45	0.0018	0.001271
As	75	3	He	246.008	0.4541	30767.39	0.0018	0.001271
Sr	88	3	He	23.753	0.1963	11204.37	0.0082	0.00114
Sr	88	3	He	25.022	0.2067	11714.63	0.0082	0.00114
Sr	88	3	He	24.093	0.1991	10864.18	0.0082	0.00114
Mo	98	3	He	23.832	0.4236	24179.37	0.0177	0.001504
Mo	98	3	He	24.204	0.4302	24379.19	0.0177	0.001504
Mo	98	3	He	25.595	0.4548	24820.01	0.0177	0.001504
Ag	107	3	He	23.896	0.88	50231.20	0.0368	0.001325
Ag	107	3	He	24.262	0.8935	50632.55	0.0368	0.001325
Ag	107	3	He	25.222	0.9288	50682.61	0.0368	0.001325
Cd	111	3	He	27.07	0.1111	6341.32	0.0041	4.798E-05
Cd	111	3	He	26.466	0.1086	6155.25	0.0041	4.798E-05
Cd	111	3	He	26.957	0.1106	6037.19	0.0041	4.798E-05
Sn	120	3	He	24.267	0.3164	18060.81	0.0126	0.01097
Sn	120	3	He	24.436	0.3185	18051.06	0.0126	0.01097
Sn	120	3	He	25.73	0.3348	18271.22	0.0126	0.01097
Sb	121	3	He	26.436	0.3188	18197.42	0.012	0.0003595
Sb	121	3	He	26.418	0.3186	18053.90	0.012	0.0003595
Sb	121	3	He	27.436	0.3308	18053.86	0.012	0.0003595
Ba	137	3	He	245.477	0.9581	54688.05	0.0039	0.0003633
Ba	137	3	He	255.019	0.9953	56403.81	0.0039	0.0003633
Ba	137	3	He	258.569	1.0092	55070.17	0.0039	0.0003633
Tl	205	3	He	24.931	0.4735	98490.06	0.0189	0.001334
Tl	205	3	He	24.954	0.474	97725.45	0.0189	0.001334
Tl	205	3	He	24.602	0.4673	96729.19	0.0189	0.001334
Pb	208	3	He	25.021	0.631	70862.24	0.0252	0.001497
Pb	208	3	He	25.063	0.632	70360.22	0.0252	0.001497
Pb	208	3	He	24.957	0.6293	70571.46	0.0252	0.001497
U	238	3	He	25.154	0.6176	128461.29	0.0245	0.0001141
U	238	3	He	26.003	0.6384	131641.24	0.0245	0.0001141
U	238	3	He	25.514	0.6264	129674.81	0.0245	0.0001141
Sc	45	1	No Gas			1689497.01		
Sc	45	1	No Gas			1692249.35		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1730010.29		
Ge	72	1	No Gas			845227.25		
Ge	72	1	No Gas			839770.30		
Ge	72	1	No Gas			852693.27		
Sc	45	2	H2			134215.18		
Sc	45	2	H2			136988.00		
Sc	45	2	H2			133116.08		
Ge	72	2	H2			99686.87		
Ge	72	2	H2			98802.38		
Ge	72	2	H2			98842.57		
In	115	2	H2			254691.85		
In	115	2	H2			254256.99		
In	115	2	H2			250715.84		
Sc	45	3	He			40089.52		
Sc	45	3	He			38816.93		
Sc	45	3	He			39227.73		
Ge	72	3	He			69289.90		
Ge	72	3	He			66768.91		
Ge	72	3	He			67753.09		
In	115	3	He			57205.36		
In	115	3	He			56793.98		
In	115	3	He			54696.36		
Tb	159	3	He			207997.22		
Tb	159	3	He			206189.33		
Tb	159	3	He			207002.26		
Bi	209	3	He			152913.81		
Bi	209	3	He			151642.09		
Bi	209	3	He			149287.75		

Quantitation Report

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Sample Type	ICB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

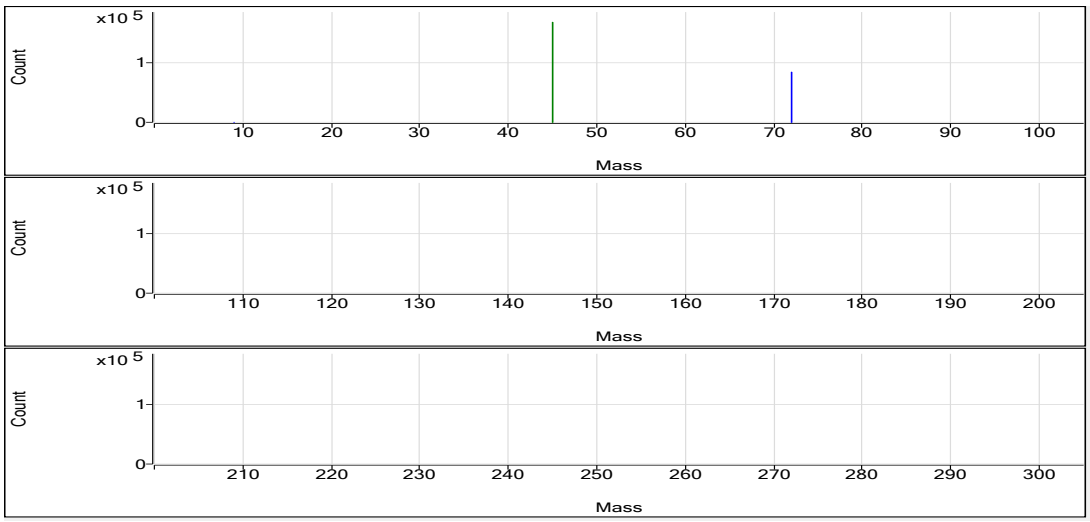
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.000	ppb	5040.1	44.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.041	ppb	243.8	7.78	0.0001	Pulse	1.5000	3
Na	23	45	He	11.293	ppb	116.1	30615.31	0.7783	Pulse	0.1000	3
Mg	24	45	He	4.264	ppb	63.8	1233.43	0.0313	Pulse	0.1000	3
Al	27	45	He	3.180	ppb	50.4	256.68	0.0065	Pulse	0.1000	3
K	39	45	He	-5.243	ppb	N/A	20699.86	0.5255	Pulse	0.5000	3
Ca	44	45	He	-7.738	ppb	N/A	158.67	0.0040	Pulse	0.5000	3
Ti	47	45	He	0.504	ppb	92.8	26.00	0.0007	Pulse	0.5000	3
V	51	45	He	0.035	ppb	298.0	1050.04	0.0267	Pulse	0.5000	3
Cr	52	45	He	-0.066	ppb	N/A	1933.52	0.0492	Pulse	0.1000	3
Mn	55	45	He	0.118	ppb	91.1	464.01	0.0118	Pulse	0.5000	3
Fe	57	45	He	-0.600	ppb	N/A	323.35	0.0082	Pulse	0.1000	3
Co	59	45	He	0.037	ppb	17.4	297.34	0.0076	Pulse	0.5000	3
Ni	60	45	He	0.108	ppb	81.7	511.34	0.0130	Pulse	0.5000	3
Cu	63	72	He	0.012	ppb	621.3	1015.37	0.0147	Pulse	0.5000	3
Zn	66	72	He	0.068	ppb	202.2	205.33	0.0030	Pulse	0.5000	3
As	75	72	He	0.004	ppb	2523.8	88.67	0.0013	Pulse	0.5000	3
Sr	88	115	He	-0.037	ppb	N/A	46.67	0.0008	Pulse	0.1000	3
Mo	98	115	He	0.067	ppb	42.1	150.01	0.0027	Pulse	0.1000	3
Ag	107	115	He	-0.002	ppb	N/A	70.00	0.0013	Pulse	0.1000	3
Cd	111	115	He	0.023	ppb	100.7	8.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.046	ppb	N/A	580.03	0.0104	Pulse	0.1000	3
Sb	121	115	He	0.021	ppb	82.7	34.44	0.0006	Pulse	0.3000	3
Ba	137	115	He	0.044	ppb	205.1	30.00	0.0005	Pulse	0.1000	3
Tl	205	159	He	0.021	ppb	38.3	353.35	0.0017	Pulse	0.1000	3
Pb	208	159	He	0.019	ppb	65.6	400.01	0.0020	Pulse	0.1000	3
U	238	159	He	0.004	ppb	78.4	43.33	0.0002	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1698001.28	0.9	99.4	Analog	0.1000	3
No Gas	Ge	72	853106.91	0.5	98.8	Pulse	0.1000	3
H2	Sc	45	132591.72	1.5	99.2	Pulse	0.1000	3
H2	Ge	72	98766.28	0.3	99.7	Pulse	0.1000	3
H2	In	115	250842.46	1.4	97.7	Pulse	0.1000	3
He	Sc	45	39344.55	1.7	99.7	Pulse	0.1000	3
He	Ge	72	69242.90	2.2	101.7	Pulse	0.1000	3
He	In	115	55896.77	1.2	100.9	Pulse	0.1000	3
He	Tb	159	203816.57	1.2	99.5	Pulse	0.1000	3
He	Bi	209	151639.47	0.2	100.2	Pulse	0.1000	3

No Gas



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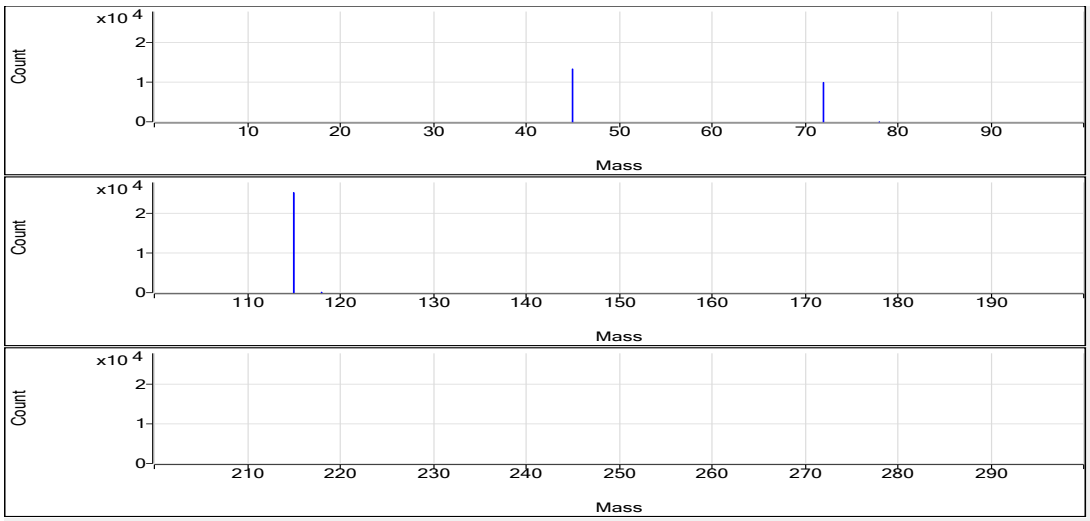
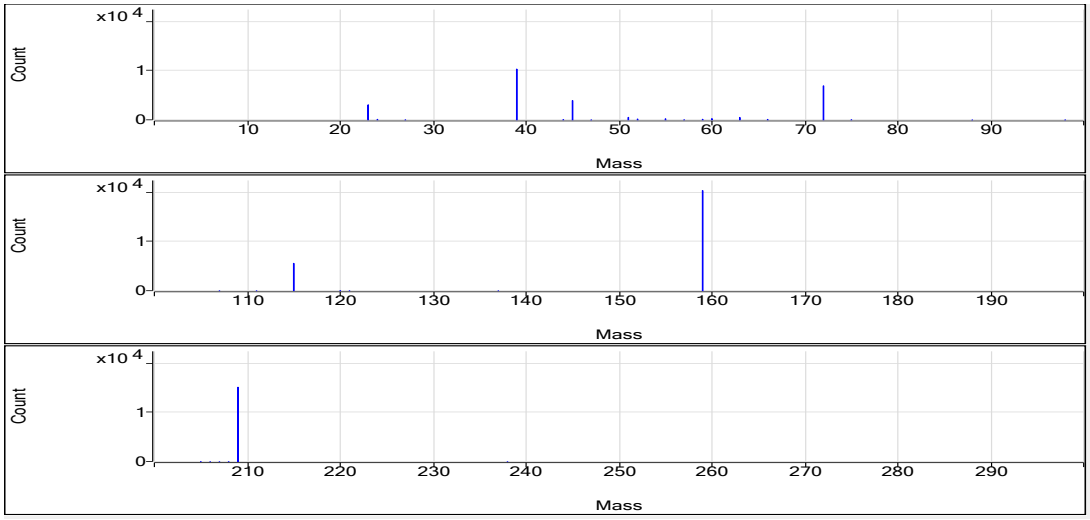


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.023	0	58.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.007	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.015	0	36.00	0.0003	2.616E-05
Se	78	2	H2	0.152	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.011	0.0001	6.67	0.0004	6.3E-05
Se	78	2	H2	-0.041	0	4.67	0.0004	6.3E-05
Na	23	3	He	7.603	0.7691	30818.89	0.0025	0.7502
Na	23	3	He	25.857	0.8146	31580.53	0.0025	0.7502
Na	23	3	He	0.419	0.7512	29446.51	0.0025	0.7502
Mg	24	3	He	5.586	0.0329	1320.11	0.0012	0.02618
Mg	24	3	He	6.074	0.0335	1300.11	0.0012	0.02618
Mg	24	3	He	1.133	0.0276	1080.07	0.0012	0.02618
Al	27	3	He	2.413	0.0062	250.01	0.0004	0.005329
Al	27	3	He	5.022	0.0072	280.01	0.0004	0.005329
Al	27	3	He	2.105	0.0061	240.01	0.0004	0.005329
K	39	3	He	74.861	0.605	24241.84	0.001	0.5307
K	39	3	He	-25.776	0.5051	19579.62	0.001	0.5307
K	39	3	He	-64.814	0.4663	18278.13	0.001	0.5307
Ca	44	3	He	-9.455	0.0039	158.00	0.0001	0.004441
Ca	44	3	He	-6.937	0.0041	158.00	0.0001	0.004441
Ca	44	3	He	-6.82	0.0041	160.00	0.0001	0.004441
Ti	47	3	He	0.35	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	1.03	0.0009	34.00	0.0004	0.0004559
Ti	47	3	He	0.133	0.0005	20.00	0.0004	0.0004559
V	51	3	He	-0.085	0.0246	986.03	0.0176	0.02609
V	51	3	He	0.086	0.0276	1070.04	0.0176	0.02609
V	51	3	He	0.103	0.0279	1094.04	0.0176	0.02609
Cr	52	3	He	-0.25	0.0452	1810.16	0.0217	0.05061
Cr	52	3	He	0.093	0.0526	2040.19	0.0217	0.05061
Cr	52	3	He	-0.039	0.0498	1950.20	0.0217	0.05061
Mn	55	3	He	0.156	0.0121	486.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.003	0.0107	414.01	0.0091	0.01071
Mn	55	3	He	0.202	0.0126	492.01	0.0091	0.01071
Fe	57	3	He	1.334	0.009	360.02	0.0004	0.008452
Fe	57	3	He	-0.494	0.0083	320.02	0.0004	0.008452
Fe	57	3	He	-2.639	0.0074	290.01	0.0004	0.008452
Co	59	3	He	0.032	0.0073	294.00	0.0413	0.006013
Co	59	3	He	0.036	0.0075	290.00	0.0413	0.006013
Co	59	3	He	0.045	0.0079	308.01	0.0413	0.006013
Ni	60	3	He	0.205	0.0141	566.01	0.0117	0.01172
Ni	60	3	He	0.087	0.0127	494.01	0.0117	0.01172
Ni	60	3	He	0.032	0.0121	474.01	0.0117	0.01172
Cu	63	3	He	0.095	0.0163	1104.04	0.0196	0.01443
Cu	63	3	He	-0.057	0.0133	920.03	0.0196	0.01443
Cu	63	3	He	0	0.0144	1022.04	0.0196	0.01443
Zn	66	3	He	-0.067	0.0027	180.00	0.0023	0.002807
Zn	66	3	He	0.064	0.003	204.00	0.0023	0.002807
Zn	66	3	He	0.206	0.0033	232.00	0.0023	0.002807
As	75	3	He	-0.098	0.0011	74.00	0.0018	0.001271
As	75	3	He	0.017	0.0013	90.00	0.0018	0.001271
As	75	3	He	0.092	0.0014	102.00	0.0018	0.001271
Sr	88	3	He	-0.051	0.0007	40.00	0.0082	0.00114
Sr	88	3	He	0.015	0.0013	70.00	0.0082	0.00114
Sr	88	3	He	-0.074	0.0005	30.00	0.0082	0.00114
Mo	98	3	He	0.087	0.0031	170.01	0.0177	0.001504
Mo	98	3	He	0.078	0.0029	160.01	0.0177	0.001504
Mo	98	3	He	0.035	0.0021	120.00	0.0177	0.001504
Ag	107	3	He	-0.012	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	0.028	0.0023	130.01	0.0368	0.001325
Ag	107	3	He	-0.022	0.0005	30.00	0.0368	0.001325
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.05	0.0003	14.00	0.0041	4.798E-05
Cd	111	3	He	0.014	0.0001	6.00	0.0041	4.798E-05
Sn	120	3	He	0.013	0.0111	620.03	0.0126	0.01097
Sn	120	3	He	0.034	0.0114	630.04	0.0126	0.01097
Sn	120	3	He	-0.184	0.0087	490.02	0.0126	0.01097
Sb	121	3	He	0.04	0.0008	46.67	0.012	0.0003595
Sb	121	3	He	0.02	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	0.004	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	-0.047	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.046	0.0005	30.00	0.0039	0.0003633
Ba	137	3	He	0.133	0.0009	50.00	0.0039	0.0003633
Tl	205	3	He	0.014	0.0016	330.02	0.0189	0.001334
Tl	205	3	He	0.03	0.0019	390.02	0.0189	0.001334
Tl	205	3	He	0.019	0.0017	340.02	0.0189	0.001334
Pb	208	3	He	0.026	0.0021	240.01	0.0252	0.001497
Pb	208	3	He	0.004	0.0016	170.01	0.0252	0.001497
Pb	208	3	He	0.025	0.0021	240.01	0.0252	0.001497
U	238	3	He	0.003	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.001	0.0001	30.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
Sc	45	1	No Gas			1707605.29		
Sc	45	1	No Gas			1680263.10		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1706135.44		
Ge	72	1	No Gas			855487.41		
Ge	72	1	No Gas			847775.30		
Ge	72	1	No Gas			856058.03		
Sc	45	2	H2			132641.95		
Sc	45	2	H2			130524.82		
Sc	45	2	H2			134608.40		
Ge	72	2	H2			98460.90		
Ge	72	2	H2			98933.81		
Ge	72	2	H2			98904.12		
In	115	2	H2			252222.18		
In	115	2	H2			253466.77		
In	115	2	H2			246838.43		
Sc	45	3	He			40069.49		
Sc	45	3	He			38766.34		
Sc	45	3	He			39197.81		
Ge	72	3	He			67793.50		
Ge	72	3	He			69108.89		
Ge	72	3	He			70826.31		
In	115	3	He			55740.16		
In	115	3	He			55329.04		
In	115	3	He			56633.28		
Tb	159	3	He			205439.88		
Tb	159	3	He			204895.25		
Tb	159	3	He			201114.57		
Bi	209	3	He			151521.36		
Bi	209	3	He			151349.83		
Bi	209	3	He			152047.23		

Quantitation Report

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Sample Type	CRI
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Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
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Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

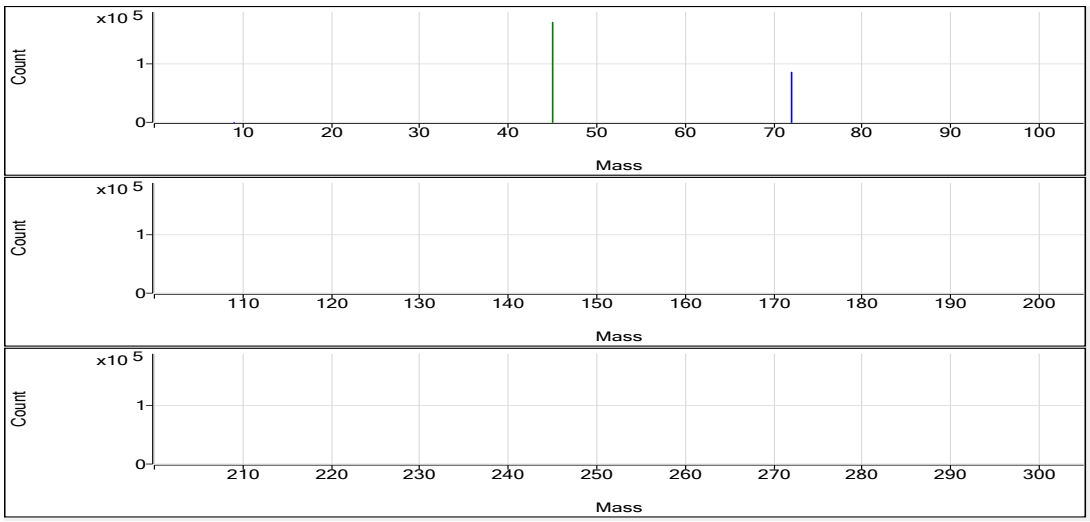
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.511	ppb	4.1	337.34	0.0002	Pulse	0.5000	3
Se	78	72	H2	0.938	ppb	14.6	42.45	0.0004	Pulse	1.5000	3
Na	23	45	He	224.396	ppb	4.3	51463.19	1.3095	Pulse	0.1000	3
Mg	24	45	He	52.346	ppb	10.6	3523.82	0.0896	Pulse	0.1000	3
Al	27	45	He	25.643	ppb	11.0	590.03	0.0150	Pulse	0.1000	3
K	39	45	He	213.263	ppb	38.0	29143.79	0.7424	Pulse	0.5000	3
Ca	44	45	He	106.515	ppb	10.0	394.68	0.0100	Pulse	0.5000	3
Ti	47	45	He	10.575	ppb	5.6	188.00	0.0048	Pulse	0.5000	3
V	51	45	He	2.081	ppb	3.4	2464.20	0.0627	Pulse	0.5000	3
Cr	52	45	He	2.261	ppb	18.6	3917.26	0.0997	Pulse	0.1000	3
Mn	55	45	He	2.171	ppb	4.7	1198.72	0.0305	Pulse	0.5000	3
Fe	57	45	He	53.193	ppb	13.0	1166.75	0.0297	Pulse	0.1000	3
Co	59	45	He	0.598	ppb	7.6	1206.05	0.0307	Pulse	0.5000	3
Ni	60	45	He	1.089	ppb	10.8	962.70	0.0245	Pulse	0.5000	3
Cu	63	72	He	1.070	ppb	1.5	2391.52	0.0354	Pulse	0.5000	3
Zn	66	72	He	10.529	ppb	1.4	1807.45	0.0267	Pulse	0.5000	3
As	75	72	He	2.047	ppb	1.9	340.68	0.0050	Pulse	0.5000	3
Sr	88	115	He	1.013	ppb	4.4	520.03	0.0095	Pulse	0.1000	3
Mo	98	115	He	0.480	ppb	17.8	550.03	0.0100	Pulse	0.1000	3
Ag	107	115	He	0.502	ppb	13.4	1086.74	0.0198	Pulse	0.1000	3
Cd	111	115	He	0.595	ppb	11.8	136.67	0.0025	Pulse	0.5000	3
Sn	120	115	He	1.753	ppb	17.7	1816.84	0.0330	Pulse	0.1000	3
Sb	121	115	He	0.925	ppb	10.7	632.24	0.0115	Pulse	0.3000	3
Ba	137	115	He	1.839	ppb	25.0	413.35	0.0075	Pulse	0.1000	3
Tl	205	159	He	0.522	ppb	9.9	2306.95	0.0112	Pulse	0.1000	3
Pb	208	159	He	0.513	ppb	3.3	2960.23	0.0144	Pulse	0.1000	3
U	238	159	He	1.036	ppb	4.2	5251.13	0.0255	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1702796.90	1.5	99.7	Analog	0.1000	3
No Gas	Ge	72	854553.35	0.9	98.9	Pulse	0.1000	3
H2	Sc	45	132693.30	0.4	99.3	Pulse	0.1000	3
H2	Ge	72	99338.86	1.4	100.3	Pulse	0.1000	3
H2	In	115	254183.57	0.4	99.0	Pulse	0.1000	3
He	Sc	45	39307.90	1.9	99.6	Pulse	0.1000	3
He	Ge	72	67602.69	1.1	99.3	Pulse	0.1000	3
He	In	115	54954.84	1.4	99.2	Pulse	0.1000	3
He	Tb	159	205546.02	0.9	100.4	Pulse	0.1000	3
He	Bi	209	151251.52	0.8	100.0	Pulse	0.1000	3

No Gas



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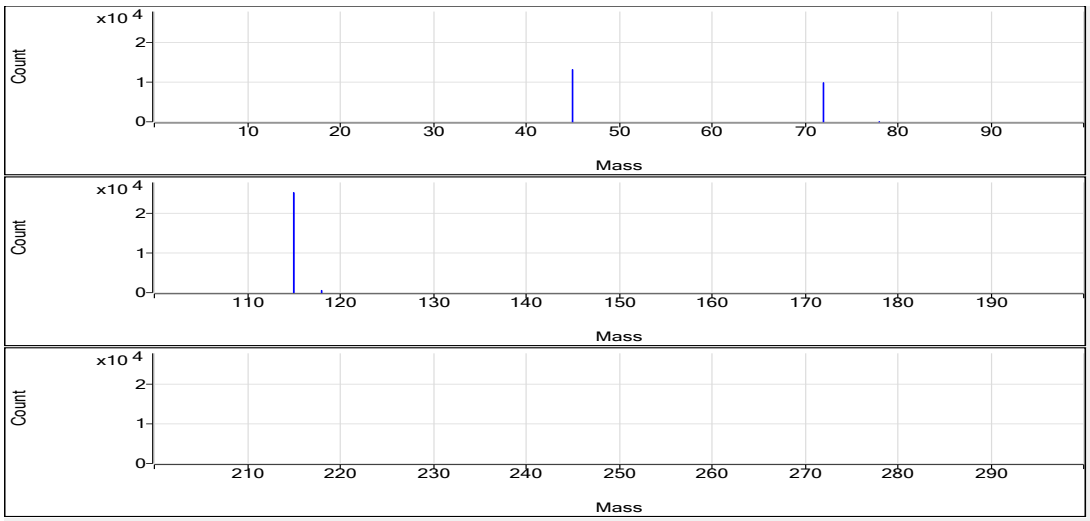
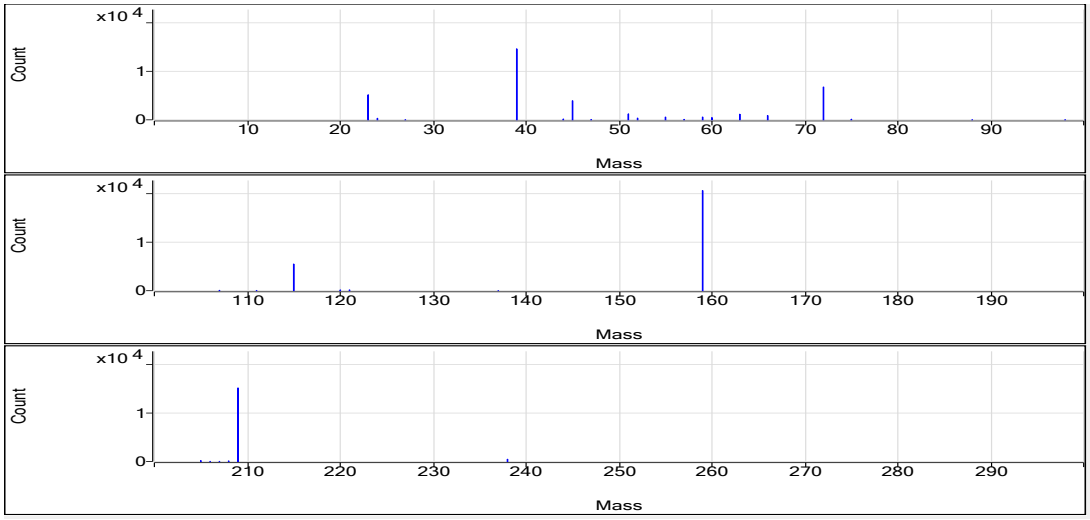


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.496	0.0002	334.00	0.0003	2.616E-05
Be	9	1	No Gas	0.503	0.0002	332.01	0.0003	2.616E-05
Be	9	1	No Gas	0.535	0.0002	346.01	0.0003	2.616E-05
Se	78	2	H2	0.933	0.0004	42.67	0.0004	6.3E-05
Se	78	2	H2	1.078	0.0005	48.00	0.0004	6.3E-05
Se	78	2	H2	0.805	0.0004	36.67	0.0004	6.3E-05
Na	23	3	He	233.542	1.3323	51369.71	0.0025	0.7502
Na	23	3	He	225.327	1.3119	51540.30	0.0025	0.7502
Na	23	3	He	214.32	1.2844	51479.55	0.0025	0.7502
Mg	24	3	He	48.643	0.0851	3280.43	0.0012	0.02618
Mg	24	3	He	49.646	0.0863	3390.44	0.0012	0.02618
Mg	24	3	He	58.75	0.0973	3900.60	0.0012	0.02618
Al	27	3	He	24.385	0.0145	560.03	0.0004	0.005329
Al	27	3	He	23.668	0.0143	560.03	0.0004	0.005329
Al	27	3	He	28.876	0.0162	650.04	0.0004	0.005329
K	39	3	He	303.805	0.8323	32091.18	0.001	0.5307
K	39	3	He	188.803	0.7181	28213.99	0.001	0.5307
K	39	3	He	147.18	0.6768	27126.20	0.001	0.5307
Ca	44	3	He	115.684	0.0105	406.01	0.0001	0.004441
Ca	44	3	He	109.056	0.0102	400.01	0.0001	0.004441
Ca	44	3	He	94.806	0.0094	378.01	0.0001	0.004441
Ti	47	3	He	9.92	0.0045	174.00	0.0004	0.0004559
Ti	47	3	He	11.084	0.005	196.00	0.0004	0.0004559
Ti	47	3	He	10.721	0.0048	194.00	0.0004	0.0004559
V	51	3	He	2.129	0.0635	2450.20	0.0176	0.02609
V	51	3	He	2.114	0.0633	2486.20	0.0176	0.02609
V	51	3	He	2.001	0.0613	2456.20	0.0176	0.02609
Cr	52	3	He	2.733	0.11	4240.69	0.0217	0.05061
Cr	52	3	He	1.924	0.0924	3630.53	0.0217	0.05061
Cr	52	3	He	2.127	0.0968	3880.57	0.0217	0.05061
Mn	55	3	He	2.246	0.0312	1202.05	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2.053	0.0294	1156.05	0.0091	0.01071
Mn	55	3	He	2.214	0.0309	1238.05	0.0091	0.01071
Fe	57	3	He	59.376	0.0322	1240.09	0.0004	0.008452
Fe	57	3	He	45.763	0.0267	1050.06	0.0004	0.008452
Fe	57	3	He	54.439	0.0302	1210.09	0.0004	0.008452
Co	59	3	He	0.637	0.0323	1246.06	0.0413	0.006013
Co	59	3	He	0.609	0.0312	1224.05	0.0413	0.006013
Co	59	3	He	0.548	0.0286	1148.05	0.0413	0.006013
Ni	60	3	He	1.224	0.0261	1006.04	0.0117	0.01172
Ni	60	3	He	1.031	0.0238	936.03	0.0117	0.01172
Ni	60	3	He	1.012	0.0236	946.03	0.0117	0.01172
Cu	63	3	He	1.075	0.0355	2374.19	0.0196	0.01443
Cu	63	3	He	1.053	0.035	2362.18	0.0196	0.01443
Cu	63	3	He	1.083	0.0356	2438.20	0.0196	0.01443
Zn	66	3	He	10.636	0.027	1806.11	0.0023	0.002807
Zn	66	3	He	10.354	0.0263	1776.11	0.0023	0.002807
Zn	66	3	He	10.596	0.0269	1840.12	0.0023	0.002807
As	75	3	He	2.085	0.0051	342.01	0.0018	0.001271
As	75	3	He	2.049	0.005	340.01	0.0018	0.001271
As	75	3	He	2.009	0.005	340.01	0.0018	0.001271
Sr	88	3	He	1.035	0.0096	530.03	0.0082	0.00114
Sr	88	3	He	1.041	0.0097	540.03	0.0082	0.00114
Sr	88	3	He	0.961	0.009	490.02	0.0082	0.00114
Mo	98	3	He	0.408	0.0087	480.02	0.0177	0.001504
Mo	98	3	He	0.574	0.0117	650.04	0.0177	0.001504
Mo	98	3	He	0.457	0.0096	520.03	0.0177	0.001504
Ag	107	3	He	0.558	0.0218	1200.08	0.0368	0.001325
Ag	107	3	He	0.428	0.0171	950.06	0.0368	0.001325
Ag	107	3	He	0.521	0.0205	1110.08	0.0368	0.001325
Cd	111	3	He	0.663	0.0028	152.00	0.0041	4.798E-05
Cd	111	3	He	0.522	0.0022	122.00	0.0041	4.798E-05
Cd	111	3	He	0.6	0.0025	136.00	0.0041	4.798E-05
Sn	120	3	He	1.819	0.0339	1860.19	0.0126	0.01097
Sn	120	3	He	2.024	0.0364	2030.21	0.0126	0.01097
Sn	120	3	He	1.415	0.0288	1560.13	0.0126	0.01097
Sb	121	3	He	0.998	0.0124	680.02	0.012	0.0003595
Sb	121	3	He	0.964	0.012	666.69	0.012	0.0003595
Sb	121	3	He	0.812	0.0101	550.02	0.012	0.0003595
Ba	137	3	He	1.633	0.0067	370.01	0.0039	0.0003633
Ba	137	3	He	1.517	0.0063	350.02	0.0039	0.0003633
Ba	137	3	He	2.365	0.0096	520.02	0.0039	0.0003633
Tl	205	3	He	0.464	0.0101	2090.21	0.0189	0.001334
Tl	205	3	He	0.563	0.012	2440.32	0.0189	0.001334
Tl	205	3	He	0.54	0.0116	2390.31	0.0189	0.001334
Pb	208	3	He	0.5	0.0141	1630.14	0.0252	0.001497
Pb	208	3	He	0.532	0.0149	1710.15	0.0252	0.001497
Pb	208	3	He	0.506	0.0142	1450.13	0.0252	0.001497
U	238	3	He	1.082	0.0267	5511.22	0.0245	0.0001141
U	238	3	He	0.997	0.0246	5001.06	0.0245	0.0001141
U	238	3	He	1.029	0.0254	5241.12	0.0245	0.0001141
Sc	45	1	No Gas			1730893.88		
Sc	45	1	No Gas			1698582.16		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1678914.66		
Ge	72	1	No Gas			857872.41		
Ge	72	1	No Gas			860028.58		
Ge	72	1	No Gas			845759.05		
Sc	45	2	H2			133166.77		
Sc	45	2	H2			132773.61		
Sc	45	2	H2			132139.53		
Ge	72	2	H2			100482.80		
Ge	72	2	H2			99748.23		
Ge	72	2	H2			97785.55		
In	115	2	H2			255248.47		
In	115	2	H2			253086.75		
In	115	2	H2			254215.50		
Sc	45	3	He			38556.01		
Sc	45	3	He			39287.88		
Sc	45	3	He			40079.81		
Ge	72	3	He			66940.25		
Ge	72	3	He			67431.86		
Ge	72	3	He			68435.95		
In	115	3	He			54957.66		
In	115	3	He			55720.28		
In	115	3	He			54224.74		
Tb	159	3	He			206576.13		
Tb	159	3	He			203464.76		
Tb	159	3	He			206597.16		
Bi	209	3	He			152582.94		
Bi	209	3	He			150690.54		
Bi	209	3	He			150481.09		

Quantitation Report

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Sample Type	ICSA
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

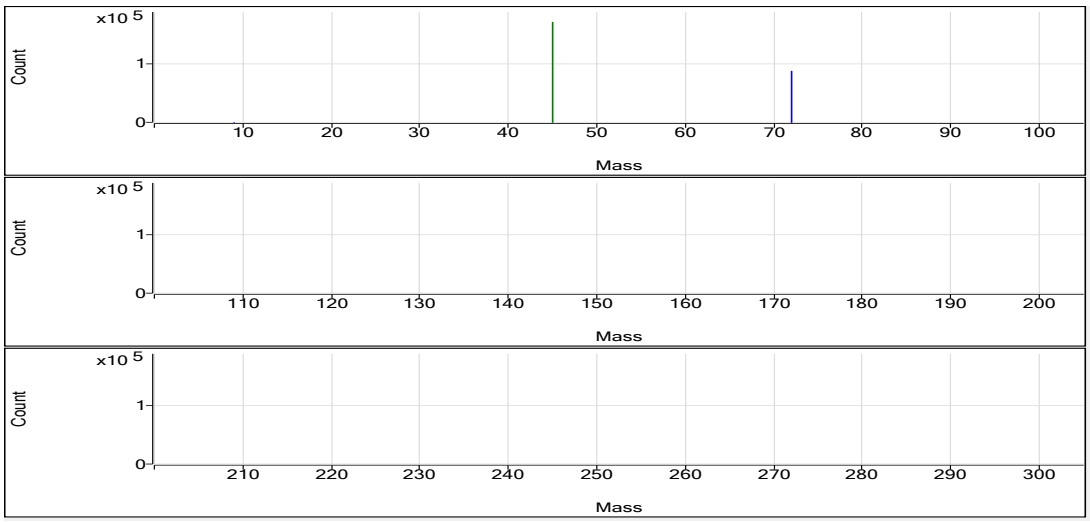
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.001	ppb	1281.8	45.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.029	ppb	N/A	5.11	0.0001	Pulse	1.5000	3
Na	23	45	He	252200.266	ppb	2.1	24325440.47	629.4158	Analog	0.1000	3
Mg	24	45	He	100834.213	ppb	2.1	4719590.35	122.1238	Analog	0.1000	3
Al	27	45	He	103263.656	ppb	1.4	1505296.38	38.9462	Analog	0.1000	3
K	39	45	He	102595.935	ppb	1.6	3957973.42	102.4035	Analog	0.5000	3
Ca	44	45	He	296796.593	ppb	2.5	603905.77	15.6277	Pulse	0.5000	3
Ti	47	45	He	2090.973	ppb	2.4	33063.82	0.8556	Pulse	0.5000	3
V	51	45	He	-0.065	ppb	N/A	962.70	0.0250	Pulse	0.5000	3
Cr	52	45	He	2.123	ppb	2.7	3740.57	0.0967	Pulse	0.1000	3
Mn	55	45	He	0.773	ppb	6.0	686.69	0.0178	Pulse	0.5000	3
Fe	57	45	He	247106.360	ppb	2.3	3813938.59	98.6872	Analog	0.1000	3
Co	59	45	He	0.347	ppb	9.7	787.36	0.0203	Pulse	0.5000	3
Ni	60	45	He	0.305	ppb	28.3	590.68	0.0153	Pulse	0.5000	3
Cu	63	72	He	-0.063	ppb	N/A	903.36	0.0132	Pulse	0.5000	3
Zn	66	72	He	0.983	ppb	22.3	345.34	0.0050	Pulse	0.5000	3
As	75	72	He	0.040	ppb	234.5	92.00	0.0013	Pulse	0.5000	3
Sr	88	115	He	2.509	ppb	10.4	1163.42	0.0218	Pulse	0.1000	3
Mo	98	115	He	2066.871	ppb	1.3	1959384.03	36.6100	Analog	0.1000	3
Ag	107	115	He	0.071	ppb	39.3	210.01	0.0039	Pulse	0.1000	3
Cd	111	115	He	0.201	ppb	29.1	46.67	0.0009	Pulse	0.5000	3
Sn	120	115	He	-0.179	ppb	N/A	466.69	0.0087	Pulse	0.1000	3
Sb	121	115	He	0.198	ppb	18.7	146.67	0.0027	Pulse	0.3000	3
Ba	137	115	He	0.339	ppb	51.8	90.00	0.0017	Pulse	0.1000	3
Tl	205	159	He	-0.009	ppb	N/A	240.01	0.0012	Pulse	0.1000	3
Pb	208	159	He	0.068	ppb	7.9	660.03	0.0032	Pulse	0.1000	3
U	238	159	He	0.013	ppb	79.9	90.00	0.0004	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1712265.86	1.4	100.2	Analog	0.1000	3
No Gas	Ge	72	875915.12	0.5	101.4	Pulse	0.1000	3
H2	Sc	45	132001.06	1.5	98.8	Pulse	0.1000	3
H2	Ge	72	99479.77	3.1	100.4	Pulse	0.1000	3
H2	In	115	243030.53	0.7	94.7	Pulse	0.1000	3
He	Sc	45	38659.60	2.5	97.9	Pulse	0.1000	3
He	Ge	72	68462.78	0.8	100.5	Pulse	0.1000	3
He	In	115	53526.05	1.4	96.6	Pulse	0.1000	3
He	Tb	159	205836.31	1.2	100.5	Pulse	0.1000	3
He	Bi	209	146345.17	0.8	96.7	Pulse	0.1000	3

No Gas



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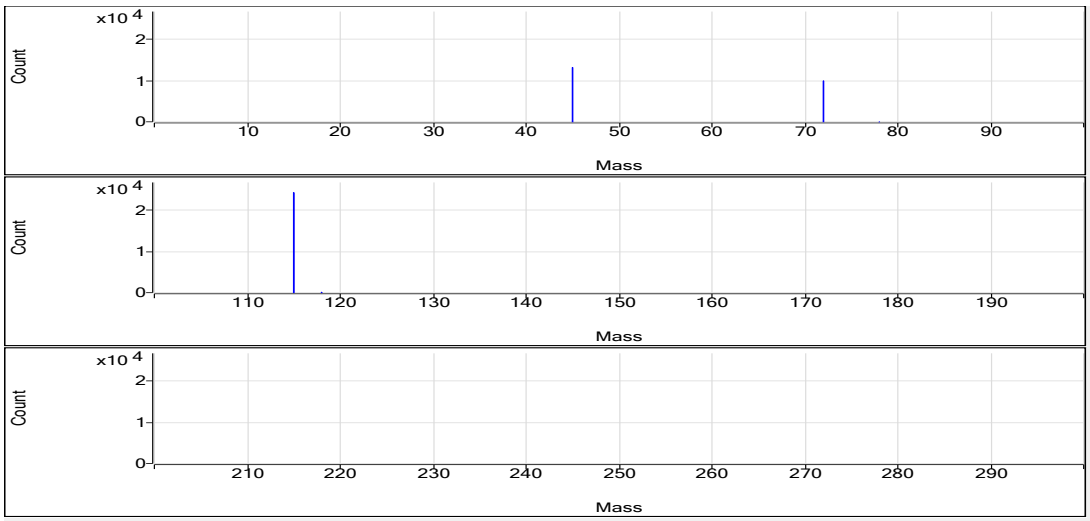
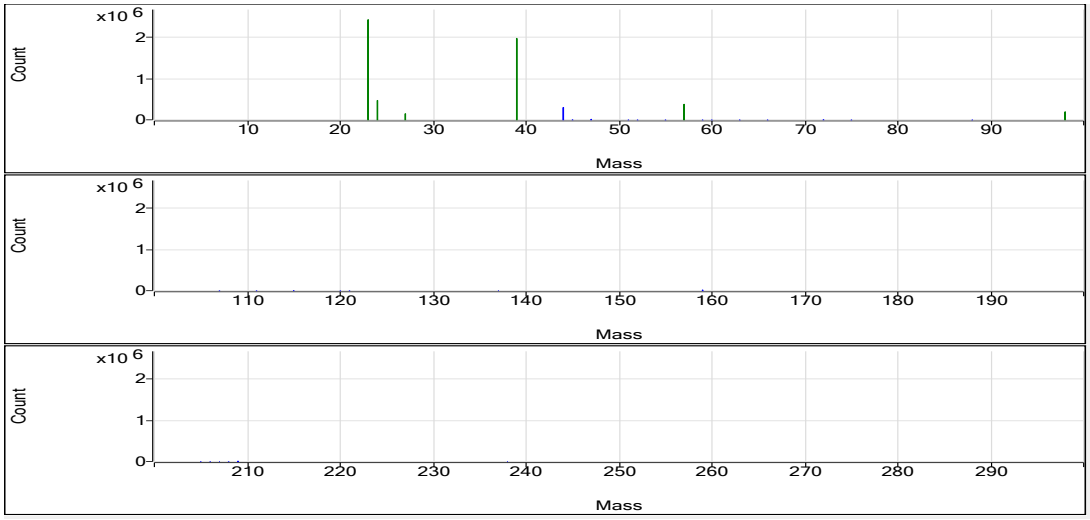


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.011	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	0.013	0	52.00	0.0003	2.616E-05
Be	9	1	No Gas	0.001	0	46.00	0.0003	2.616E-05
Se	78	2	H2	-0.074	0	3.33	0.0004	6.3E-05
Se	78	2	H2	0.048	0.0001	8.00	0.0004	6.3E-05
Se	78	2	H2	-0.062	0	4.00	0.0004	6.3E-05
Na	23	3	He	255428.969	637.4641	24009352.14	0.0025	0.7502
Na	23	3	He	246090.179	614.1851	24339214.64	0.0025	0.7502
Na	23	3	He	255081.649	636.5983	24627754.63	0.0025	0.7502
Mg	24	3	He	102743.84	124.4361	4686743.37	0.0012	0.02618
Mg	24	3	He	98521.886	119.3239	4728622.12	0.0012	0.02618
Mg	24	3	He	101236.914	122.6114	4743405.55	0.0012	0.02618
Al	27	3	He	104691.788	39.4847	1487146.85	0.0004	0.005329
Al	27	3	He	101880.282	38.4245	1522704.35	0.0004	0.005329
Al	27	3	He	103218.899	38.9293	1506037.95	0.0004	0.005329
K	39	3	He	104501.724	104.2959	3928184.50	0.001	0.5307
K	39	3	He	101758.204	101.5717	4025131.00	0.001	0.5307
K	39	3	He	101527.877	101.343	3920604.75	0.001	0.5307
Ca	44	3	He	303387.07	15.9746	601664.38	0.0001	0.004441
Ca	44	3	He	288608.982	15.1967	602220.94	0.0001	0.004441
Ca	44	3	He	298393.727	15.7117	607832.00	0.0001	0.004441
Ti	47	3	He	2140.295	0.8758	32984.98	0.0004	0.0004559
Ti	47	3	He	2040.068	0.8348	33081.18	0.0004	0.0004559
Ti	47	3	He	2092.557	0.8562	33125.29	0.0004	0.0004559
V	51	3	He	0.023	0.0265	998.04	0.0176	0.02609
V	51	3	He	-0.327	0.0203	806.03	0.0176	0.02609
V	51	3	He	0.11	0.028	1084.04	0.0176	0.02609
Cr	52	3	He	2.083	0.0959	3610.54	0.0217	0.05061
Cr	52	3	He	2.19	0.0982	3890.60	0.0217	0.05061
Cr	52	3	He	2.097	0.0962	3720.57	0.0217	0.05061
Mn	55	3	He	0.724	0.0173	652.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.78	0.0178	706.02	0.0091	0.01071
Mn	55	3	He	0.816	0.0181	702.02	0.0091	0.01071
Fe	57	3	He	250487.127	100.0373	3767789.63	0.0004	0.008452
Fe	57	3	He	240644.237	96.1067	3808559.94	0.0004	0.008452
Fe	57	3	He	250187.717	99.9177	3865466.19	0.0004	0.008452
Co	59	3	He	0.308	0.0187	706.02	0.0413	0.006013
Co	59	3	He	0.364	0.021	834.03	0.0413	0.006013
Co	59	3	He	0.369	0.0212	822.03	0.0413	0.006013
Ni	60	3	He	0.386	0.0162	612.02	0.0117	0.01172
Ni	60	3	He	0.214	0.0142	564.01	0.0117	0.01172
Ni	60	3	He	0.314	0.0154	596.02	0.0117	0.01172
Cu	63	3	He	-0.055	0.0134	908.03	0.0196	0.01443
Cu	63	3	He	-0.083	0.0128	884.03	0.0196	0.01443
Cu	63	3	He	-0.051	0.0134	918.03	0.0196	0.01443
Zn	66	3	He	0.732	0.0045	304.00	0.0023	0.002807
Zn	66	3	He	1.084	0.0053	364.01	0.0023	0.002807
Zn	66	3	He	1.134	0.0054	368.01	0.0023	0.002807
As	75	3	He	0.124	0.0015	102.00	0.0018	0.001271
As	75	3	He	-0.061	0.0012	80.00	0.0018	0.001271
As	75	3	He	0.057	0.0014	94.00	0.0018	0.001271
Sr	88	3	He	2.718	0.0235	1240.09	0.0082	0.00114
Sr	88	3	He	2.593	0.0224	1200.08	0.0082	0.00114
Sr	88	3	He	2.216	0.0193	1050.08	0.0082	0.00114
Mo	98	3	He	2097.284	37.1487	1962468.41	0.0177	0.001504
Mo	98	3	He	2054.972	36.3992	1946237.31	0.0177	0.001504
Mo	98	3	He	2048.358	36.2821	1969446.38	0.0177	0.001504
Ag	107	3	He	0.082	0.0044	230.01	0.0368	0.001325
Ag	107	3	He	0.091	0.0047	250.01	0.0368	0.001325
Ag	107	3	He	0.039	0.0028	150.01	0.0368	0.001325
Cd	111	3	He	0.265	0.0011	60.00	0.0041	4.798E-05
Cd	111	3	He	0.189	0.0008	44.00	0.0041	4.798E-05
Cd	111	3	He	0.15	0.0007	36.00	0.0041	4.798E-05
Sn	120	3	He	-0.255	0.0078	410.02	0.0126	0.01097
Sn	120	3	He	-0.217	0.0082	440.02	0.0126	0.01097
Sn	120	3	He	-0.066	0.0101	550.03	0.0126	0.01097
Sb	121	3	He	0.169	0.0024	126.67	0.012	0.0003595
Sb	121	3	He	0.239	0.0032	173.34	0.012	0.0003595
Sb	121	3	He	0.184	0.0026	140.00	0.012	0.0003595
Ba	137	3	He	0.392	0.0019	100.00	0.0039	0.0003633
Ba	137	3	He	0.482	0.0022	120.00	0.0039	0.0003633
Ba	137	3	He	0.143	0.0009	50.00	0.0039	0.0003633
Tl	205	3	He	0.01	0.0015	310.01	0.0189	0.001334
Tl	205	3	He	-0.014	0.0011	220.01	0.0189	0.001334
Tl	205	3	He	-0.022	0.0009	190.01	0.0189	0.001334
Pb	208	3	He	0.063	0.0031	280.01	0.0252	0.001497
Pb	208	3	He	0.074	0.0034	300.01	0.0252	0.001497
Pb	208	3	He	0.066	0.0032	310.01	0.0252	0.001497
U	238	3	He	0.021	0.0006	130.01	0.0245	0.0001141
U	238	3	He	0.001	0.0001	30.00	0.0245	0.0001141
U	238	3	He	0.017	0.0005	110.00	0.0245	0.0001141
Sc	45	1	No Gas			1702262.79		
Sc	45	1	No Gas			1694554.51		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1739980.29		
Ge	72	1	No Gas			873189.13		
Ge	72	1	No Gas			873571.00		
Ge	72	1	No Gas			880985.22		
Sc	45	2	H2			133568.99		
Sc	45	2	H2			129720.04		
Sc	45	2	H2			132714.14		
Ge	72	2	H2			97483.64		
Ge	72	2	H2			97906.95		
Ge	72	2	H2			103048.72		
In	115	2	H2			245000.78		
In	115	2	H2			242056.17		
In	115	2	H2			242034.63		
Sc	45	3	He			37663.85		
Sc	45	3	He			39628.47		
Sc	45	3	He			38686.49		
Ge	72	3	He			68004.07		
Ge	72	3	He			69048.42		
Ge	72	3	He			68335.84		
In	115	3	He			52830.31		
In	115	3	He			53472.27		
In	115	3	He			54285.38		
Tb	159	3	He			203616.89		
Tb	159	3	He			205552.40		
Tb	159	3	He			208339.65		
Bi	209	3	He			147681.96		
Bi	209	3	He			145995.76		
Bi	209	3	He			145357.78		

Quantitation Report

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Sample Type	ICSAB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

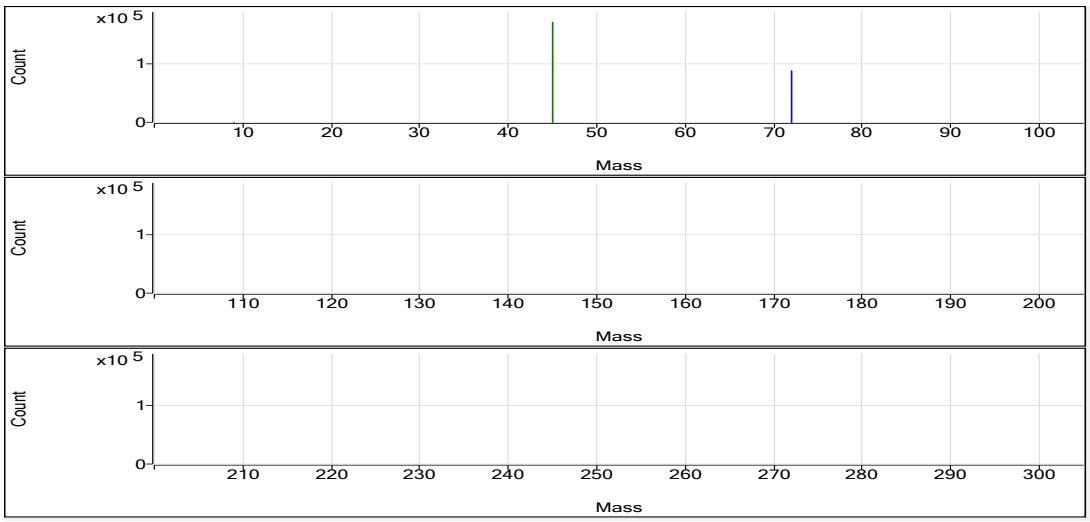
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.003	ppb	N/A	42.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	98.350	ppb	0.7	3847.36	0.0382	Pulse	1.5000	3
Na	23	45	He	243053.299	ppb	2.5	24171309.64	606.6150	Analog	0.1000	3
Mg	24	45	He	97445.165	ppb	2.2	4703023.37	118.0201	Analog	0.1000	3
Al	27	45	He	101254.683	ppb	2.4	1521968.00	38.1886	Analog	0.1000	3
K	39	45	He	99631.010	ppb	2.0	3963518.42	99.4595	Analog	0.5000	3
Ca	44	45	He	289337.615	ppb	2.1	607112.48	15.2350	Pulse	0.5000	3
Ti	47	45	He	2029.769	ppb	2.4	33095.91	0.8306	Pulse	0.5000	3
V	51	45	He	207.607	ppb	2.3	146545.95	3.6776	Pulse	0.5000	3
Cr	52	45	He	204.537	ppb	2.9	179070.73	4.4941	Pulse	0.1000	3
Mn	55	45	He	204.760	ppb	2.4	74794.70	1.8770	Pulse	0.5000	3
Fe	57	45	He	240110.891	ppb	2.9	3820763.17	95.8937	Analog	0.1000	3
Co	59	45	He	203.323	ppb	2.4	334753.19	8.4009	Pulse	0.5000	3
Ni	60	45	He	200.586	ppb	2.2	94346.21	2.3676	Pulse	0.5000	3
Cu	63	72	He	191.072	ppb	0.9	264485.65	3.7522	Pulse	0.5000	3
Zn	66	72	He	98.486	ppb	1.5	15975.25	0.2266	Pulse	0.5000	3
As	75	72	He	94.322	ppb	1.1	12328.12	0.1749	Pulse	0.5000	3
Sr	88	115	He	2.408	ppb	6.3	1143.41	0.0209	Pulse	0.1000	3
Mo	98	115	He	2030.946	ppb	2.6	1966639.03	35.9737	Analog	0.1000	3
Ag	107	115	He	50.675	ppb	3.9	101923.74	1.8648	Pulse	0.1000	3
Cd	111	115	He	102.156	ppb	3.3	22910.07	0.4191	Pulse	0.5000	3
Sn	120	115	He	-0.056	ppb	N/A	560.03	0.0103	Pulse	0.1000	3
Sb	121	115	He	0.175	ppb	9.7	134.45	0.0025	Pulse	0.3000	3
Ba	137	115	He	0.301	ppb	89.3	83.34	0.0015	Pulse	0.1000	3
Tl	205	159	He	-0.023	ppb	N/A	183.34	0.0009	Pulse	0.1000	3
Pb	208	159	He	0.074	ppb	13.2	690.04	0.0034	Pulse	0.1000	3
U	238	159	He	0.002	ppb	56.0	33.33	0.0002	Pulse	0.1000	3

ISTD Table:

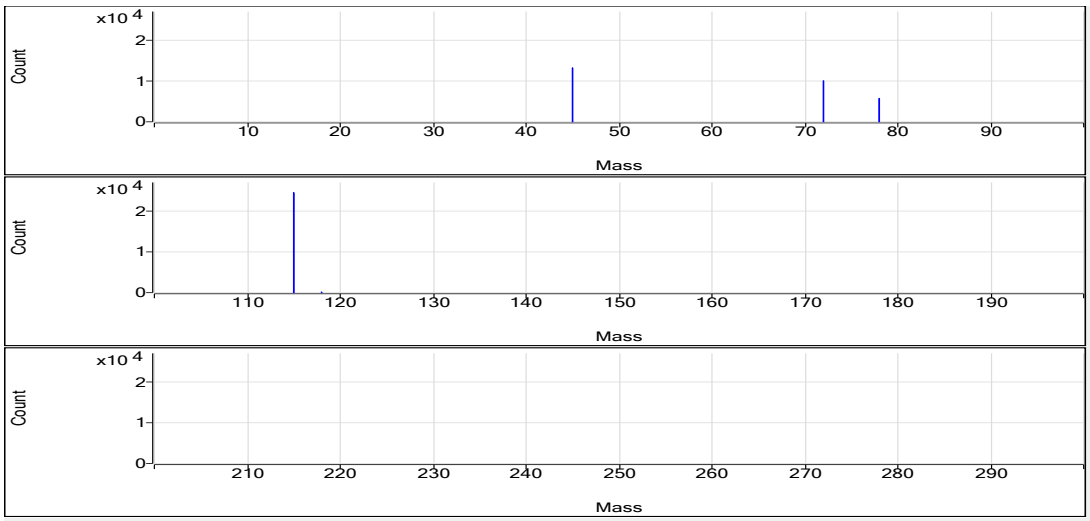
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1701957.47	0.2	99.6	Analog	0.1000	3
No Gas	Ge	72	875661.81	1.0	101.4	Pulse	0.1000	3
H2	Sc	45	132363.70	0.8	99.1	Pulse	0.1000	3
H2	Ge	72	100711.42	1.8	101.7	Pulse	0.1000	3
H2	In	115	245379.71	0.3	95.6	Pulse	0.1000	3
He	Sc	45	39865.89	2.9	101.0	Pulse	0.1000	3
He	Ge	72	70488.24	0.2	103.5	Pulse	0.1000	3
He	In	115	54692.75	2.6	98.7	Pulse	0.1000	3
He	Tb	159	204821.63	0.7	100.0	Pulse	0.1000	3
He	Bi	209	145852.01	0.8	96.4	Pulse	0.1000	3

No Gas

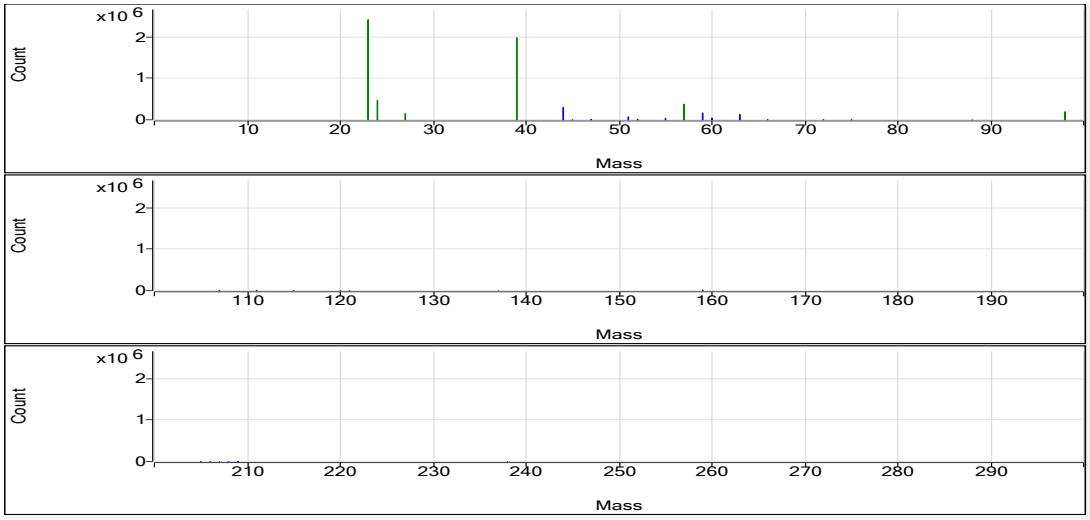


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.013	0	52.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.001	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.022	0	32.00	0.0003	2.616E-05
Se	78	2	H2	97.604	0.0379	3881.14	0.0004	6.3E-05
Se	78	2	H2	98.706	0.0383	3787.12	0.0004	6.3E-05
Se	78	2	H2	98.741	0.0384	3873.81	0.0004	6.3E-05
Na	23	3	He	245704.51	613.2237	24055337.14	0.0025	0.7502
Na	23	3	He	247428.237	617.5205	24174352.14	0.0025	0.7502
Na	23	3	He	236027.15	589.1007	24284239.64	0.0025	0.7502
Mg	24	3	He	98059.694	118.7642	4658843.06	0.0012	0.02618
Mg	24	3	He	99186.003	120.128	4702705.87	0.0012	0.02618
Mg	24	3	He	95089.798	115.168	4747521.18	0.0012	0.02618
Al	27	3	He	100156.042	37.7743	1481797.48	0.0004	0.005329
Al	27	3	He	104052.522	39.2437	1536289.20	0.0004	0.005329
Al	27	3	He	99555.485	37.5478	1547817.32	0.0004	0.005329
K	39	3	He	100771.211	100.5917	3945976.50	0.001	0.5307
K	39	3	He	100752.732	100.5733	3937188.75	0.001	0.5307
K	39	3	He	97369.088	97.2135	4007390.00	0.001	0.5307
Ca	44	3	He	291232.417	15.3348	601547.31	0.0001	0.004441
Ca	44	3	He	294260.194	15.4942	606556.50	0.0001	0.004441
Ca	44	3	He	282520.235	14.8762	613233.63	0.0001	0.004441
Ti	47	3	He	2066.298	0.8455	33167.41	0.0004	0.0004559
Ti	47	3	He	2049.629	0.8387	32832.70	0.0004	0.0004559
Ti	47	3	He	1973.379	0.8075	33287.61	0.0004	0.0004559
V	51	3	He	208.877	3.6999	145139.50	0.0176	0.02609
V	51	3	He	211.685	3.7493	146775.84	0.0176	0.02609
V	51	3	He	202.26	3.5835	147722.50	0.0176	0.02609
Cr	52	3	He	204.877	4.5015	176582.93	0.0217	0.05061
Cr	52	3	He	210.248	4.6182	180789.68	0.0217	0.05061
Cr	52	3	He	198.486	4.3626	179839.57	0.0217	0.05061
Mn	55	3	He	206.032	1.8886	74085.11	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	208.904	1.9148	74958.61	0.0091	0.01071
Mn	55	3	He	199.345	1.8276	75340.38	0.0091	0.01071
Fe	57	3	He	245178.999	97.9176	3841077.76	0.0004	0.008452
Fe	57	3	He	242927.793	97.0186	3798029.63	0.0004	0.008452
Fe	57	3	He	232225.882	92.7449	3823182.13	0.0004	0.008452
Co	59	3	He	205.704	8.4992	333405.50	0.0413	0.006013
Co	59	3	He	206.566	8.5348	334116.63	0.0413	0.006013
Co	59	3	He	197.7	8.1688	336737.44	0.0413	0.006013
Ni	60	3	He	202.699	2.3924	93850.01	0.0117	0.01172
Ni	60	3	He	203.607	2.4031	94075.38	0.0117	0.01172
Ni	60	3	He	195.451	2.3073	95113.24	0.0117	0.01172
Cu	63	3	He	189.027	3.7122	261875.11	0.0196	0.01443
Cu	63	3	He	191.844	3.7673	265008.31	0.0196	0.01443
Cu	63	3	He	192.347	3.7771	266573.53	0.0196	0.01443
Zn	66	3	He	97.148	0.2236	15773.73	0.0023	0.002807
Zn	66	3	He	100.095	0.2303	16200.11	0.0023	0.002807
Zn	66	3	He	98.216	0.226	15951.90	0.0023	0.002807
As	75	3	He	93.697	0.1737	12256.72	0.0018	0.001271
As	75	3	He	93.734	0.1738	12226.70	0.0018	0.001271
As	75	3	He	95.535	0.1771	12500.93	0.0018	0.001271
Sr	88	3	He	2.233	0.0195	1090.07	0.0082	0.00114
Sr	88	3	He	2.494	0.0216	1150.08	0.0082	0.00114
Sr	88	3	He	2.496	0.0216	1190.08	0.0082	0.00114
Mo	98	3	He	1982.81	35.1211	1964237.31	0.0177	0.001504
Mo	98	3	He	2086.141	36.9513	1964587.16	0.0177	0.001504
Mo	98	3	He	2023.887	35.8486	1971092.63	0.0177	0.001504
Ag	107	3	He	48.695	1.792	100219.96	0.0368	0.001325
Ag	107	3	He	52.604	1.9357	102916.38	0.0368	0.001325
Ag	107	3	He	50.726	1.8666	102634.89	0.0368	0.001325
Cd	111	3	He	98.93	0.4059	22700.42	0.0041	4.798E-05
Cd	111	3	He	105.729	0.4338	23062.97	0.0041	4.798E-05
Cd	111	3	He	101.809	0.4177	22966.83	0.0041	4.798E-05
Sn	120	3	He	-0.203	0.0084	470.02	0.0126	0.01097
Sn	120	3	He	0.055	0.0117	620.03	0.0126	0.01097
Sn	120	3	He	-0.019	0.0107	590.03	0.0126	0.01097
Sb	121	3	He	0.163	0.0023	130.00	0.012	0.0003595
Sb	121	3	He	0.194	0.0027	143.34	0.012	0.0003595
Sb	121	3	He	0.166	0.0024	130.00	0.012	0.0003595
Ba	137	3	He	0.274	0.0014	80.00	0.0039	0.0003633
Ba	137	3	He	0.582	0.0026	140.01	0.0039	0.0003633
Ba	137	3	He	0.047	0.0005	30.00	0.0039	0.0003633
Tl	205	3	He	-0.024	0.0009	180.01	0.0189	0.001334
Tl	205	3	He	-0.019	0.001	200.01	0.0189	0.001334
Tl	205	3	He	-0.026	0.0008	170.01	0.0189	0.001334
Pb	208	3	He	0.066	0.0032	340.02	0.0252	0.001497
Pb	208	3	He	0.072	0.0033	340.02	0.0252	0.001497
Pb	208	3	He	0.085	0.0036	400.02	0.0252	0.001497
U	238	3	He	0.003	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.001	0.0001	30.00	0.0245	0.0001141
U	238	3	He	0.001	0.0001	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1705434.04		
Sc	45	1	No Gas			1699691.22		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1700747.16		
Ge	72	1	No Gas			885287.17		
Ge	72	1	No Gas			867957.17		
Ge	72	1	No Gas			873741.08		
Sc	45	2	H2			131615.55		
Sc	45	2	H2			131845.82		
Sc	45	2	H2			133629.73		
Ge	72	2	H2			102364.75		
Ge	72	2	H2			98772.27		
Ge	72	2	H2			100997.23		
In	115	2	H2			246208.63		
In	115	2	H2			245302.65		
In	115	2	H2			244627.85		
Sc	45	3	He			39227.67		
Sc	45	3	He			39147.45		
Sc	45	3	He			41222.56		
Ge	72	3	He			70544.68		
Ge	72	3	He			70344.46		
Ge	72	3	He			70575.57		
In	115	3	He			55930.87		
In	115	3	He			53171.28		
In	115	3	He			54987.87		
Tb	159	3	He			206158.16		
Tb	159	3	He			205035.74		
Tb	159	3	He			203270.99		
Bi	209	3	He			146771.82		
Bi	209	3	He			146154.04		
Bi	209	3	He			144630.17		

Quantitation Report

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Sample Type	LRC
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Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

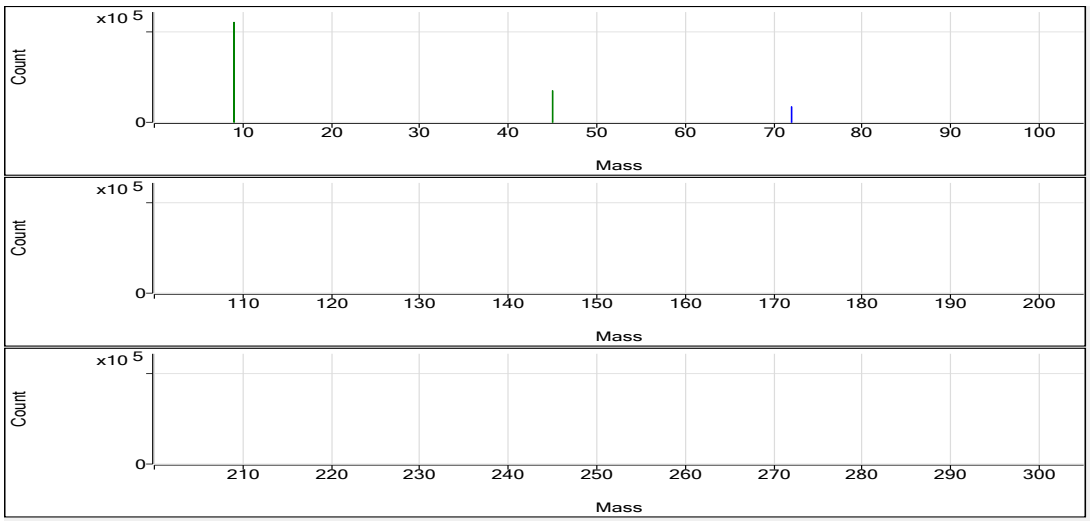
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	1877.789	ppb	5.8	1105457.91	0.6320	Analog	0.5000	3
Se	78	72	H2	1951.351	ppb	0.5	74909.62	0.7568	Pulse	1.5000	3
Na	23	45	He	187222.858	ppb	2.5	19446024.71	467.4451	Analog	0.1000	3
Mg	24	45	He	190376.469	ppb	2.1	9591486.11	230.5483	Analog	0.1000	3
Al	27	45	He	195001.547	ppb	1.9	3059779.12	73.5406	Analog	0.1000	3
K	39	45	He	193680.995	ppb	2.4	8022571.67	192.8466	Analog	0.5000	3
Ca	44	45	He	195824.198	ppb	2.3	429019.22	10.3125	Pulse	0.5000	3
Ti	47	45	He	2024.612	ppb	1.1	34472.04	0.8285	Pulse	0.5000	3
V	51	45	He	1908.498	ppb	2.5	1397512.21	33.5936	Analog	0.5000	3
Cr	52	45	He	1912.536	ppb	2.6	1730594.25	41.5998	Analog	0.1000	3
Mn	55	45	He	5767.405	ppb	3.0	2187140.67	52.5780	Analog	0.5000	3
Fe	57	45	He	150315.158	ppb	2.4	2497537.67	60.0349	Analog	0.1000	3
Co	59	45	He	1884.623	ppb	2.8	3237181.42	77.8194	Analog	0.5000	3
Ni	60	45	He	1879.013	ppb	1.9	918657.93	22.0809	Pulse	0.5000	3
Cu	63	72	He	1956.109	ppb	2.3	2634686.25	38.2800	Analog	0.5000	3
Zn	66	72	He	1959.884	ppb	2.5	306758.70	4.4571	Pulse	0.5000	3
As	75	72	He	1990.456	ppb	2.3	252262.84	3.6652	Pulse	0.5000	3
Sr	88	115	He	1922.093	ppb	1.9	894696.08	15.7935	Pulse	0.1000	3
Mo	98	115	He	1998.466	ppb	1.8	2005331.74	35.3984	Analog	0.1000	3
Ag	107	115	He	1921.667	ppb	2.4	4003023.90	70.6662	Analog	0.1000	3
Cd	111	115	He	1980.276	ppb	1.5	460231.62	8.1238	Pulse	0.5000	3
Sn	120	115	He	1954.490	ppb	2.2	1394234.20	24.6120	Pulse	0.1000	3
Sb	121	115	He	1955.528	ppb	1.6	1334514.42	23.5566	Pulse	0.3000	3
Ba	137	115	He	1990.394	ppb	1.7	439955.88	7.7661	Pulse	0.1000	3
Tl	205	159	He	1946.557	ppb	1.2	7641777.80	36.8686	Analog	0.1000	3
Pb	208	159	He	1976.587	ppb	1.3	10306882.71	49.7270	Analog	0.1000	3
U	238	159	He	0.098	ppb	15.4	520.03	0.0025	Pulse	0.1000	3

ISTD Table:

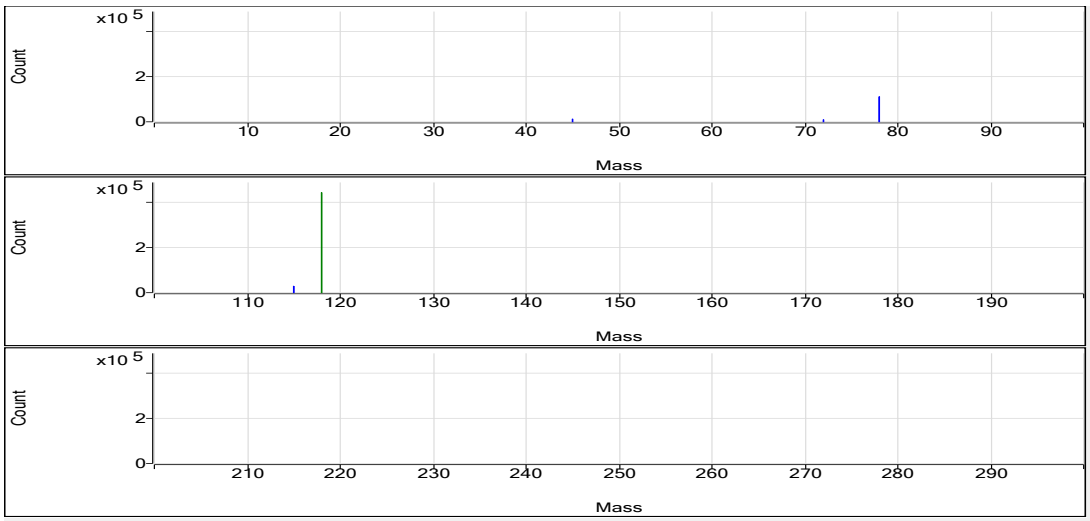
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1750536.01	2.5	102.5	Analog	0.1000	3
No Gas	Ge	72	865533.69	1.4	100.2	Pulse	0.1000	3
H2	Sc	45	130200.14	0.4	97.4	Pulse	0.1000	3
H2	Ge	72	98983.17	1.3	99.9	Pulse	0.1000	3
H2	In	115	297162.48	0.4	115.8	Pulse	0.1000	3
He	Sc	45	41616.64	2.4	105.4	Pulse	0.1000	3
He	Ge	72	68851.19	2.4	101.1	Pulse	0.1000	3
He	In	115	56662.14	1.7	102.3	Pulse	0.1000	3
He	Tb	159	207289.27	1.2	101.2	Pulse	0.1000	3
He	Bi	209	146345.21	2.0	96.7	Pulse	0.1000	3

No Gas

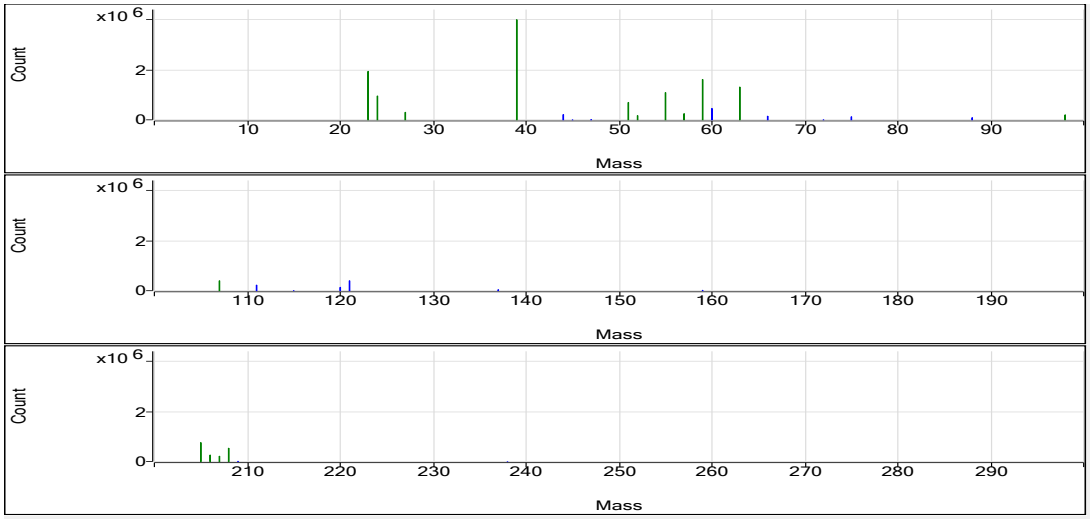


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	1778.807	0.5987	1078738.00	0.0003	2.616E-05
Be	9	1	No Gas	1861.369	0.6265	1082725.13	0.0003	2.616E-05
Be	9	1	No Gas	1993.19	0.6709	1154910.63	0.0003	2.616E-05
Se	78	2	H2	1962.219	0.761	74532.54	0.0004	6.3E-05
Se	78	2	H2	1945.715	0.7546	74444.79	0.0004	6.3E-05
Se	78	2	H2	1946.118	0.7548	75751.54	0.0004	6.3E-05
Na	23	3	He	192175.477	479.7906	19479882.21	0.0025	0.7502
Na	23	3	He	186378.953	465.3415	19396944.71	0.0025	0.7502
Na	23	3	He	183114.143	457.2032	19461247.21	0.0025	0.7502
Mg	24	3	He	194108.415	235.0672	9543916.11	0.0012	0.02618
Mg	24	3	He	190931.227	231.22	9638001.73	0.0012	0.02618
Mg	24	3	He	186089.764	225.3576	9592540.48	0.0012	0.02618
Al	27	3	He	199268.93	75.1499	3051145.27	0.0004	0.005329
Al	27	3	He	192127.3	72.4568	3020233.39	0.0004	0.005329
Al	27	3	He	193608.411	73.0153	3107958.70	0.0004	0.005329
K	39	3	He	198433.017	197.5652	8021304.00	0.001	0.5307
K	39	3	He	193565.115	192.7316	8033678.50	0.001	0.5307
K	39	3	He	189044.853	188.2432	8012732.50	0.001	0.5307
Ca	44	3	He	200791.008	10.574	429312.03	0.0001	0.004441
Ca	44	3	He	194681.81	10.2524	427353.13	0.0001	0.004441
Ca	44	3	He	191999.777	10.1112	430392.50	0.0001	0.004441
Ti	47	3	He	2051.171	0.8393	34077.22	0.0004	0.0004559
Ti	47	3	He	2013.511	0.8239	34343.75	0.0004	0.0004559
Ti	47	3	He	2009.156	0.8221	34995.14	0.0004	0.0004559
V	51	3	He	1960.352	34.5057	1400957.13	0.0176	0.02609
V	51	3	He	1897.765	33.4049	1392422.88	0.0176	0.02609
V	51	3	He	1867.378	32.8704	1399156.63	0.0176	0.02609
Cr	52	3	He	1950.513	42.4249	1722483.57	0.0217	0.05061
Cr	52	3	He	1929.737	41.9735	1749592.01	0.0217	0.05061
Cr	52	3	He	1857.358	40.4011	1719707.16	0.0217	0.05061
Mn	55	3	He	5964.444	54.3739	2207624.25	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	5693.59	51.9052	2163577.25	0.0091	0.01071
Mn	55	3	He	5644.181	51.4549	2190220.50	0.0091	0.01071
Fe	57	3	He	153593.205	61.3439	2490613.09	0.0004	0.008452
Fe	57	3	He	150785.698	60.2228	2510281.99	0.0004	0.008452
Fe	57	3	He	146566.57	58.5379	2491717.93	0.0004	0.008452
Co	59	3	He	1940.315	80.1189	3252891.50	0.0413	0.006013
Co	59	3	He	1876.044	77.4652	3229003.00	0.0413	0.006013
Co	59	3	He	1837.509	75.8742	3229649.75	0.0413	0.006013
Ni	60	3	He	1919.207	22.553	915671.13	0.0117	0.01172
Ni	60	3	He	1869.622	21.9707	915808.13	0.0117	0.01172
Ni	60	3	He	1848.209	21.7192	924494.56	0.0117	0.01172
Cu	63	3	He	1992.902	38.9997	2621594.75	0.0196	0.01443
Cu	63	3	He	1906.161	37.3029	2630416.75	0.0196	0.01443
Cu	63	3	He	1969.263	38.5373	2652047.25	0.0196	0.01443
Zn	66	3	He	2002.212	4.5533	306077.28	0.0023	0.002807
Zn	66	3	He	1907.504	4.3381	305898.75	0.0023	0.002807
Zn	66	3	He	1969.937	4.48	308300.06	0.0023	0.002807
As	75	3	He	2035.086	3.7474	251900.95	0.0018	0.001271
As	75	3	He	1944.848	3.5813	252532.66	0.0018	0.001271
As	75	3	He	1991.432	3.667	252354.91	0.0018	0.001271
Sr	88	3	He	1947.486	16.0021	894399.44	0.0082	0.00114
Sr	88	3	He	1880.631	15.4528	892804.05	0.0082	0.00114
Sr	88	3	He	1938.162	15.9255	896884.75	0.0082	0.00114
Mo	98	3	He	2032.578	36.0026	2012279.66	0.0177	0.001504
Mo	98	3	He	1960.05	34.718	2005871.69	0.0177	0.001504
Mo	98	3	He	2002.769	35.4746	1997843.88	0.0177	0.001504
Ag	107	3	He	1968.152	72.3756	4045263.69	0.0368	0.001325
Ag	107	3	He	1875.072	68.9528	3983830.57	0.0368	0.001325
Ag	107	3	He	1921.777	70.6702	3979977.44	0.0368	0.001325
Cd	111	3	He	2002.895	8.2166	459245.75	0.0041	4.798E-05
Cd	111	3	He	1947.329	7.9886	461551.94	0.0041	4.798E-05
Cd	111	3	He	1990.603	8.1661	459897.16	0.0041	4.798E-05
Sn	120	3	He	1971.977	24.8321	1387934.51	0.0126	0.01097
Sn	120	3	He	1904.603	23.9841	1385710.60	0.0126	0.01097
Sn	120	3	He	1986.89	25.0199	1409057.48	0.0126	0.01097
Sb	121	3	He	1976.133	23.8048	1330511.09	0.012	0.0003595
Sb	121	3	He	1918.762	23.1137	1335420.57	0.012	0.0003595
Sb	121	3	He	1971.689	23.7512	1337611.61	0.012	0.0003595
Ba	137	3	He	2013.243	7.8552	439048.82	0.0039	0.0003633
Ba	137	3	He	1951.554	7.6145	439938.63	0.0039	0.0003633
Ba	137	3	He	2006.386	7.8285	440880.19	0.0039	0.0003633
Tl	205	3	He	1940.271	36.7495	7644484.26	0.0189	0.001334
Tl	205	3	He	1971.5	37.341	7640349.26	0.0189	0.001334
Tl	205	3	He	1927.901	36.5152	7640499.89	0.0189	0.001334
Pb	208	3	He	1978.885	49.7848	5443485.54	0.0252	0.001497
Pb	208	3	He	2001.449	50.3524	5425457.42	0.0252	0.001497
Pb	208	3	He	1949.427	49.0437	5413663.04	0.0252	0.001497
U	238	3	He	0.115	0.0029	610.04	0.0245	0.0001141
U	238	3	He	0.089	0.0023	470.02	0.0245	0.0001141
U	238	3	He	0.089	0.0023	480.02	0.0245	0.0001141
Sc	45	1	No Gas			1801801.69		
Sc	45	1	No Gas			1728249.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1721557.16		
Ge	72	1	No Gas			878065.07		
Ge	72	1	No Gas			853117.41		
Ge	72	1	No Gas			865418.58		
Sc	45	2	H2			129649.60		
Sc	45	2	H2			130504.94		
Sc	45	2	H2			130445.89		
Ge	72	2	H2			97936.63		
Ge	72	2	H2			98651.02		
Ge	72	2	H2			100361.87		
In	115	2	H2			296546.60		
In	115	2	H2			296554.86		
In	115	2	H2			298385.97		
Sc	45	3	He			40600.80		
Sc	45	3	He			41683.25		
Sc	45	3	He			42565.86		
Ge	72	3	He			67220.85		
Ge	72	3	He			70515.07		
Ge	72	3	He			68817.66		
In	115	3	He			65608.19		
In	115	3	He			67476.17		
In	115	3	He			66180.98		
Tb	159	3	He			208015.91		
Tb	159	3	He			204610.35		
Tb	159	3	He			209241.54		
Bi	209	3	He			149156.62		
Bi	209	3	He			143195.75		
Bi	209	3	He			146683.27		

Quantitation Report

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Sample Type	ICSA
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

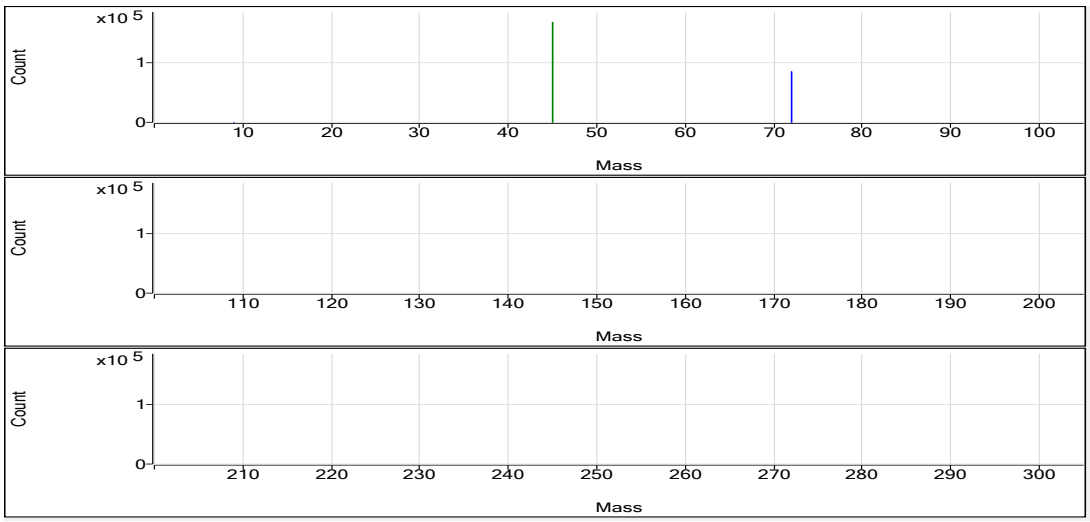
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.037	ppb	N/A	22.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.050	ppb	N/A	4.22	0.0000	Pulse	1.5000	3
Na	23	45	He	254039.860	ppb	1.1	24233952.14	634.0014	Analog	0.1000	3
Mg	24	45	He	102227.056	ppb	0.7	4732571.28	123.8104	Analog	0.1000	3
Al	27	45	He	103797.920	ppb	0.3	1496424.77	39.1476	Analog	0.1000	3
K	39	45	He	102559.544	ppb	0.6	3912919.17	102.3674	Analog	0.5000	3
Ca	44	45	He	295505.031	ppb	0.6	594758.92	15.5597	Pulse	0.5000	3
Ti	47	45	He	2075.400	ppb	1.6	32459.93	0.8492	Pulse	0.5000	3
V	51	45	He	-0.197	ppb	N/A	865.36	0.0226	Pulse	0.5000	3
Cr	52	45	He	1.849	ppb	4.5	3470.48	0.0908	Pulse	0.1000	3
Mn	55	45	He	0.379	ppb	10.3	541.34	0.0142	Pulse	0.5000	3
Fe	57	45	He	247165.566	ppb	0.7	3773181.92	98.7109	Analog	0.1000	3
Co	59	45	He	0.243	ppb	12.1	613.35	0.0161	Pulse	0.5000	3
Ni	60	45	He	0.104	ppb	27.2	494.68	0.0129	Pulse	0.5000	3
Cu	63	72	He	-0.223	ppb	N/A	670.02	0.0101	Pulse	0.5000	3
Zn	66	72	He	0.925	ppb	5.0	326.67	0.0049	Pulse	0.5000	3
As	75	72	He	0.181	ppb	60.7	106.67	0.0016	Pulse	0.5000	3
Sr	88	115	He	2.397	ppb	11.0	1053.40	0.0208	Pulse	0.1000	3
Mo	98	115	He	2131.284	ppb	0.8	1907606.54	37.7509	Analog	0.1000	3
Ag	107	115	He	0.041	ppb	49.8	143.34	0.0028	Pulse	0.1000	3
Cd	111	115	He	0.178	ppb	7.5	39.33	0.0008	Pulse	0.5000	3
Sn	120	115	He	-0.090	ppb	N/A	496.69	0.0098	Pulse	0.1000	3
Sb	121	115	He	0.171	ppb	20.5	122.22	0.0024	Pulse	0.3000	3
Ba	137	115	He	0.312	ppb	122.0	80.00	0.0016	Pulse	0.1000	3
Tl	205	159	He	-0.039	ppb	N/A	113.34	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.080	ppb	22.6	676.70	0.0035	Pulse	0.1000	3
U	238	159	He	0.004	ppb	0.9	40.00	0.0002	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1675981.75	0.7	98.1	Analog	0.1000	3
No Gas	Ge	72	847907.43	0.2	98.2	Pulse	0.1000	3
H2	Sc	45	128420.61	0.1	96.1	Pulse	0.1000	3
H2	Ge	72	97387.31	2.1	98.3	Pulse	0.1000	3
H2	In	115	237397.93	1.3	92.5	Pulse	0.1000	3
He	Sc	45	38225.41	0.7	96.8	Pulse	0.1000	3
He	Ge	72	66528.25	0.9	97.7	Pulse	0.1000	3
He	In	115	50532.29	0.8	91.2	Pulse	0.1000	3
He	Tb	159	192580.19	0.4	94.0	Pulse	0.1000	3
He	Bi	209	138899.62	1.2	91.8	Pulse	0.1000	3

No Gas



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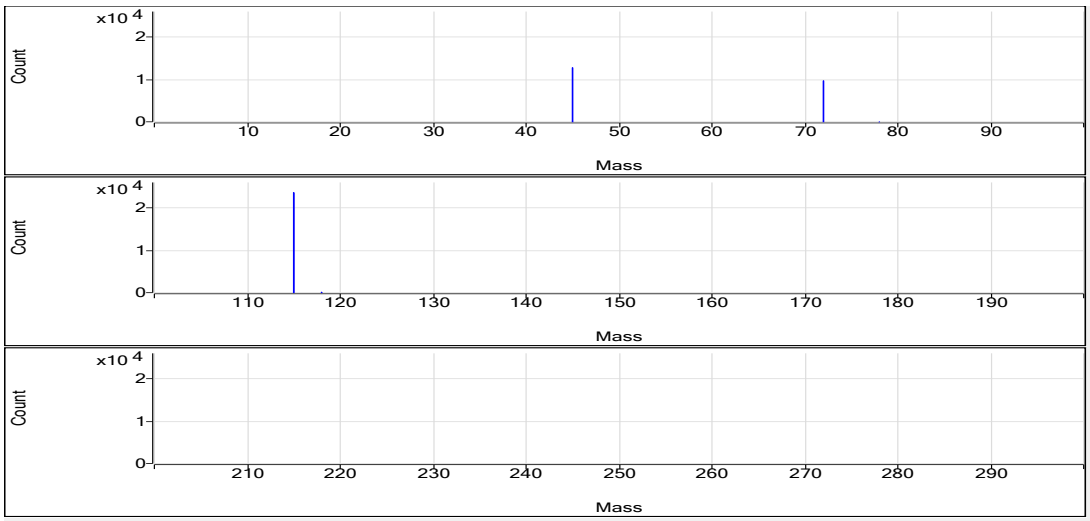
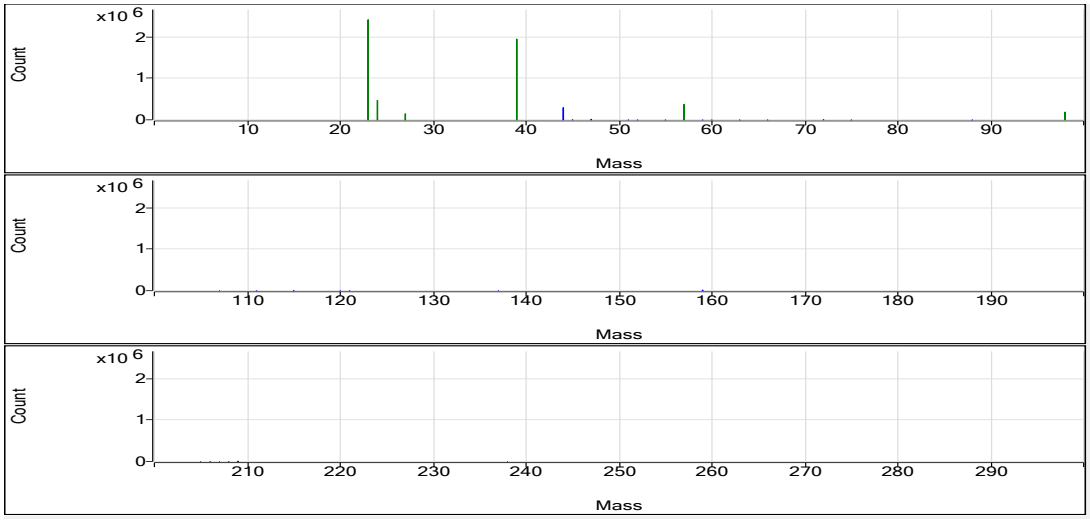


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.05	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.028	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.035	0	24.00	0.0003	2.616E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Se	78	2	H2	0.07	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	-0.111	0	2.00	0.0004	6.3E-05
Na	23	3	He	254588.356	635.3687	24128144.64	0.0025	0.7502
Na	23	3	He	251041.233	626.5267	24143807.14	0.0025	0.7502
Na	23	3	He	256489.992	640.1089	24429904.64	0.0025	0.7502
Mg	24	3	He	103081.23	124.8447	4740979.62	0.0012	0.02618
Mg	24	3	He	101795.968	123.2884	4751035.55	0.0012	0.02618
Mg	24	3	He	101803.97	123.2981	4705698.68	0.0012	0.02618
Al	27	3	He	103736.03	39.1243	1485746.85	0.0004	0.005329
Al	27	3	He	103550.884	39.0545	1505002.32	0.0004	0.005329
Al	27	3	He	104106.846	39.2641	1498525.13	0.0004	0.005329
K	39	3	He	102924.996	102.7303	3901185.00	0.001	0.5307
K	39	3	He	101801.922	101.6151	3915835.75	0.001	0.5307
K	39	3	He	102951.713	102.7568	3921736.75	0.001	0.5307
Ca	44	3	He	297185.032	15.6481	594237.56	0.0001	0.004441
Ca	44	3	He	293888.103	15.4746	596327.19	0.0001	0.004441
Ca	44	3	He	295441.959	15.5564	593712.00	0.0001	0.004441
Ti	47	3	He	2089.843	0.8551	32473.96	0.0004	0.0004559
Ti	47	3	He	2036.394	0.8333	32111.27	0.0004	0.0004559
Ti	47	3	He	2099.964	0.8593	32794.57	0.0004	0.0004559
V	51	3	He	-0.205	0.0225	854.03	0.0176	0.02609
V	51	3	He	-0.15	0.0235	904.03	0.0176	0.02609
V	51	3	He	-0.235	0.022	838.03	0.0176	0.02609
Cr	52	3	He	1.865	0.0911	3460.47	0.0217	0.05061
Cr	52	3	He	1.923	0.0924	3560.49	0.0217	0.05061
Cr	52	3	He	1.76	0.0888	3390.47	0.0217	0.05061
Mn	55	3	He	0.362	0.014	532.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.351	0.0139	536.01	0.0091	0.01071
Mn	55	3	He	0.423	0.0146	556.01	0.0091	0.01071
Fe	57	3	He	247129.264	98.6964	3747997.76	0.0004	0.008452
Fe	57	3	He	245500.351	98.0459	3778292.44	0.0004	0.008452
Fe	57	3	He	248867.083	99.3904	3793255.57	0.0004	0.008452
Co	59	3	He	0.266	0.017	646.02	0.0413	0.006013
Co	59	3	He	0.21	0.0147	566.01	0.0413	0.006013
Co	59	3	He	0.253	0.0165	628.02	0.0413	0.006013
Ni	60	3	He	0.137	0.0133	506.01	0.0117	0.01172
Ni	60	3	He	0.085	0.0127	490.01	0.0117	0.01172
Ni	60	3	He	0.091	0.0128	488.01	0.0117	0.01172
Cu	63	3	He	-0.205	0.0104	688.02	0.0196	0.01443
Cu	63	3	He	-0.234	0.0099	662.02	0.0196	0.01443
Cu	63	3	He	-0.23	0.0099	660.02	0.0196	0.01443
Zn	66	3	He	0.872	0.0048	316.00	0.0023	0.002807
Zn	66	3	He	0.953	0.005	334.01	0.0023	0.002807
Zn	66	3	He	0.951	0.005	330.01	0.0023	0.002807
As	75	3	He	0.116	0.0015	98.00	0.0018	0.001271
As	75	3	He	0.118	0.0015	100.00	0.0018	0.001271
As	75	3	He	0.307	0.0018	122.00	0.0018	0.001271
Sr	88	3	He	2.56	0.0222	1120.07	0.0082	0.00114
Sr	88	3	He	2.538	0.022	1120.08	0.0082	0.00114
Sr	88	3	He	2.094	0.0183	920.06	0.0082	0.00114
Mo	98	3	He	2114.659	37.4564	1892238.57	0.0177	0.001504
Mo	98	3	He	2132.379	37.7703	1923646.85	0.0177	0.001504
Mo	98	3	He	2146.814	38.0259	1906934.19	0.0177	0.001504
Ag	107	3	He	0.018	0.002	100.00	0.0368	0.001325
Ag	107	3	He	0.049	0.0031	160.01	0.0368	0.001325
Ag	107	3	He	0.056	0.0034	170.01	0.0368	0.001325
Cd	111	3	He	0.181	0.0008	40.00	0.0041	4.798E-05
Cd	111	3	He	0.189	0.0008	42.00	0.0041	4.798E-05
Cd	111	3	He	0.163	0.0007	36.00	0.0041	4.798E-05
Sn	120	3	He	-0.038	0.0105	530.03	0.0126	0.01097
Sn	120	3	He	-0.091	0.0098	500.02	0.0126	0.01097
Sn	120	3	He	-0.142	0.0092	460.02	0.0126	0.01097
Sb	121	3	He	0.211	0.0029	146.67	0.012	0.0003595
Sb	121	3	He	0.155	0.0022	113.33	0.012	0.0003595
Sb	121	3	He	0.147	0.0021	106.67	0.012	0.0003595
Ba	137	3	He	-0.093	0	0.00	0.0039	0.0003633
Ba	137	3	He	0.662	0.0029	150.00	0.0039	0.0003633
Ba	137	3	He	0.367	0.0018	90.00	0.0039	0.0003633
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.026	0.0008	160.01	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	0.068	0.0032	320.02	0.0252	0.001497
Pb	208	3	He	0.071	0.0033	260.01	0.0252	0.001497
Pb	208	3	He	0.101	0.004	420.02	0.0252	0.001497
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
Sc	45	1	No Gas			1686437.16		
Sc	45	1	No Gas			1662556.23		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1678951.85		
Ge	72	1	No Gas			848812.17		
Ge	72	1	No Gas			849096.78		
Ge	72	1	No Gas			845813.35		
Sc	45	2	H2			128592.13		
Sc	45	2	H2			128290.93		
Sc	45	2	H2			128378.76		
Ge	72	2	H2			96418.40		
Ge	72	2	H2			96004.91		
Ge	72	2	H2			99738.61		
In	115	2	H2			234074.84		
In	115	2	H2			238145.04		
In	115	2	H2			239973.92		
Sc	45	3	He			37975.03		
Sc	45	3	He			38535.96		
Sc	45	3	He			38165.23		
Ge	72	3	He			65985.85		
Ge	72	3	He			67170.73		
Ge	72	3	He			66428.17		
In	115	3	He			50522.14		
In	115	3	He			50933.69		
In	115	3	He			50151.47		
Tb	159	3	He			192836.97		
Tb	159	3	He			191733.08		
Tb	159	3	He			193170.52		
Bi	209	3	He			140732.63		
Bi	209	3	He			137543.85		
Bi	209	3	He			138422.39		

Quantitation Report

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Sample Type	ICSAB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

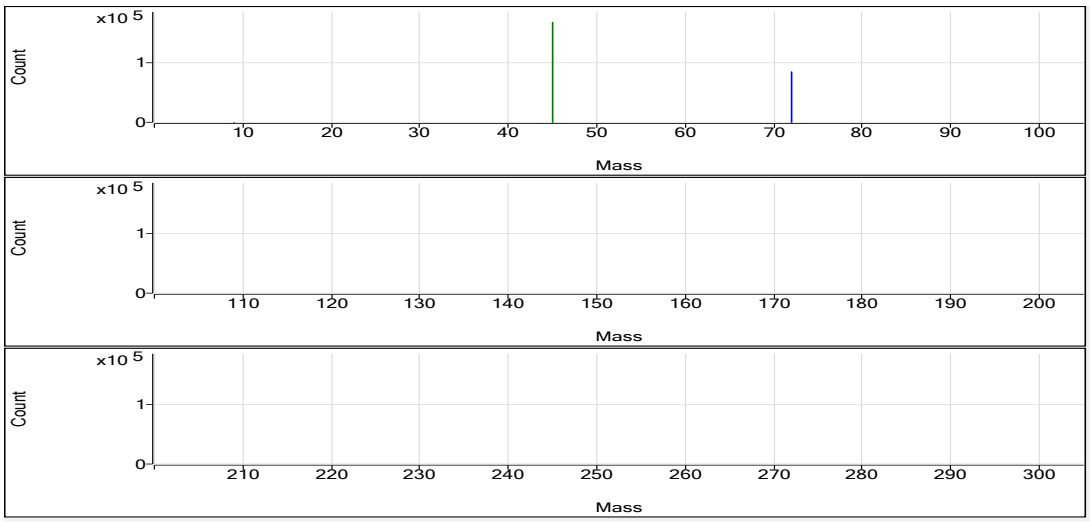
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.024	ppb	N/A	30.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	99.626	ppb	1.9	3745.55	0.0387	Pulse	1.5000	3
Na	23	45	He	246741.451	ppb	1.5	24191262.97	615.8085	Analog	0.1000	3
Mg	24	45	He	99225.542	ppb	0.5	4721275.76	120.1759	Analog	0.1000	3
Al	27	45	He	101575.423	ppb	1.4	1504989.98	38.3095	Analog	0.1000	3
K	39	45	He	100062.991	ppb	2.1	3923945.33	99.8884	Analog	0.5000	3
Ca	44	45	He	287829.016	ppb	1.0	595388.11	15.1556	Pulse	0.5000	3
Ti	47	45	He	2004.755	ppb	1.7	32226.17	0.8203	Pulse	0.5000	3
V	51	45	He	206.214	ppb	1.2	143509.68	3.6531	Pulse	0.5000	3
Cr	52	45	He	204.670	ppb	0.8	176667.05	4.4970	Pulse	0.1000	3
Mn	55	45	He	201.638	ppb	0.6	72622.10	1.8485	Pulse	0.5000	3
Fe	57	45	He	239961.124	ppb	1.2	3764784.32	95.8339	Analog	0.1000	3
Co	59	45	He	201.545	ppb	1.4	327139.01	8.3275	Pulse	0.5000	3
Ni	60	45	He	198.385	ppb	1.6	91993.73	2.3418	Pulse	0.5000	3
Cu	63	72	He	194.457	ppb	0.7	257473.00	3.8184	Pulse	0.5000	3
Zn	66	72	He	98.438	ppb	1.4	15274.56	0.2265	Pulse	0.5000	3
As	75	72	He	95.605	ppb	1.5	11951.82	0.1773	Pulse	0.5000	3
Sr	88	115	He	2.223	ppb	5.4	1020.07	0.0194	Pulse	0.1000	3
Mo	98	115	He	2088.488	ppb	1.9	1943880.70	36.9929	Analog	0.1000	3
Ag	107	115	He	51.322	ppb	1.2	99246.05	1.8886	Pulse	0.1000	3
Cd	111	115	He	103.121	ppb	0.6	22233.77	0.4231	Pulse	0.5000	3
Sn	120	115	He	-0.105	ppb	N/A	506.69	0.0096	Pulse	0.1000	3
Sb	121	115	He	0.142	ppb	14.5	108.89	0.0021	Pulse	0.3000	3
Ba	137	115	He	0.411	ppb	19.2	103.34	0.0020	Pulse	0.1000	3
Tl	205	159	He	-0.040	ppb	N/A	113.34	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.068	ppb	20.9	626.70	0.0032	Pulse	0.1000	3
U	238	159	He	0.004	ppb	72.8	43.33	0.0002	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1690247.58	0.7	98.9	Analog	0.1000	3
No Gas	Ge	72	852818.71	0.7	98.7	Pulse	0.1000	3
H2	Sc	45	127935.81	1.4	95.7	Pulse	0.1000	3
H2	Ge	72	96781.12	0.5	97.7	Pulse	0.1000	3
H2	In	115	234301.51	2.3	91.3	Pulse	0.1000	3
He	Sc	45	39287.66	1.0	99.5	Pulse	0.1000	3
He	Ge	72	67431.68	1.0	99.0	Pulse	0.1000	3
He	In	115	52552.28	0.9	94.9	Pulse	0.1000	3
He	Tb	159	195889.36	0.5	95.7	Pulse	0.1000	3
He	Bi	209	138727.74	0.8	91.7	Pulse	0.1000	3

No Gas



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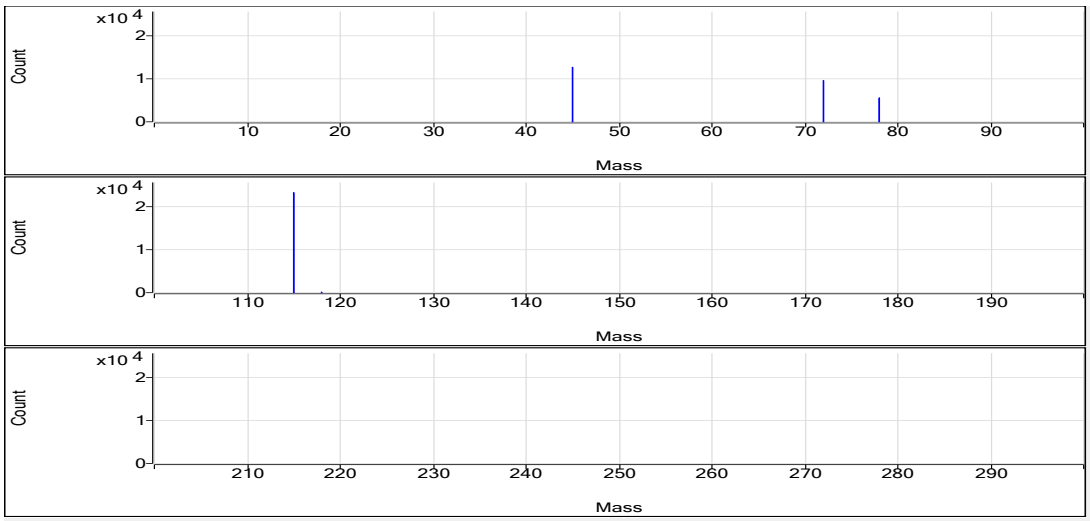
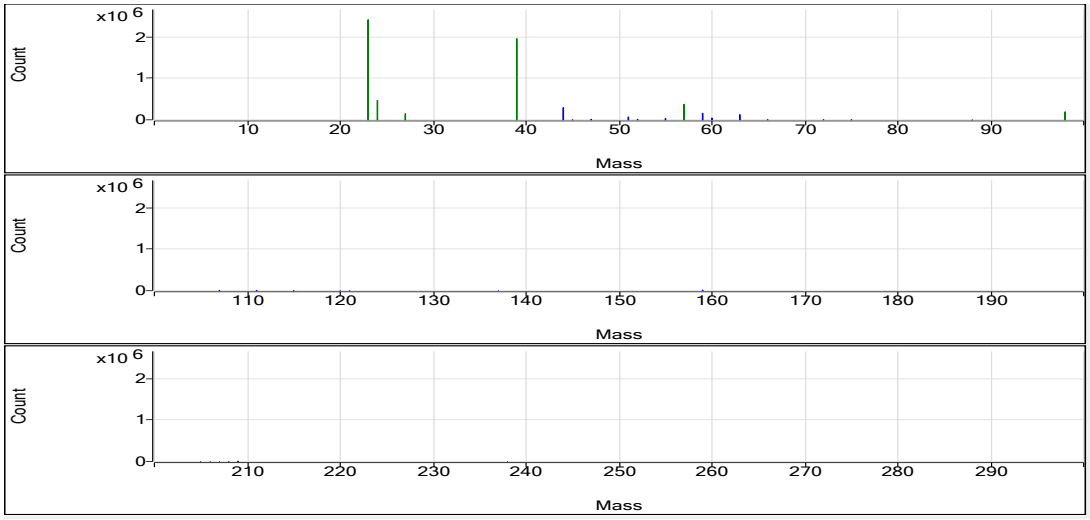


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.014	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.028	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.029	0	28.00	0.0003	2.616E-05
Se	78	2	H2	98.054	0.0381	3674.42	0.0004	6.3E-05
Se	78	2	H2	101.707	0.0395	3844.46	0.0004	6.3E-05
Se	78	2	H2	99.119	0.0385	3717.77	0.0004	6.3E-05
Na	23	3	He	244499.375	610.2196	24194287.14	0.0025	0.7502
Na	23	3	He	244622.232	610.5259	24034957.14	0.0025	0.7502
Na	23	3	He	251102.746	626.68	24344544.64	0.0025	0.7502
Mg	24	3	He	98784.307	119.6416	4743609.62	0.0012	0.02618
Mg	24	3	He	99172.909	120.1122	4728531.49	0.0012	0.02618
Mg	24	3	He	99719.411	120.7739	4691686.18	0.0012	0.02618
Al	27	3	He	101454.705	38.264	1517110.60	0.0004	0.005329
Al	27	3	He	100200.457	37.791	1487743.73	0.0004	0.005329
Al	27	3	He	103071.106	38.8736	1510115.60	0.0004	0.005329
K	39	3	He	99601.003	99.4297	3942237.50	0.001	0.5307
K	39	3	He	98238.098	98.0764	3861035.50	0.001	0.5307
K	39	3	He	102349.872	102.1592	3968563.00	0.001	0.5307
Ca	44	3	He	286051.943	15.0621	597188.44	0.0001	0.004441
Ca	44	3	He	286124.758	15.0659	593109.00	0.0001	0.004441
Ca	44	3	He	291310.347	15.3389	595866.88	0.0001	0.004441
Ti	47	3	He	1966.615	0.8047	31906.85	0.0004	0.0004559
Ti	47	3	He	2019.613	0.8264	32534.10	0.0004	0.0004559
Ti	47	3	He	2028.036	0.8299	32237.55	0.0004	0.0004559
V	51	3	He	203.792	3.6105	143149.98	0.0176	0.02609
V	51	3	He	206.2	3.6528	143803.52	0.0176	0.02609
V	51	3	He	208.651	3.6959	143575.55	0.0176	0.02609
Cr	52	3	He	203.361	4.4686	177171.66	0.0217	0.05061
Cr	52	3	He	204.239	4.4876	176667.87	0.0217	0.05061
Cr	52	3	He	206.409	4.5348	176161.62	0.0217	0.05061
Mn	55	3	He	200.373	1.837	72835.18	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	201.637	1.8485	72772.63	0.0091	0.01071
Mn	55	3	He	202.904	1.8601	72258.48	0.0091	0.01071
Fe	57	3	He	237542.807	94.8681	3761378.69	0.0004	0.008452
Fe	57	3	He	239301.008	95.5703	3762374.63	0.0004	0.008452
Fe	57	3	He	243039.557	97.0632	3770599.63	0.0004	0.008452
Co	59	3	He	198.959	8.2208	325941.03	0.0413	0.006013
Co	59	3	He	201.285	8.3168	327411.94	0.0413	0.006013
Co	59	3	He	204.392	8.4451	328064.06	0.0413	0.006013
Ni	60	3	He	194.707	2.2986	91134.92	0.0117	0.01172
Ni	60	3	He	199.57	2.3557	92737.87	0.0117	0.01172
Ni	60	3	He	200.879	2.3711	92108.41	0.0117	0.01172
Cu	63	3	He	193.339	3.7966	256427.25	0.0196	0.01443
Cu	63	3	He	195.967	3.848	256809.70	0.0196	0.01443
Cu	63	3	He	194.064	3.8107	259182.05	0.0196	0.01443
Zn	66	3	He	99.422	0.2288	15451.39	0.0023	0.002807
Zn	66	3	He	98.983	0.2278	15201.16	0.0023	0.002807
Zn	66	3	He	96.911	0.2231	15171.12	0.0023	0.002807
As	75	3	He	96.38	0.1787	12068.58	0.0018	0.001271
As	75	3	He	96.505	0.1789	11940.46	0.0018	0.001271
As	75	3	He	93.932	0.1742	11846.43	0.0018	0.001271
Sr	88	3	He	2.085	0.0183	950.06	0.0082	0.00114
Sr	88	3	He	2.279	0.0199	1050.07	0.0082	0.00114
Sr	88	3	He	2.306	0.0201	1060.09	0.0082	0.00114
Mo	98	3	He	2127.412	37.6823	1959627.63	0.0177	0.001504
Mo	98	3	He	2090.143	37.0222	1957257.78	0.0177	0.001504
Mo	98	3	He	2047.91	36.2741	1914756.69	0.0177	0.001504
Ag	107	3	He	51.529	1.8962	98609.00	0.0368	0.001325
Ag	107	3	He	50.656	1.8641	98548.28	0.0368	0.001325
Ag	107	3	He	51.781	1.9055	100580.88	0.0368	0.001325
Cd	111	3	He	103.334	0.424	22047.49	0.0041	4.798E-05
Cd	111	3	He	102.395	0.4201	22209.76	0.0041	4.798E-05
Cd	111	3	He	103.635	0.4252	22444.06	0.0041	4.798E-05
Sn	120	3	He	-0.153	0.009	470.02	0.0126	0.01097
Sn	120	3	He	-0.225	0.0081	430.02	0.0126	0.01097
Sn	120	3	He	0.062	0.0117	620.03	0.0126	0.01097
Sb	121	3	He	0.119	0.0018	93.33	0.012	0.0003595
Sb	121	3	He	0.148	0.0021	113.34	0.012	0.0003595
Sb	121	3	He	0.159	0.0023	120.00	0.012	0.0003595
Ba	137	3	He	0.498	0.0023	120.01	0.0039	0.0003633
Ba	137	3	He	0.392	0.0019	100.00	0.0039	0.0003633
Ba	137	3	He	0.344	0.0017	90.00	0.0039	0.0003633
Tl	205	3	He	-0.041	0.0006	110.01	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.035	0.0007	130.01	0.0189	0.001334
Pb	208	3	He	0.056	0.0029	320.01	0.0252	0.001497
Pb	208	3	He	0.083	0.0036	330.02	0.0252	0.001497
Pb	208	3	He	0.064	0.0031	330.02	0.0252	0.001497
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
Sc	45	1	No Gas			1678369.51		
Sc	45	1	No Gas			1690055.91		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1702317.32		
Ge	72	1	No Gas			854262.80		
Ge	72	1	No Gas			846166.94		
Ge	72	1	No Gas			858026.39		
Sc	45	2	H2			125890.17		
Sc	45	2	H2			128993.79		
Sc	45	2	H2			128923.47		
Ge	72	2	H2			96469.32		
Ge	72	2	H2			97313.62		
Ge	72	2	H2			96560.42		
In	115	2	H2			231711.99		
In	115	2	H2			240467.03		
In	115	2	H2			230725.50		
Sc	45	3	He			39648.49		
Sc	45	3	He			39367.63		
Sc	45	3	He			38846.85		
Ge	72	3	He			67542.11		
Ge	72	3	He			66739.20		
Ge	72	3	He			68013.73		
In	115	3	He			52007.23		
In	115	3	He			52870.18		
In	115	3	He			52790.07		
Tb	159	3	He			196756.17		
Tb	159	3	He			194882.30		
Tb	159	3	He			196029.61		
Bi	209	3	He			138350.30		
Bi	209	3	He			137796.79		
Bi	209	3	He			140036.14		

Quantitation Report

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Auto Dilution	1.0000
Total Dilution	1.0000
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Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

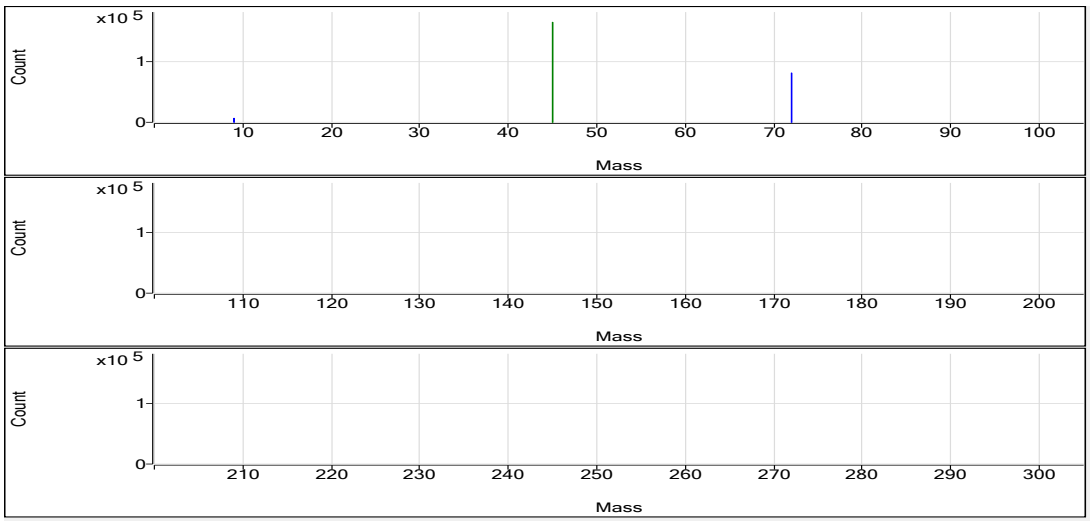
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.906	ppb	5.8	13996.51	0.0084	Pulse	0.5000	3
Se	78	72	H2	25.426	ppb	0.9	953.81	0.0099	Pulse	1.5000	3
Na	23	45	He	2456.494	ppb	3.6	266721.25	6.8735	Pulse	0.1000	3
Mg	24	45	He	2577.716	ppb	2.0	122171.47	3.1475	Pulse	0.1000	3
Al	27	45	He	2585.152	ppb	3.5	38034.14	0.9802	Pulse	0.1000	3
K	39	45	He	2545.812	ppb	3.9	118702.41	3.0585	Pulse	0.5000	3
Ca	44	45	He	2547.440	ppb	3.0	5376.24	0.1385	Pulse	0.5000	3
Ti	47	45	He	2554.190	ppb	3.9	40545.16	1.0450	Pulse	0.5000	3
V	51	45	He	256.940	ppb	3.5	176361.66	4.5453	Pulse	0.5000	3
Cr	52	45	He	256.577	ppb	4.1	218213.10	5.6246	Pulse	0.1000	3
Mn	55	45	He	256.698	ppb	3.5	91198.94	2.3504	Pulse	0.5000	3
Fe	57	45	He	2582.867	ppb	3.2	40354.18	1.0399	Pulse	0.1000	3
Co	59	45	He	256.882	ppb	3.4	411782.76	10.6123	Pulse	0.5000	3
Ni	60	45	He	255.938	ppb	3.6	117094.25	3.0177	Pulse	0.5000	3
Cu	63	72	He	255.550	ppb	1.1	325048.78	5.0135	Pulse	0.5000	3
Zn	66	72	He	255.146	ppb	2.3	37773.18	0.5827	Pulse	0.5000	3
As	75	72	He	250.264	ppb	1.0	29951.80	0.4619	Pulse	0.5000	3
Sr	88	115	He	24.324	ppb	2.1	10600.55	0.2010	Pulse	0.1000	3
Mo	98	115	He	24.901	ppb	0.6	23344.52	0.4425	Pulse	0.1000	3
Ag	107	115	He	25.520	ppb	2.8	49562.28	0.9398	Pulse	0.1000	3
Cd	111	115	He	25.942	ppb	2.4	5615.70	0.1065	Pulse	0.5000	3
Sn	120	115	He	24.869	ppb	2.7	17086.61	0.3240	Pulse	0.1000	3
Sb	121	115	He	25.490	ppb	2.2	16213.00	0.3074	Pulse	0.3000	3
Ba	137	115	He	250.724	ppb	2.8	51607.41	0.9786	Pulse	0.1000	3
Tl	205	159	He	24.909	ppb	0.9	93062.31	0.4731	Pulse	0.1000	3
Pb	208	159	He	24.799	ppb	1.5	123017.04	0.6254	Pulse	0.1000	3
U	238	159	He	25.306	ppb	1.2	122228.97	0.6213	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1664586.18	0.6	97.4	Analog	0.1000	3
No Gas	Ge	72	821436.92	0.9	95.1	Pulse	0.1000	3
H2	Sc	45	131489.67	2.5	98.4	Pulse	0.1000	3
H2	Ge	72	96116.45	0.6	97.0	Pulse	0.1000	3
H2	In	115	245211.07	0.7	95.5	Pulse	0.1000	3
He	Sc	45	38833.25	3.6	98.4	Pulse	0.1000	3
He	Ge	72	64841.01	1.5	95.2	Pulse	0.1000	3
He	In	115	52753.76	1.7	95.2	Pulse	0.1000	3
He	Tb	159	196715.69	0.8	96.1	Pulse	0.1000	3
He	Bi	209	144849.65	0.5	95.8	Pulse	0.1000	3

No Gas



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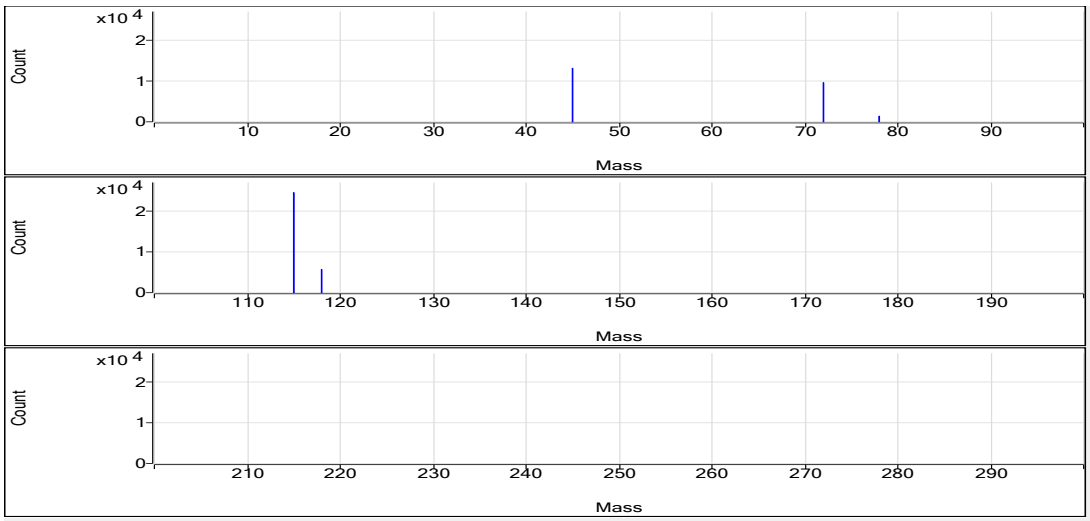
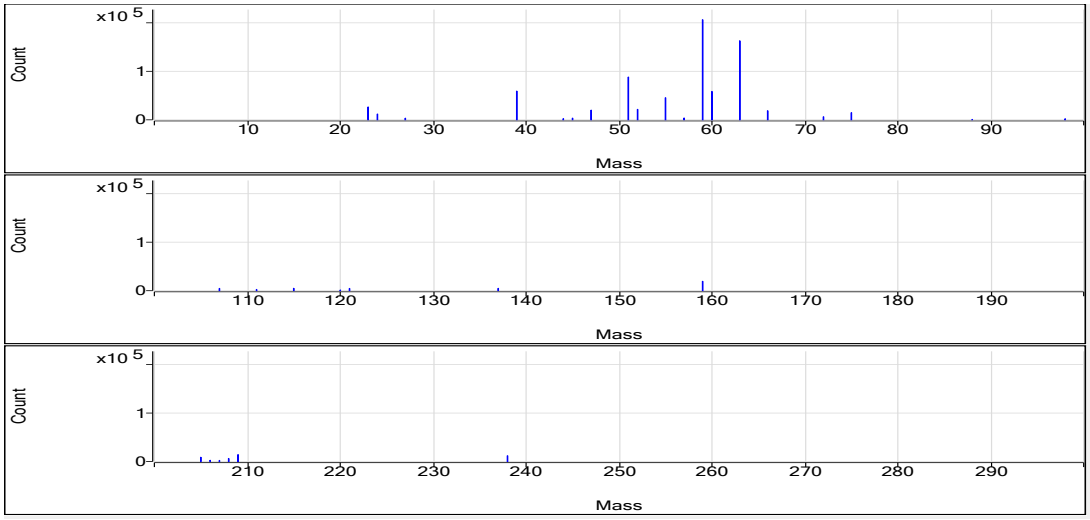


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.289	0.0079	13113.13	0.0003	2.616E-05
Be	9	1	No Gas	25.391	0.0086	14165.98	0.0003	2.616E-05
Be	9	1	No Gas	26.037	0.0088	14710.42	0.0003	2.616E-05
Se	78	2	H2	25.473	0.0099	962.03	0.0004	6.3E-05
Se	78	2	H2	25.169	0.0098	941.36	0.0004	6.3E-05
Se	78	2	H2	25.637	0.01	958.03	0.0004	6.3E-05
Na	23	3	He	2385.089	6.6956	266273.65	0.0025	0.7502
Na	23	3	He	2555.259	7.1197	265158.73	0.0025	0.7502
Na	23	3	He	2429.135	6.8053	268731.38	0.0025	0.7502
Mg	24	3	He	2535.185	3.096	123122.97	0.0012	0.02618
Mg	24	3	He	2633.287	3.2148	119726.65	0.0012	0.02618
Mg	24	3	He	2564.677	3.1317	123664.79	0.0012	0.02618
Al	27	3	He	2498.62	0.9476	37683.34	0.0004	0.005329
Al	27	3	He	2680.465	1.0161	37843.70	0.0004	0.005329
Al	27	3	He	2576.371	0.9769	38575.37	0.0004	0.005329
K	39	3	He	2553.18	3.0658	121924.89	0.001	0.5307
K	39	3	He	2641.332	3.1534	117440.52	0.001	0.5307
K	39	3	He	2442.923	2.9564	116741.83	0.001	0.5307
Ca	44	3	He	2484.134	0.1352	5376.91	0.0001	0.004441
Ca	44	3	He	2630.786	0.1429	5322.89	0.0001	0.004441
Ca	44	3	He	2527.399	0.1375	5428.92	0.0001	0.004441
Ti	47	3	He	2506.131	1.0254	40778.43	0.0004	0.0004559
Ti	47	3	He	2669.992	1.0924	40684.13	0.0004	0.0004559
Ti	47	3	He	2486.446	1.0173	40172.93	0.0004	0.0004559
V	51	3	He	251.166	4.4437	176720.75	0.0176	0.02609
V	51	3	He	267.314	4.7277	176073.78	0.0176	0.02609
V	51	3	He	252.341	4.4644	176290.44	0.0176	0.02609
Cr	52	3	He	248.267	5.4441	216506.29	0.0217	0.05061
Cr	52	3	He	268.472	5.8831	219101.99	0.0217	0.05061
Cr	52	3	He	252.99	5.5467	219031.03	0.0217	0.05061
Mn	55	3	He	248.788	2.2783	90605.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	266.624	2.4409	90904.60	0.0091	0.01071
Mn	55	3	He	254.681	2.332	92087.20	0.0091	0.01071
Fe	57	3	He	2500.692	1.0071	40049.97	0.0004	0.008452
Fe	57	3	He	2666.365	1.0732	39970.09	0.0004	0.008452
Fe	57	3	He	2581.544	1.0394	41042.48	0.0004	0.008452
Co	59	3	He	250.753	10.3593	411974.63	0.0413	0.006013
Co	59	3	He	266.739	11.0193	410389.25	0.0413	0.006013
Co	59	3	He	253.155	10.4584	412984.41	0.0413	0.006013
Ni	60	3	He	252.536	2.9778	118422.39	0.0117	0.01172
Ni	60	3	He	266.245	3.1388	116897.27	0.0117	0.01172
Ni	60	3	He	249.034	2.9366	115963.09	0.0117	0.01172
Cu	63	3	He	253.673	4.9768	327746.66	0.0196	0.01443
Cu	63	3	He	258.852	5.0781	324273.47	0.0196	0.01443
Cu	63	3	He	254.126	4.9857	323126.22	0.0196	0.01443
Zn	66	3	He	249.43	0.5697	37517.27	0.0023	0.002807
Zn	66	3	He	261.167	0.5964	38082.57	0.0023	0.002807
Zn	66	3	He	254.842	0.582	37719.71	0.0023	0.002807
As	75	3	He	250.522	0.4624	30452.70	0.0018	0.001271
As	75	3	He	252.62	0.4663	29775.47	0.0018	0.001271
As	75	3	He	247.649	0.4571	29627.22	0.0018	0.001271
Sr	88	3	He	24.769	0.2046	10593.89	0.0082	0.00114
Sr	88	3	He	24.419	0.2018	10673.95	0.0082	0.00114
Sr	88	3	He	23.783	0.1965	10533.82	0.0082	0.00114
Mo	98	3	He	25.03	0.4448	23027.40	0.0177	0.001504
Mo	98	3	He	24.93	0.4431	23438.08	0.0177	0.001504
Mo	98	3	He	24.743	0.4398	23568.07	0.0177	0.001504
Ag	107	3	He	26.336	0.9698	50200.88	0.0368	0.001325
Ag	107	3	He	25.027	0.9217	48756.31	0.0368	0.001325
Ag	107	3	He	25.197	0.9279	49729.64	0.0368	0.001325
Cd	111	3	He	26.589	0.1091	5649.05	0.0041	4.798E-05
Cd	111	3	He	25.346	0.104	5502.99	0.0041	4.798E-05
Cd	111	3	He	25.891	0.1063	5695.07	0.0041	4.798E-05
Sn	120	3	He	25.557	0.3327	17220.17	0.0126	0.01097
Sn	120	3	He	24.825	0.3234	17109.90	0.0126	0.01097
Sn	120	3	He	24.225	0.3159	16929.77	0.0126	0.01097
Sb	121	3	He	26.129	0.3151	16312.00	0.012	0.0003595
Sb	121	3	He	25.154	0.3034	16048.40	0.012	0.0003595
Sb	121	3	He	25.185	0.3037	16278.61	0.012	0.0003595
Ba	137	3	He	257.413	1.0047	52008.71	0.0039	0.0003633
Ba	137	3	He	251.55	0.9818	51938.68	0.0039	0.0003633
Ba	137	3	He	243.208	0.9493	50874.85	0.0039	0.0003633
Tl	205	3	He	24.759	0.4703	93095.78	0.0189	0.001334
Tl	205	3	He	25.162	0.4779	93156.39	0.0189	0.001334
Tl	205	3	He	24.806	0.4711	92934.77	0.0189	0.001334
Pb	208	3	He	24.927	0.6286	65648.29	0.0252	0.001497
Pb	208	3	He	25.087	0.6326	66421.39	0.0252	0.001497
Pb	208	3	He	24.383	0.6149	65487.74	0.0252	0.001497
U	238	3	He	25.608	0.6287	124467.33	0.0245	0.0001141
U	238	3	He	25.293	0.621	121059.33	0.0245	0.0001141
U	238	3	He	25.017	0.6142	121160.26	0.0245	0.0001141
Sc	45	1	No Gas			1667429.04		
Sc	45	1	No Gas			1652639.51		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1673689.98		
Ge	72	1	No Gas			816733.97		
Ge	72	1	No Gas			817789.68		
Ge	72	1	No Gas			829787.10		
Sc	45	2	H2			131553.48		
Sc	45	2	H2			134810.11		
Sc	45	2	H2			128105.43		
Ge	72	2	H2			96769.54		
Ge	72	2	H2			95825.41		
Ge	72	2	H2			95754.41		
In	115	2	H2			246654.55		
In	115	2	H2			245728.32		
In	115	2	H2			243250.35		
Sc	45	3	He			39768.73		
Sc	45	3	He			37242.76		
Sc	45	3	He			39488.26		
Ge	72	3	He			65854.96		
Ge	72	3	He			63857.08		
Ge	72	3	He			64811.00		
In	115	3	He			51886.74		
In	115	3	He			53020.69		
In	115	3	He			53712.66		
Tb	159	3	He			197961.95		
Tb	159	3	He			194933.14		
Tb	159	3	He			197251.99		
Bi	209	3	He			144287.43		
Bi	209	3	He			145660.95		
Bi	209	3	He			144600.56		

Quantitation Report

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Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

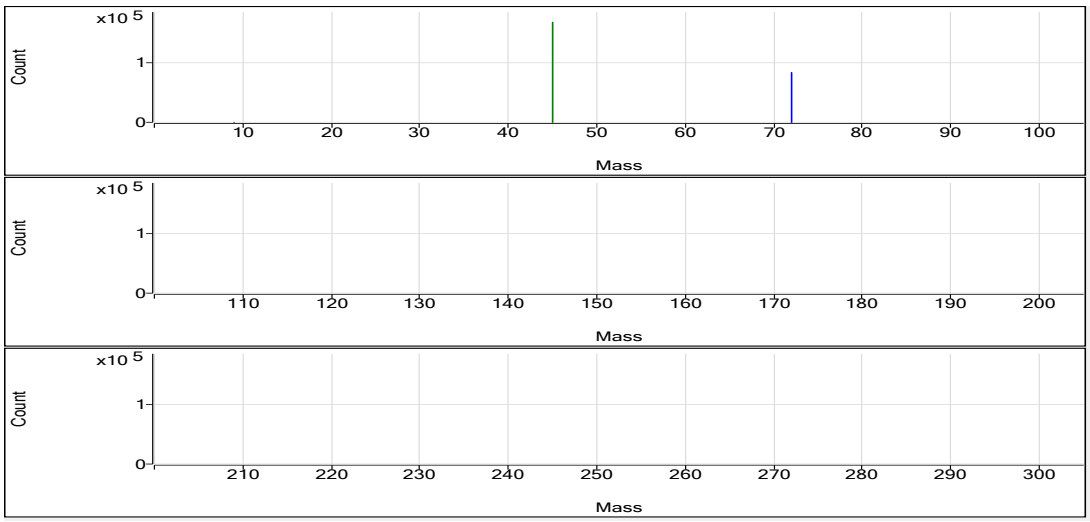
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.009	ppb	N/A	38.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.096	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	-93.668	ppb	N/A	20132.56	0.5167	Pulse	0.1000	3
Mg	24	45	He	-8.906	ppb	N/A	600.03	0.0154	Pulse	0.1000	3
Al	27	45	He	-0.969	ppb	N/A	193.34	0.0050	Pulse	0.1000	3
K	39	45	He	-20.059	ppb	N/A	19894.76	0.5107	Pulse	0.5000	3
Ca	44	45	He	-12.856	ppb	N/A	146.67	0.0038	Pulse	0.5000	3
Ti	47	45	He	-0.195	ppb	N/A	14.67	0.0004	Pulse	0.5000	3
V	51	45	He	-0.184	ppb	N/A	890.70	0.0229	Pulse	0.5000	3
Cr	52	45	He	-0.088	ppb	N/A	1896.83	0.0487	Pulse	0.1000	3
Mn	55	45	He	-0.267	ppb	N/A	322.67	0.0083	Pulse	0.5000	3
Fe	57	45	He	-5.310	ppb	N/A	246.68	0.0063	Pulse	0.1000	3
Co	59	45	He	-0.010	ppb	N/A	218.67	0.0056	Pulse	0.5000	3
Ni	60	45	He	-0.148	ppb	N/A	388.68	0.0100	Pulse	0.5000	3
Cu	63	72	He	-0.239	ppb	N/A	639.35	0.0098	Pulse	0.5000	3
Zn	66	72	He	-0.181	ppb	N/A	157.33	0.0024	Pulse	0.5000	3
As	75	72	He	0.088	ppb	7.9	94.00	0.0014	Pulse	0.5000	3
Sr	88	115	He	-0.093	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Mo	98	115	He	0.029	ppb	20.2	106.67	0.0020	Pulse	0.1000	3
Ag	107	115	He	-0.021	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.006	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.026	ppb	N/A	563.37	0.0106	Pulse	0.1000	3
Sb	121	115	He	0.014	ppb	123.4	27.78	0.0005	Pulse	0.3000	3
Ba	137	115	He	0.068	ppb	147.5	33.33	0.0006	Pulse	0.1000	3
Tl	205	159	He	-0.009	ppb	N/A	226.68	0.0012	Pulse	0.1000	3
Pb	208	159	He	-0.006	ppb	N/A	260.01	0.0013	Pulse	0.1000	3
U	238	159	He	0.000	ppb	N/A	20.00	0.0001	Pulse	0.1000	3

ISTD Table:

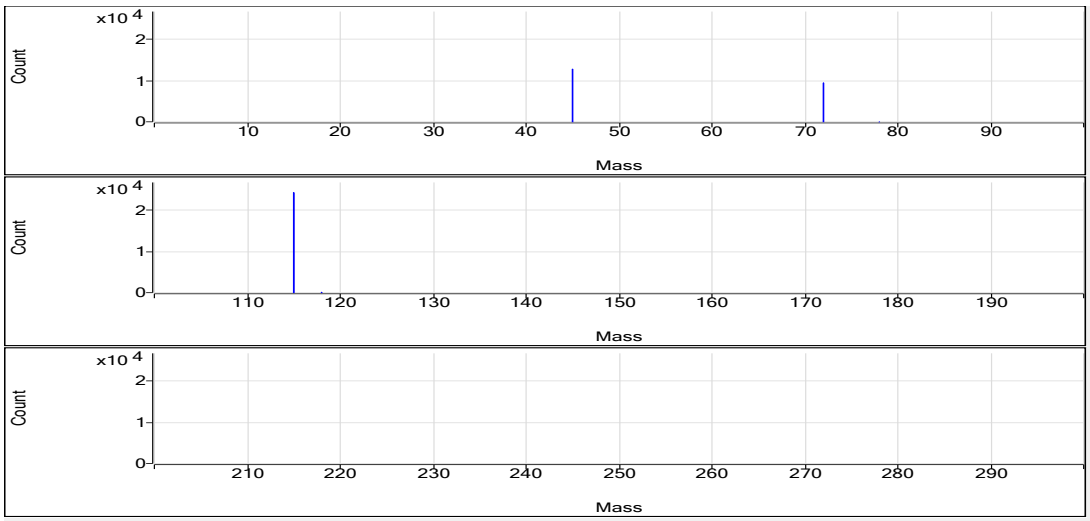
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1670855.29	2.0	97.8	Analog	0.1000	3
No Gas	Ge	72	830798.01	0.2	96.2	Pulse	0.1000	3
H2	Sc	45	128523.95	1.9	96.2	Pulse	0.1000	3
H2	Ge	72	94835.76	0.9	95.7	Pulse	0.1000	3
H2	In	115	243672.67	0.8	94.9	Pulse	0.1000	3
He	Sc	45	38963.51	0.4	98.7	Pulse	0.1000	3
He	Ge	72	65597.74	2.7	96.3	Pulse	0.1000	3
He	In	115	52943.46	0.4	95.6	Pulse	0.1000	3
He	Tb	159	194406.71	0.6	94.9	Pulse	0.1000	3
He	Bi	209	141705.70	0.6	93.7	Pulse	0.1000	3

No Gas

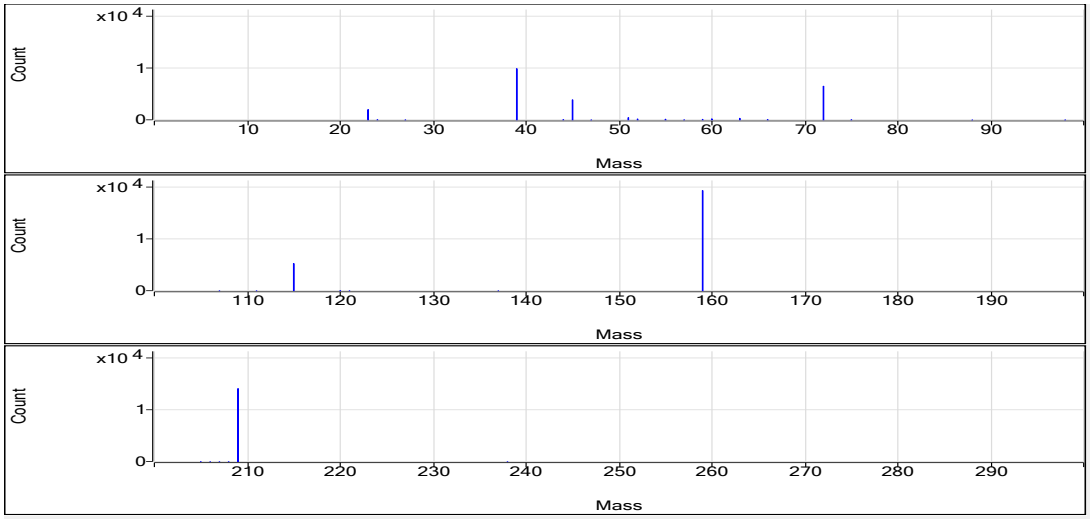


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.013	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.005	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.009	0	38.00	0.0003	2.616E-05
Se	78	2	H2	-0.019	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	-0.162	0	0.00	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Na	23	3	He	-92.883	0.5187	20142.58	0.0025	0.7502
Na	23	3	He	-95.945	0.511	19882.24	0.0025	0.7502
Na	23	3	He	-92.176	0.5204	20372.85	0.0025	0.7502
Mg	24	3	He	-9.926	0.0142	550.03	0.0012	0.02618
Mg	24	3	He	-8.037	0.0165	640.03	0.0012	0.02618
Mg	24	3	He	-8.753	0.0156	610.03	0.0012	0.02618
Al	27	3	He	0.89	0.0057	220.01	0.0004	0.005329
Al	27	3	He	-1.182	0.0049	190.01	0.0004	0.005329
Al	27	3	He	-2.616	0.0043	170.01	0.0004	0.005329
K	39	3	He	48.656	0.579	22485.30	0.001	0.5307
K	39	3	He	-38.031	0.4929	19177.14	0.001	0.5307
K	39	3	He	-70.801	0.4604	18021.83	0.001	0.5307
Ca	44	3	He	-10.012	0.0039	152.00	0.0001	0.004441
Ca	44	3	He	-16.982	0.0035	138.00	0.0001	0.004441
Ca	44	3	He	-11.573	0.0038	150.00	0.0001	0.004441
Ti	47	3	He	-0.233	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.486	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	0.135	0.0005	20.00	0.0004	0.0004559
V	51	3	He	-0.14	0.0236	918.03	0.0176	0.02609
V	51	3	He	-0.157	0.0233	908.03	0.0176	0.02609
V	51	3	He	-0.255	0.0216	846.03	0.0176	0.02609
Cr	52	3	He	0.041	0.0515	2000.17	0.0217	0.05061
Cr	52	3	He	-0.081	0.0488	1900.18	0.0217	0.05061
Cr	52	3	He	-0.225	0.0457	1790.15	0.0217	0.05061
Mn	55	3	He	-0.294	0.008	312.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.295	0.008	312.00	0.0091	0.01071
Mn	55	3	He	-0.211	0.0088	344.01	0.0091	0.01071
Fe	57	3	He	-5.69	0.0062	240.01	0.0004	0.008452
Fe	57	3	He	-3.787	0.0069	270.01	0.0004	0.008452
Fe	57	3	He	-6.453	0.0059	230.01	0.0004	0.008452
Co	59	3	He	0.003	0.0061	238.00	0.0413	0.006013
Co	59	3	He	-0.01	0.0056	218.00	0.0413	0.006013
Co	59	3	He	-0.022	0.0051	200.00	0.0413	0.006013
Ni	60	3	He	-0.138	0.0101	392.01	0.0117	0.01172
Ni	60	3	He	-0.205	0.0093	362.01	0.0117	0.01172
Ni	60	3	He	-0.101	0.0105	412.01	0.0117	0.01172
Cu	63	3	He	-0.184	0.0108	704.02	0.0196	0.01443
Cu	63	3	He	-0.241	0.0097	624.02	0.0196	0.01443
Cu	63	3	He	-0.292	0.0087	590.01	0.0196	0.01443
Zn	66	3	He	-0.207	0.0023	152.00	0.0023	0.002807
Zn	66	3	He	-0.234	0.0023	146.00	0.0023	0.002807
Zn	66	3	He	-0.103	0.0026	174.00	0.0023	0.002807
As	75	3	He	0.095	0.0014	94.00	0.0018	0.001271
As	75	3	He	0.088	0.0014	92.00	0.0018	0.001271
As	75	3	He	0.081	0.0014	96.00	0.0018	0.001271
Sr	88	3	He	-0.116	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	-0.07	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.093	0.0004	20.00	0.0082	0.00114
Mo	98	3	He	0.022	0.0019	100.01	0.0177	0.001504
Mo	98	3	He	0.032	0.0021	110.00	0.0177	0.001504
Mo	98	3	He	0.032	0.0021	110.00	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.028	0.0106	560.03	0.0126	0.01097
Sn	120	3	He	-0.094	0.0098	520.03	0.0126	0.01097
Sn	120	3	He	0.045	0.0115	610.04	0.0126	0.01097
Sb	121	3	He	0.033	0.0008	40.00	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Ba	137	3	He	-0.045	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.148	0.0009	50.00	0.0039	0.0003633
Ba	137	3	He	0.101	0.0008	40.00	0.0039	0.0003633
Tl	205	3	He	0.003	0.0014	270.01	0.0189	0.001334
Tl	205	3	He	-0.011	0.0011	220.01	0.0189	0.001334
Tl	205	3	He	-0.019	0.001	190.01	0.0189	0.001334
Pb	208	3	He	-0.01	0.0012	130.01	0.0252	0.001497
Pb	208	3	He	-0.002	0.0014	120.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	120.01	0.0252	0.001497
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	-0.003	0.0001	10.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1650277.48		
Sc	45	1	No Gas			1709740.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1652547.79		
Ge	72	1	No Gas			832247.18		
Ge	72	1	No Gas			829107.96		
Ge	72	1	No Gas			831038.89		
Sc	45	2	H2			125749.88		
Sc	45	2	H2			129759.78		
Sc	45	2	H2			130062.20		
Ge	72	2	H2			95603.98		
Ge	72	2	H2			94929.74		
Ge	72	2	H2			93973.56		
In	115	2	H2			245853.75		
In	115	2	H2			242855.35		
In	115	2	H2			242308.92		
Sc	45	3	He			38836.37		
Sc	45	3	He			38906.87		
Sc	45	3	He			39147.28		
Ge	72	3	He			65011.65		
Ge	72	3	He			64188.93		
Ge	72	3	He			67592.63		
In	115	3	He			52769.62		
In	115	3	He			53142.13		
In	115	3	He			52930.47		
Tb	159	3	He			193242.63		
Tb	159	3	He			194315.09		
Tb	159	3	He			195662.40		
Bi	209	3	He			140763.51		
Bi	209	3	He			142570.48		
Bi	209	3	He			141783.12		

Quantitation Report

Data File Name	175SMPL.d
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Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

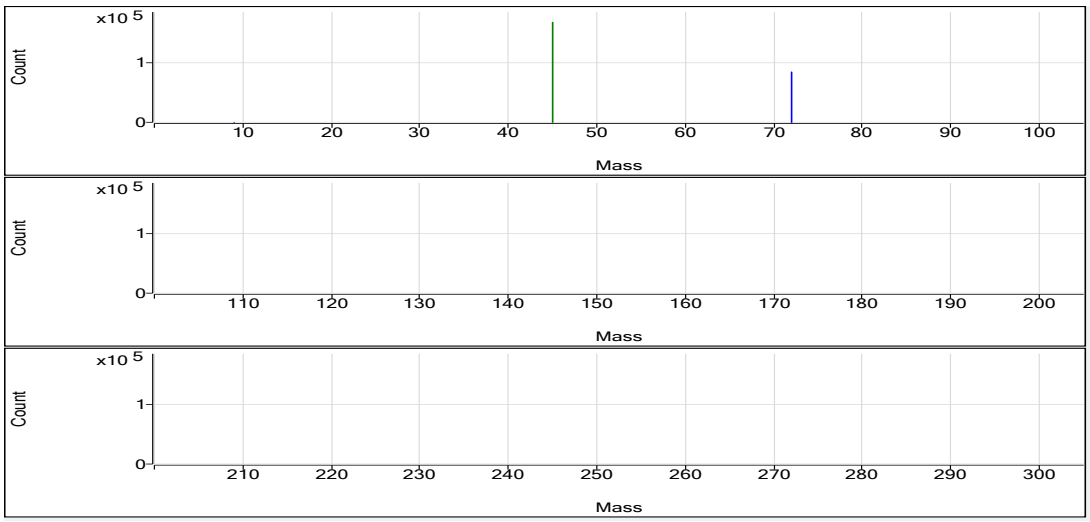
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.038	ppb	N/A	22.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.115	ppb	N/A	1.78	0.0000	Pulse	1.5000	3
Na	23	45	He	333850.091	ppb	2.5	32570389.52	832.9463	Analog	0.1000	3
Mg	24	45	He	-9.444	ppb	N/A	576.70	0.0147	Pulse	0.1000	3
Al	27	45	He	-2.168	ppb	N/A	176.68	0.0045	Pulse	0.1000	3
K	39	45	He	7.003	ppb	970.2	21037.60	0.5376	Pulse	0.5000	3
Ca	44	45	He	-2.051	ppb	N/A	169.33	0.0043	Pulse	0.5000	3
Ti	47	45	He	-0.572	ppb	N/A	8.67	0.0002	Pulse	0.5000	3
V	51	45	He	-0.294	ppb	N/A	818.69	0.0209	Pulse	0.5000	3
Cr	52	45	He	-0.435	ppb	N/A	1610.12	0.0412	Pulse	0.1000	3
Mn	55	45	He	-0.369	ppb	N/A	287.33	0.0073	Pulse	0.5000	3
Fe	57	45	He	-6.635	ppb	N/A	226.68	0.0058	Pulse	0.1000	3
Co	59	45	He	-0.041	ppb	N/A	168.67	0.0043	Pulse	0.5000	3
Ni	60	45	He	-0.228	ppb	N/A	353.34	0.0090	Pulse	0.5000	3
Cu	63	72	He	-0.360	ppb	N/A	494.01	0.0074	Pulse	0.5000	3
Zn	66	72	He	0.874	ppb	27.0	320.01	0.0048	Pulse	0.5000	3
As	75	72	He	0.047	ppb	262.7	90.67	0.0014	Pulse	0.5000	3
Sr	88	115	He	0.091	ppb	42.0	100.00	0.0019	Pulse	0.1000	3
Mo	98	115	He	0.090	ppb	36.9	163.34	0.0031	Pulse	0.1000	3
Ag	107	115	He	-0.024	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	289.3	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.011	ppb	709.0	586.70	0.0111	Pulse	0.1000	3
Sb	121	115	He	0.003	ppb	506.2	21.11	0.0004	Pulse	0.3000	3
Ba	137	115	He	0.312	ppb	48.6	83.33	0.0016	Pulse	0.1000	3
Tl	205	159	He	-0.041	ppb	N/A	110.00	0.0006	Pulse	0.1000	3
Pb	208	159	He	-0.015	ppb	N/A	220.01	0.0011	Pulse	0.1000	3
U	238	159	He	-0.002	ppb	N/A	13.33	0.0001	Pulse	0.1000	3

ISTD Table:

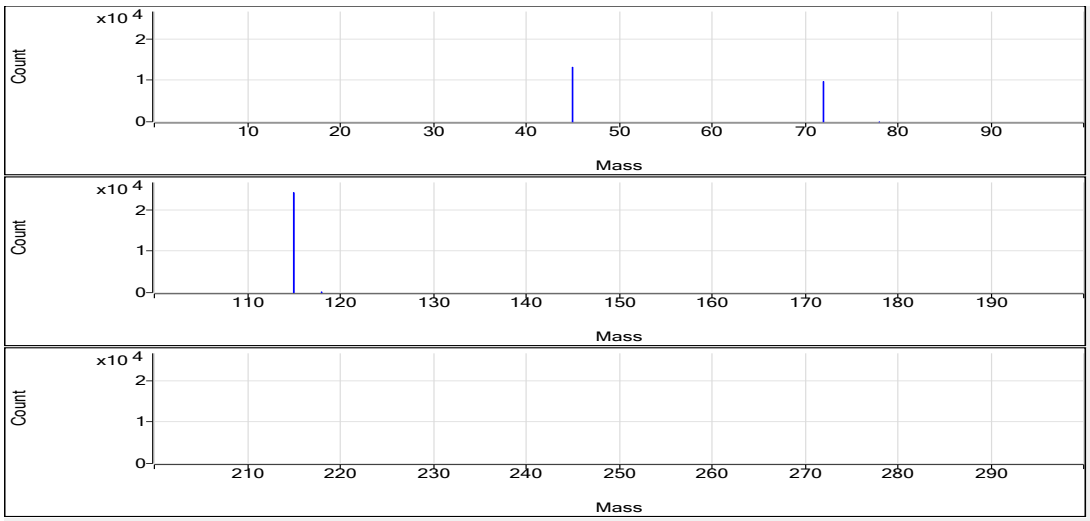
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1669905.55	0.9	97.7	Analog	0.1000	3
No Gas	Ge	72	840760.38	0.8	97.3	Pulse	0.1000	3
H2	Sc	45	132393.14	0.4	99.1	Pulse	0.1000	3
H2	Ge	72	97622.33	1.9	98.5	Pulse	0.1000	3
H2	In	115	242238.64	0.6	94.4	Pulse	0.1000	3
He	Sc	45	39110.69	1.2	99.1	Pulse	0.1000	3
He	Ge	72	66822.46	1.6	98.1	Pulse	0.1000	3
He	In	115	52822.51	1.0	95.3	Pulse	0.1000	3
He	Tb	159	195178.10	0.8	95.3	Pulse	0.1000	3
He	Bi	209	142029.99	1.4	93.9	Pulse	0.1000	3

No Gas

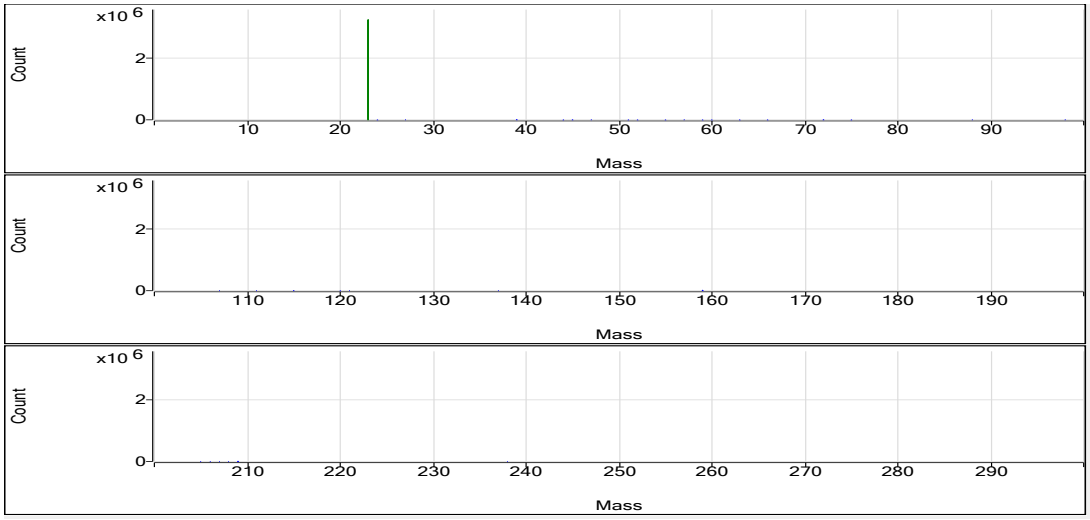


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.021	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.057	0	12.00	0.0003	2.616E-05
Se	78	2	H2	-0.073	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.145	0	0.67	0.0004	6.3E-05
Se	78	2	H2	-0.127	0	1.33	0.0004	6.3E-05
Na	23	3	He	331127.56	826.1598	32499292.02	0.0025	0.7502
Na	23	3	He	327103.753	816.1295	32186639.52	0.0025	0.7502
Na	23	3	He	343318.959	856.5496	33025237.01	0.0025	0.7502
Mg	24	3	He	-11.755	0.0119	470.02	0.0012	0.02618
Mg	24	3	He	-7.592	0.017	670.03	0.0012	0.02618
Mg	24	3	He	-8.984	0.0153	590.04	0.0012	0.02618
Al	27	3	He	0.699	0.0056	220.01	0.0004	0.005329
Al	27	3	He	-2.701	0.0043	170.01	0.0004	0.005329
Al	27	3	He	-4.503	0.0036	140.01	0.0004	0.005329
K	39	3	He	84.914	0.615	24191.84	0.001	0.5307
K	39	3	He	-24.01	0.5068	19988.08	0.001	0.5307
K	39	3	He	-39.896	0.491	18932.88	0.001	0.5307
Ca	44	3	He	7.392	0.0048	190.00	0.0001	0.004441
Ca	44	3	He	-18.853	0.0034	136.00	0.0001	0.004441
Ca	44	3	He	5.31	0.0047	182.00	0.0001	0.004441
Ti	47	3	He	-0.99	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.371	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.354	0.0003	12.00	0.0004	0.0004559
V	51	3	He	-0.168	0.0231	910.03	0.0176	0.02609
V	51	3	He	-0.397	0.0191	754.02	0.0176	0.02609
V	51	3	He	-0.316	0.0205	792.02	0.0176	0.02609
Cr	52	3	He	-0.364	0.0427	1680.13	0.0217	0.05061
Cr	52	3	He	-0.497	0.0398	1570.12	0.0217	0.05061
Cr	52	3	He	-0.443	0.041	1580.12	0.0217	0.05061
Mn	55	3	He	-0.433	0.0068	266.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.279	0.0082	322.00	0.0091	0.01071
Mn	55	3	He	-0.395	0.0071	274.00	0.0091	0.01071
Fe	57	3	He	-7.161	0.0056	220.01	0.0004	0.008452
Fe	57	3	He	-8.466	0.0051	200.01	0.0004	0.008452
Fe	57	3	He	-4.279	0.0067	260.01	0.0004	0.008452
Co	59	3	He	-0.03	0.0048	188.00	0.0413	0.006013
Co	59	3	He	-0.034	0.0046	182.00	0.0413	0.006013
Co	59	3	He	-0.06	0.0035	136.00	0.0413	0.006013
Ni	60	3	He	-0.218	0.0092	360.01	0.0117	0.01172
Ni	60	3	He	-0.272	0.0085	336.01	0.0117	0.01172
Ni	60	3	He	-0.194	0.0094	364.01	0.0117	0.01172
Cu	63	3	He	-0.368	0.0072	476.01	0.0196	0.01443
Cu	63	3	He	-0.363	0.0073	498.01	0.0196	0.01443
Cu	63	3	He	-0.349	0.0076	508.01	0.0196	0.01443
Zn	66	3	He	1.04	0.0052	340.01	0.0023	0.002807
Zn	66	3	He	0.604	0.0042	284.00	0.0023	0.002807
Zn	66	3	He	0.979	0.005	336.01	0.0023	0.002807
As	75	3	He	-0.013	0.0012	82.00	0.0018	0.001271
As	75	3	He	-0.035	0.0012	82.00	0.0018	0.001271
As	75	3	He	0.188	0.0016	108.00	0.0018	0.001271
Sr	88	3	He	0.136	0.0023	120.00	0.0082	0.00114
Sr	88	3	He	0.071	0.0017	90.00	0.0082	0.00114
Sr	88	3	He	0.068	0.0017	90.00	0.0082	0.00114
Mo	98	3	He	0.053	0.0024	130.00	0.0177	0.001504
Mo	98	3	He	0.099	0.0033	170.01	0.0177	0.001504
Mo	98	3	He	0.117	0.0036	190.01	0.0177	0.001504
Ag	107	3	He	-0.01	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.1	0.0122	650.03	0.0126	0.01097
Sn	120	3	He	-0.019	0.0107	560.03	0.0126	0.01097
Sn	120	3	He	-0.047	0.0104	550.03	0.0126	0.01097
Sb	121	3	He	0.022	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	-0.003	0.0003	16.67	0.012	0.0003595
Sb	121	3	He	-0.009	0.0003	13.33	0.012	0.0003595
Ba	137	3	He	0.148	0.0009	50.00	0.0039	0.0003633
Ba	137	3	He	0.447	0.0021	110.00	0.0039	0.0003633
Ba	137	3	He	0.342	0.0017	90.00	0.0039	0.0003633
Tl	205	3	He	-0.038	0.0006	120.00	0.0189	0.001334
Tl	205	3	He	-0.038	0.0006	120.00	0.0189	0.001334
Tl	205	3	He	-0.046	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	-0.025	0.0009	100.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	130.01	0.0252	0.001497
Pb	208	3	He	-0.013	0.0012	140.01	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	-0.003	0.0001	10.00	0.0245	0.0001141
U	238	3	He	-0.003	0.0001	10.00	0.0245	0.0001141
Sc	45	1	No Gas			1662698.73		
Sc	45	1	No Gas			1660209.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1686808.88		
Ge	72	1	No Gas			837252.02		
Ge	72	1	No Gas			836737.18		
Ge	72	1	No Gas			848291.94		
Sc	45	2	H2			132248.41		
Sc	45	2	H2			132933.96		
Sc	45	2	H2			131997.04		
Ge	72	2	H2			96408.21		
Ge	72	2	H2			99738.94		
Ge	72	2	H2			96719.84		
In	115	2	H2			240681.25		
In	115	2	H2			242955.58		
In	115	2	H2			243079.10		
Sc	45	3	He			39337.78		
Sc	45	3	He			39438.15		
Sc	45	3	He			38556.13		
Ge	72	3	He			65744.30		
Ge	72	3	He			67943.59		
Ge	72	3	He			66779.49		
In	115	3	He			53201.05		
In	115	3	He			52227.71		
In	115	3	He			53051.10		
Tb	159	3	He			193608.45		
Tb	159	3	He			195269.72		
Tb	159	3	He			196656.13		
Bi	209	3	He			143976.04		
Bi	209	3	He			140077.76		
Bi	209	3	He			142036.17		

Quantitation Report

Data File Name	176SMPL.d
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Sample Type	Sample
Comment	MS B7
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

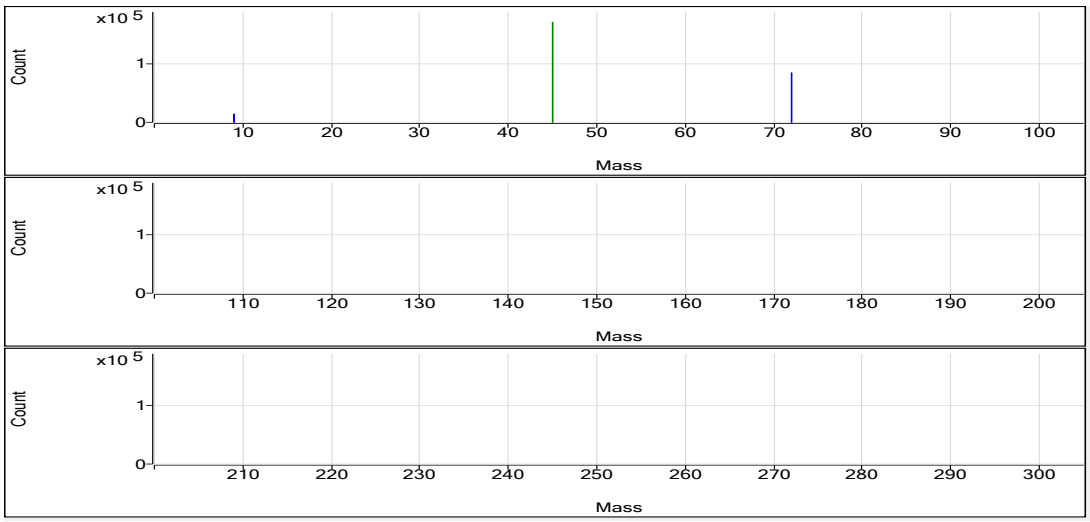
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	49.787	ppb	4.3	28526.68	0.0168	Pulse	0.5000	3
Se	78	72	H2	97.140	ppb	1.6	3729.10	0.0377	Pulse	1.5000	3
Na	23	45	He	346400.037	ppb	2.3	33574692.00	864.2299	Analog	0.1000	3
Mg	24	45	He	5190.979	ppb	2.3	245241.84	6.3118	Pulse	0.1000	3
Al	27	45	He	5250.941	ppb	1.4	77152.36	1.9855	Pulse	0.1000	3
K	39	45	He	5268.495	ppb	2.5	223852.46	5.7620	Pulse	0.5000	3
Ca	44	45	He	5144.891	ppb	1.3	10694.86	0.2753	Pulse	0.5000	3
Ti	47	45	He	541.343	ppb	0.7	8620.30	0.2218	Pulse	0.5000	3
V	51	45	He	525.054	ppb	1.6	359803.88	9.2610	Pulse	0.5000	3
Cr	52	45	He	525.147	ppb	2.0	445198.86	11.4593	Pulse	0.1000	3
Mn	55	45	He	519.534	ppb	1.2	184396.21	4.7460	Pulse	0.5000	3
Fe	57	45	He	5159.748	ppb	1.4	80385.57	2.0689	Pulse	0.1000	3
Co	59	45	He	519.131	ppb	1.4	832994.04	21.4402	Pulse	0.5000	3
Ni	60	45	He	511.541	ppb	1.9	233873.57	6.0198	Pulse	0.5000	3
Cu	63	72	He	499.121	ppb	0.2	664767.44	9.7783	Pulse	0.5000	3
Zn	66	72	He	501.389	ppb	0.6	77661.35	1.1423	Pulse	0.5000	3
As	75	72	He	496.979	ppb	0.8	62276.87	0.9161	Pulse	0.5000	3
Sr	88	115	He	49.243	ppb	4.5	21568.56	0.4057	Pulse	0.1000	3
Mo	98	115	He	52.539	ppb	1.4	49552.02	0.9321	Pulse	0.1000	3
Ag	107	115	He	49.775	ppb	1.8	97384.80	1.8317	Pulse	0.1000	3
Cd	111	115	He	52.291	ppb	1.8	11406.86	0.2146	Pulse	0.5000	3
Sn	120	115	He	106.270	ppb	1.0	71695.64	1.3486	Pulse	0.1000	3
Sb	121	115	He	103.593	ppb	0.2	66361.91	1.2482	Pulse	0.3000	3
Ba	137	115	He	518.395	ppb	1.1	107545.67	2.0229	Pulse	0.1000	3
Tl	205	159	He	98.300	ppb	2.0	368620.61	1.8631	Pulse	0.1000	3
Pb	208	159	He	50.454	ppb	1.1	251470.50	1.2708	Pulse	0.1000	3
U	238	159	He	52.457	ppb	1.7	254813.11	1.2879	Pulse	0.1000	3

ISTD Table:

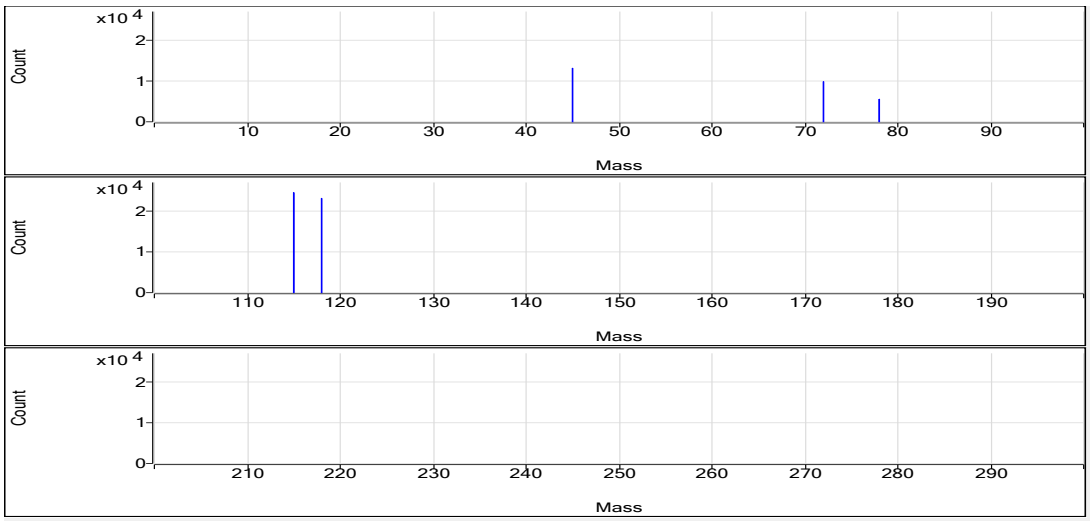
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1699687.52	0.3	99.5	Analog	0.1000	3
No Gas	Ge	72	840863.45	1.0	97.3	Pulse	0.1000	3
H2	Sc	45	131943.51	1.6	98.7	Pulse	0.1000	3
H2	Ge	72	98832.77	1.0	99.8	Pulse	0.1000	3
H2	In	115	245929.06	0.9	95.8	Pulse	0.1000	3
He	Sc	45	38856.87	1.3	98.4	Pulse	0.1000	3
He	Ge	72	67983.81	0.7	99.8	Pulse	0.1000	3
He	In	115	53164.70	0.5	96.0	Pulse	0.1000	3
He	Tb	159	197895.41	1.7	96.6	Pulse	0.1000	3
He	Bi	209	143264.09	1.1	94.7	Pulse	0.1000	3

No Gas

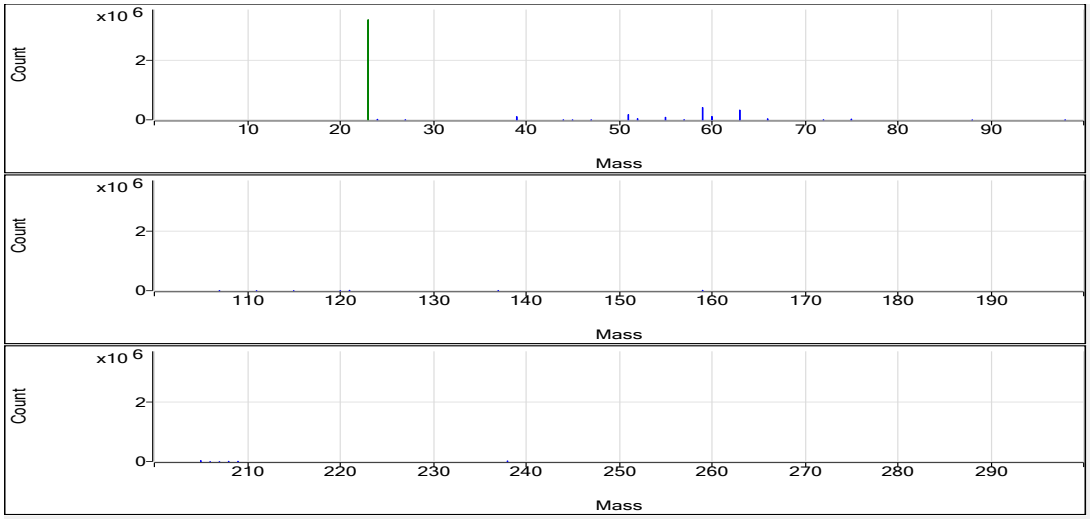


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	47.427	0.016	27133.72	0.0003	2.616E-05
Be	9	1	No Gas	50.284	0.0169	28764.36	0.0003	2.616E-05
Be	9	1	No Gas	51.651	0.0174	29681.95	0.0003	2.616E-05
Se	78	2	H2	97.941	0.038	3726.43	0.0004	6.3E-05
Se	78	2	H2	98.087	0.0381	3761.11	0.0004	6.3E-05
Se	78	2	H2	95.392	0.0371	3699.76	0.0004	6.3E-05
Na	23	3	He	345591.61	862.2147	33390772.00	0.0025	0.7502
Na	23	3	He	338837.792	845.3793	33331842.00	0.0025	0.7502
Na	23	3	He	354770.708	885.0956	34001461.99	0.0025	0.7502
Mg	24	3	He	5073.304	6.1693	238917.65	0.0012	0.02618
Mg	24	3	He	5189.851	6.3104	248809.84	0.0012	0.02618
Mg	24	3	He	5309.781	6.4557	247998.02	0.0012	0.02618
Al	27	3	He	5168.223	1.9543	75682.62	0.0004	0.005329
Al	27	3	He	5302.998	2.0051	79057.48	0.0004	0.005329
Al	27	3	He	5281.603	1.997	76716.99	0.0004	0.005329
K	39	3	He	5359.617	5.8525	226648.53	0.001	0.5307
K	39	3	He	5115.725	5.6103	221205.69	0.001	0.5307
K	39	3	He	5330.144	5.8232	223703.16	0.001	0.5307
Ca	44	3	He	5125.925	0.2743	10621.47	0.0001	0.004441
Ca	44	3	He	5089.146	0.2723	10737.54	0.0001	0.004441
Ca	44	3	He	5219.603	0.2792	10725.56	0.0001	0.004441
Ti	47	3	He	545.688	0.2236	8660.31	0.0004	0.0004559
Ti	47	3	He	539.558	0.2211	8718.35	0.0004	0.0004559
Ti	47	3	He	538.782	0.2208	8482.23	0.0004	0.0004559
V	51	3	He	525.396	9.267	358880.94	0.0176	0.02609
V	51	3	He	516.665	9.1134	359326.91	0.0176	0.02609
V	51	3	He	533.102	9.4025	361203.78	0.0176	0.02609
Cr	52	3	He	522.503	11.4018	441555.54	0.0217	0.05061
Cr	52	3	He	516.143	11.2636	444106.05	0.0217	0.05061
Cr	52	3	He	536.795	11.7123	449934.99	0.0217	0.05061
Mn	55	3	He	520.297	4.753	184067.38	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	512.988	4.6864	184775.19	0.0091	0.01071
Mn	55	3	He	525.317	4.7987	184346.06	0.0091	0.01071
Fe	57	3	He	5111.341	2.0496	79374.40	0.0004	0.008452
Fe	57	3	He	5125.312	2.0552	81032.21	0.0004	0.008452
Fe	57	3	He	5242.592	2.102	80750.11	0.0004	0.008452
Co	59	3	He	521.187	21.5251	833596.44	0.0413	0.006013
Co	59	3	He	510.946	21.1023	832025.56	0.0413	0.006013
Co	59	3	He	525.261	21.6933	833360.13	0.0413	0.006013
Ni	60	3	He	511.169	6.0155	232959.00	0.0117	0.01172
Ni	60	3	He	502.043	5.9083	232952.73	0.0117	0.01172
Ni	60	3	He	521.412	6.1358	235708.98	0.0117	0.01172
Cu	63	3	He	497.896	9.7543	661076.81	0.0196	0.01443
Cu	63	3	He	499.54	9.7865	662175.06	0.0196	0.01443
Cu	63	3	He	499.926	9.794	671050.44	0.0196	0.01443
Zn	66	3	He	497.988	1.1346	76895.23	0.0023	0.002807
Zn	66	3	He	502.564	1.145	77473.59	0.0023	0.002807
Zn	66	3	He	503.616	1.1474	78615.23	0.0023	0.002807
As	75	3	He	499.176	0.9201	62359.89	0.0018	0.001271
As	75	3	He	499.202	0.9202	62261.50	0.0018	0.001271
As	75	3	He	492.557	0.9079	62209.22	0.0018	0.001271
Sr	88	3	He	48.689	0.4012	21264.90	0.0082	0.00114
Sr	88	3	He	47.346	0.3901	20854.16	0.0082	0.00114
Sr	88	3	He	51.695	0.4259	22586.63	0.0082	0.00114
Mo	98	3	He	53.375	0.9469	50190.94	0.0177	0.001504
Mo	98	3	He	51.932	0.9213	49247.58	0.0177	0.001504
Mo	98	3	He	52.31	0.928	49217.53	0.0177	0.001504
Ag	107	3	He	48.773	1.7949	95138.08	0.0368	0.001325
Ag	107	3	He	50.448	1.8564	99232.16	0.0368	0.001325
Ag	107	3	He	50.103	1.8438	97784.15	0.0368	0.001325
Cd	111	3	He	51.946	0.2131	11298.13	0.0041	4.798E-05
Cd	111	3	He	51.594	0.2117	11316.13	0.0041	4.798E-05
Cd	111	3	He	53.334	0.2188	11606.33	0.0041	4.798E-05
Sn	120	3	He	107.522	1.3643	72318.36	0.0126	0.01097
Sn	120	3	He	105.601	1.3402	71635.18	0.0126	0.01097
Sn	120	3	He	105.688	1.3413	71133.37	0.0126	0.01097
Sb	121	3	He	103.87	1.2516	66340.78	0.012	0.0003595
Sb	121	3	He	103.495	1.2471	66658.64	0.012	0.0003595
Sb	121	3	He	103.415	1.2461	66086.31	0.012	0.0003595
Ba	137	3	He	517.307	2.0187	107002.75	0.0039	0.0003633
Ba	137	3	He	513.268	2.0029	107062.04	0.0039	0.0003633
Ba	137	3	He	524.61	2.0472	108572.21	0.0039	0.0003633
Tl	205	3	He	100.093	1.8971	368493.24	0.0189	0.001334
Tl	205	3	He	96.139	1.8222	365988.28	0.0189	0.001334
Tl	205	3	He	98.668	1.8701	371380.31	0.0189	0.001334
Pb	208	3	He	50.456	1.2708	134213.37	0.0252	0.001497
Pb	208	3	He	49.877	1.2563	134283.43	0.0252	0.001497
Pb	208	3	He	51.028	1.2852	136310.83	0.0252	0.001497
U	238	3	He	53.268	1.3078	254024.57	0.0245	0.0001141
U	238	3	He	51.498	1.2643	253940.58	0.0245	0.0001141
U	238	3	He	52.604	1.2915	256474.18	0.0245	0.0001141
Sc	45	1	No Gas			1697132.16		
Sc	45	1	No Gas			1697041.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1704888.72		
Ge	72	1	No Gas			832381.47		
Ge	72	1	No Gas			848532.41		
Ge	72	1	No Gas			841676.47		
Sc	45	2	H2			130575.05		
Sc	45	2	H2			134377.14		
Sc	45	2	H2			130878.35		
Ge	72	2	H2			97946.89		
Ge	72	2	H2			98711.76		
Ge	72	2	H2			99839.67		
In	115	2	H2			243283.08		
In	115	2	H2			247144.45		
In	115	2	H2			247359.66		
Sc	45	3	He			38726.75		
Sc	45	3	He			39428.27		
Sc	45	3	He			38415.58		
Ge	72	3	He			67772.78		
Ge	72	3	He			67662.34		
Ge	72	3	He			68516.31		
In	115	3	He			53512.37		
In	115	3	He			53954.31		
In	115	3	He			53533.02		
Tb	159	3	He			194243.65		
Tb	159	3	He			200850.99		
Tb	159	3	He			198591.58		
Bi	209	3	He			142439.12		
Bi	209	3	He			142297.68		
Bi	209	3	He			145055.46		

Quantitation Report

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Sample Name	410-228259-E-1-F
Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

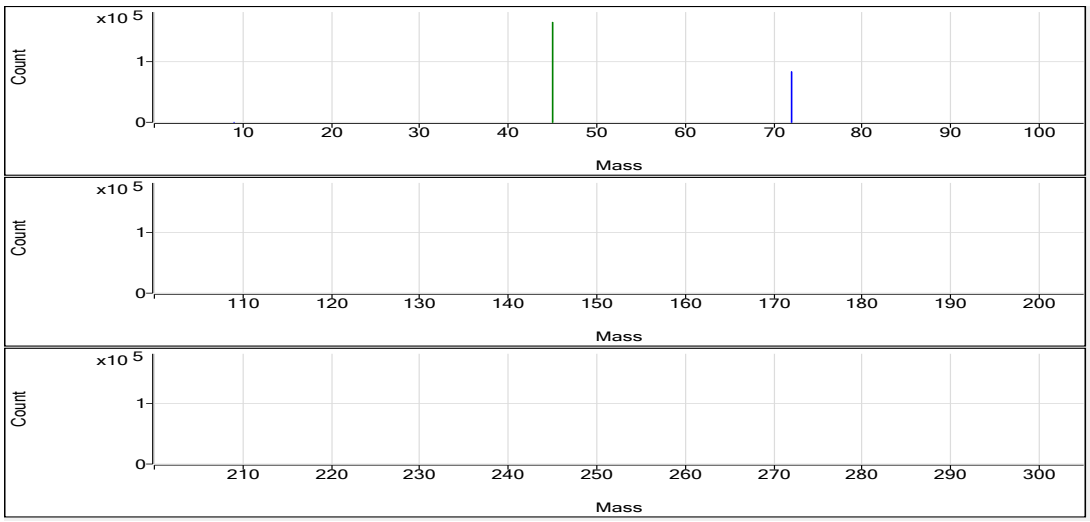
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.117	ppb	19.7	108.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.209	ppb	34.1	14.00	0.0001	Pulse	1.5000	3
Na	23	45	He	335457.957	ppb	2.1	32561566.18	836.9543	Analog	0.1000	3
Mg	24	45	He	161.848	ppb	1.8	8645.86	0.2222	Pulse	0.1000	3
Al	27	45	He	484.250	ppb	2.4	7311.84	0.1879	Pulse	0.1000	3
K	39	45	He	53.137	ppb	118.3	22728.47	0.5834	Pulse	0.5000	3
Ca	44	45	He	406.714	ppb	1.6	1006.04	0.0259	Pulse	0.5000	3
Ti	47	45	He	23.253	ppb	5.5	388.01	0.0100	Pulse	0.5000	3
V	51	45	He	2.338	ppb	4.3	2616.22	0.0672	Pulse	0.5000	3
Cr	52	45	He	15.369	ppb	6.0	14953.95	0.3845	Pulse	0.1000	3
Mn	55	45	He	77.231	ppb	2.8	27800.96	0.7146	Pulse	0.5000	3
Fe	57	45	He	5135.356	ppb	2.8	80107.36	2.0592	Pulse	0.1000	3
Co	59	45	He	1.505	ppb	1.6	2652.90	0.0682	Pulse	0.5000	3
Ni	60	45	He	32.505	ppb	1.3	15311.25	0.3935	Pulse	0.5000	3
Cu	63	72	He	5.916	ppb	0.5	8817.10	0.1302	Pulse	0.5000	3
Zn	66	72	He	70.514	ppb	1.0	11045.13	0.1631	Pulse	0.5000	3
As	75	72	He	1.401	ppb	15.3	260.67	0.0038	Pulse	0.5000	3
Sr	88	115	He	2.786	ppb	24.9	1243.43	0.0240	Pulse	0.1000	3
Mo	98	115	He	1.530	ppb	16.2	1480.11	0.0286	Pulse	0.1000	3
Ag	107	115	He	0.034	ppb	76.7	133.34	0.0026	Pulse	0.1000	3
Cd	111	115	He	0.067	ppb	8.4	16.67	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.789	ppb	25.7	1083.41	0.0209	Pulse	0.1000	3
Sb	121	115	He	0.216	ppb	30.5	153.33	0.0030	Pulse	0.3000	3
Ba	137	115	He	5.532	ppb	6.2	1136.75	0.0219	Pulse	0.1000	3
Tl	205	159	He	0.240	ppb	14.7	1140.09	0.0059	Pulse	0.1000	3
Pb	208	159	He	0.468	ppb	8.5	2570.18	0.0133	Pulse	0.1000	3
U	238	159	He	0.221	ppb	11.3	1073.41	0.0055	Pulse	0.1000	3

ISTD Table:

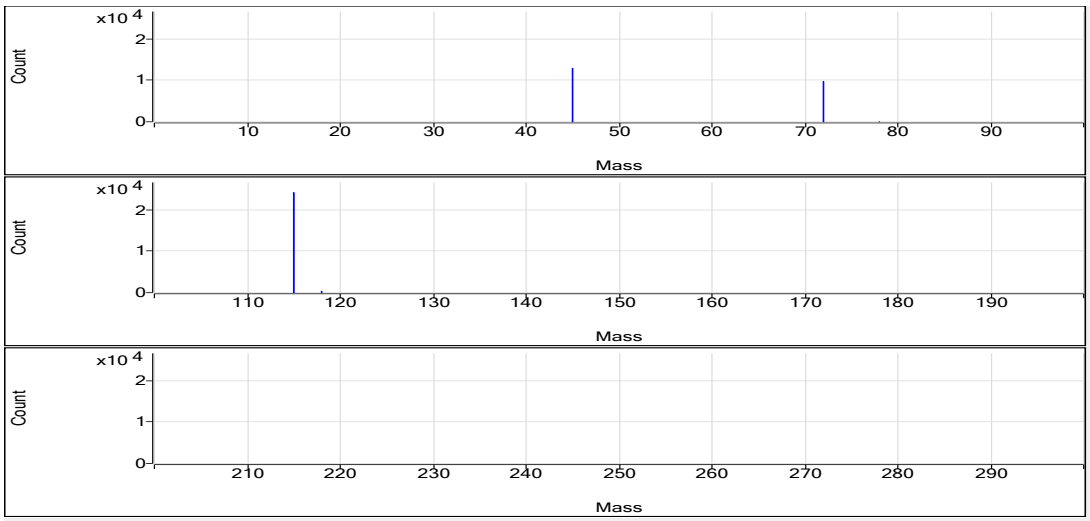
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1647990.50	1.3	96.5	Analog	0.1000	3
No Gas	Ge	72	833422.23	0.9	96.5	Pulse	0.1000	3
H2	Sc	45	129232.14	1.1	96.7	Pulse	0.1000	3
H2	Ge	72	97478.11	2.0	98.4	Pulse	0.1000	3
H2	In	115	241004.66	0.2	93.9	Pulse	0.1000	3
He	Sc	45	38913.57	1.6	98.6	Pulse	0.1000	3
He	Ge	72	67736.18	0.6	99.5	Pulse	0.1000	3
He	In	115	51809.20	1.2	93.5	Pulse	0.1000	3
He	Tb	159	193857.02	1.3	94.7	Pulse	0.1000	3
He	Bi	209	142907.39	0.7	94.5	Pulse	0.1000	3

No Gas

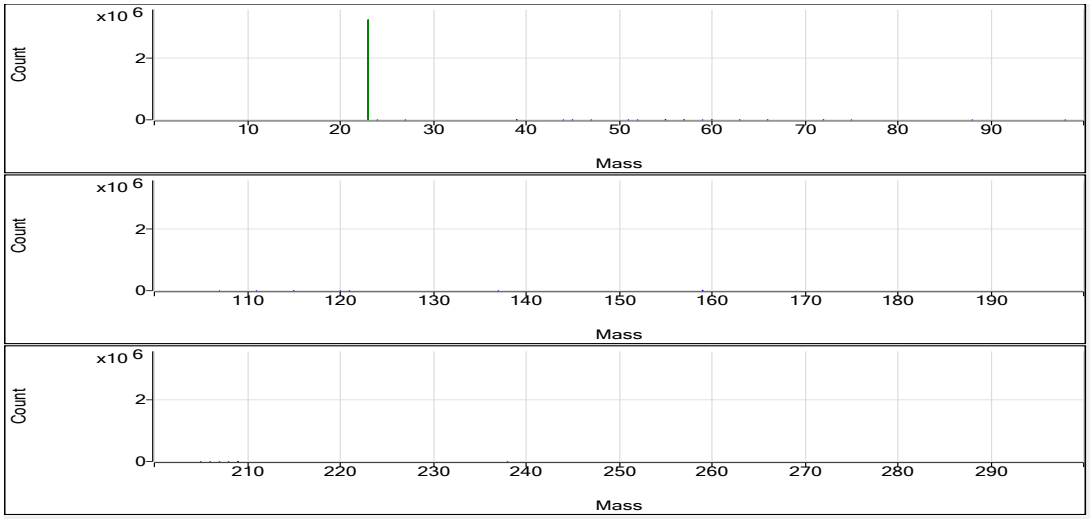


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.141	0.0001	120.00	0.0003	2.616E-05
Be	9	1	No Gas	0.096	0.0001	96.00	0.0003	2.616E-05
Be	9	1	No Gas	0.114	0.0001	108.00	0.0003	2.616E-05
Se	78	2	H2	0.287	0.0002	16.67	0.0004	6.3E-05
Se	78	2	H2	0.149	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.19	0.0001	13.33	0.0004	6.3E-05
Na	23	3	He	327590.887	817.3438	32357392.02	0.0025	0.7502
Na	23	3	He	337062.585	840.9542	32592364.51	0.0025	0.7502
Na	23	3	He	341720.398	852.5648	32734942.01	0.0025	0.7502
Mg	24	3	He	164.512	0.2254	8922.68	0.0012	0.02618
Mg	24	3	He	158.701	0.2183	8462.41	0.0012	0.02618
Mg	24	3	He	162.332	0.2227	8552.50	0.0012	0.02618
Al	27	3	He	470.955	0.1829	7241.81	0.0004	0.005329
Al	27	3	He	493.007	0.1912	7411.89	0.0004	0.005329
Al	27	3	He	488.787	0.1897	7281.83	0.0004	0.005329
K	39	3	He	124.047	0.6538	25884.33	0.001	0.5307
K	39	3	He	31.02	0.5615	21760.32	0.001	0.5307
K	39	3	He	4.342	0.535	20540.75	0.001	0.5307
Ca	44	3	He	411.836	0.0261	1034.04	0.0001	0.004441
Ca	44	3	He	408.765	0.026	1006.04	0.0001	0.004441
Ca	44	3	He	399.542	0.0255	978.04	0.0001	0.004441
Ti	47	3	He	24.704	0.0106	418.01	0.0004	0.0004559
Ti	47	3	He	22.734	0.0098	378.01	0.0004	0.0004559
Ti	47	3	He	22.321	0.0096	368.01	0.0004	0.0004559
V	51	3	He	2.455	0.0693	2742.25	0.0176	0.02609
V	51	3	He	2.275	0.0661	2562.21	0.0176	0.02609
V	51	3	He	2.284	0.0663	2544.21	0.0176	0.02609
Cr	52	3	He	14.48	0.3652	14456.82	0.0217	0.05061
Cr	52	3	He	15.292	0.3828	14837.14	0.0217	0.05061
Cr	52	3	He	16.334	0.4055	15567.89	0.0217	0.05061
Mn	55	3	He	74.93	0.6937	27461.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	77.625	0.7182	27835.69	0.0091	0.01071
Mn	55	3	He	79.137	0.732	28106.19	0.0091	0.01071
Fe	57	3	He	4981.182	1.9976	79082.88	0.0004	0.008452
Fe	57	3	He	5163.208	2.0703	80237.93	0.0004	0.008452
Fe	57	3	He	5261.678	2.1096	81001.26	0.0004	0.008452
Co	59	3	He	1.532	0.0693	2742.25	0.0413	0.006013
Co	59	3	He	1.498	0.0679	2630.22	0.0413	0.006013
Co	59	3	He	1.486	0.0674	2586.22	0.0413	0.006013
Ni	60	3	He	32.207	0.39	15439.37	0.0117	0.01172
Ni	60	3	He	32.986	0.3991	15469.40	0.0117	0.01172
Ni	60	3	He	32.32	0.3913	15024.98	0.0117	0.01172
Cu	63	3	He	5.893	0.1297	8744.38	0.0196	0.01443
Cu	63	3	He	5.946	0.1308	8916.50	0.0196	0.01443
Cu	63	3	He	5.909	0.13	8790.41	0.0196	0.01443
Zn	66	3	He	70.691	0.1635	11019.77	0.0023	0.002807
Zn	66	3	He	69.71	0.1612	10995.76	0.0023	0.002807
Zn	66	3	He	71.14	0.1645	11119.85	0.0023	0.002807
As	75	3	He	1.485	0.004	270.00	0.0018	0.001271
As	75	3	He	1.158	0.0034	232.00	0.0018	0.001271
As	75	3	He	1.56	0.0041	280.00	0.0018	0.001271
Sr	88	3	He	3.568	0.0305	1560.13	0.0082	0.00114
Sr	88	3	He	2.551	0.0221	1160.09	0.0082	0.00114
Sr	88	3	He	2.239	0.0195	1010.06	0.0082	0.00114
Mo	98	3	He	1.778	0.033	1690.14	0.0177	0.001504
Mo	98	3	He	1.281	0.0242	1270.09	0.0177	0.001504
Mo	98	3	He	1.531	0.0286	1480.11	0.0177	0.001504
Ag	107	3	He	0.022	0.0021	110.01	0.0368	0.001325
Ag	107	3	He	0.016	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	0.064	0.0037	190.01	0.0368	0.001325
Cd	111	3	He	0.064	0.0003	16.00	0.0041	4.798E-05
Cd	111	3	He	0.063	0.0003	16.00	0.0041	4.798E-05
Cd	111	3	He	0.073	0.0003	18.00	0.0041	4.798E-05
Sn	120	3	He	0.556	0.018	920.06	0.0126	0.01097
Sn	120	3	He	0.885	0.0221	1160.09	0.0126	0.01097
Sn	120	3	He	0.927	0.0226	1170.08	0.0126	0.01097
Sb	121	3	He	0.278	0.0037	190.00	0.012	0.0003595
Sb	121	3	He	0.223	0.003	160.00	0.012	0.0003595
Sb	121	3	He	0.147	0.0021	110.00	0.012	0.0003595
Ba	137	3	He	5.461	0.0217	1110.08	0.0039	0.0003633
Ba	137	3	He	5.23	0.0208	1090.08	0.0039	0.0003633
Ba	137	3	He	5.905	0.0234	1210.08	0.0039	0.0003633
Tl	205	3	He	0.28	0.0066	1270.10	0.0189	0.001334
Tl	205	3	He	0.229	0.0057	1100.08	0.0189	0.001334
Tl	205	3	He	0.212	0.0053	1050.09	0.0189	0.001334
Pb	208	3	He	0.452	0.0129	1230.09	0.0252	0.001497
Pb	208	3	He	0.513	0.0144	1500.13	0.0252	0.001497
Pb	208	3	He	0.438	0.0125	1390.12	0.0252	0.001497
U	238	3	He	0.238	0.006	1140.08	0.0245	0.0001141
U	238	3	He	0.233	0.0058	1130.09	0.0245	0.0001141
U	238	3	He	0.192	0.0048	950.07	0.0245	0.0001141
Sc	45	1	No Gas			1627204.51		
Sc	45	1	No Gas			1645585.44		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1671181.54		
Ge	72	1	No Gas			824663.11		
Ge	72	1	No Gas			839782.41		
Ge	72	1	No Gas			835821.16		
Sc	45	2	H2			128096.32		
Sc	45	2	H2			128770.77		
Sc	45	2	H2			130829.34		
Ge	72	2	H2			95562.99		
Ge	72	2	H2			99417.55		
Ge	72	2	H2			97453.78		
In	115	2	H2			240926.68		
In	115	2	H2			240522.50		
In	115	2	H2			241564.80		
Sc	45	3	He			39588.47		
Sc	45	3	He			38756.41		
Sc	45	3	He			38395.84		
Ge	72	3	He			67411.66		
Ge	72	3	He			68194.98		
Ge	72	3	He			67601.91		
In	115	3	He			51234.71		
In	115	3	He			52499.09		
In	115	3	He			51716.54		
Tb	159	3	He			191348.73		
Tb	159	3	He			193737.59		
Tb	159	3	He			196484.74		
Bi	209	3	He			142338.47		
Bi	209	3	He			142339.35		
Bi	209	3	He			144044.35		

Quantitation Report

Data File Name	178SMPL.d
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Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

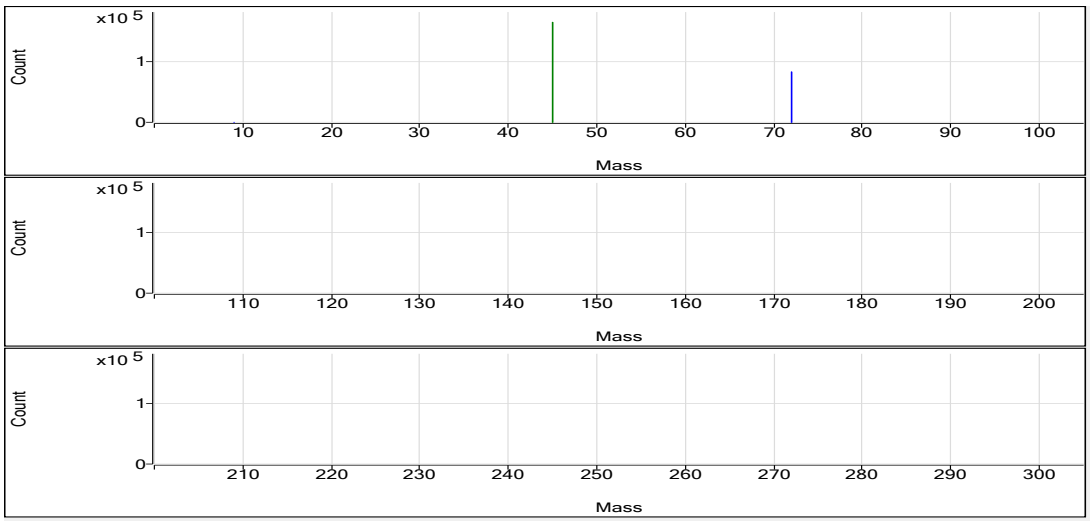
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.056	ppb	7.6	74.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.026	ppb	N/A	5.11	0.0001	Pulse	1.5000	3
Na	23	45	He	332782.327	ppb	2.0	32581086.18	830.2847	Analog	0.1000	3
Mg	24	45	He	158.954	ppb	5.5	8579.15	0.2187	Pulse	0.1000	3
Al	27	45	He	472.533	ppb	1.6	7201.74	0.1835	Pulse	0.1000	3
K	39	45	He	49.708	ppb	151.6	22767.19	0.5800	Pulse	0.5000	3
Ca	44	45	He	432.036	ppb	1.9	1066.71	0.0272	Pulse	0.5000	3
Ti	47	45	He	20.481	ppb	6.8	346.68	0.0088	Pulse	0.5000	3
V	51	45	He	2.023	ppb	12.4	2420.19	0.0617	Pulse	0.5000	3
Cr	52	45	He	14.887	ppb	3.9	14677.04	0.3740	Pulse	0.1000	3
Mn	55	45	He	76.029	ppb	1.1	27613.98	0.7037	Pulse	0.5000	3
Fe	57	45	He	5116.887	ppb	0.8	80519.59	2.0518	Pulse	0.1000	3
Co	59	45	He	1.183	ppb	7.0	2152.82	0.0549	Pulse	0.5000	3
Ni	60	45	He	32.132	ppb	0.5	15270.52	0.3891	Pulse	0.5000	3
Cu	63	72	He	5.601	ppb	1.4	8302.82	0.1240	Pulse	0.5000	3
Zn	66	72	He	71.058	ppb	0.4	11002.44	0.1643	Pulse	0.5000	3
As	75	72	He	1.354	ppb	4.8	252.00	0.0038	Pulse	0.5000	3
Sr	88	115	He	2.673	ppb	16.7	1213.43	0.0231	Pulse	0.1000	3
Mo	98	115	He	1.439	ppb	14.2	1416.77	0.0270	Pulse	0.1000	3
Ag	107	115	He	-0.009	ppb	N/A	53.33	0.0010	Pulse	0.1000	3
Cd	111	115	He	0.016	ppb	102.4	6.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.622	ppb	22.0	986.73	0.0188	Pulse	0.1000	3
Sb	121	115	He	0.079	ppb	36.9	68.89	0.0013	Pulse	0.3000	3
Ba	137	115	He	5.197	ppb	5.1	1083.41	0.0206	Pulse	0.1000	3
Tl	205	159	He	0.019	ppb	23.4	326.68	0.0017	Pulse	0.1000	3
Pb	208	159	He	0.487	ppb	4.9	2660.19	0.0137	Pulse	0.1000	3
U	238	159	He	0.197	ppb	13.9	956.74	0.0049	Pulse	0.1000	3

ISTD Table:

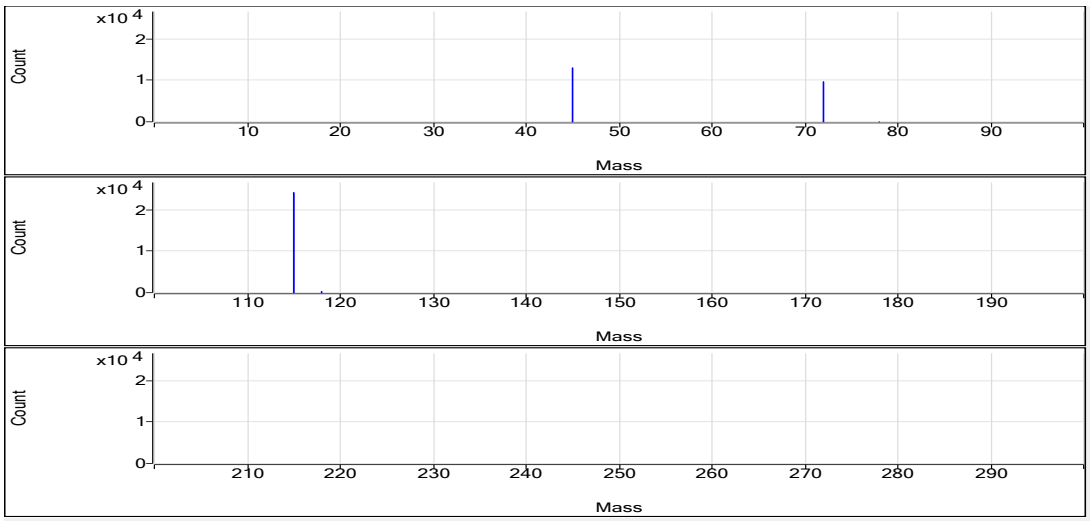
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1659243.20	1.2	97.1	Analog	0.1000	3
No Gas	Ge	72	837055.41	0.6	96.9	Pulse	0.1000	3
H2	Sc	45	129924.42	1.5	97.2	Pulse	0.1000	3
H2	Ge	72	96481.99	0.0	97.4	Pulse	0.1000	3
H2	In	115	241102.25	0.7	93.9	Pulse	0.1000	3
He	Sc	45	39244.41	0.7	99.4	Pulse	0.1000	3
He	Ge	72	66963.01	0.6	98.3	Pulse	0.1000	3
He	In	115	52458.74	1.9	94.7	Pulse	0.1000	3
He	Tb	159	193516.13	0.7	94.5	Pulse	0.1000	3
He	Bi	209	141033.11	1.0	93.2	Pulse	0.1000	3

No Gas

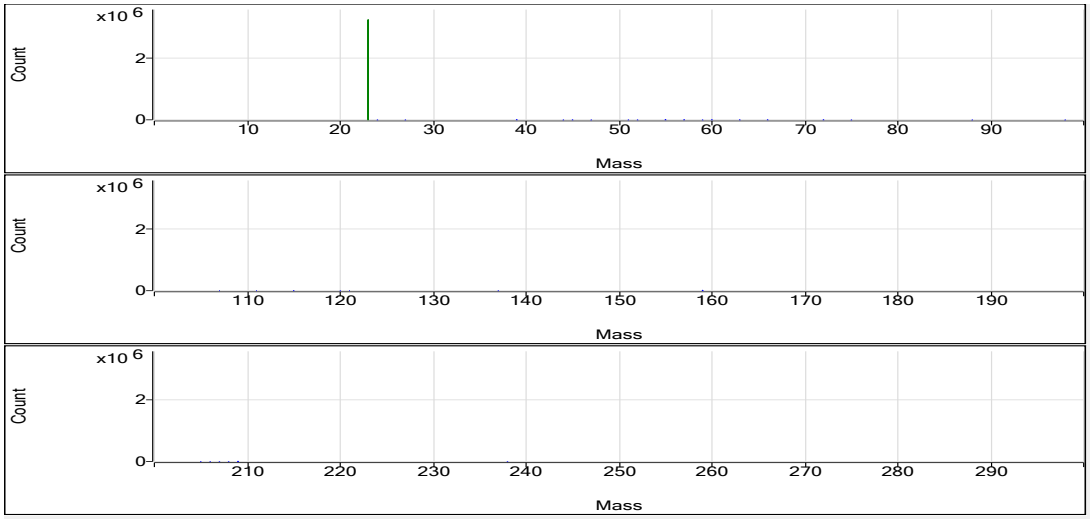


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.053	0	72.00	0.0003	2.616E-05
Be	9	1	No Gas	0.061	0	78.00	0.0003	2.616E-05
Be	9	1	No Gas	0.054	0	74.00	0.0003	2.616E-05
Se	78	2	H2	0.016	0.0001	6.67	0.0004	6.3E-05
Se	78	2	H2	-0.02	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	-0.073	0	3.33	0.0004	6.3E-05
Na	23	3	He	332425.996	829.3964	32618677.01	0.0025	0.7502
Na	23	3	He	326363.504	814.2843	32138222.02	0.0025	0.7502
Na	23	3	He	339557.48	847.1733	32986359.51	0.0025	0.7502
Mg	24	3	He	153.348	0.2119	8332.35	0.0012	0.02618
Mg	24	3	He	154.403	0.2131	8412.41	0.0012	0.02618
Mg	24	3	He	169.112	0.231	8992.70	0.0012	0.02618
Al	27	3	He	467.415	0.1816	7141.70	0.0004	0.005329
Al	27	3	He	469.07	0.1822	7191.72	0.0004	0.005329
Al	27	3	He	481.114	0.1868	7271.79	0.0004	0.005329
K	39	3	He	136.457	0.6662	26198.77	0.001	0.5307
K	39	3	He	12.29	0.5429	21425.86	0.001	0.5307
K	39	3	He	0.377	0.531	20676.95	0.001	0.5307
Ca	44	3	He	426.713	0.0269	1058.04	0.0001	0.004441
Ca	44	3	He	427.79	0.027	1064.04	0.0001	0.004441
Ca	44	3	He	441.606	0.0277	1078.04	0.0001	0.004441
Ti	47	3	He	21.89	0.0094	370.01	0.0004	0.0004559
Ti	47	3	He	20.446	0.0088	348.01	0.0004	0.0004559
Ti	47	3	He	19.107	0.0083	322.01	0.0004	0.0004559
V	51	3	He	2.304	0.0666	2620.23	0.0176	0.02609
V	51	3	He	1.827	0.0582	2298.17	0.0176	0.02609
V	51	3	He	1.936	0.0602	2342.18	0.0176	0.02609
Cr	52	3	He	15.189	0.3806	14967.39	0.0217	0.05061
Cr	52	3	He	14.216	0.3594	14186.56	0.0217	0.05061
Cr	52	3	He	15.258	0.3821	14877.18	0.0217	0.05061
Mn	55	3	He	75.987	0.7033	27659.40	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	75.224	0.6963	27483.09	0.0091	0.01071
Mn	55	3	He	76.875	0.7114	27699.44	0.0091	0.01071
Fe	57	3	He	5117.276	2.052	80700.36	0.0004	0.008452
Fe	57	3	He	5078.05	2.0363	80369.09	0.0004	0.008452
Fe	57	3	He	5155.335	2.0672	80489.32	0.0004	0.008452
Co	59	3	He	1.238	0.0571	2246.17	0.0413	0.006013
Co	59	3	He	1.088	0.0509	2010.14	0.0413	0.006013
Co	59	3	He	1.224	0.0566	2202.16	0.0413	0.006013
Ni	60	3	He	32.314	0.3913	15387.28	0.0117	0.01172
Ni	60	3	He	32.08	0.3885	15333.25	0.0117	0.01172
Ni	60	3	He	32.001	0.3876	15091.04	0.0117	0.01172
Cu	63	3	He	5.656	0.1251	8338.17	0.0196	0.01443
Cu	63	3	He	5.637	0.1247	8330.17	0.0196	0.01443
Cu	63	3	He	5.51	0.1222	8240.13	0.0196	0.01443
Zn	66	3	He	70.727	0.1636	10903.70	0.0023	0.002807
Zn	66	3	He	71.193	0.1646	10995.76	0.0023	0.002807
Zn	66	3	He	71.255	0.1648	11107.85	0.0023	0.002807
As	75	3	He	1.281	0.0036	242.00	0.0018	0.001271
As	75	3	He	1.408	0.0039	258.00	0.0018	0.001271
As	75	3	He	1.372	0.0038	256.00	0.0018	0.001271
Sr	88	3	He	2.666	0.023	1230.09	0.0082	0.00114
Sr	88	3	He	2.231	0.0195	1000.06	0.0082	0.00114
Sr	88	3	He	3.122	0.0268	1410.13	0.0082	0.00114
Mo	98	3	He	1.343	0.0253	1350.10	0.0177	0.001504
Mo	98	3	He	1.3	0.0245	1260.08	0.0177	0.001504
Mo	98	3	He	1.674	0.0312	1640.13	0.0177	0.001504
Ag	107	3	He	0.015	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.036	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.647	0.0191	1020.07	0.0126	0.01097
Sn	120	3	He	0.474	0.0169	870.05	0.0126	0.01097
Sn	120	3	He	0.744	0.0203	1070.08	0.0126	0.01097
Sb	121	3	He	0.1	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.046	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.091	0.0015	76.67	0.012	0.0003595
Ba	137	3	He	5.478	0.0217	1160.08	0.0039	0.0003633
Ba	137	3	He	4.947	0.0197	1010.07	0.0039	0.0003633
Ba	137	3	He	5.167	0.0205	1080.08	0.0039	0.0003633
Tl	205	3	He	0.014	0.0016	310.01	0.0189	0.001334
Tl	205	3	He	0.022	0.0018	340.02	0.0189	0.001334
Tl	205	3	He	0.02	0.0017	330.02	0.0189	0.001334
Pb	208	3	He	0.476	0.0135	1490.13	0.0252	0.001497
Pb	208	3	He	0.471	0.0133	1380.10	0.0252	0.001497
Pb	208	3	He	0.514	0.0144	1660.16	0.0252	0.001497
U	238	3	He	0.222	0.0056	1080.08	0.0245	0.0001141
U	238	3	He	0.167	0.0042	820.06	0.0245	0.0001141
U	238	3	He	0.201	0.0051	970.07	0.0245	0.0001141
Sc	45	1	No Gas			1636952.63		
Sc	45	1	No Gas			1672346.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1668430.44		
Ge	72	1	No Gas			831559.68		
Ge	72	1	No Gas			840303.58		
Ge	72	1	No Gas			839302.96		
Sc	45	2	H2			127641.75		
Sc	45	2	H2			130880.31		
Sc	45	2	H2			131251.21		
Ge	72	2	H2			96449.29		
Ge	72	2	H2			96518.77		
Ge	72	2	H2			96477.91		
In	115	2	H2			242164.33		
In	115	2	H2			239046.64		
In	115	2	H2			242095.78		
Sc	45	3	He			39328.21		
Sc	45	3	He			39468.06		
Sc	45	3	He			38936.97		
Ge	72	3	He			66668.26		
Ge	72	3	He			66798.87		
Ge	72	3	He			67421.90		
In	115	3	He			53382.10		
In	115	3	He			51375.17		
In	115	3	He			52639.68		
Tb	159	3	He			194468.57		
Tb	159	3	He			194183.63		
Tb	159	3	He			191896.19		
Bi	209	3	He			140702.51		
Bi	209	3	He			139754.94		
Bi	209	3	He			142641.89		

Quantitation Report

Data File Name	179SMPL.d
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Sample Name	410-228259-E-1-H MS @100
Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

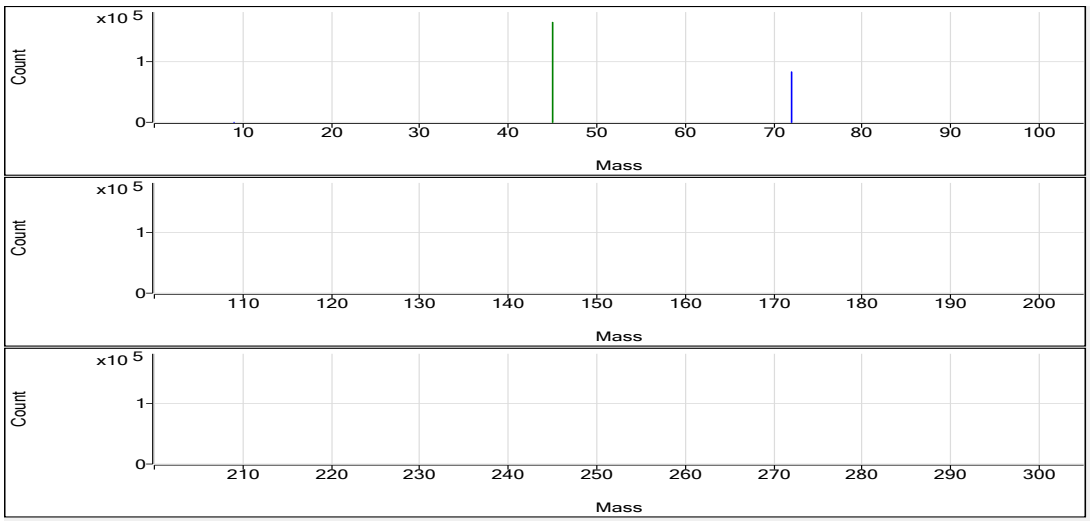
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.498	ppb	17.3	319.34	0.0002	Pulse	0.5000	3
Se	78	72	H2	0.856	ppb	13.8	39.11	0.0004	Pulse	1.5000	3
Na	23	45	He	3700.530	ppb	1.5	385891.57	9.9746	Pulse	0.1000	3
Mg	24	45	He	46.900	ppb	8.9	3210.42	0.0830	Pulse	0.1000	3
Al	27	45	He	59.458	ppb	4.9	1073.40	0.0278	Pulse	0.1000	3
K	39	45	He	47.601	ppb	124.0	22365.92	0.5779	Pulse	0.5000	3
Ca	44	45	He	43.321	ppb	26.1	260.00	0.0067	Pulse	0.5000	3
Ti	47	45	He	5.376	ppb	6.2	102.67	0.0027	Pulse	0.5000	3
V	51	45	He	5.140	ppb	0.3	4506.64	0.1165	Pulse	0.5000	3
Cr	52	45	He	4.923	ppb	3.9	6094.67	0.1576	Pulse	0.1000	3
Mn	55	45	He	5.858	ppb	4.2	2480.20	0.0641	Pulse	0.5000	3
Fe	57	45	He	91.020	ppb	5.4	1733.48	0.0448	Pulse	0.1000	3
Co	59	45	He	5.175	ppb	1.7	8498.92	0.2197	Pulse	0.5000	3
Ni	60	45	He	5.405	ppb	5.5	2908.94	0.0752	Pulse	0.5000	3
Cu	63	72	He	5.051	ppb	2.6	7642.51	0.1132	Pulse	0.5000	3
Zn	66	72	He	7.274	ppb	1.5	1305.39	0.0193	Pulse	0.5000	3
As	75	72	He	5.841	ppb	1.5	811.36	0.0120	Pulse	0.5000	3
Sr	88	115	He	0.414	ppb	25.2	243.35	0.0045	Pulse	0.1000	3
Mo	98	115	He	0.531	ppb	33.8	583.36	0.0109	Pulse	0.1000	3
Ag	107	115	He	0.438	ppb	16.0	933.39	0.0174	Pulse	0.1000	3
Cd	111	115	He	0.541	ppb	4.4	121.33	0.0023	Pulse	0.5000	3
Sn	120	115	He	1.118	ppb	15.1	1340.10	0.0250	Pulse	0.1000	3
Sb	121	115	He	0.983	ppb	8.8	653.36	0.0122	Pulse	0.3000	3
Ba	137	115	He	5.173	ppb	10.6	1100.08	0.0205	Pulse	0.1000	3
Tl	205	159	He	0.945	ppb	3.5	3727.27	0.0192	Pulse	0.1000	3
Pb	208	159	He	0.472	ppb	6.3	2593.51	0.0134	Pulse	0.1000	3
U	238	159	He	0.509	ppb	5.1	2443.63	0.0126	Pulse	0.1000	3

ISTD Table:

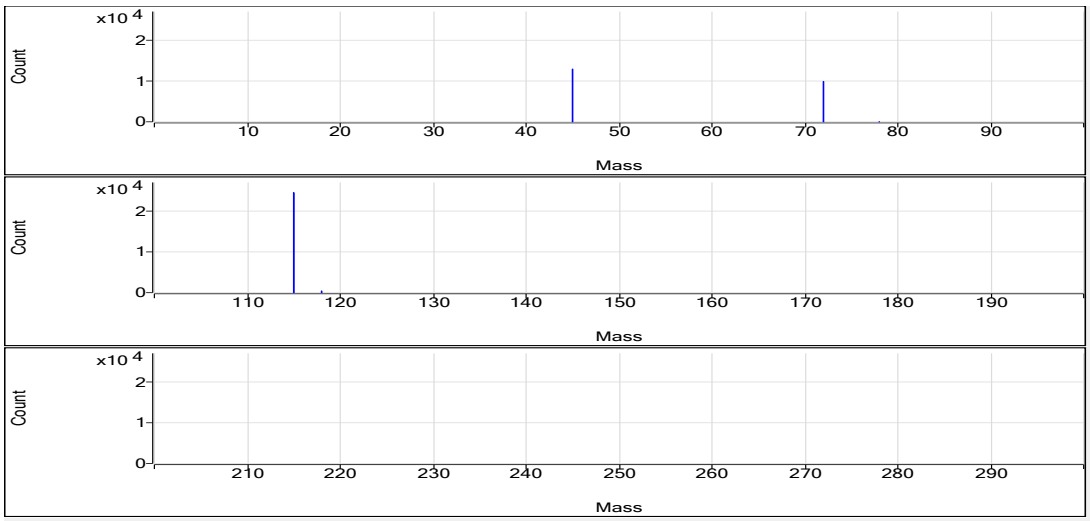
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1647318.88	0.5	96.4	Analog	0.1000	3
No Gas	Ge	72	831097.59	1.1	96.2	Pulse	0.1000	3
H2	Sc	45	129370.21	1.4	96.8	Pulse	0.1000	3
H2	Ge	72	98937.09	1.4	99.9	Pulse	0.1000	3
H2	In	115	245042.79	0.9	95.5	Pulse	0.1000	3
He	Sc	45	38686.31	0.7	98.0	Pulse	0.1000	3
He	Ge	72	67492.01	1.0	99.1	Pulse	0.1000	3
He	In	115	53529.76	0.6	96.6	Pulse	0.1000	3
He	Tb	159	193899.66	0.5	94.7	Pulse	0.1000	3
He	Bi	209	145366.00	1.3	96.1	Pulse	0.1000	3

No Gas

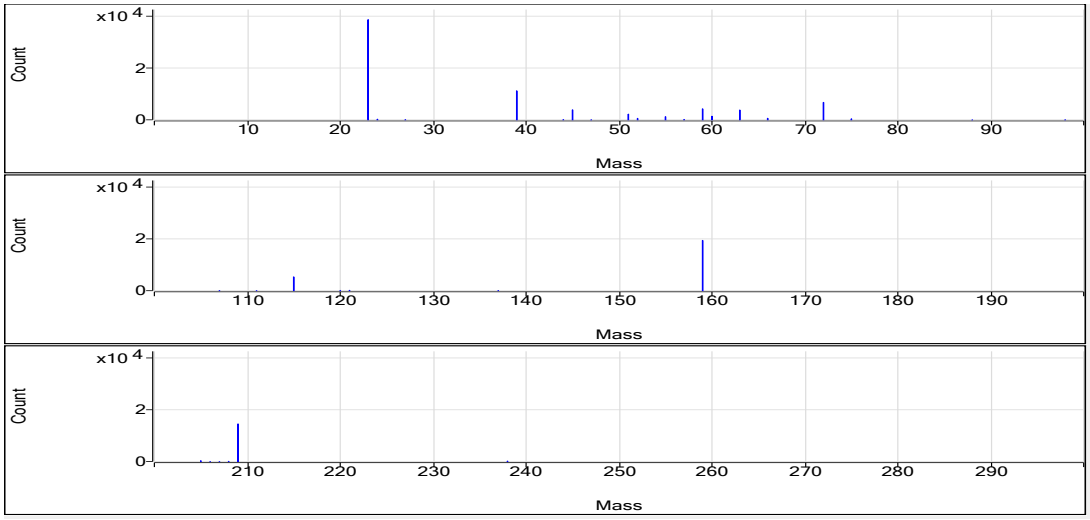


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.452	0.0002	294.00	0.0003	2.616E-05
Be	9	1	No Gas	0.445	0.0002	288.00	0.0003	2.616E-05
Be	9	1	No Gas	0.597	0.0002	376.01	0.0003	2.616E-05
Se	78	2	H2	0.975	0.0004	44.00	0.0004	6.3E-05
Se	78	2	H2	0.855	0.0004	39.33	0.0004	6.3E-05
Se	78	2	H2	0.738	0.0003	34.00	0.0004	6.3E-05
Na	23	3	He	3755.799	10.1124	393845.85	0.0025	0.7502
Na	23	3	He	3701.752	9.9776	383397.03	0.0025	0.7502
Na	23	3	He	3644.039	9.8338	380431.83	0.0025	0.7502
Mg	24	3	He	47.513	0.0837	3260.43	0.0012	0.02618
Mg	24	3	He	42.432	0.0776	2980.36	0.0012	0.02618
Mg	24	3	He	50.755	0.0876	3390.47	0.0012	0.02618
Al	27	3	He	56.683	0.0267	1040.07	0.0004	0.005329
Al	27	3	He	62.475	0.0289	1110.07	0.0004	0.005329
Al	27	3	He	59.217	0.0277	1070.07	0.0004	0.005329
K	39	3	He	115.107	0.645	25119.15	0.001	0.5307
K	39	3	He	21.82	0.5523	21223.58	0.001	0.5307
K	39	3	He	5.876	0.5365	20755.04	0.001	0.5307
Ca	44	3	He	47.334	0.0069	270.00	0.0001	0.004441
Ca	44	3	He	52.087	0.0072	276.00	0.0001	0.004441
Ca	44	3	He	30.543	0.006	234.00	0.0001	0.004441
Ti	47	3	He	5.164	0.0026	100.00	0.0004	0.0004559
Ti	47	3	He	5.758	0.0028	108.00	0.0004	0.0004559
Ti	47	3	He	5.206	0.0026	100.00	0.0004	0.0004559
V	51	3	He	5.124	0.1162	4526.65	0.0176	0.02609
V	51	3	He	5.158	0.1168	4488.64	0.0176	0.02609
V	51	3	He	5.137	0.1164	4504.64	0.0176	0.02609
Cr	52	3	He	4.87	0.1564	6091.30	0.0217	0.05061
Cr	52	3	He	5.135	0.1622	6231.39	0.0217	0.05061
Cr	52	3	He	4.763	0.1541	5961.32	0.0217	0.05061
Mn	55	3	He	6.071	0.066	2572.22	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	5.593	0.0617	2370.19	0.0091	0.01071
Mn	55	3	He	5.91	0.0646	2498.20	0.0091	0.01071
Fe	57	3	He	96.507	0.047	1830.17	0.0004	0.008452
Fe	57	3	He	87.023	0.0432	1660.14	0.0004	0.008452
Fe	57	3	He	89.531	0.0442	1710.14	0.0004	0.008452
Co	59	3	He	5.276	0.2239	8718.37	0.0413	0.006013
Co	59	3	He	5.106	0.2168	8332.16	0.0413	0.006013
Co	59	3	He	5.142	0.2183	8446.22	0.0413	0.006013
Ni	60	3	He	5.08	0.0714	2780.25	0.0117	0.01172
Ni	60	3	He	5.464	0.0759	2916.28	0.0117	0.01172
Ni	60	3	He	5.672	0.0783	3030.30	0.0117	0.01172
Cu	63	3	He	4.987	0.112	7649.83	0.0196	0.01443
Cu	63	3	He	5.2	0.1161	7795.91	0.0196	0.01443
Cu	63	3	He	4.966	0.1116	7481.78	0.0196	0.01443
Zn	66	3	He	7.371	0.0196	1336.06	0.0023	0.002807
Zn	66	3	He	7.156	0.0191	1280.06	0.0023	0.002807
Zn	66	3	He	7.296	0.0194	1300.06	0.0023	0.002807
As	75	3	He	5.752	0.0119	810.03	0.0018	0.001271
As	75	3	He	5.93	0.0122	818.03	0.0018	0.001271
As	75	3	He	5.84	0.012	806.02	0.0018	0.001271
Sr	88	3	He	0.452	0.0049	260.02	0.0082	0.00114
Sr	88	3	He	0.495	0.0052	280.01	0.0082	0.00114
Sr	88	3	He	0.296	0.0036	190.01	0.0082	0.00114
Mo	98	3	He	0.474	0.0099	530.02	0.0177	0.001504
Mo	98	3	He	0.387	0.0084	450.02	0.0177	0.001504
Mo	98	3	He	0.732	0.0145	770.05	0.0177	0.001504
Ag	107	3	He	0.365	0.0147	790.04	0.0368	0.001325
Ag	107	3	He	0.505	0.0199	1070.07	0.0368	0.001325
Ag	107	3	He	0.445	0.0177	940.06	0.0368	0.001325
Cd	111	3	He	0.525	0.0022	118.00	0.0041	4.798E-05
Cd	111	3	He	0.568	0.0024	128.00	0.0041	4.798E-05
Cd	111	3	He	0.529	0.0022	118.00	0.0041	4.798E-05
Sn	120	3	He	0.923	0.0226	1210.09	0.0126	0.01097
Sn	120	3	He	1.211	0.0262	1410.10	0.0126	0.01097
Sn	120	3	He	1.22	0.0263	1400.10	0.0126	0.01097
Sb	121	3	He	0.884	0.011	590.02	0.012	0.0003595
Sb	121	3	He	1.04	0.0129	693.36	0.012	0.0003595
Sb	121	3	He	1.026	0.0127	676.69	0.012	0.0003595
Ba	137	3	He	4.691	0.0187	1000.09	0.0039	0.0003633
Ba	137	3	He	5.766	0.0229	1230.08	0.0039	0.0003633
Ba	137	3	He	5.063	0.0201	1070.08	0.0039	0.0003633
Tl	205	3	He	0.91	0.0186	3620.58	0.0189	0.001334
Tl	205	3	He	0.949	0.0193	3740.61	0.0189	0.001334
Tl	205	3	He	0.975	0.0198	3820.61	0.0189	0.001334
Pb	208	3	He	0.454	0.0129	1350.12	0.0252	0.001497
Pb	208	3	He	0.456	0.013	1170.08	0.0252	0.001497
Pb	208	3	He	0.507	0.0142	1420.12	0.0252	0.001497
U	238	3	He	0.539	0.0133	2600.34	0.0245	0.0001141
U	238	3	He	0.496	0.0123	2380.28	0.0245	0.0001141
U	238	3	He	0.491	0.0122	2350.27	0.0245	0.0001141
Sc	45	1	No Gas			1648054.19		
Sc	45	1	No Gas			1638485.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1655416.69		
Ge	72	1	No Gas			838838.97		
Ge	72	1	No Gas			821380.14		
Ge	72	1	No Gas			833073.66		
Sc	45	2	H2			130414.65		
Sc	45	2	H2			130475.77		
Sc	45	2	H2			127220.22		
Ge	72	2	H2			99778.75		
Ge	72	2	H2			99678.59		
Ge	72	2	H2			97353.92		
In	115	2	H2			247224.08		
In	115	2	H2			245171.01		
In	115	2	H2			242733.28		
Sc	45	3	He			38947.00		
Sc	45	3	He			38425.66		
Sc	45	3	He			38686.27		
Ge	72	3	He			68305.39		
Ge	72	3	He			67120.64		
Ge	72	3	He			67050.01		
In	115	3	He			53592.51		
In	115	3	He			53823.65		
In	115	3	He			53201.26		
Tb	159	3	He			195002.83		
Tb	159	3	He			193657.85		
Tb	159	3	He			193038.30		
Bi	209	3	He			146064.38		
Bi	209	3	He			143280.27		
Bi	209	3	He			146753.34		

Quantitation Report

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Sample Name	410-228259-E-1-I MSD @100
Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

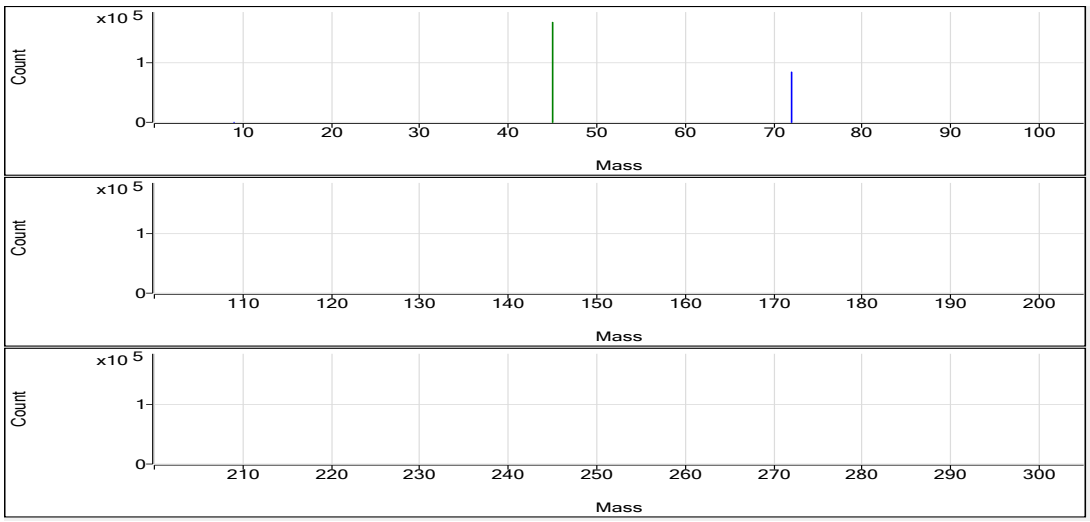
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.447	ppb	8.1	294.67	0.0002	Pulse	0.5000	3
Se	78	72	H2	0.766	ppb	11.5	35.33	0.0004	Pulse	1.5000	3
Na	23	45	He	3331.898	ppb	2.1	352167.46	9.0557	Pulse	0.1000	3
Mg	24	45	He	45.929	ppb	4.9	3180.41	0.0818	Pulse	0.1000	3
Al	27	45	He	47.967	ppb	13.4	910.06	0.0234	Pulse	0.1000	3
K	39	45	He	50.317	ppb	168.3	22554.26	0.5806	Pulse	0.5000	3
Ca	44	45	He	43.652	ppb	10.3	262.00	0.0067	Pulse	0.5000	3
Ti	47	45	He	4.723	ppb	20.6	92.67	0.0024	Pulse	0.5000	3
V	51	45	He	4.801	ppb	5.2	4297.25	0.1105	Pulse	0.5000	3
Cr	52	45	He	4.781	ppb	5.9	6011.29	0.1545	Pulse	0.1000	3
Mn	55	45	He	5.498	ppb	9.2	2363.52	0.0608	Pulse	0.5000	3
Fe	57	45	He	95.663	ppb	6.3	1813.50	0.0467	Pulse	0.1000	3
Co	59	45	He	5.121	ppb	2.0	8460.23	0.2174	Pulse	0.5000	3
Ni	60	45	He	5.104	ppb	3.9	2787.59	0.0717	Pulse	0.5000	3
Cu	63	72	He	4.864	ppb	2.7	7244.33	0.1096	Pulse	0.5000	3
Zn	66	72	He	6.545	ppb	5.2	1168.72	0.0177	Pulse	0.5000	3
As	75	72	He	5.200	ppb	2.2	716.69	0.0108	Pulse	0.5000	3
Sr	88	115	He	0.471	ppb	16.0	266.68	0.0050	Pulse	0.1000	3
Mo	98	115	He	0.490	ppb	22.9	543.36	0.0102	Pulse	0.1000	3
Ag	107	115	He	0.505	ppb	4.4	1060.07	0.0199	Pulse	0.1000	3
Cd	111	115	He	0.514	ppb	19.9	114.67	0.0022	Pulse	0.5000	3
Sn	120	115	He	0.834	ppb	3.4	1143.41	0.0215	Pulse	0.1000	3
Sb	121	115	He	0.948	ppb	6.9	627.80	0.0118	Pulse	0.3000	3
Ba	137	115	He	5.461	ppb	14.7	1153.41	0.0217	Pulse	0.1000	3
Tl	205	159	He	0.999	ppb	9.8	3937.32	0.0202	Pulse	0.1000	3
Pb	208	159	He	0.486	ppb	5.6	2670.19	0.0137	Pulse	0.1000	3
U	238	159	He	0.477	ppb	5.4	2300.26	0.0118	Pulse	0.1000	3

ISTD Table:

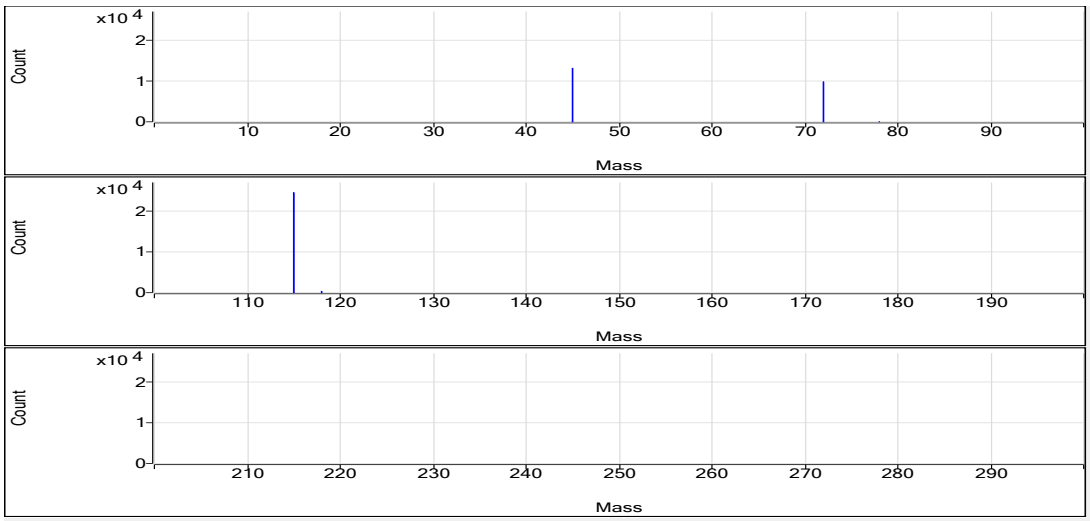
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1668872.37	1.7	97.7	Analog	0.1000	3
No Gas	Ge	72	839614.10	0.5	97.2	Pulse	0.1000	3
H2	Sc	45	131759.61	0.8	98.6	Pulse	0.1000	3
H2	Ge	72	98185.47	1.2	99.1	Pulse	0.1000	3
H2	In	115	245512.22	1.1	95.7	Pulse	0.1000	3
He	Sc	45	38900.39	2.3	98.6	Pulse	0.1000	3
He	Ge	72	66109.49	1.1	97.1	Pulse	0.1000	3
He	In	115	53277.24	1.2	96.2	Pulse	0.1000	3
He	Tb	159	194541.04	0.8	95.0	Pulse	0.1000	3
He	Bi	209	145745.30	0.7	96.3	Pulse	0.1000	3

No Gas

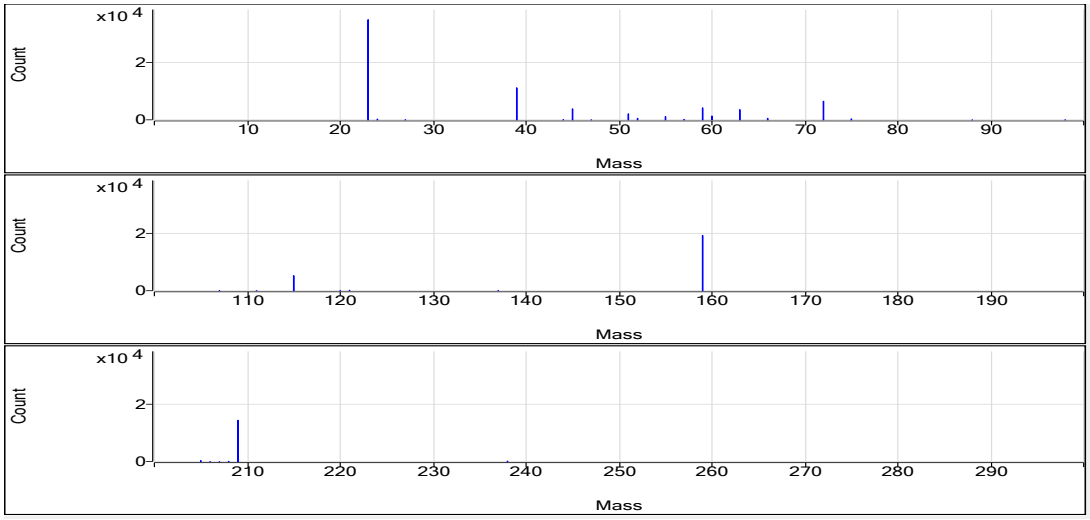


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.466	0.0002	310.00	0.0003	2.616E-05
Be	9	1	No Gas	0.405	0.0002	266.00	0.0003	2.616E-05
Be	9	1	No Gas	0.468	0.0002	308.00	0.0003	2.616E-05
Se	78	2	H2	0.837	0.0004	38.00	0.0004	6.3E-05
Se	78	2	H2	0.668	0.0003	32.00	0.0004	6.3E-05
Se	78	2	H2	0.793	0.0004	36.00	0.0004	6.3E-05
Na	23	3	He	3400.562	9.2268	352147.46	0.0025	0.7502
Na	23	3	He	3258.168	8.8719	353716.99	0.0025	0.7502
Na	23	3	He	3336.964	9.0683	350637.92	0.0025	0.7502
Mg	24	3	He	48.279	0.0846	3230.41	0.0012	0.02618
Mg	24	3	He	43.842	0.0793	3160.40	0.0012	0.02618
Mg	24	3	He	45.665	0.0815	3150.41	0.0012	0.02618
Al	27	3	He	55.353	0.0262	1000.06	0.0004	0.005329
Al	27	3	He	45.068	0.0223	890.06	0.0004	0.005329
Al	27	3	He	43.48	0.0217	840.05	0.0004	0.005329
K	39	3	He	147.648	0.6773	25848.33	0.001	0.5307
K	39	3	He	9.873	0.5405	21548.03	0.001	0.5307
K	39	3	He	-6.571	0.5241	20266.42	0.001	0.5307
Ca	44	3	He	47.044	0.0069	264.00	0.0001	0.004441
Ca	44	3	He	38.569	0.0065	258.00	0.0001	0.004441
Ca	44	3	He	45.342	0.0068	264.00	0.0001	0.004441
Ti	47	3	He	5.805	0.0028	108.00	0.0004	0.0004559
Ti	47	3	He	3.914	0.0021	82.00	0.0004	0.0004559
Ti	47	3	He	4.45	0.0023	88.00	0.0004	0.0004559
V	51	3	He	5.03	0.1146	4372.60	0.0176	0.02609
V	51	3	He	4.538	0.1059	4222.57	0.0176	0.02609
V	51	3	He	4.834	0.1111	4296.59	0.0176	0.02609
Cr	52	3	He	4.462	0.1475	5631.11	0.0217	0.05061
Cr	52	3	He	4.888	0.1568	6251.37	0.0217	0.05061
Cr	52	3	He	4.993	0.1591	6151.38	0.0217	0.05061
Mn	55	3	He	6.047	0.0658	2512.21	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	5.05	0.0567	2262.17	0.0091	0.01071
Mn	55	3	He	5.397	0.0599	2316.18	0.0091	0.01071
Fe	57	3	He	99.573	0.0482	1840.18	0.0004	0.008452
Fe	57	3	He	88.759	0.0439	1750.15	0.0004	0.008452
Fe	57	3	He	98.657	0.0478	1850.17	0.0004	0.008452
Co	59	3	He	5.001	0.2125	8110.06	0.0413	0.006013
Co	59	3	He	5.166	0.2193	8744.38	0.0413	0.006013
Co	59	3	He	5.195	0.2205	8526.26	0.0413	0.006013
Ni	60	3	He	4.977	0.0702	2678.24	0.0117	0.01172
Ni	60	3	He	5	0.0704	2808.26	0.0117	0.01172
Ni	60	3	He	5.336	0.0744	2876.27	0.0117	0.01172
Cu	63	3	He	4.778	0.1079	7067.58	0.0196	0.01443
Cu	63	3	He	5.016	0.1126	7415.73	0.0196	0.01443
Cu	63	3	He	4.798	0.1083	7249.67	0.0196	0.01443
Zn	66	3	He	6.611	0.0178	1168.05	0.0023	0.002807
Zn	66	3	He	6.846	0.0184	1210.05	0.0023	0.002807
Zn	66	3	He	6.18	0.0169	1128.05	0.0023	0.002807
As	75	3	He	5.314	0.0111	724.02	0.0018	0.001271
As	75	3	He	5.197	0.0108	714.02	0.0018	0.001271
As	75	3	He	5.088	0.0106	712.02	0.0018	0.001271
Sr	88	3	He	0.448	0.0048	260.01	0.0082	0.00114
Sr	88	3	He	0.555	0.0057	300.01	0.0082	0.00114
Sr	88	3	He	0.409	0.0045	240.01	0.0082	0.00114
Mo	98	3	He	0.617	0.0124	670.04	0.0177	0.001504
Mo	98	3	He	0.451	0.0095	500.03	0.0177	0.001504
Mo	98	3	He	0.402	0.0086	460.02	0.0177	0.001504
Ag	107	3	He	0.489	0.0193	1040.07	0.0368	0.001325
Ag	107	3	He	0.496	0.0196	1030.07	0.0368	0.001325
Ag	107	3	He	0.53	0.0208	1110.07	0.0368	0.001325
Cd	111	3	He	0.413	0.0017	94.00	0.0041	4.798E-05
Cd	111	3	He	0.618	0.0026	136.00	0.0041	4.798E-05
Cd	111	3	He	0.51	0.0021	114.00	0.0041	4.798E-05
Sn	120	3	He	0.809	0.0212	1140.08	0.0126	0.01097
Sn	120	3	He	0.865	0.0219	1150.09	0.0126	0.01097
Sn	120	3	He	0.828	0.0214	1140.07	0.0126	0.01097
Sb	121	3	He	1.023	0.0127	683.36	0.012	0.0003595
Sb	121	3	He	0.917	0.0114	600.02	0.012	0.0003595
Sb	121	3	He	0.905	0.0113	600.02	0.012	0.0003595
Ba	137	3	He	5.043	0.02	1080.07	0.0039	0.0003633
Ba	137	3	He	6.384	0.0253	1330.10	0.0039	0.0003633
Ba	137	3	He	4.956	0.0197	1050.07	0.0039	0.0003633
Tl	205	3	He	1.066	0.0215	4190.74	0.0189	0.001334
Tl	205	3	He	0.886	0.0181	3550.54	0.0189	0.001334
Tl	205	3	He	1.044	0.0211	4070.68	0.0189	0.001334
Pb	208	3	He	0.459	0.013	1290.09	0.0252	0.001497
Pb	208	3	He	0.486	0.0137	1560.14	0.0252	0.001497
Pb	208	3	He	0.513	0.0144	1580.14	0.0252	0.001497
U	238	3	He	0.496	0.0123	2390.28	0.0245	0.0001141
U	238	3	He	0.488	0.0121	2370.27	0.0245	0.0001141
U	238	3	He	0.447	0.0111	2140.24	0.0245	0.0001141
Sc	45	1	No Gas			1692893.72		
Sc	45	1	No Gas			1637646.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1676076.69		
Ge	72	1	No Gas			840638.89		
Ge	72	1	No Gas			835184.05		
Ge	72	1	No Gas			843019.36		
Sc	45	2	H2			131968.32		
Sc	45	2	H2			132754.40		
Sc	45	2	H2			130556.11		
Ge	72	2	H2			98048.75		
Ge	72	2	H2			99385.57		
Ge	72	2	H2			97122.10		
In	115	2	H2			247263.92		
In	115	2	H2			246906.97		
In	115	2	H2			242365.76		
Sc	45	3	He			38165.53		
Sc	45	3	He			39869.37		
Sc	45	3	He			38666.27		
Ge	72	3	He			65503.64		
Ge	72	3	He			65885.73		
Ge	72	3	He			66939.10		
In	115	3	He			53903.90		
In	115	3	He			52639.76		
In	115	3	He			53312.06		
Tb	159	3	He			194659.04		
Tb	159	3	He			196026.46		
Tb	159	3	He			192937.61		
Bi	209	3	He			144611.09		
Bi	209	3	He			146065.15		
Bi	209	3	He			146559.66		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

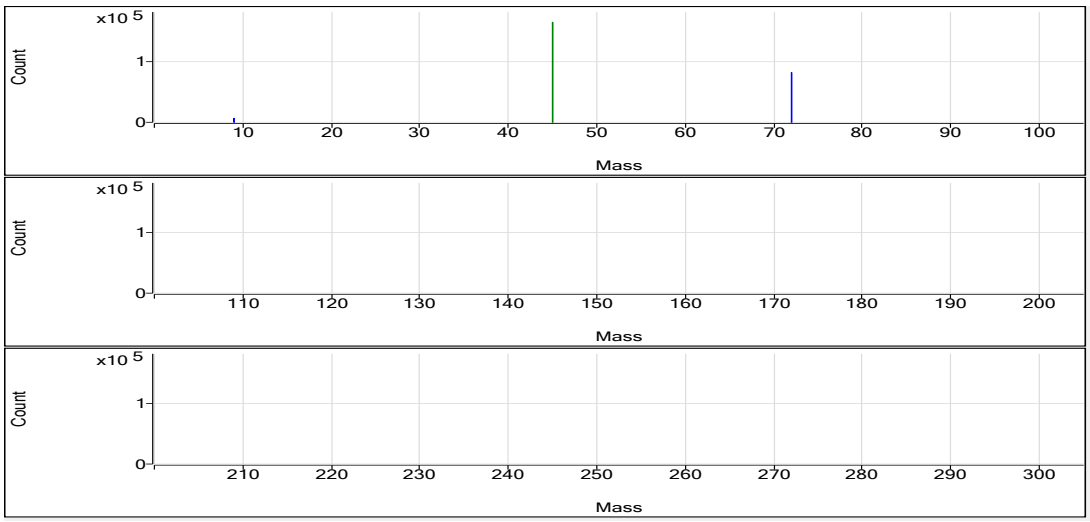
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.737	ppb	5.1	13759.64	0.0084	Pulse	0.5000	3
Se	78	72	H2	25.014	ppb	1.4	939.59	0.0098	Pulse	1.5000	3
Na	23	45	He	2488.631	ppb	2.3	267462.61	6.9537	Pulse	0.1000	3
Mg	24	45	He	2569.105	ppb	2.1	120661.06	3.1370	Pulse	0.1000	3
Al	27	45	He	2597.049	ppb	1.1	37880.50	0.9847	Pulse	0.1000	3
K	39	45	He	2568.236	ppb	3.7	118490.73	3.0808	Pulse	0.5000	3
Ca	44	45	He	2491.630	ppb	2.3	5215.52	0.1356	Pulse	0.5000	3
Ti	47	45	He	2575.564	ppb	1.0	40540.45	1.0538	Pulse	0.5000	3
V	51	45	He	257.355	ppb	1.5	175122.19	4.5526	Pulse	0.5000	3
Cr	52	45	He	258.507	ppb	1.1	217983.38	5.6666	Pulse	0.1000	3
Mn	55	45	He	256.613	ppb	2.2	90373.73	2.3496	Pulse	0.5000	3
Fe	57	45	He	2588.411	ppb	1.4	40087.17	1.0421	Pulse	0.1000	3
Co	59	45	He	256.848	ppb	1.8	408152.68	10.6109	Pulse	0.5000	3
Ni	60	45	He	257.223	ppb	2.3	116653.34	3.0328	Pulse	0.5000	3
Cu	63	72	He	247.244	ppb	1.6	323499.82	4.8510	Pulse	0.5000	3
Zn	66	72	He	245.167	ppb	1.9	37344.85	0.5600	Pulse	0.5000	3
As	75	72	He	243.964	ppb	0.1	30037.98	0.4503	Pulse	0.5000	3
Sr	88	115	He	24.334	ppb	5.3	10767.25	0.2011	Pulse	0.1000	3
Mo	98	115	He	25.232	ppb	1.6	24012.20	0.4484	Pulse	0.1000	3
Ag	107	115	He	24.854	ppb	0.8	49014.02	0.9153	Pulse	0.1000	3
Cd	111	115	He	25.129	ppb	1.2	5523.00	0.1031	Pulse	0.5000	3
Sn	120	115	He	25.293	ppb	2.4	17637.84	0.3293	Pulse	0.1000	3
Sb	121	115	He	24.262	ppb	1.5	15670.21	0.2926	Pulse	0.3000	3
Ba	137	115	He	244.598	ppb	3.2	51126.02	0.9547	Pulse	0.1000	3
Tl	205	159	He	24.240	ppb	0.4	90325.08	0.4604	Pulse	0.1000	3
Pb	208	159	He	24.953	ppb	1.5	123428.96	0.6292	Pulse	0.1000	3
U	238	159	He	25.304	ppb	0.6	121882.77	0.6213	Pulse	0.1000	3

ISTD Table:

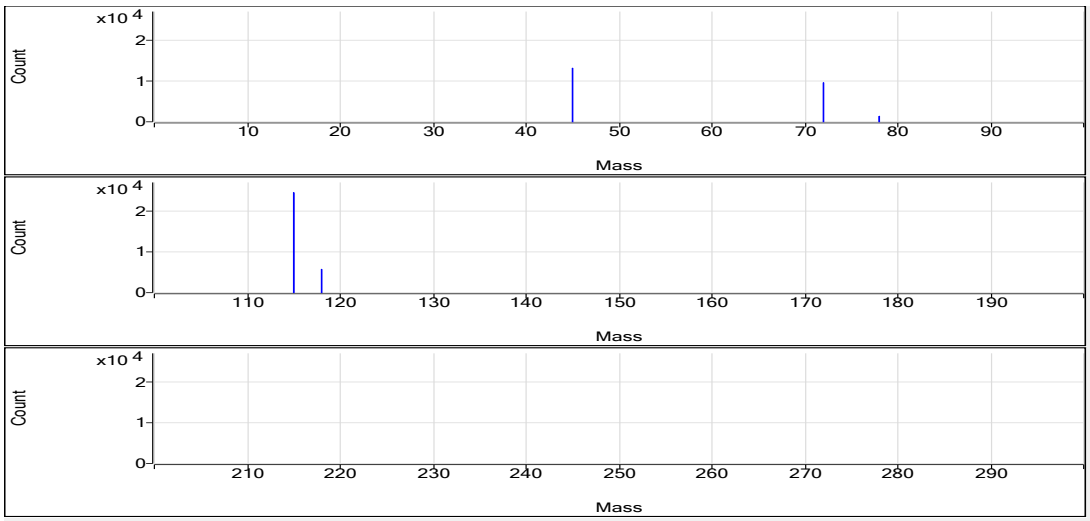
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1646929.30	1.2	96.4	Analog	0.1000	3
No Gas	Ge	72	819255.12	1.5	94.8	Pulse	0.1000	3
H2	Sc	45	132081.28	0.7	98.9	Pulse	0.1000	3
H2	Ge	72	96243.77	1.5	97.2	Pulse	0.1000	3
H2	In	115	245878.98	1.5	95.8	Pulse	0.1000	3
He	Sc	45	38472.44	1.7	97.5	Pulse	0.1000	3
He	Ge	72	66698.76	1.7	97.9	Pulse	0.1000	3
He	In	115	53553.10	0.6	96.7	Pulse	0.1000	3
He	Tb	159	196172.70	0.8	95.8	Pulse	0.1000	3
He	Bi	209	144583.74	0.4	95.6	Pulse	0.1000	3

No Gas

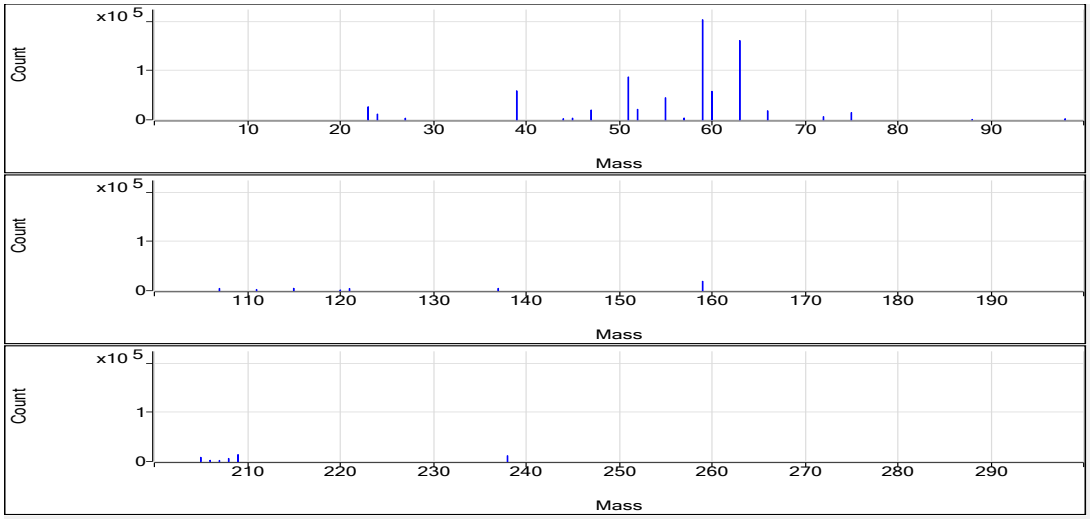


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.293	0.0079	12790.89	0.0003	2.616E-05
Be	9	1	No Gas	25.33	0.0086	14097.88	0.0003	2.616E-05
Be	9	1	No Gas	25.587	0.0086	14390.14	0.0003	2.616E-05
Se	78	2	H2	24.902	0.0097	946.70	0.0004	6.3E-05
Se	78	2	H2	25.404	0.0099	938.03	0.0004	6.3E-05
Se	78	2	H2	24.737	0.0097	934.03	0.0004	6.3E-05
Na	23	3	He	2495.632	6.9711	267381.62	0.0025	0.7502
Na	23	3	He	2541.389	7.0852	268417.09	0.0025	0.7502
Na	23	3	He	2428.873	6.8047	266589.12	0.0025	0.7502
Mg	24	3	He	2568.63	3.1365	120301.56	0.0012	0.02618
Mg	24	3	He	2624.565	3.2042	121389.21	0.0012	0.02618
Mg	24	3	He	2514.121	3.0705	120292.42	0.0012	0.02618
Al	27	3	He	2573.187	0.9757	37422.94	0.0004	0.005329
Al	27	3	He	2627.798	0.9963	37743.27	0.0004	0.005329
Al	27	3	He	2590.162	0.9821	38475.28	0.0004	0.005329
K	39	3	He	2641.057	3.1531	120939.55	0.001	0.5307
K	39	3	He	2603.874	3.1162	118054.73	0.001	0.5307
K	39	3	He	2459.776	2.9731	116477.90	0.001	0.5307
Ca	44	3	He	2495.52	0.1358	5208.85	0.0001	0.004441
Ca	44	3	He	2546.682	0.1385	5246.87	0.0001	0.004441
Ca	44	3	He	2432.688	0.1325	5190.84	0.0001	0.004441
Ti	47	3	He	2547.246	1.0422	39974.46	0.0004	0.0004559
Ti	47	3	He	2600.552	1.064	40309.16	0.0004	0.0004559
Ti	47	3	He	2578.894	1.0551	41337.74	0.0004	0.0004559
V	51	3	He	256.092	4.5304	173765.11	0.0176	0.02609
V	51	3	He	261.623	4.6276	175315.48	0.0176	0.02609
V	51	3	He	254.349	4.4997	176285.97	0.0176	0.02609
Cr	52	3	He	260.419	5.7081	218939.29	0.0217	0.05061
Cr	52	3	He	259.908	5.697	215828.41	0.0217	0.05061
Cr	52	3	He	255.195	5.5946	219182.44	0.0217	0.05061
Mn	55	3	He	257.127	2.3543	90301.17	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	261.879	2.3976	90832.27	0.0091	0.01071
Mn	55	3	He	250.833	2.2969	89987.75	0.0091	0.01071
Fe	57	3	He	2567.438	1.0337	39649.29	0.0004	0.008452
Fe	57	3	He	2630.787	1.059	40120.46	0.0004	0.008452
Fe	57	3	He	2567.006	1.0336	40491.77	0.0004	0.008452
Co	59	3	He	255.002	10.5347	404065.81	0.0413	0.006013
Co	59	3	He	262.234	10.8333	410412.91	0.0413	0.006013
Co	59	3	He	253.308	10.4647	409979.31	0.0413	0.006013
Ni	60	3	He	255.307	3.0103	115463.28	0.0117	0.01172
Ni	60	3	He	263.762	3.1096	117806.47	0.0117	0.01172
Ni	60	3	He	252.599	2.9785	116690.26	0.0117	0.01172
Cu	63	3	He	251.902	4.9422	323233.28	0.0196	0.01443
Cu	63	3	He	244.907	4.8053	324272.63	0.0196	0.01443
Cu	63	3	He	244.925	4.8057	322993.56	0.0196	0.01443
Zn	66	3	He	250.082	0.5712	37356.88	0.0023	0.002807
Zn	66	3	He	244.457	0.5584	37681.59	0.0023	0.002807
Zn	66	3	He	240.96	0.5504	36996.08	0.0023	0.002807
As	75	3	He	243.72	0.4499	29424.83	0.0018	0.001271
As	75	3	He	244.127	0.4506	30410.66	0.0018	0.001271
As	75	3	He	244.045	0.4505	30278.44	0.0018	0.001271
Sr	88	3	He	25.055	0.207	11134.21	0.0082	0.00114
Sr	88	3	He	25.099	0.2074	11034.09	0.0082	0.00114
Sr	88	3	He	22.846	0.1889	10133.46	0.0082	0.00114
Mo	98	3	He	25.021	0.4447	23918.67	0.0177	0.001504
Mo	98	3	He	25.707	0.4568	24309.35	0.0177	0.001504
Mo	98	3	He	24.966	0.4437	23808.57	0.0177	0.001504
Ag	107	3	He	24.735	0.9109	48996.64	0.0368	0.001325
Ag	107	3	He	25.081	0.9236	49147.96	0.0368	0.001325
Ag	107	3	He	24.745	0.9113	48897.46	0.0368	0.001325
Cd	111	3	He	24.864	0.102	5488.99	0.0041	4.798E-05
Cd	111	3	He	25.454	0.1045	5559.02	0.0041	4.798E-05
Cd	111	3	He	25.07	0.1029	5521.00	0.0041	4.798E-05
Sn	120	3	He	25.661	0.334	17962.85	0.0126	0.01097
Sn	120	3	He	24.6	0.3206	17059.86	0.0126	0.01097
Sn	120	3	He	25.618	0.3334	17890.80	0.0126	0.01097
Sb	121	3	He	23.832	0.2874	15461.11	0.012	0.0003595
Sb	121	3	He	24.497	0.2954	15721.41	0.012	0.0003595
Sb	121	3	He	24.458	0.295	15828.11	0.012	0.0003595
Ba	137	3	He	237.597	0.9274	49881.78	0.0039	0.0003633
Ba	137	3	He	242.974	0.9483	50463.92	0.0039	0.0003633
Ba	137	3	He	253.222	0.9883	53032.35	0.0039	0.0003633
Tl	205	3	He	24.134	0.4584	89493.86	0.0189	0.001334
Tl	205	3	He	24.293	0.4614	90077.19	0.0189	0.001334
Tl	205	3	He	24.292	0.4614	91404.19	0.0189	0.001334
Pb	208	3	He	25.128	0.6336	66240.98	0.0252	0.001497
Pb	208	3	He	25.208	0.6357	67466.59	0.0252	0.001497
Pb	208	3	He	24.522	0.6184	65025.41	0.0252	0.001497
U	238	3	He	25.244	0.6198	120997.66	0.0245	0.0001141
U	238	3	He	25.186	0.6184	120716.80	0.0245	0.0001141
U	238	3	He	25.481	0.6256	123933.86	0.0245	0.0001141
Sc	45	1	No Gas			1626170.91		
Sc	45	1	No Gas			1648627.94		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1665989.04		
Ge	72	1	No Gas			805050.53		
Ge	72	1	No Gas			824199.36		
Ge	72	1	No Gas			828515.46		
Sc	45	2	H2			133167.12		
Sc	45	2	H2			131270.98		
Sc	45	2	H2			131805.75		
Ge	72	2	H2			97393.18		
Ge	72	2	H2			94607.95		
Ge	72	2	H2			96730.17		
In	115	2	H2			249559.29		
In	115	2	H2			241949.55		
In	115	2	H2			246128.10		
Sc	45	3	He			38355.70		
Sc	45	3	He			37884.38		
Sc	45	3	He			39177.23		
Ge	72	3	He			65403.22		
Ge	72	3	He			67482.07		
Ge	72	3	He			67210.98		
In	115	3	He			53914.20		
In	115	3	He			53331.90		
In	115	3	He			53783.61		
Tb	159	3	He			195218.53		
Tb	159	3	He			195206.42		
Tb	159	3	He			198093.16		
Bi	209	3	He			144429.38		
Bi	209	3	He			145235.89		
Bi	209	3	He			144085.95		

Quantitation Report

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Sample Type	CCB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

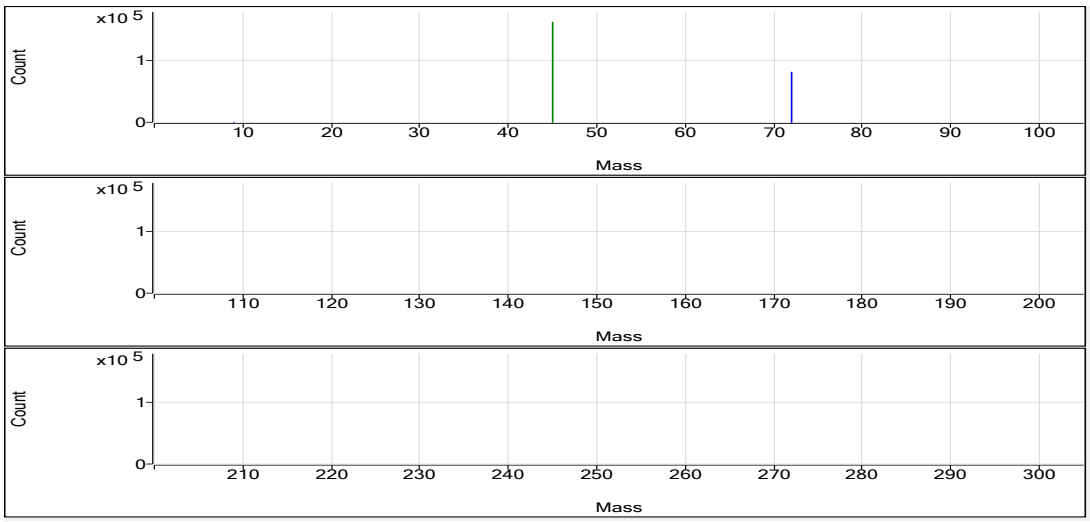
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.014	ppb	N/A	34.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.090	ppb	N/A	2.67	0.0000	Pulse	1.5000	3
Na	23	45	He	-91.606	ppb	N/A	20322.83	0.5218	Pulse	0.1000	3
Mg	24	45	He	-8.031	ppb	N/A	640.03	0.0165	Pulse	0.1000	3
Al	27	45	He	-3.695	ppb	N/A	153.34	0.0039	Pulse	0.1000	3
K	39	45	He	-4.024	ppb	N/A	20524.28	0.5267	Pulse	0.5000	3
Ca	44	45	He	-7.951	ppb	N/A	156.67	0.0040	Pulse	0.5000	3
Ti	47	45	He	0.263	ppb	308.3	22.00	0.0006	Pulse	0.5000	3
V	51	45	He	-0.081	ppb	N/A	960.70	0.0247	Pulse	0.5000	3
Cr	52	45	He	-0.124	ppb	N/A	1866.83	0.0479	Pulse	0.1000	3
Mn	55	45	He	-0.294	ppb	N/A	312.67	0.0080	Pulse	0.5000	3
Fe	57	45	He	-6.369	ppb	N/A	230.01	0.0059	Pulse	0.1000	3
Co	59	45	He	-0.013	ppb	N/A	212.67	0.0055	Pulse	0.5000	3
Ni	60	45	He	-0.098	ppb	N/A	411.34	0.0106	Pulse	0.5000	3
Cu	63	72	He	-0.209	ppb	N/A	667.35	0.0104	Pulse	0.5000	3
Zn	66	72	He	-0.025	ppb	N/A	177.33	0.0027	Pulse	0.5000	3
As	75	72	He	0.326	ppb	54.5	120.67	0.0019	Pulse	0.5000	3
Sr	88	115	He	-0.108	ppb	N/A	13.33	0.0003	Pulse	0.1000	3
Mo	98	115	He	-0.035	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Ag	107	115	He	-0.015	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Cd	111	115	He	-0.012	ppb	0.0	0.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.280	ppb	N/A	390.02	0.0074	Pulse	0.1000	3
Sb	121	115	He	0.021	ppb	81.8	32.22	0.0006	Pulse	0.3000	3
Ba	137	115	He	-0.012	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Tl	205	159	He	-0.033	ppb	N/A	136.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.016	ppb	N/A	213.34	0.0011	Pulse	0.1000	3
U	238	159	He	0.005	ppb	83.8	46.67	0.0002	Pulse	0.1000	3

ISTD Table:

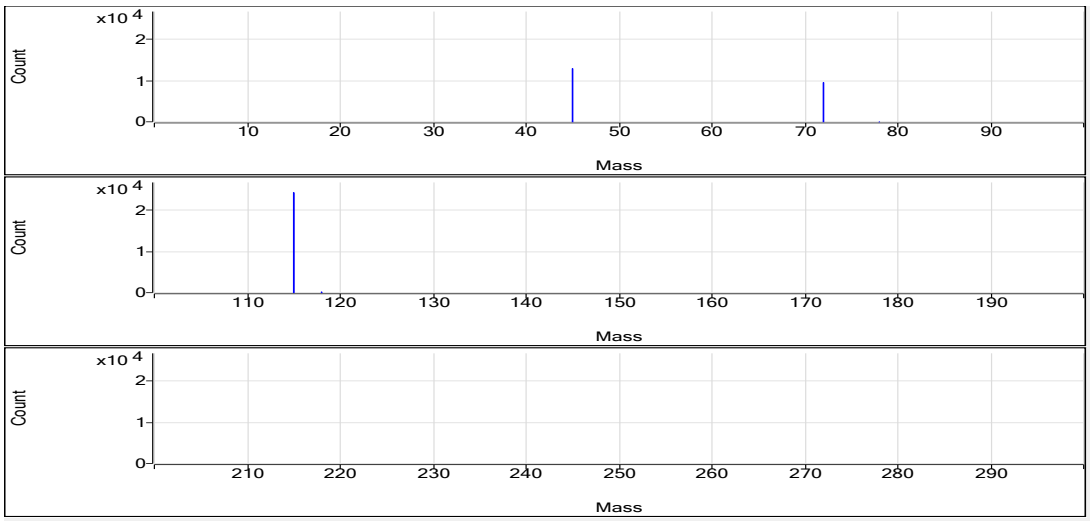
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1628491.28	0.2	95.3	Analog	0.1000	3
No Gas	Ge	72	817802.23	0.6	94.7	Pulse	0.1000	3
H2	Sc	45	129427.65	2.0	96.9	Pulse	0.1000	3
H2	Ge	72	95545.97	1.7	96.5	Pulse	0.1000	3
H2	In	115	243291.83	0.7	94.8	Pulse	0.1000	3
He	Sc	45	38947.12	0.8	98.7	Pulse	0.1000	3
He	Ge	72	64493.10	1.7	94.7	Pulse	0.1000	3
He	In	115	52586.79	1.6	94.9	Pulse	0.1000	3
He	Tb	159	194603.21	1.1	95.0	Pulse	0.1000	3
He	Bi	209	143630.26	0.3	95.0	Pulse	0.1000	3

No Gas

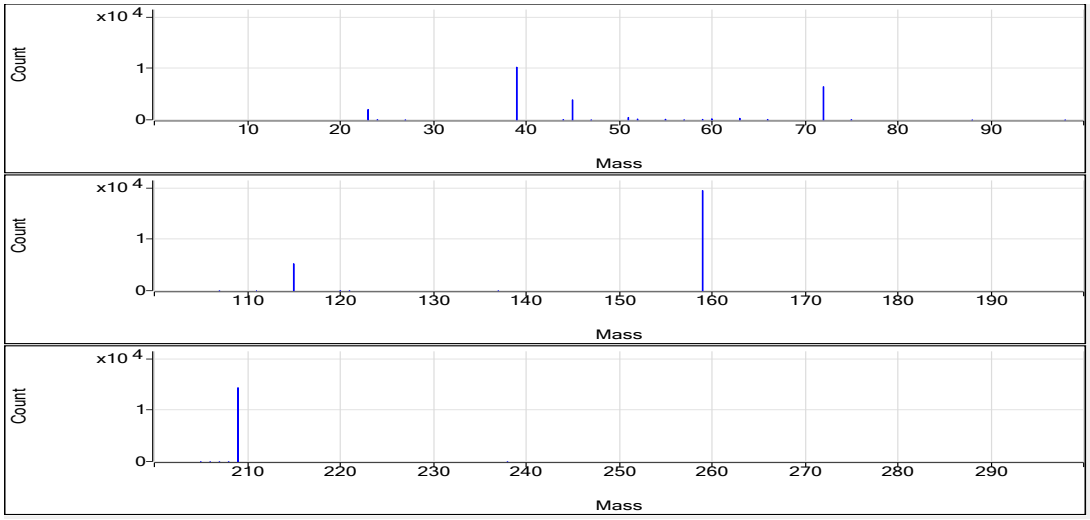


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Se	78	2	H2	-0.091	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.091	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.089	0	2.67	0.0004	6.3E-05
Na	23	3	He	-95.175	0.5129	20162.66	0.0025	0.7502
Na	23	3	He	-92.543	0.5195	20092.43	0.0025	0.7502
Na	23	3	He	-87.099	0.5331	20713.40	0.0025	0.7502
Mg	24	3	He	-11.958	0.0117	460.02	0.0012	0.02618
Mg	24	3	He	-5.18	0.0199	770.05	0.0012	0.02618
Mg	24	3	He	-6.957	0.0178	690.03	0.0012	0.02618
Al	27	3	He	-3.338	0.0041	160.01	0.0004	0.005329
Al	27	3	He	-4.534	0.0036	140.00	0.0004	0.005329
Al	27	3	He	-3.213	0.0041	160.01	0.0004	0.005329
K	39	3	He	70.347	0.6005	23605.00	0.001	0.5307
K	39	3	He	-21.154	0.5097	19711.76	0.001	0.5307
K	39	3	He	-61.264	0.4698	18256.08	0.001	0.5307
Ca	44	3	He	-8.004	0.004	158.00	0.0001	0.004441
Ca	44	3	He	-10.687	0.0039	150.00	0.0001	0.004441
Ca	44	3	He	-5.162	0.0042	162.00	0.0001	0.004441
Ti	47	3	He	1.125	0.0009	36.00	0.0004	0.0004559
Ti	47	3	He	0.15	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	-0.485	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.188	0.0228	896.03	0.0176	0.02609
V	51	3	He	-0.014	0.0259	1000.04	0.0176	0.02609
V	51	3	He	-0.041	0.0254	986.03	0.0176	0.02609
Cr	52	3	He	0.013	0.0509	2000.17	0.0217	0.05061
Cr	52	3	He	-0.151	0.0473	1830.18	0.0217	0.05061
Cr	52	3	He	-0.233	0.0456	1770.15	0.0217	0.05061
Mn	55	3	He	-0.254	0.0084	330.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.273	0.0082	318.01	0.0091	0.01071
Mn	55	3	He	-0.356	0.0075	290.00	0.0091	0.01071
Fe	57	3	He	-9.061	0.0048	190.01	0.0004	0.008452
Fe	57	3	He	-7.569	0.0054	210.01	0.0004	0.008452
Fe	57	3	He	-2.476	0.0075	290.01	0.0004	0.008452
Co	59	3	He	0.01	0.0064	252.00	0.0413	0.006013
Co	59	3	He	-0.027	0.0049	190.00	0.0413	0.006013
Co	59	3	He	-0.023	0.005	196.00	0.0413	0.006013
Ni	60	3	He	-0.17	0.0097	382.01	0.0117	0.01172
Ni	60	3	He	-0.095	0.0106	410.01	0.0117	0.01172
Ni	60	3	He	-0.029	0.0114	442.01	0.0117	0.01172
Cu	63	3	He	-0.181	0.0109	708.02	0.0196	0.01443
Cu	63	3	He	-0.263	0.0093	606.02	0.0196	0.01443
Cu	63	3	He	-0.182	0.0109	688.02	0.0196	0.01443
Zn	66	3	He	-0.084	0.0026	170.00	0.0023	0.002807
Zn	66	3	He	0.019	0.0029	186.00	0.0023	0.002807
Zn	66	3	He	-0.011	0.0028	176.00	0.0023	0.002807
As	75	3	He	0.497	0.0022	142.00	0.0018	0.001271
As	75	3	He	0.142	0.0015	100.00	0.0018	0.001271
As	75	3	He	0.34	0.0019	120.00	0.0018	0.001271
Sr	88	3	He	-0.116	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	-0.093	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.115	0.0002	10.00	0.0082	0.00114
Mo	98	3	He	-0.021	0.0011	60.00	0.0177	0.001504
Mo	98	3	He	-0.043	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.041	0.0008	40.00	0.0177	0.001504
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	-0.435	0.0055	290.01	0.0126	0.01097
Sn	120	3	He	-0.335	0.0068	360.02	0.0126	0.01097
Sn	120	3	He	-0.071	0.0101	520.03	0.0126	0.01097
Sb	121	3	He	0.033	0.0008	40.00	0.012	0.0003595
Sb	121	3	He	0.001	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	-0.045	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.051	0.0006	30.00	0.0039	0.0003633
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Tl	205	3	He	-0.019	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.037	0.0006	120.01	0.0189	0.001334
Pb	208	3	He	-0.029	0.0008	80.00	0.0252	0.001497
Pb	208	3	He	0.001	0.0015	130.01	0.0252	0.001497
Pb	208	3	He	-0.02	0.001	110.00	0.0252	0.001497
U	238	3	He	0.01	0.0004	70.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1630655.91		
Sc	45	1	No Gas			1625666.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629151.38		
Ge	72	1	No Gas			823514.05		
Ge	72	1	No Gas			816490.85		
Ge	72	1	No Gas			813401.78		
Sc	45	2	H2			131403.18		
Sc	45	2	H2			130395.73		
Sc	45	2	H2			126484.03		
Ge	72	2	H2			96578.39		
Ge	72	2	H2			96337.65		
Ge	72	2	H2			93721.86		
In	115	2	H2			241758.26		
In	115	2	H2			245118.16		
In	115	2	H2			242999.06		
Sc	45	3	He			39308.03		
Sc	45	3	He			38676.49		
Sc	45	3	He			38856.83		
Ge	72	3	He			64951.66		
Ge	72	3	He			65252.27		
Ge	72	3	He			63275.38		
In	115	3	He			52780.39		
In	115	3	He			53321.90		
In	115	3	He			51666.27		
Tb	159	3	He			196037.20		
Tb	159	3	He			195564.92		
Tb	159	3	He			192207.50		
Bi	209	3	He			143366.84		
Bi	209	3	He			143449.23		
Bi	209	3	He			144074.70		

Quantitation Report

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Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

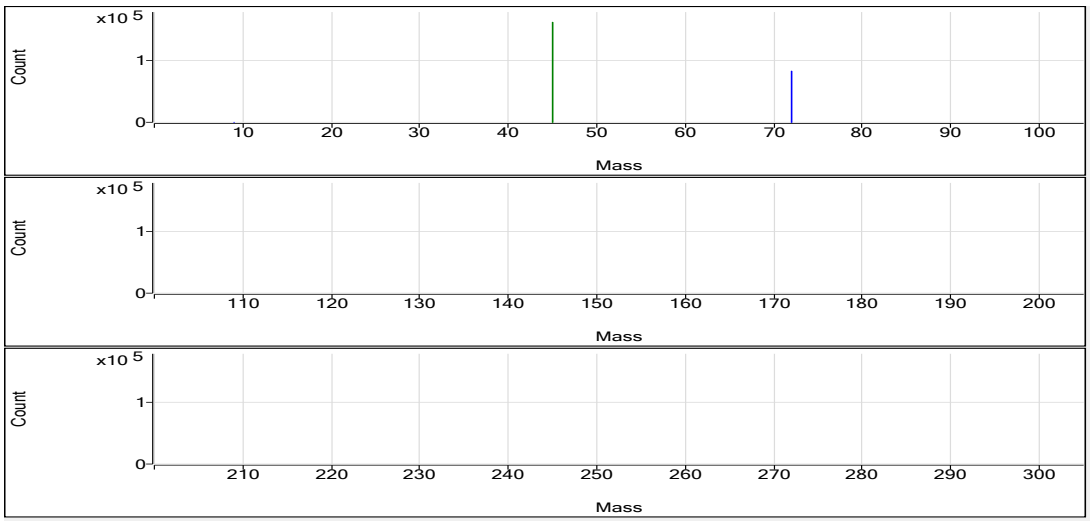
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.022	ppb	N/A	30.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.105	ppb	N/A	2.22	0.0000	Pulse	1.5000	3
Na	23	45	He	331000.760	ppb	3.5	31956959.52	825.8437	Analog	0.1000	3
Mg	24	45	He	-6.964	ppb	N/A	686.70	0.0178	Pulse	0.1000	3
Al	27	45	He	0.242	ppb	1359.9	210.01	0.0054	Pulse	0.1000	3
K	39	45	He	10.103	ppb	610.1	20951.45	0.5407	Pulse	0.5000	3
Ca	44	45	He	-1.394	ppb	N/A	168.67	0.0044	Pulse	0.5000	3
Ti	47	45	He	-0.516	ppb	N/A	9.33	0.0002	Pulse	0.5000	3
V	51	45	He	-0.232	ppb	N/A	851.36	0.0220	Pulse	0.5000	3
Cr	52	45	He	-0.199	ppb	N/A	1790.16	0.0463	Pulse	0.1000	3
Mn	55	45	He	-0.318	ppb	N/A	302.01	0.0078	Pulse	0.5000	3
Fe	57	45	He	-3.192	ppb	N/A	276.68	0.0072	Pulse	0.1000	3
Co	59	45	He	-0.033	ppb	N/A	180.67	0.0047	Pulse	0.5000	3
Ni	60	45	He	-0.112	ppb	N/A	402.68	0.0104	Pulse	0.5000	3
Cu	63	72	He	0.050	ppb	34.1	1020.04	0.0154	Pulse	0.5000	3
Zn	66	72	He	2.787	ppb	13.3	604.02	0.0091	Pulse	0.5000	3
As	75	72	He	0.388	ppb	7.2	131.33	0.0020	Pulse	0.5000	3
Sr	88	115	He	0.101	ppb	10.0	103.33	0.0020	Pulse	0.1000	3
Mo	98	115	He	0.073	ppb	65.0	146.67	0.0028	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	1663.7	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.277	ppb	57.1	756.71	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.004	ppb	72.1	21.11	0.0004	Pulse	0.3000	3
Ba	137	115	He	0.183	ppb	39.0	56.67	0.0011	Pulse	0.1000	3
Tl	205	159	He	-0.042	ppb	N/A	103.33	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.030	ppb	34.5	436.68	0.0023	Pulse	0.1000	3
U	238	159	He	0.002	ppb	128.1	30.00	0.0002	Pulse	0.1000	3

ISTD Table:

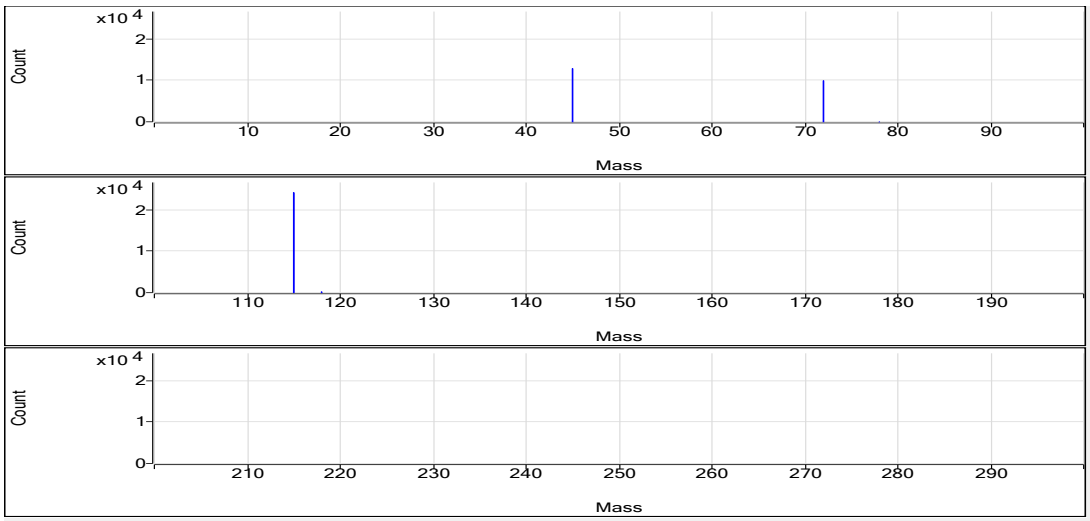
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1637819.82	0.7	95.9	Analog	0.1000	3
No Gas	Ge	72	839080.14	0.3	97.1	Pulse	0.1000	3
H2	Sc	45	128658.36	2.2	96.3	Pulse	0.1000	3
H2	Ge	72	99345.53	0.3	100.3	Pulse	0.1000	3
H2	In	115	241743.32	1.1	94.2	Pulse	0.1000	3
He	Sc	45	38726.43	3.4	98.1	Pulse	0.1000	3
He	Ge	72	66166.56	2.3	97.1	Pulse	0.1000	3
He	In	115	52420.06	1.4	94.6	Pulse	0.1000	3
He	Tb	159	193583.24	0.8	94.5	Pulse	0.1000	3
He	Bi	209	141456.78	0.6	93.5	Pulse	0.1000	3

No Gas

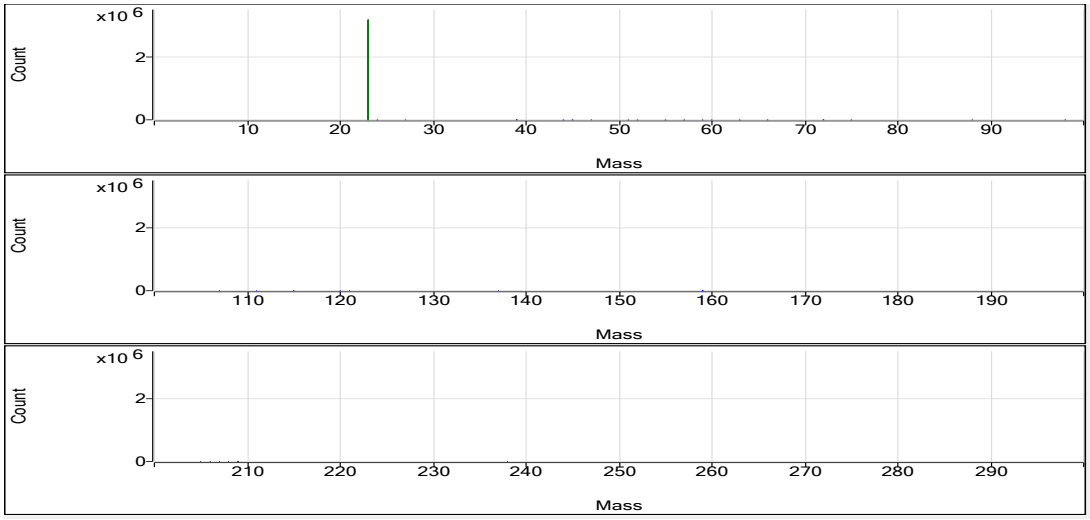


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.034	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.02	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.013	0	36.00	0.0003	2.616E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.128	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Na	23	3	He	325558.419	812.2775	31806657.03	0.0025	0.7502
Na	23	3	He	323318.389	806.6937	32097672.02	0.0025	0.7502
Na	23	3	He	344125.471	858.56	31966549.52	0.0025	0.7502
Mg	24	3	He	-6.858	0.0179	700.04	0.0012	0.02618
Mg	24	3	He	-7.716	0.0168	670.03	0.0012	0.02618
Mg	24	3	He	-6.317	0.0185	690.04	0.0012	0.02618
Al	27	3	He	-3.296	0.0041	160.01	0.0004	0.005329
Al	27	3	He	3.196	0.0065	260.01	0.0004	0.005329
Al	27	3	He	0.825	0.0056	210.01	0.0004	0.005329
K	39	3	He	81.172	0.6113	23935.40	0.001	0.5307
K	39	3	He	-28.868	0.502	19974.07	0.001	0.5307
K	39	3	He	-21.994	0.5088	18944.87	0.001	0.5307
Ca	44	3	He	-15.473	0.0036	142.00	0.0001	0.004441
Ca	44	3	He	-1.288	0.0044	174.00	0.0001	0.004441
Ca	44	3	He	12.579	0.0051	190.00	0.0001	0.004441
Ti	47	3	He	-0.615	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.869	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.064	0.0004	16.00	0.0004	0.0004559
V	51	3	He	-0.22	0.0222	870.03	0.0176	0.02609
V	51	3	He	-0.3	0.0208	828.03	0.0176	0.02609
V	51	3	He	-0.176	0.023	856.03	0.0176	0.02609
Cr	52	3	He	-0.46	0.0406	1590.12	0.0217	0.05061
Cr	52	3	He	-0.131	0.0478	1900.17	0.0217	0.05061
Cr	52	3	He	-0.005	0.0505	1880.18	0.0217	0.05061
Mn	55	3	He	-0.29	0.0081	316.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.397	0.0071	282.00	0.0091	0.01071
Mn	55	3	He	-0.267	0.0083	308.01	0.0091	0.01071
Fe	57	3	He	-7.736	0.0054	210.01	0.0004	0.008452
Fe	57	3	He	-3.543	0.007	280.01	0.0004	0.008452
Fe	57	3	He	1.702	0.0091	340.01	0.0004	0.008452
Co	59	3	He	-0.031	0.0048	186.00	0.0413	0.006013
Co	59	3	He	-0.031	0.0047	188.00	0.0413	0.006013
Co	59	3	He	-0.036	0.0045	168.00	0.0413	0.006013
Ni	60	3	He	-0.102	0.0105	412.01	0.0117	0.01172
Ni	60	3	He	-0.137	0.0101	402.01	0.0117	0.01172
Ni	60	3	He	-0.097	0.0106	394.01	0.0117	0.01172
Cu	63	3	He	0.034	0.0151	974.03	0.0196	0.01443
Cu	63	3	He	0.049	0.0154	1022.04	0.0196	0.01443
Cu	63	3	He	0.068	0.0158	1064.04	0.0196	0.01443
Zn	66	3	He	3.155	0.01	644.02	0.0023	0.002807
Zn	66	3	He	2.792	0.0092	608.02	0.0023	0.002807
Zn	66	3	He	2.413	0.0083	560.01	0.0023	0.002807
As	75	3	He	0.421	0.002	132.00	0.0018	0.001271
As	75	3	He	0.373	0.002	130.00	0.0018	0.001271
As	75	3	He	0.371	0.002	132.00	0.0018	0.001271
Sr	88	3	He	0.096	0.0019	100.00	0.0082	0.00114
Sr	88	3	He	0.095	0.0019	100.00	0.0082	0.00114
Sr	88	3	He	0.113	0.0021	110.00	0.0082	0.00114
Mo	98	3	He	0.046	0.0023	120.00	0.0177	0.001504
Mo	98	3	He	0.045	0.0023	120.01	0.0177	0.001504
Mo	98	3	He	0.127	0.0038	200.01	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.4	0.016	830.05	0.0126	0.01097
Sn	120	3	He	0.333	0.0152	790.05	0.0126	0.01097
Sn	120	3	He	0.099	0.0122	650.03	0.0126	0.01097
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	0.104	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.202	0.0012	60.00	0.0039	0.0003633
Ba	137	3	He	0.244	0.0013	70.00	0.0039	0.0003633
Tl	205	3	He	-0.033	0.0007	140.00	0.0189	0.001334
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	0.032	0.0023	260.01	0.0252	0.001497
Pb	208	3	He	0.039	0.0025	270.01	0.0252	0.001497
Pb	208	3	He	0.019	0.002	140.01	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
Sc	45	1	No Gas			1627428.88		
Sc	45	1	No Gas			1634813.73		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1651216.85		
Ge	72	1	No Gas			841869.91		
Ge	72	1	No Gas			837601.94		
Ge	72	1	No Gas			837768.58		
Sc	45	2	H2			128035.77		
Sc	45	2	H2			126244.49		
Sc	45	2	H2			131694.81		
Ge	72	2	H2			99194.68		
Ge	72	2	H2			99184.76		
Ge	72	2	H2			99657.15		
In	115	2	H2			242877.14		
In	115	2	H2			238794.90		
In	115	2	H2			243557.91		
Sc	45	3	He			39157.38		
Sc	45	3	He			39789.17		
Sc	45	3	He			37232.75		
Ge	72	3	He			64539.72		
Ge	72	3	He			66427.48		
Ge	72	3	He			67532.48		
In	115	3	He			51887.08		
In	115	3	He			52137.37		
In	115	3	He			53251.63		
Tb	159	3	He			195388.84		
Tb	159	3	He			192776.89		
Tb	159	3	He			192584.00		
Bi	209	3	He			141943.92		
Bi	209	3	He			141875.37		
Bi	209	3	He			140551.06		

Quantitation Report

Data File Name	186SMPL.d
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Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

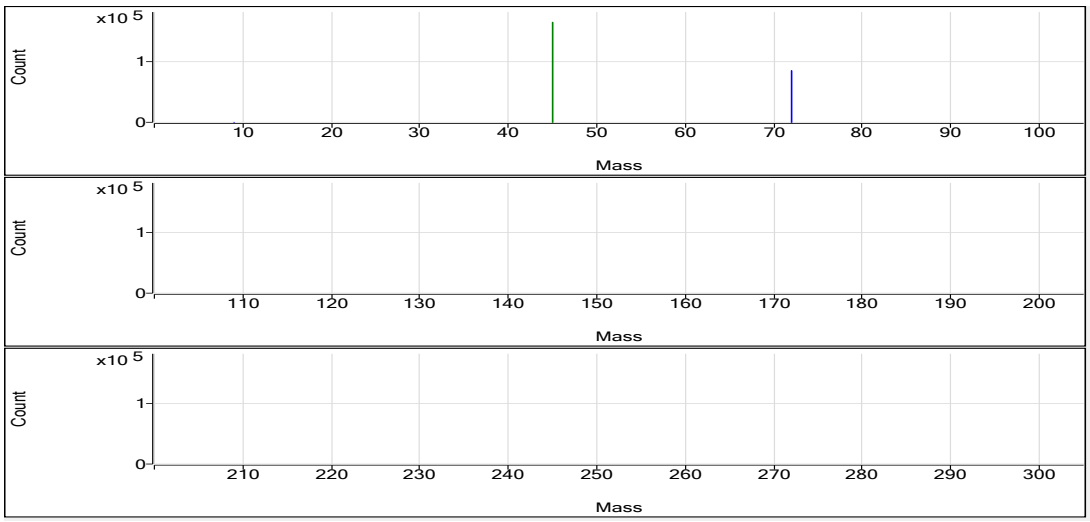
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.133	ppb	7.2	117.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	-0.083	ppb	N/A	3.11	0.0000	Pulse	1.5000	3
Na	23	45	He	324683.909	ppb	1.6	32237211.19	810.0975	Analog	0.1000	3
Mg	24	45	He	983.264	ppb	2.1	48420.98	1.2168	Pulse	0.1000	3
Al	27	45	He	1559.637	ppb	2.0	23620.76	0.5935	Pulse	0.1000	3
K	39	45	He	265.985	ppb	31.0	31592.25	0.7948	Pulse	0.5000	3
Ca	44	45	He	10478.274	ppb	1.6	22126.87	0.5560	Pulse	0.5000	3
Ti	47	45	He	77.007	ppb	1.9	1271.39	0.0319	Pulse	0.5000	3
V	51	45	He	15.168	ppb	2.6	11654.18	0.2929	Pulse	0.5000	3
Cr	52	45	He	209.033	ppb	1.2	182735.19	4.5918	Pulse	0.1000	3
Mn	55	45	He	457.507	ppb	0.7	166389.78	4.1807	Pulse	0.5000	3
Fe	57	45	He	88677.767	ppb	2.1	1409484.56	35.4208	Analog	0.1000	3
Co	59	45	He	7.113	ppb	2.7	11925.07	0.2997	Pulse	0.5000	3
Ni	60	45	He	2019.084	ppb	1.7	944148.10	23.7261	Pulse	0.5000	3
Cu	63	72	He	-0.316	ppb	N/A	568.01	0.0083	Pulse	0.5000	3
Zn	66	72	He	51838.863	ppb	1.1	8110477.17	117.8189	Analog	0.5000	3
As	75	72	He	5.327	ppb	5.4	762.69	0.0111	Pulse	0.5000	3
Sr	88	115	He	52.346	ppb	2.4	22589.93	0.4312	Pulse	0.1000	3
Mo	98	115	He	506.656	ppb	0.4	470202.16	8.9754	Pulse	0.1000	3
Ag	107	115	He	-0.026	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	0.041	ppb	13.1	11.33	0.0002	Pulse	0.5000	3
Sn	120	115	He	2.057	ppb	19.9	1930.18	0.0369	Pulse	0.1000	3
Sb	121	115	He	7.723	ppb	3.4	4893.04	0.0934	Pulse	0.3000	3
Ba	137	115	He	40.657	ppb	0.3	8329.24	0.1590	Pulse	0.1000	3
Tl	205	159	He	-0.052	ppb	N/A	70.00	0.0004	Pulse	0.1000	3
Pb	208	159	He	0.026	ppb	63.9	420.01	0.0022	Pulse	0.1000	3
U	238	159	He	0.460	ppb	1.1	2226.92	0.0114	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1654202.99	0.7	96.8	Analog	0.1000	3
No Gas	Ge	72	853928.69	0.7	98.8	Pulse	0.1000	3
H2	Sc	45	132716.74	1.9	99.3	Pulse	0.1000	3
H2	Ge	72	100781.79	1.1	101.7	Pulse	0.1000	3
H2	In	115	242238.44	0.3	94.4	Pulse	0.1000	3
He	Sc	45	39802.40	2.0	100.8	Pulse	0.1000	3
He	Ge	72	68844.44	1.2	101.1	Pulse	0.1000	3
He	In	115	52388.53	0.5	94.6	Pulse	0.1000	3
He	Tb	159	195366.65	0.8	95.4	Pulse	0.1000	3
He	Bi	209	143502.78	1.5	94.9	Pulse	0.1000	3

No Gas



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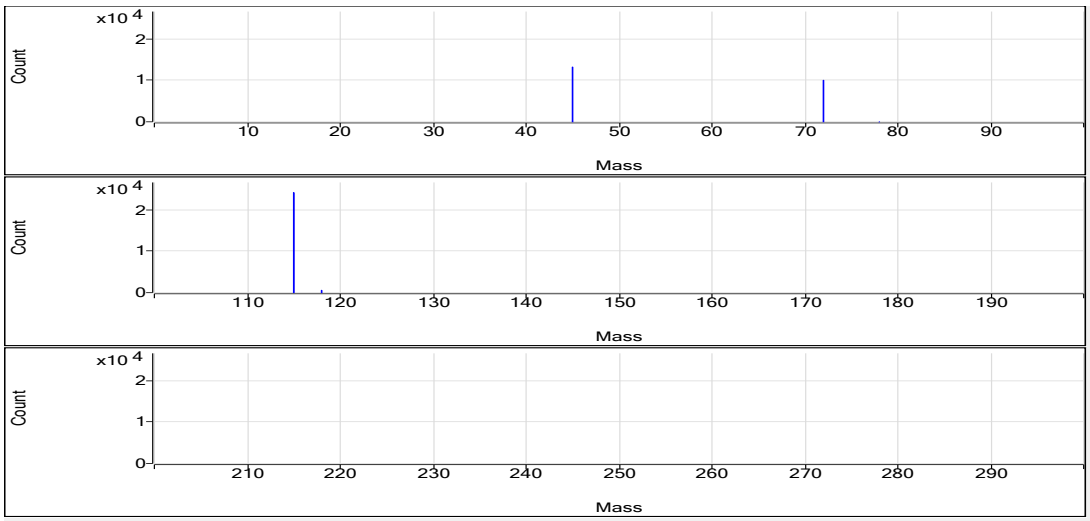
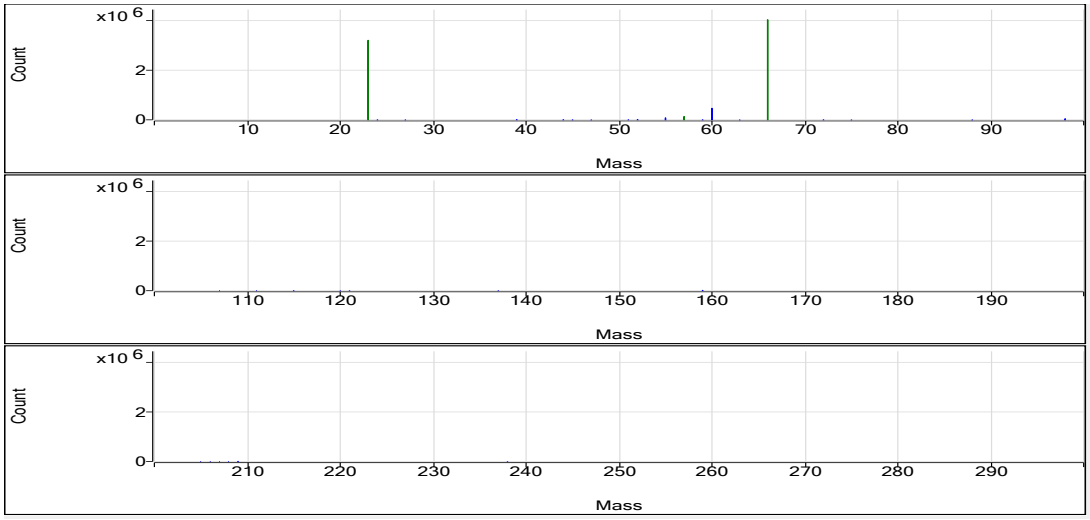


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.143	0.0001	122.00	0.0003	2.616E-05
Be	9	1	No Gas	0.133	0.0001	118.00	0.0003	2.616E-05
Be	9	1	No Gas	0.124	0.0001	112.00	0.0003	2.616E-05
Se	78	2	H2	-0.044	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.145	0	0.67	0.0004	6.3E-05
Se	78	2	H2	-0.059	0	4.00	0.0004	6.3E-05
Na	23	3	He	329546.56	822.2188	32055992.02	0.0025	0.7502
Na	23	3	He	325293.871	811.618	32366677.02	0.0025	0.7502
Na	23	3	He	319211.296	796.4558	32288964.52	0.0025	0.7502
Mg	24	3	He	993.862	1.2296	47939.61	0.0012	0.02618
Mg	24	3	He	996.689	1.233	49172.98	0.0012	0.02618
Mg	24	3	He	959.239	1.1877	48150.36	0.0012	0.02618
Al	27	3	He	1578.65	0.6006	23417.26	0.0004	0.005329
Al	27	3	He	1524.363	0.5802	23136.66	0.0004	0.005329
Al	27	3	He	1575.897	0.5996	24308.35	0.0004	0.005329
K	39	3	He	358.829	0.887	34580.14	0.001	0.5307
K	39	3	He	237.834	0.7668	30580.17	0.001	0.5307
K	39	3	He	201.291	0.7305	29616.44	0.001	0.5307
Ca	44	3	He	10664.142	0.5658	22058.79	0.0001	0.004441
Ca	44	3	He	10363.611	0.55	21932.61	0.0001	0.004441
Ca	44	3	He	10407.068	0.5523	22389.22	0.0001	0.004441
Ti	47	3	He	78.665	0.0326	1272.06	0.0004	0.0004559
Ti	47	3	He	76.145	0.0316	1260.06	0.0004	0.0004559
Ti	47	3	He	76.211	0.0316	1282.06	0.0004	0.0004559
V	51	3	He	15.465	0.2981	11622.17	0.0176	0.02609
V	51	3	He	15.317	0.2955	11784.26	0.0176	0.02609
V	51	3	He	14.723	0.285	11556.12	0.0176	0.02609
Cr	52	3	He	211.541	4.6463	181144.68	0.0217	0.05061
Cr	52	3	He	209.139	4.5941	183208.32	0.0217	0.05061
Cr	52	3	He	206.419	4.535	183852.56	0.0217	0.05061
Mn	55	3	He	460.948	4.212	164215.45	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	455.062	4.1584	165833.39	0.0091	0.01071
Mn	55	3	He	456.512	4.1716	169120.50	0.0091	0.01071
Fe	57	3	He	90825.312	36.2784	1414391.85	0.0004	0.008452
Fe	57	3	He	87582.833	34.9835	1395115.60	0.0004	0.008452
Fe	57	3	He	87625.155	35.0004	1418946.23	0.0004	0.008452
Co	59	3	He	7.335	0.3089	12042.49	0.0413	0.006013
Co	59	3	He	7.021	0.2959	11800.31	0.0413	0.006013
Co	59	3	He	6.983	0.2943	11932.40	0.0413	0.006013
Ni	60	3	He	2057.43	24.1765	942572.63	0.0117	0.01172
Ni	60	3	He	2009.127	23.6091	941514.00	0.0117	0.01172
Ni	60	3	He	1990.695	23.3927	948357.69	0.0117	0.01172
Cu	63	3	He	-0.338	0.0078	544.01	0.0196	0.01443
Cu	63	3	He	-0.33	0.008	550.01	0.0196	0.01443
Cu	63	3	He	-0.279	0.009	610.02	0.0196	0.01443
Zn	66	3	He	51293.622	116.5797	8112816.00	0.0023	0.002807
Zn	66	3	He	51802.532	117.7363	8121292.00	0.0023	0.002807
Zn	66	3	He	52420.435	119.1407	8097323.50	0.0023	0.002807
As	75	3	He	5.211	0.0109	756.02	0.0018	0.001271
As	75	3	He	5.658	0.0117	806.03	0.0018	0.001271
As	75	3	He	5.113	0.0107	726.02	0.0018	0.001271
Sr	88	3	He	53.739	0.4427	23077.34	0.0082	0.00114
Sr	88	3	He	51.965	0.4281	22546.50	0.0082	0.00114
Sr	88	3	He	51.333	0.4229	22145.95	0.0082	0.00114
Mo	98	3	He	508.183	9.0025	469319.45	0.0177	0.001504
Mo	98	3	He	504.251	8.9328	470466.44	0.0177	0.001504
Mo	98	3	He	507.534	8.991	470820.58	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	2.528	0.0428	2230.23	0.0126	0.01097
Sn	120	3	He	1.784	0.0334	1760.16	0.0126	0.01097
Sn	120	3	He	1.86	0.0344	1800.16	0.0126	0.01097
Sb	121	3	He	7.7	0.0931	4854.15	0.012	0.0003595
Sb	121	3	He	8	0.0967	5094.21	0.012	0.0003595
Sb	121	3	He	7.47	0.0903	4730.76	0.012	0.0003595
Ba	137	3	He	40.628	0.1589	8282.61	0.0039	0.0003633
Ba	137	3	He	40.798	0.1595	8402.59	0.0039	0.0003633
Ba	137	3	He	40.544	0.1585	8302.52	0.0039	0.0003633
Tl	205	3	He	-0.06	0.0002	40.00	0.0189	0.001334
Tl	205	3	He	-0.044	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.052	0.0004	70.00	0.0189	0.001334
Pb	208	3	He	0.027	0.0022	270.01	0.0252	0.001497
Pb	208	3	He	0.009	0.0017	170.01	0.0252	0.001497
Pb	208	3	He	0.042	0.0026	290.02	0.0252	0.001497
U	238	3	He	0.46	0.0114	2210.25	0.0245	0.0001141
U	238	3	He	0.465	0.0115	2270.27	0.0245	0.0001141
U	238	3	He	0.454	0.0113	2200.24	0.0245	0.0001141
Sc	45	1	No Gas			1643888.88		
Sc	45	1	No Gas			1665762.16		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1652957.94		
Ge	72	1	No Gas			847078.50		
Ge	72	1	No Gas			858382.49		
Ge	72	1	No Gas			856325.07		
Sc	45	2	H2			131976.62		
Sc	45	2	H2			135576.98		
Sc	45	2	H2			130596.63		
Ge	72	2	H2			102043.90		
Ge	72	2	H2			100381.81		
Ge	72	2	H2			99919.66		
In	115	2	H2			243099.20		
In	115	2	H2			241646.48		
In	115	2	H2			241969.63		
Sc	45	3	He			38987.18		
Sc	45	3	He			39879.20		
Sc	45	3	He			40540.81		
Ge	72	3	He			69590.29		
Ge	72	3	He			68978.64		
Ge	72	3	He			67964.40		
In	115	3	He			52147.94		
In	115	3	He			52679.58		
In	115	3	He			52378.61		
Tb	159	3	He			193911.42		
Tb	159	3	He			196979.84		
Tb	159	3	He			195208.69		
Bi	209	3	He			142257.65		
Bi	209	3	He			145932.86		
Bi	209	3	He			142317.84		

Quantitation Report

Data File Name	187SMPL.d
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Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

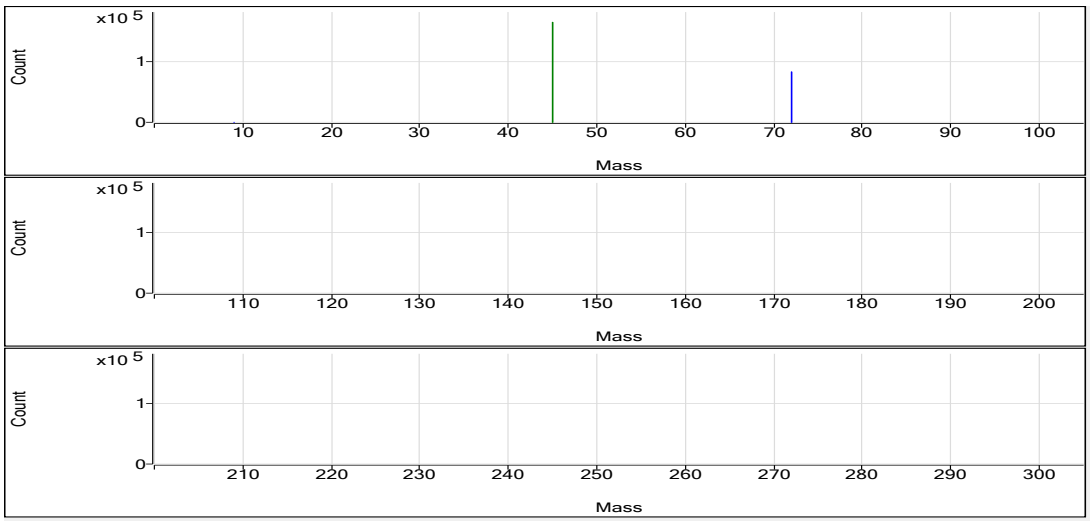
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.153	ppb	8.3	129.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	-0.089	ppb	N/A	2.89	0.0000	Pulse	1.5000	3
Na	23	45	He	319718.784	ppb	1.2	31406954.53	797.7209	Analog	0.1000	3
Mg	24	45	He	1483.771	ppb	4.2	71734.63	1.8228	Pulse	0.1000	3
Al	27	45	He	4332.122	ppb	1.4	64528.79	1.6390	Pulse	0.1000	3
K	39	45	He	1330.265	ppb	7.0	72874.09	1.8516	Pulse	0.5000	3
Ca	44	45	He	27818.901	ppb	2.4	57818.10	1.4688	Pulse	0.5000	3
Ti	47	45	He	194.720	ppb	3.4	3152.32	0.0801	Pulse	0.5000	3
V	51	45	He	19.190	ppb	2.8	14312.95	0.3636	Pulse	0.5000	3
Cr	52	45	He	391.521	ppb	2.5	336806.78	8.5563	Pulse	0.1000	3
Mn	55	45	He	261.925	ppb	2.3	94398.10	2.3980	Pulse	0.5000	3
Fe	57	45	He	16934.635	ppb	3.1	266508.15	6.7711	Pulse	0.1000	3
Co	59	45	He	12.244	ppb	3.0	20135.80	0.5116	Pulse	0.5000	3
Ni	60	45	He	467.590	ppb	2.1	216653.73	5.5036	Pulse	0.5000	3
Cu	63	72	He	7.942	ppb	1.4	11333.32	0.1698	Pulse	0.5000	3
Zn	66	72	He	269.236	ppb	1.0	41031.69	0.6147	Pulse	0.5000	3
As	75	72	He	3.017	ppb	19.1	455.34	0.0068	Pulse	0.5000	3
Sr	88	115	He	46.031	ppb	1.6	20186.83	0.3793	Pulse	0.1000	3
Mo	98	115	He	25.247	ppb	0.9	23878.67	0.4487	Pulse	0.1000	3
Ag	107	115	He	-0.024	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Cd	111	115	He	0.147	ppb	18.1	34.67	0.0007	Pulse	0.5000	3
Sn	120	115	He	1.322	ppb	23.7	1470.12	0.0276	Pulse	0.1000	3
Sb	121	115	He	0.698	ppb	8.0	466.68	0.0088	Pulse	0.3000	3
Ba	137	115	He	7.982	ppb	4.1	1676.81	0.0315	Pulse	0.1000	3
Tl	205	159	He	-0.045	ppb	N/A	96.67	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.070	ppb	32.8	640.03	0.0033	Pulse	0.1000	3
U	238	159	He	0.887	ppb	6.8	4304.13	0.0219	Pulse	0.1000	3

ISTD Table:

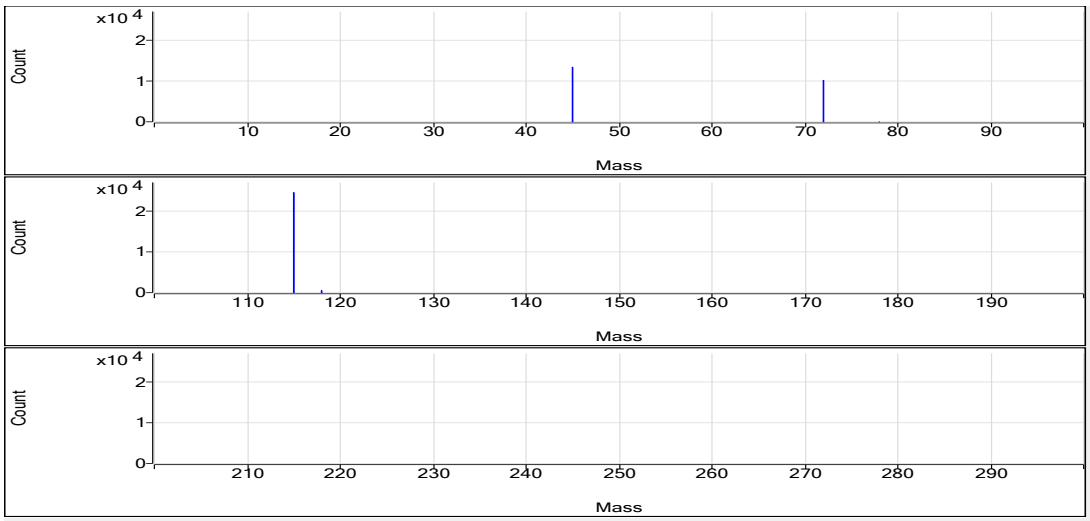
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1663986.80	1.0	97.4	Analog	0.1000	3
No Gas	Ge	72	839626.16	2.4	97.2	Pulse	0.1000	3
H2	Sc	45	134181.64	0.3	100.4	Pulse	0.1000	3
H2	Ge	72	101670.12	0.5	102.6	Pulse	0.1000	3
H2	In	115	245277.41	1.5	95.6	Pulse	0.1000	3
He	Sc	45	39377.83	2.3	99.8	Pulse	0.1000	3
He	Ge	72	66748.96	0.8	98.0	Pulse	0.1000	3
He	In	115	53221.20	1.1	96.1	Pulse	0.1000	3
He	Tb	159	196475.27	1.9	95.9	Pulse	0.1000	3
He	Bi	209	145421.47	0.1	96.1	Pulse	0.1000	3

No Gas

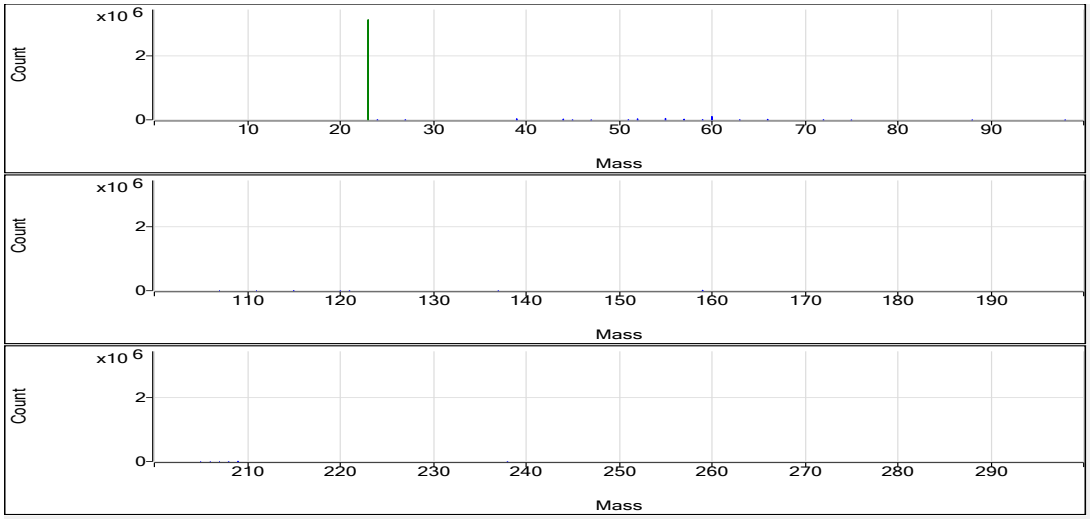


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.139	0.0001	120.00	0.0003	2.616E-05
Be	9	1	No Gas	0.159	0.0001	134.00	0.0003	2.616E-05
Be	9	1	No Gas	0.162	0.0001	134.00	0.0003	2.616E-05
Se	78	2	H2	-0.094	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.078	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.095	0	2.67	0.0004	6.3E-05
Na	23	3	He	321375.734	801.8512	31277857.03	0.0025	0.7502
Na	23	3	He	315399.231	786.9534	31785347.03	0.0025	0.7502
Na	23	3	He	322381.388	804.358	31157659.54	0.0025	0.7502
Mg	24	3	He	1505.209	1.8488	72116.33	0.0012	0.02618
Mg	24	3	He	1412.871	1.737	70157.77	0.0012	0.02618
Mg	24	3	He	1533.234	1.8827	72929.79	0.0012	0.02618
Al	27	3	He	4309.016	1.6303	63591.82	0.0004	0.005329
Al	27	3	He	4284.879	1.6212	65479.37	0.0004	0.005329
Al	27	3	He	4402.472	1.6655	64515.17	0.0004	0.005329
K	39	3	He	1431.637	1.9522	76149.92	0.001	0.5307
K	39	3	He	1247.892	1.7698	71481.25	0.001	0.5307
K	39	3	He	1311.267	1.8327	70991.10	0.001	0.5307
Ca	44	3	He	28070.526	1.4821	57810.78	0.0001	0.004441
Ca	44	3	He	27067.463	1.4293	57728.30	0.0001	0.004441
Ca	44	3	He	28318.715	1.4951	57915.21	0.0001	0.004441
Ti	47	3	He	200.376	0.0824	3214.33	0.0004	0.0004559
Ti	47	3	He	187.3	0.0771	3112.32	0.0004	0.0004559
Ti	47	3	He	196.483	0.0808	3130.32	0.0004	0.0004559
V	51	3	He	19.281	0.3652	14246.22	0.0176	0.02609
V	51	3	He	18.604	0.3533	14270.24	0.0176	0.02609
V	51	3	He	19.685	0.3723	14422.38	0.0176	0.02609
Cr	52	3	He	398.446	8.7067	339623.24	0.0217	0.05061
Cr	52	3	He	380.339	8.3134	335779.41	0.0217	0.05061
Cr	52	3	He	395.777	8.6487	335017.69	0.0217	0.05061
Mn	55	3	He	262.323	2.4017	93681.95	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	255.599	2.3404	94528.87	0.0091	0.01071
Mn	55	3	He	267.853	2.4521	94983.49	0.0091	0.01071
Fe	57	3	He	17231.161	6.8895	268739.02	0.0004	0.008452
Fe	57	3	He	16330.142	6.5297	263736.52	0.0004	0.008452
Fe	57	3	He	17242.601	6.8941	267048.92	0.0004	0.008452
Co	59	3	He	12.281	0.5131	20014.31	0.0413	0.006013
Co	59	3	He	11.856	0.4955	20014.33	0.0413	0.006013
Co	59	3	He	12.596	0.5261	20378.75	0.0413	0.006013
Ni	60	3	He	470.821	5.5416	216160.14	0.0117	0.01172
Ni	60	3	He	456.752	5.3763	217151.84	0.0117	0.01172
Ni	60	3	He	475.197	5.593	216649.22	0.0117	0.01172
Cu	63	3	He	7.818	0.1674	11237.91	0.0196	0.01443
Cu	63	3	He	8.012	0.1712	11460.08	0.0196	0.01443
Cu	63	3	He	7.995	0.1708	11301.96	0.0196	0.01443
Zn	66	3	He	271.904	0.6208	41679.32	0.0023	0.002807
Zn	66	3	He	266.767	0.6091	40779.02	0.0023	0.002807
Zn	66	3	He	269.036	0.6143	40636.73	0.0023	0.002807
As	75	3	He	2.368	0.0056	378.01	0.0018	0.001271
As	75	3	He	3.464	0.0076	512.01	0.0018	0.001271
As	75	3	He	3.218	0.0072	476.01	0.0018	0.001271
Sr	88	3	He	46.767	0.3854	20263.59	0.0082	0.00114
Sr	88	3	He	46.026	0.3793	20273.54	0.0082	0.00114
Sr	88	3	He	45.301	0.3733	20023.36	0.0082	0.00114
Mo	98	3	He	25.458	0.4524	23788.49	0.0177	0.001504
Mo	98	3	He	25.011	0.4445	23758.46	0.0177	0.001504
Mo	98	3	He	25.273	0.4491	24089.06	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0007	40.00	0.0368	0.001325
Cd	111	3	He	0.118	0.0005	28.00	0.0041	4.798E-05
Cd	111	3	He	0.171	0.0007	40.00	0.0041	4.798E-05
Cd	111	3	He	0.152	0.0007	36.00	0.0041	4.798E-05
Sn	120	3	He	1.063	0.0243	1280.10	0.0126	0.01097
Sn	120	3	He	1.671	0.032	1710.16	0.0126	0.01097
Sn	120	3	He	1.232	0.0265	1420.11	0.0126	0.01097
Sb	121	3	He	0.702	0.0088	463.35	0.012	0.0003595
Sb	121	3	He	0.752	0.0094	503.35	0.012	0.0003595
Sb	121	3	He	0.641	0.0081	433.34	0.012	0.0003595
Ba	137	3	He	8.048	0.0318	1670.15	0.0039	0.0003633
Ba	137	3	He	7.628	0.0301	1610.14	0.0039	0.0003633
Ba	137	3	He	8.271	0.0326	1750.15	0.0039	0.0003633
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.039	0.0006	120.01	0.0189	0.001334
Tl	205	3	He	-0.046	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	0.082	0.0036	250.01	0.0252	0.001497
Pb	208	3	He	0.044	0.0026	220.01	0.0252	0.001497
Pb	208	3	He	0.085	0.0036	350.02	0.0252	0.001497
U	238	3	He	0.897	0.0221	4350.80	0.0245	0.0001141
U	238	3	He	0.941	0.0232	4650.92	0.0245	0.0001141
U	238	3	He	0.822	0.0203	3910.68	0.0245	0.0001141
Sc	45	1	No Gas			1648665.13		
Sc	45	1	No Gas			1682288.10		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1661007.16		
Ge	72	1	No Gas			819343.89		
Ge	72	1	No Gas			858888.97		
Ge	72	1	No Gas			840645.61		
Sc	45	2	H2			134497.05		
Sc	45	2	H2			133752.32		
Sc	45	2	H2			134295.55		
Ge	72	2	H2			101127.77		
Ge	72	2	H2			101719.54		
Ge	72	2	H2			102163.04		
In	115	2	H2			249652.09		
In	115	2	H2			243301.17		
In	115	2	H2			242878.98		
Sc	45	3	He			39007.06		
Sc	45	3	He			40390.38		
Sc	45	3	He			38736.06		
Ge	72	3	He			67140.88		
Ge	72	3	He			66949.89		
Ge	72	3	He			66156.11		
In	115	3	He			52589.08		
In	115	3	He			53462.29		
In	115	3	He			53643.09		
Tb	159	3	He			196521.33		
Tb	159	3	He			200251.23		
Tb	159	3	He			192653.26		
Bi	209	3	He			145610.60		
Bi	209	3	He			145386.59		
Bi	209	3	He			145267.22		

Quantitation Report

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Sample Name	410-227884-E-1-G
Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

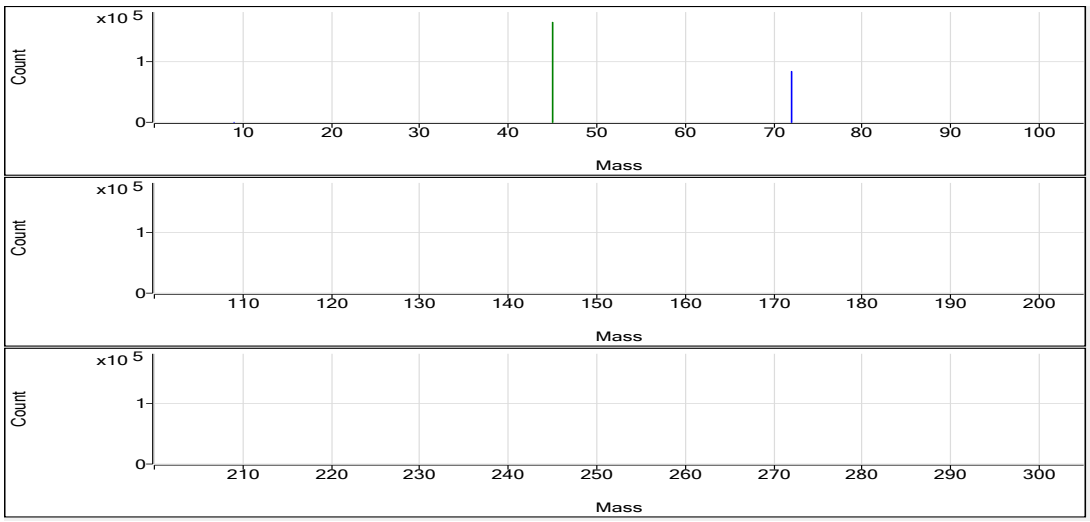
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.016	ppb	47.4	52.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.065	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	338778.223	ppb	0.9	32559319.52	845.2308	Analog	0.1000	3
Mg	24	45	He	467.376	ppb	0.8	22809.50	0.5921	Pulse	0.1000	3
Al	27	45	He	660.162	ppb	4.4	9796.51	0.2543	Pulse	0.1000	3
K	39	45	He	138.984	ppb	53.5	25757.54	0.6687	Pulse	0.5000	3
Ca	44	45	He	4261.268	ppb	1.6	8812.39	0.2288	Pulse	0.5000	3
Ti	47	45	He	69.122	ppb	3.7	1106.71	0.0287	Pulse	0.5000	3
V	51	45	He	3.587	ppb	3.1	3435.71	0.0892	Pulse	0.5000	3
Cr	52	45	He	155.618	ppb	0.7	132181.50	3.4314	Pulse	0.1000	3
Mn	55	45	He	82.251	ppb	0.9	29291.55	0.7604	Pulse	0.5000	3
Fe	57	45	He	4260.648	ppb	0.7	65867.42	1.7099	Pulse	0.1000	3
Co	59	45	He	1.527	ppb	1.4	2660.23	0.0691	Pulse	0.5000	3
Ni	60	45	He	6.991	ppb	5.7	3613.75	0.0938	Pulse	0.5000	3
Cu	63	72	He	6.680	ppb	2.1	9760.31	0.1451	Pulse	0.5000	3
Zn	66	72	He	6942.989	ppb	1.3	1061621.42	15.7824	Pulse	0.5000	3
As	75	72	He	3.034	ppb	8.7	461.34	0.0069	Pulse	0.5000	3
Sr	88	115	He	28.358	ppb	3.7	12265.09	0.2341	Pulse	0.1000	3
Mo	98	115	He	1.621	ppb	10.0	1583.46	0.0302	Pulse	0.1000	3
Ag	107	115	He	-0.026	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	0.876	ppb	6.4	190.67	0.0036	Pulse	0.5000	3
Sn	120	115	He	0.687	ppb	19.8	1026.73	0.0196	Pulse	0.1000	3
Sb	121	115	He	35.250	ppb	1.3	22260.47	0.4250	Pulse	0.3000	3
Ba	137	115	He	80.959	ppb	2.2	16562.74	0.3162	Pulse	0.1000	3
Tl	205	159	He	-0.041	ppb	N/A	106.67	0.0005	Pulse	0.1000	3
Pb	208	159	He	724.602	ppb	0.8	3537613.83	18.2305	Analog	0.1000	3
U	238	159	He	0.265	ppb	7.3	1286.77	0.0066	Pulse	0.1000	3

ISTD Table:

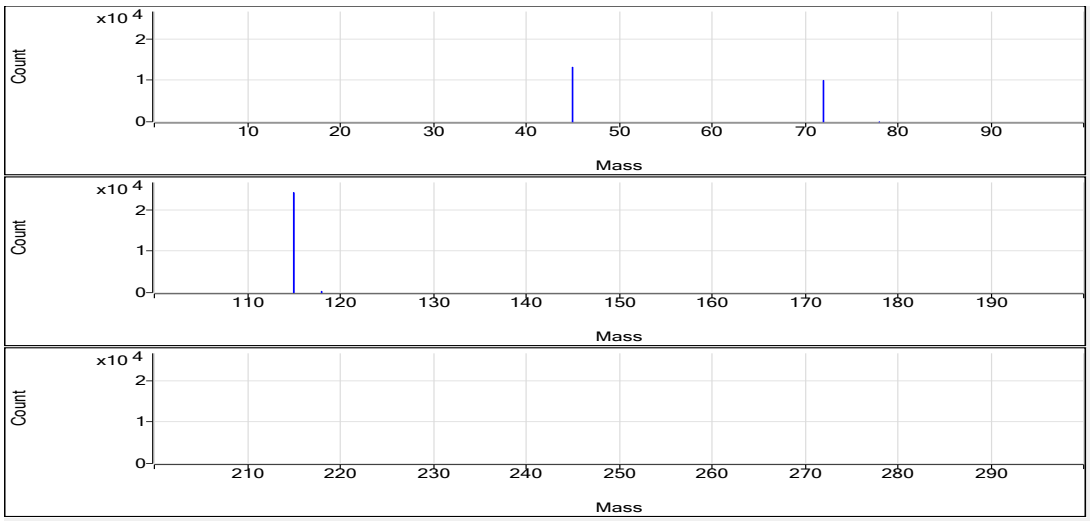
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1653500.76	1.4	96.8	Analog	0.1000	3
No Gas	Ge	72	841511.94	0.3	97.4	Pulse	0.1000	3
H2	Sc	45	132384.21	0.5	99.1	Pulse	0.1000	3
H2	Ge	72	100244.89	0.5	101.2	Pulse	0.1000	3
H2	In	115	242207.59	0.6	94.4	Pulse	0.1000	3
He	Sc	45	38522.61	0.6	97.6	Pulse	0.1000	3
He	Ge	72	67274.16	1.4	98.8	Pulse	0.1000	3
He	In	115	52385.04	1.3	94.5	Pulse	0.1000	3
He	Tb	159	194052.18	0.4	94.8	Pulse	0.1000	3
He	Bi	209	143728.96	1.1	95.0	Pulse	0.1000	3

No Gas

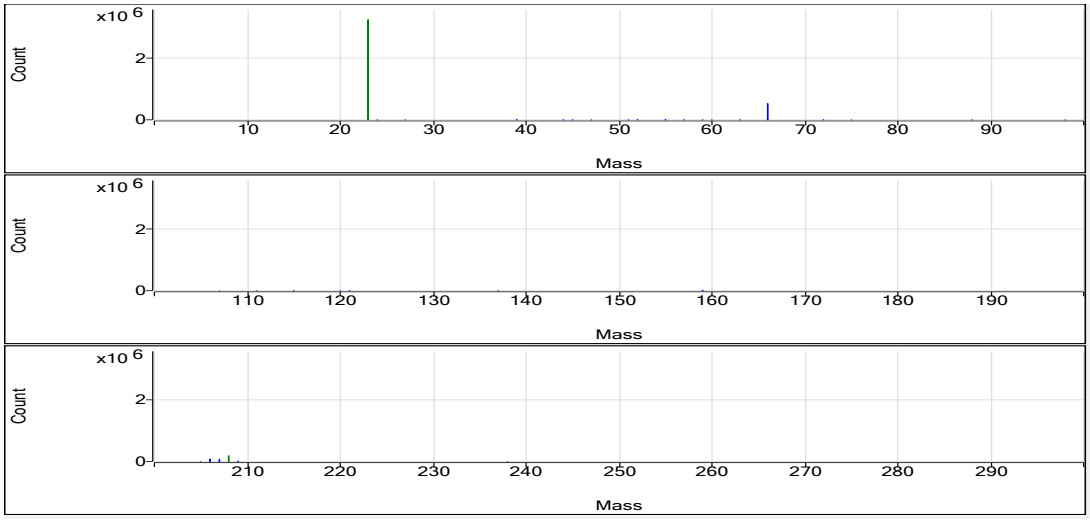


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.024	0	56.00	0.0003	2.616E-05
Be	9	1	No Gas	0.011	0	50.00	0.0003	2.616E-05
Be	9	1	No Gas	0.012	0	50.00	0.0003	2.616E-05
Se	78	2	H2	-0.111	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.077	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.008	0.0001	6.00	0.0004	6.3E-05
Na	23	3	He	337842.829	842.8991	32481799.52	0.0025	0.7502
Na	23	3	He	342141.11	853.6135	32672339.51	0.0025	0.7502
Na	23	3	He	336350.731	839.1797	32523819.52	0.0025	0.7502
Mg	24	3	He	471.422	0.597	23006.47	0.0012	0.02618
Mg	24	3	He	467.212	0.5919	22655.84	0.0012	0.02618
Mg	24	3	He	463.492	0.5874	22766.20	0.0012	0.02618
Al	27	3	He	687.324	0.2645	10193.49	0.0004	0.005329
Al	27	3	He	629.7	0.2428	9292.87	0.0004	0.005329
Al	27	3	He	663.461	0.2555	9903.16	0.0004	0.005329
K	39	3	He	223.811	0.7529	29013.46	0.001	0.5307
K	39	3	He	107.792	0.6377	24407.97	0.001	0.5307
K	39	3	He	85.348	0.6154	23851.18	0.001	0.5307
Ca	44	3	He	4193.824	0.2252	8678.33	0.0001	0.004441
Ca	44	3	He	4259.683	0.2287	8752.36	0.0001	0.004441
Ca	44	3	He	4330.296	0.2324	9006.49	0.0001	0.004441
Ti	47	3	He	70.208	0.0292	1124.04	0.0004	0.0004559
Ti	47	3	He	66.221	0.0275	1054.04	0.0004	0.0004559
Ti	47	3	He	70.937	0.0295	1142.05	0.0004	0.0004559
V	51	3	He	3.696	0.0911	3510.40	0.0176	0.02609
V	51	3	He	3.591	0.0893	3416.38	0.0176	0.02609
V	51	3	He	3.475	0.0872	3380.36	0.0176	0.02609
Cr	52	3	He	155.331	3.4251	131989.87	0.0217	0.05061
Cr	52	3	He	156.754	3.456	132281.26	0.0217	0.05061
Cr	52	3	He	154.769	3.4129	132273.38	0.0217	0.05061
Mn	55	3	He	82.736	0.7648	29472.51	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	82.572	0.7633	29216.05	0.0091	0.01071
Mn	55	3	He	81.447	0.7531	29186.08	0.0091	0.01071
Fe	57	3	He	4247.724	1.7047	65693.03	0.0004	0.008452
Fe	57	3	He	4296.524	1.7242	65994.87	0.0004	0.008452
Fe	57	3	He	4237.696	1.7007	65914.35	0.0004	0.008452
Co	59	3	He	1.551	0.0701	2700.24	0.0413	0.006013
Co	59	3	He	1.512	0.0685	2620.23	0.0413	0.006013
Co	59	3	He	1.517	0.0686	2660.23	0.0413	0.006013
Ni	60	3	He	7.324	0.0977	3766.45	0.0117	0.01172
Ni	60	3	He	7.096	0.0951	3638.43	0.0117	0.01172
Ni	60	3	He	6.552	0.0887	3436.38	0.0117	0.01172
Cu	63	3	He	6.753	0.1465	9714.96	0.0196	0.01443
Cu	63	3	He	6.52	0.142	9668.92	0.0196	0.01443
Cu	63	3	He	6.766	0.1468	9897.04	0.0196	0.01443
Zn	66	3	He	7031.919	15.9845	1059722.00	0.0023	0.002807
Zn	66	3	He	6846.056	15.5621	1059844.75	0.0023	0.002807
Zn	66	3	He	6950.99	15.8006	1065297.50	0.0023	0.002807
As	75	3	He	2.85	0.0065	432.01	0.0018	0.001271
As	75	3	He	2.915	0.0066	452.01	0.0018	0.001271
As	75	3	He	3.338	0.0074	500.01	0.0018	0.001271
Sr	88	3	He	29.405	0.2427	12605.37	0.0082	0.00114
Sr	88	3	He	27.283	0.2253	11724.70	0.0082	0.00114
Sr	88	3	He	28.387	0.2344	12465.21	0.0082	0.00114
Mo	98	3	He	1.72	0.032	1660.15	0.0177	0.001504
Mo	98	3	He	1.434	0.0269	1400.10	0.0177	0.001504
Mo	98	3	He	1.709	0.0318	1690.14	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.824	0.0034	178.00	0.0041	4.798E-05
Cd	111	3	He	0.935	0.0039	202.00	0.0041	4.798E-05
Cd	111	3	He	0.868	0.0036	192.00	0.0041	4.798E-05
Sn	120	3	He	0.644	0.0191	990.06	0.0126	0.01097
Sn	120	3	He	0.839	0.0215	1120.08	0.0126	0.01097
Sn	120	3	He	0.578	0.0182	970.06	0.0126	0.01097
Sb	121	3	He	35.762	0.4311	22389.53	0.012	0.0003595
Sb	121	3	He	35.08	0.4229	22009.01	0.012	0.0003595
Sb	121	3	He	34.907	0.4208	22382.88	0.012	0.0003595
Ba	137	3	He	81.983	0.3202	16629.45	0.0039	0.0003633
Ba	137	3	He	81.958	0.3201	16659.60	0.0039	0.0003633
Ba	137	3	He	78.937	0.3083	16399.17	0.0039	0.0003633
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.041	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	731.287	18.3987	1939184.35	0.0252	0.001497
Pb	208	3	He	721.104	18.1425	1894083.88	0.0252	0.001497
Pb	208	3	He	721.415	18.1503	1906155.13	0.0252	0.001497
U	238	3	He	0.286	0.0071	1380.11	0.0245	0.0001141
U	238	3	He	0.247	0.0062	1200.09	0.0245	0.0001141
U	238	3	He	0.263	0.0066	1280.10	0.0245	0.0001141
Sc	45	1	No Gas			1629219.51		
Sc	45	1	No Gas			1674693.73		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1656589.04		
Ge	72	1	No Gas			838673.50		
Ge	72	1	No Gas			843557.72		
Ge	72	1	No Gas			842304.60		
Sc	45	2	H2			132805.46		
Sc	45	2	H2			132764.01		
Sc	45	2	H2			131583.17		
Ge	72	2	H2			99718.16		
Ge	72	2	H2			100653.76		
Ge	72	2	H2			100362.75		
In	115	2	H2			243002.48		
In	115	2	H2			240439.39		
In	115	2	H2			243180.89		
Sc	45	3	He			38535.81		
Sc	45	3	He			38275.33		
Sc	45	3	He			38756.68		
Ge	72	3	He			66296.81		
Ge	72	3	He			68104.26		
Ge	72	3	He			67421.42		
In	115	3	He			51937.26		
In	115	3	He			52047.65		
In	115	3	He			53191.76		
Tb	159	3	He			193413.84		
Tb	159	3	He			193961.07		
Tb	159	3	He			194781.62		
Bi	209	3	He			143065.24		
Bi	209	3	He			142581.02		
Bi	209	3	He			145540.63		

Quantitation Report

Data File Name	189SMPL.d
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Sample Type	Sample
Comment	MS B7
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

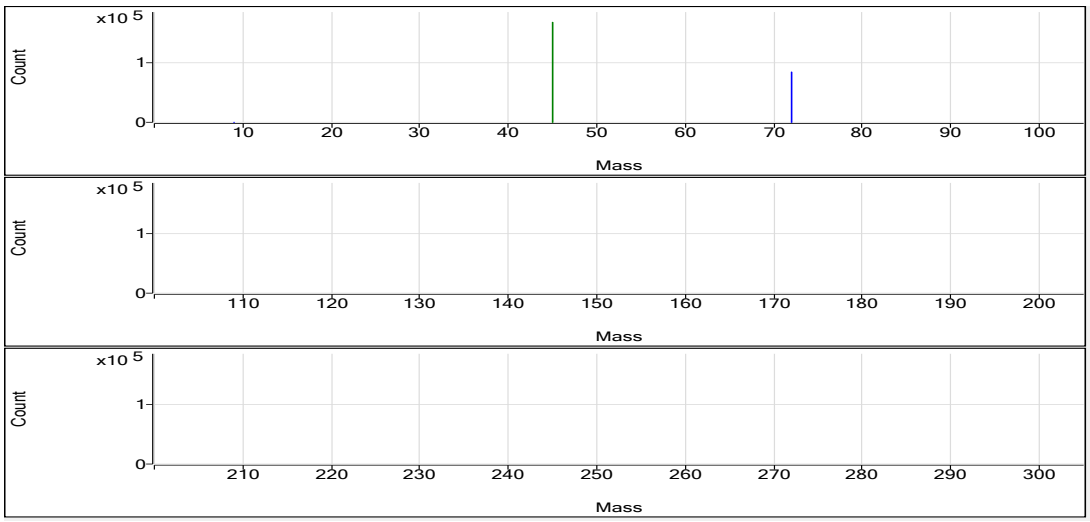
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.903	ppb	6.6	552.01	0.0003	Pulse	0.5000	3
Se	78	72	H2	0.149	ppb	9.4	12.22	0.0001	Pulse	1.5000	3
Na	23	45	He	322885.416	ppb	2.4	32600109.51	805.6144	Analog	0.1000	3
Mg	24	45	He	2801.926	ppb	2.4	138357.25	3.4190	Pulse	0.1000	3
Al	27	45	He	31770.769	ppb	1.6	485094.06	11.9861	Pulse	0.1000	3
K	39	45	He	1277.894	ppb	4.8	72851.96	1.7996	Pulse	0.5000	3
Ca	44	45	He	79155.116	ppb	2.6	168785.35	4.1711	Pulse	0.5000	3
Ti	47	45	He	643.967	ppb	5.1	10671.52	0.2638	Pulse	0.5000	3
V	51	45	He	124.971	ppb	2.0	90008.99	2.2241	Pulse	0.5000	3
Cr	52	45	He	169.672	ppb	3.0	151197.11	3.7367	Pulse	0.1000	3
Mn	55	45	He	381.012	ppb	2.7	140955.89	3.4835	Pulse	0.5000	3
Fe	57	45	He	9724.838	ppb	3.2	157473.45	3.8919	Pulse	0.1000	3
Co	59	45	He	4.807	ppb	2.8	8274.81	0.2045	Pulse	0.5000	3
Ni	60	45	He	78.580	ppb	2.5	37821.09	0.9346	Pulse	0.5000	3
Cu	63	72	He	49.541	ppb	2.6	66775.59	0.9836	Pulse	0.5000	3
Zn	66	72	He	606.466	ppb	2.3	93772.24	1.3811	Pulse	0.5000	3
As	75	72	He	30.450	ppb	5.7	3889.83	0.0573	Pulse	0.5000	3
Sr	88	115	He	54.877	ppb	1.9	23771.83	0.4520	Pulse	0.1000	3
Mo	98	115	He	20.971	ppb	1.4	19615.97	0.3730	Pulse	0.1000	3
Ag	107	115	He	-0.010	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Cd	111	115	He	0.725	ppb	20.3	158.67	0.0030	Pulse	0.5000	3
Sn	120	115	He	1.658	ppb	11.2	1673.48	0.0318	Pulse	0.1000	3
Sb	121	115	He	1.759	ppb	4.2	1133.39	0.0215	Pulse	0.3000	3
Ba	137	115	He	38.824	ppb	3.2	7985.65	0.1518	Pulse	0.1000	3
Tl	205	159	He	-0.034	ppb	N/A	136.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	15.224	ppb	0.5	75648.74	0.3845	Pulse	0.1000	3
U	238	159	He	2.976	ppb	3.2	14397.71	0.0732	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1672881.49	0.2	97.9	Analog	0.1000	3
No Gas	Ge	72	841710.46	0.5	97.4	Pulse	0.1000	3
H2	Sc	45	135895.30	1.4	101.7	Pulse	0.1000	3
H2	Ge	72	101110.43	1.3	102.1	Pulse	0.1000	3
H2	In	115	245529.10	0.3	95.7	Pulse	0.1000	3
He	Sc	45	40480.89	2.3	102.6	Pulse	0.1000	3
He	Ge	72	67920.76	2.5	99.7	Pulse	0.1000	3
He	In	115	52597.82	1.2	94.9	Pulse	0.1000	3
He	Tb	159	196759.98	0.8	96.1	Pulse	0.1000	3
He	Bi	209	145086.46	0.8	95.9	Pulse	0.1000	3

No Gas



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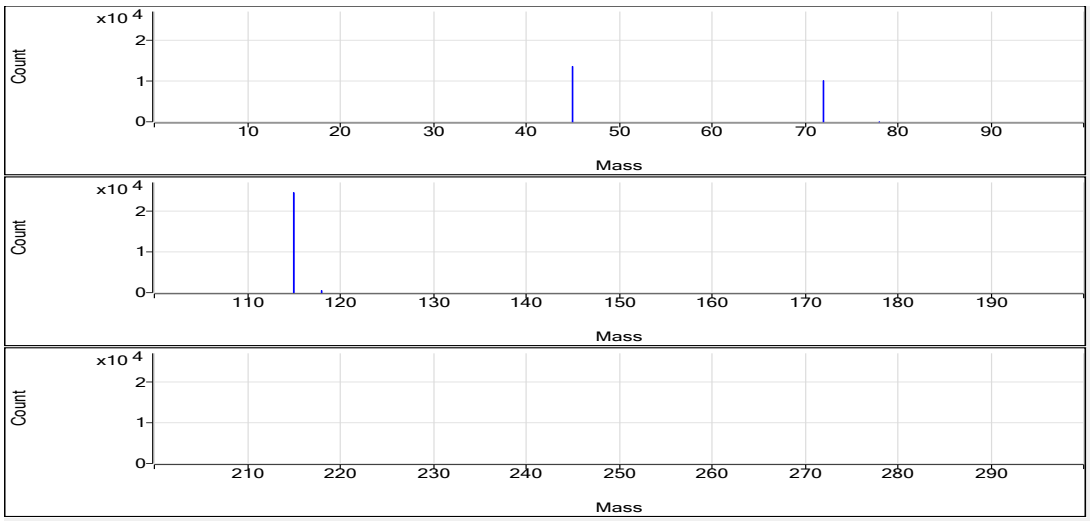
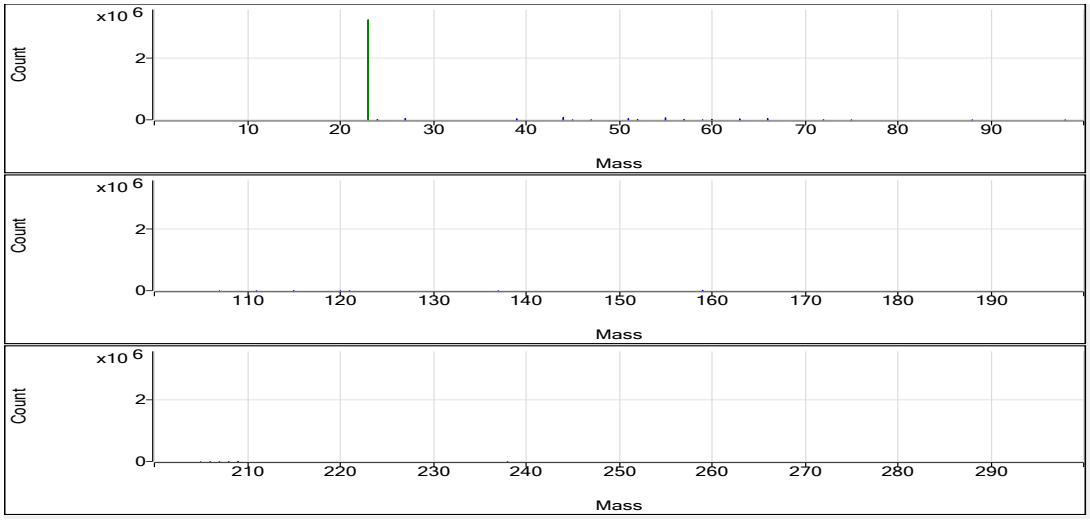


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.89	0.0003	546.01	0.0003	2.616E-05
Be	9	1	No Gas	0.967	0.0004	588.01	0.0003	2.616E-05
Be	9	1	No Gas	0.851	0.0003	522.01	0.0003	2.616E-05
Se	78	2	H2	0.14	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.142	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.166	0.0001	12.67	0.0004	6.3E-05
Na	23	3	He	319029.619	796.003	32558224.51	0.0025	0.7502
Na	23	3	He	317855.86	793.0771	32613337.01	0.0025	0.7502
Na	23	3	He	331770.768	827.7631	32628767.01	0.0025	0.7502
Mg	24	3	He	2747.168	3.3527	137130.92	0.0012	0.02618
Mg	24	3	He	2783.56	3.3967	139681.95	0.0012	0.02618
Mg	24	3	He	2875.048	3.5075	138258.88	0.0012	0.02618
Al	27	3	He	31425.2	11.8558	484928.00	0.0004	0.005329
Al	27	3	He	31535.319	11.8973	489248.55	0.0004	0.005329
Al	27	3	He	32351.786	12.2052	481105.62	0.0004	0.005329
K	39	3	He	1346.179	1.8674	76378.77	0.001	0.5307
K	39	3	He	1226.538	1.7486	71905.05	0.001	0.5307
K	39	3	He	1260.965	1.7827	70272.05	0.001	0.5307
Ca	44	3	He	78706.737	4.1475	169642.63	0.0001	0.004441
Ca	44	3	He	77353.143	4.0763	167626.61	0.0001	0.004441
Ca	44	3	He	81405.468	4.2896	169086.83	0.0001	0.004441
Ti	47	3	He	636.598	0.2608	10667.51	0.0004	0.0004559
Ti	47	3	He	615.451	0.2522	10369.34	0.0004	0.0004559
Ti	47	3	He	679.851	0.2785	10977.70	0.0004	0.0004559
V	51	3	He	124.462	2.2152	90606.17	0.0176	0.02609
V	51	3	He	122.787	2.1857	89882.47	0.0176	0.02609
V	51	3	He	127.664	2.2715	89538.32	0.0176	0.02609
Cr	52	3	He	167.594	3.6915	150991.22	0.0217	0.05061
Cr	52	3	He	166.04	3.6578	150416.51	0.0217	0.05061
Cr	52	3	He	175.384	3.8608	152183.59	0.0217	0.05061
Mn	55	3	He	377.893	3.455	141318.30	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	372.563	3.4064	140081.84	0.0091	0.01071
Mn	55	3	He	392.581	3.5889	141467.53	0.0091	0.01071
Fe	57	3	He	9534.169	3.8158	156074.43	0.0004	0.008452
Fe	57	3	He	9556.587	3.8248	157283.55	0.0004	0.008452
Fe	57	3	He	10083.757	4.0353	159062.36	0.0004	0.008452
Co	59	3	He	4.704	0.2002	8190.09	0.0413	0.006013
Co	59	3	He	4.756	0.2024	8322.17	0.0413	0.006013
Co	59	3	He	4.962	0.2109	8312.16	0.0413	0.006013
Ni	60	3	He	77.64	0.9236	37777.66	0.0117	0.01172
Ni	60	3	He	77.26	0.9191	37797.72	0.0117	0.01172
Ni	60	3	He	80.839	0.9612	37887.88	0.0117	0.01172
Cu	63	3	He	49.77	0.988	66655.77	0.0196	0.01443
Cu	63	3	He	50.702	1.0063	66884.72	0.0196	0.01443
Cu	63	3	He	48.152	0.9564	66786.27	0.0196	0.01443
Zn	66	3	He	613.952	1.3982	94324.16	0.0023	0.002807
Zn	66	3	He	615.391	1.4014	93149.41	0.0023	0.002807
Zn	66	3	He	590.055	1.3438	93843.16	0.0023	0.002807
As	75	3	He	31.444	0.0592	3990.52	0.0018	0.001271
As	75	3	He	31.451	0.0592	3932.51	0.0018	0.001271
As	75	3	He	28.455	0.0536	3746.45	0.0018	0.001271
Sr	88	3	He	53.874	0.4438	23538.10	0.0082	0.00114
Sr	88	3	He	54.755	0.451	23858.73	0.0082	0.00114
Sr	88	3	He	56.002	0.4613	23918.67	0.0082	0.00114
Mo	98	3	He	21.197	0.3769	19993.05	0.0177	0.001504
Mo	98	3	He	20.644	0.3672	19422.45	0.0177	0.001504
Mo	98	3	He	21.073	0.3747	19432.42	0.0177	0.001504
Ag	107	3	He	-0.01	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Cd	111	3	He	0.724	0.003	160.00	0.0041	4.798E-05
Cd	111	3	He	0.578	0.0024	128.00	0.0041	4.798E-05
Cd	111	3	He	0.872	0.0036	188.00	0.0041	4.798E-05
Sn	120	3	He	1.556	0.0305	1620.14	0.0126	0.01097
Sn	120	3	He	1.547	0.0304	1610.13	0.0126	0.01097
Sn	120	3	He	1.872	0.0345	1790.16	0.0126	0.01097
Sb	121	3	He	1.817	0.0222	1180.06	0.012	0.0003595
Sb	121	3	He	1.676	0.0205	1086.72	0.012	0.0003595
Sb	121	3	He	1.785	0.0219	1133.39	0.012	0.0003595
Ba	137	3	He	39.592	0.1548	8212.44	0.0039	0.0003633
Ba	137	3	He	37.37	0.1462	7732.17	0.0039	0.0003633
Ba	137	3	He	39.51	0.1545	8012.35	0.0039	0.0003633
Tl	205	3	He	-0.036	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.038	0.0006	120.00	0.0189	0.001334
Tl	205	3	He	-0.027	0.0008	160.01	0.0189	0.001334
Pb	208	3	He	15.187	0.3836	40908.07	0.0252	0.001497
Pb	208	3	He	15.166	0.383	39674.41	0.0252	0.001497
Pb	208	3	He	15.319	0.3869	39855.36	0.0252	0.001497
U	238	3	He	3.084	0.0758	15038.29	0.0245	0.0001141
U	238	3	He	2.903	0.0714	14047.34	0.0245	0.0001141
U	238	3	He	2.941	0.0723	14107.49	0.0245	0.0001141
Sc	45	1	No Gas			1676892.16		
Sc	45	1	No Gas			1671826.07		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1669926.23		
Ge	72	1	No Gas			844603.03		
Ge	72	1	No Gas			843499.13		
Ge	72	1	No Gas			837029.21		
Sc	45	2	H2			138016.37		
Sc	45	2	H2			135525.40		
Sc	45	2	H2			134144.13		
Ge	72	2	H2			102194.73		
Ge	72	2	H2			101539.32		
Ge	72	2	H2			99597.23		
In	115	2	H2			245764.76		
In	115	2	H2			244775.17		
In	115	2	H2			246047.36		
Sc	45	3	He			40902.14		
Sc	45	3	He			41122.53		
Sc	45	3	He			39418.00		
Ge	72	3	He			67463.14		
Ge	72	3	He			66467.46		
Ge	72	3	He			69831.69		
In	115	3	He			53050.97		
In	115	3	He			52910.68		
In	115	3	He			51866.95		
Tb	159	3	He			198357.85		
Tb	159	3	He			196797.03		
Tb	159	3	He			195125.06		
Bi	209	3	He			143946.86		
Bi	209	3	He			146348.18		
Bi	209	3	He			144964.35		

Quantitation Report

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Comment	I8 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

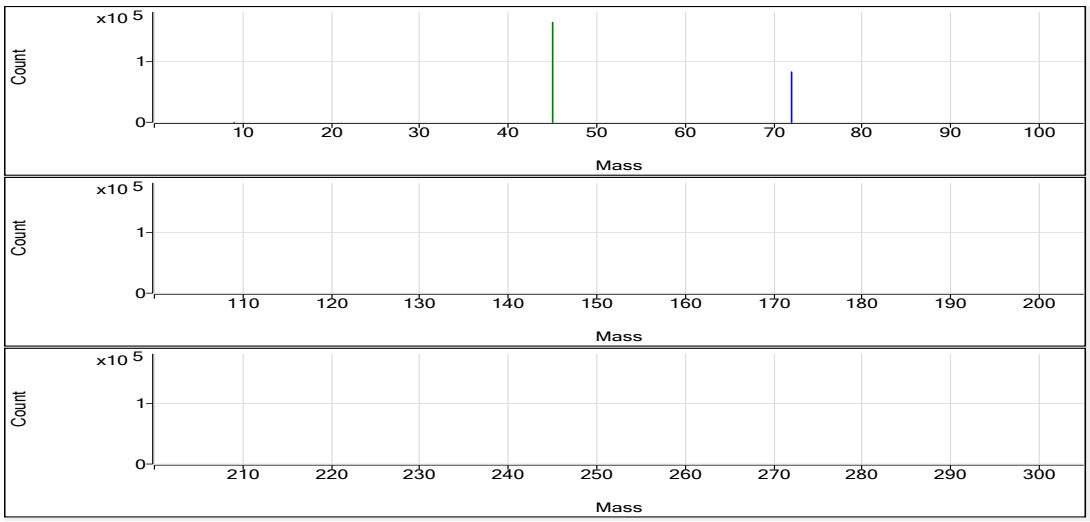
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.019	ppb	N/A	32.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.076	ppb	N/A	3.33	0.0000	Pulse	1.5000	3
Na	23	45	He	19013.228	ppb	2.5	1879017.37	48.1449	Analog	0.1000	3
Mg	24	45	He	3341.317	ppb	1.2	158947.02	4.0721	Pulse	0.1000	3
Al	27	45	He	26.460	ppb	26.0	596.70	0.0153	Pulse	0.1000	3
K	39	45	He	407.775	ppb	19.3	36496.95	0.9356	Pulse	0.5000	3
Ca	44	45	He	9798.397	ppb	1.2	20306.55	0.5202	Pulse	0.5000	3
Ti	47	45	He	0.395	ppb	171.5	24.00	0.0006	Pulse	0.5000	3
V	51	45	He	-0.125	ppb	N/A	932.70	0.0239	Pulse	0.5000	3
Cr	52	45	He	-0.151	ppb	N/A	1846.83	0.0473	Pulse	0.1000	3
Mn	55	45	He	117.643	ppb	1.7	42270.41	1.0830	Pulse	0.5000	3
Fe	57	45	He	8.350	ppb	15.5	460.02	0.0118	Pulse	0.1000	3
Co	59	45	He	-0.020	ppb	N/A	202.00	0.0052	Pulse	0.5000	3
Ni	60	45	He	0.211	ppb	37.0	554.01	0.0142	Pulse	0.5000	3
Cu	63	72	He	0.138	ppb	41.4	1131.38	0.0171	Pulse	0.5000	3
Zn	66	72	He	4.994	ppb	13.3	934.70	0.0142	Pulse	0.5000	3
As	75	72	He	0.637	ppb	10.6	161.33	0.0024	Pulse	0.5000	3
Sr	88	115	He	38.843	ppb	1.2	17009.63	0.3203	Pulse	0.1000	3
Mo	98	115	He	0.128	ppb	33.1	200.01	0.0038	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	-0.012	ppb	0.0	0.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.008	ppb	N/A	576.70	0.0109	Pulse	0.1000	3
Sb	121	115	He	0.034	ppb	34.1	41.11	0.0008	Pulse	0.3000	3
Ba	137	115	He	16.813	ppb	5.2	3503.85	0.0660	Pulse	0.1000	3
Tl	205	159	He	-0.045	ppb	N/A	93.34	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.151	ppb	10.7	1023.39	0.0053	Pulse	0.1000	3
U	238	159	He	0.006	ppb	62.6	50.00	0.0003	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1657410.71	1.0	97.0	Analog	0.1000	3
No Gas	Ge	72	835614.36	1.0	96.7	Pulse	0.1000	3
H2	Sc	45	132038.14	1.2	98.8	Pulse	0.1000	3
H2	Ge	72	99241.79	0.5	100.2	Pulse	0.1000	3
H2	In	115	247777.42	0.6	96.5	Pulse	0.1000	3
He	Sc	45	39037.22	1.4	98.9	Pulse	0.1000	3
He	Ge	72	66042.40	1.2	97.0	Pulse	0.1000	3
He	In	115	53107.19	0.8	95.9	Pulse	0.1000	3
He	Tb	159	193518.34	0.8	94.5	Pulse	0.1000	3
He	Bi	209	143766.49	1.3	95.0	Pulse	0.1000	3

No Gas



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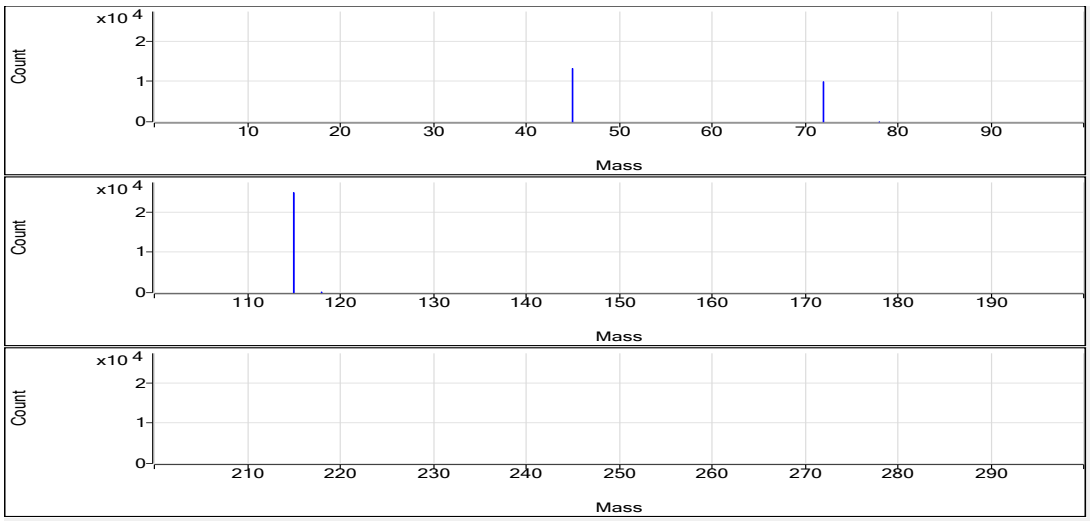
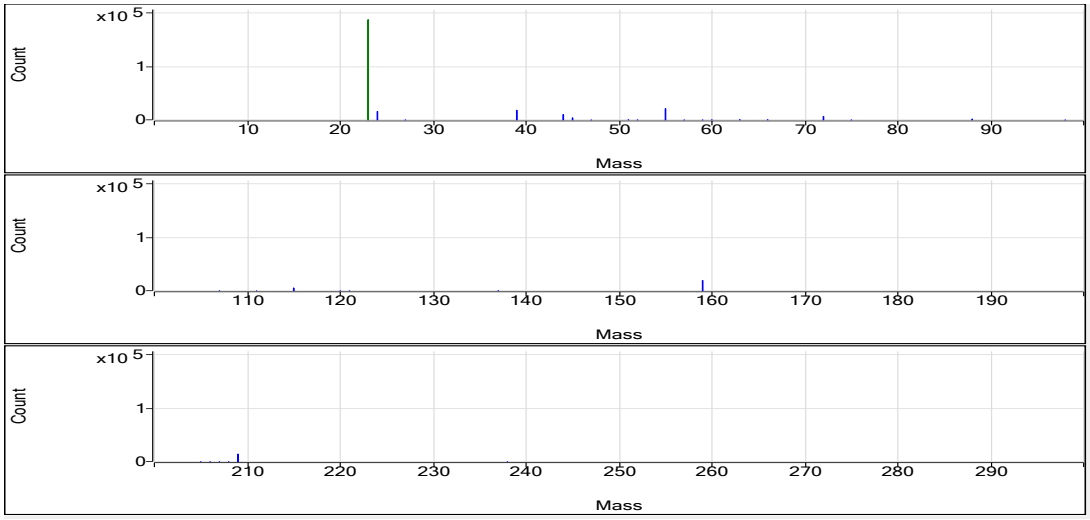


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.039	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.002	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Se	78	2	H2	-0.041	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.076	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.11	0	2.00	0.0004	6.3E-05
Na	23	3	He	19495.354	49.3467	1895678.41	0.0025	0.7502
Na	23	3	He	18528.217	46.9359	1852950.60	0.0025	0.7502
Na	23	3	He	19016.114	48.1521	1888423.10	0.0025	0.7502
Mg	24	3	He	3385.912	4.1261	158506.06	0.0012	0.02618
Mg	24	3	He	3322.679	4.0495	159868.61	0.0012	0.02618
Mg	24	3	He	3315.36	4.0407	158466.40	0.0012	0.02618
Al	27	3	He	34.191	0.0182	700.04	0.0004	0.005329
Al	27	3	He	24.157	0.0144	570.03	0.0004	0.005329
Al	27	3	He	21.031	0.0133	520.03	0.0004	0.005329
K	39	3	He	494.559	1.0217	39250.48	0.001	0.5307
K	39	3	He	387.185	0.9151	36127.32	0.001	0.5307
K	39	3	He	341.58	0.8698	34113.06	0.001	0.5307
Ca	44	3	He	9864.507	0.5237	20118.33	0.0001	0.004441
Ca	44	3	He	9666.995	0.5133	20264.48	0.0001	0.004441
Ca	44	3	He	9863.688	0.5237	20536.85	0.0001	0.004441
Ti	47	3	He	1.177	0.0009	36.00	0.0004	0.0004559
Ti	47	3	He	0	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	0.008	0.0005	18.00	0.0004	0.0004559
V	51	3	He	-0.083	0.0246	946.03	0.0176	0.02609
V	51	3	He	-0.13	0.0238	940.03	0.0176	0.02609
V	51	3	He	-0.161	0.0233	912.03	0.0176	0.02609
Cr	52	3	He	-0.101	0.0484	1860.17	0.0217	0.05061
Cr	52	3	He	-0.184	0.0466	1840.16	0.0217	0.05061
Cr	52	3	He	-0.17	0.0469	1840.15	0.0217	0.05061
Mn	55	3	He	119.876	1.1033	42384.69	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	117.063	1.0777	42545.09	0.0091	0.01071
Mn	55	3	He	115.991	1.0679	41881.46	0.0091	0.01071
Fe	57	3	He	9.473	0.0122	470.02	0.0004	0.008452
Fe	57	3	He	8.648	0.0119	470.02	0.0004	0.008452
Fe	57	3	He	6.93	0.0112	440.02	0.0004	0.008452
Co	59	3	He	-0.021	0.0052	198.00	0.0413	0.006013
Co	59	3	He	-0.035	0.0046	180.00	0.0413	0.006013
Co	59	3	He	-0.005	0.0058	228.00	0.0413	0.006013
Ni	60	3	He	0.275	0.0149	574.01	0.0117	0.01172
Ni	60	3	He	0.124	0.0132	520.01	0.0117	0.01172
Ni	60	3	He	0.236	0.0145	568.01	0.0117	0.01172
Cu	63	3	He	0.195	0.0183	1196.05	0.0196	0.01443
Cu	63	3	He	0.138	0.0171	1146.05	0.0196	0.01443
Cu	63	3	He	0.081	0.016	1052.04	0.0196	0.01443
Zn	66	3	He	5.721	0.0158	1036.04	0.0023	0.002807
Zn	66	3	He	4.84	0.0138	924.03	0.0023	0.002807
Zn	66	3	He	4.42	0.0129	844.03	0.0023	0.002807
As	75	3	He	0.702	0.0026	168.00	0.0018	0.001271
As	75	3	He	0.641	0.0025	164.00	0.0018	0.001271
As	75	3	He	0.567	0.0023	152.00	0.0018	0.001271
Sr	88	3	He	39.346	0.3244	17319.95	0.0082	0.00114
Sr	88	3	He	38.791	0.3199	16829.52	0.0082	0.00114
Sr	88	3	He	38.392	0.3166	16879.43	0.0082	0.00114
Mo	98	3	He	0.169	0.0045	240.01	0.0177	0.001504
Mo	98	3	He	0.13	0.0038	200.01	0.0177	0.001504
Mo	98	3	He	0.085	0.003	160.01	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	-0.008	0.0109	580.03	0.0126	0.01097
Sn	120	3	He	-0.01	0.0108	570.03	0.0126	0.01097
Sn	120	3	He	-0.007	0.0109	580.03	0.0126	0.01097
Sb	121	3	He	0.048	0.0009	50.00	0.012	0.0003595
Sb	121	3	He	0.028	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.027	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	17.048	0.0669	3570.53	0.0039	0.0003633
Ba	137	3	He	15.838	0.0622	3270.47	0.0039	0.0003633
Ba	137	3	He	17.552	0.0688	3670.55	0.0039	0.0003633
Tl	205	3	He	-0.035	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Pb	208	3	He	0.168	0.0057	660.04	0.0252	0.001497
Pb	208	3	He	0.135	0.0049	540.03	0.0252	0.001497
Pb	208	3	He	0.149	0.0052	540.03	0.0252	0.001497
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1676765.76		
Sc	45	1	No Gas			1648114.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1647351.54		
Ge	72	1	No Gas			844777.17		
Ge	72	1	No Gas			831984.52		
Ge	72	1	No Gas			830081.39		
Sc	45	2	H2			130253.24		
Sc	45	2	H2			132552.35		
Sc	45	2	H2			133308.84		
Ge	72	2	H2			99043.71		
Ge	72	2	H2			99828.74		
Ge	72	2	H2			98852.91		
In	115	2	H2			248715.02		
In	115	2	H2			248582.89		
In	115	2	H2			246034.35		
Sc	45	3	He			38415.49		
Sc	45	3	He			39478.31		
Sc	45	3	He			39217.87		
Ge	72	3	He			65533.52		
Ge	72	3	He			66919.62		
Ge	72	3	He			65674.05		
In	115	3	He			53391.87		
In	115	3	He			52619.77		
In	115	3	He			53322.04		
Tb	159	3	He			194335.92		
Tb	159	3	He			191672.46		
Tb	159	3	He			194546.64		
Bi	209	3	He			145520.28		
Bi	209	3	He			144096.75		
Bi	209	3	He			141682.44		

Quantitation Report

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Sample Name	CCV 8028071
Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

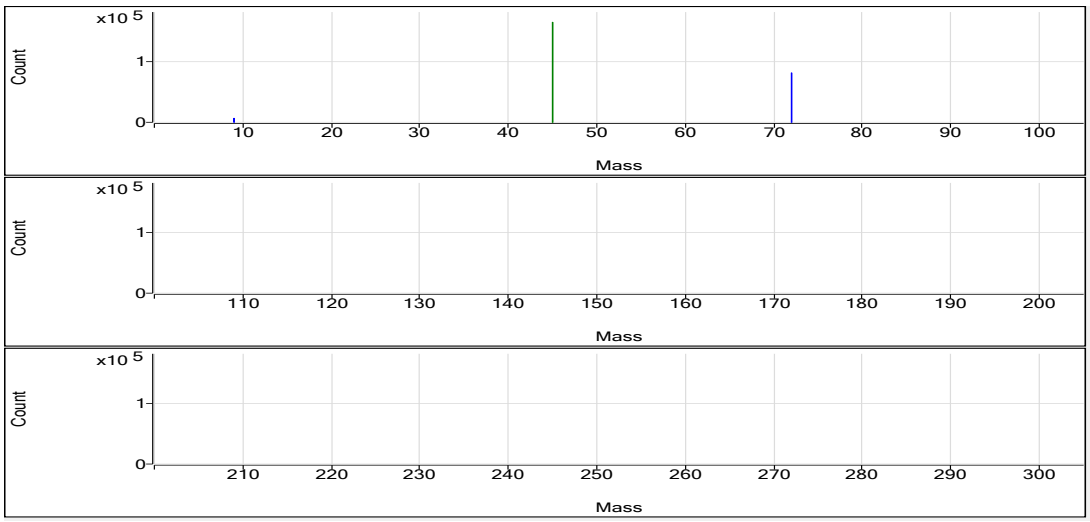
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.481	ppb	4.5	13623.53	0.0083	Pulse	0.5000	3
Se	78	72	H2	24.705	ppb	1.7	922.47	0.0096	Pulse	1.5000	3
Na	23	45	He	2431.296	ppb	1.6	269177.42	6.8107	Pulse	0.1000	3
Mg	24	45	He	2493.386	ppb	0.9	120372.79	3.0454	Pulse	0.1000	3
Al	27	45	He	2513.817	ppb	3.0	37670.14	0.9533	Pulse	0.1000	3
K	39	45	He	2482.537	ppb	1.3	118412.82	2.9957	Pulse	0.5000	3
Ca	44	45	He	2471.589	ppb	2.5	5316.88	0.1345	Pulse	0.5000	3
Ti	47	45	He	2489.388	ppb	1.7	40253.72	1.0185	Pulse	0.5000	3
V	51	45	He	250.048	ppb	1.9	174839.52	4.4241	Pulse	0.5000	3
Cr	52	45	He	249.702	ppb	2.1	216379.08	5.4753	Pulse	0.1000	3
Mn	55	45	He	250.545	ppb	1.7	90672.73	2.2943	Pulse	0.5000	3
Fe	57	45	He	2490.595	ppb	2.1	39639.15	1.0030	Pulse	0.1000	3
Co	59	45	He	249.076	ppb	1.7	406669.68	10.2900	Pulse	0.5000	3
Ni	60	45	He	247.775	ppb	0.8	115486.33	2.9219	Pulse	0.5000	3
Cu	63	72	He	249.903	ppb	1.3	321717.70	4.9031	Pulse	0.5000	3
Zn	66	72	He	251.914	ppb	1.6	37751.11	0.5753	Pulse	0.5000	3
As	75	72	He	247.624	ppb	1.1	29993.24	0.4571	Pulse	0.5000	3
Sr	88	115	He	24.366	ppb	2.5	10563.82	0.2013	Pulse	0.1000	3
Mo	98	115	He	24.271	ppb	3.1	22620.16	0.4314	Pulse	0.1000	3
Ag	107	115	He	25.194	ppb	0.7	48666.40	0.9278	Pulse	0.1000	3
Cd	111	115	He	25.276	ppb	2.3	5440.31	0.1037	Pulse	0.5000	3
Sn	120	115	He	25.088	ppb	2.5	17143.31	0.3268	Pulse	0.1000	3
Sb	121	115	He	25.478	ppb	2.7	16111.79	0.3073	Pulse	0.3000	3
Ba	137	115	He	251.074	ppb	3.5	51380.12	0.9800	Pulse	0.1000	3
Tl	205	159	He	24.564	ppb	1.3	90342.11	0.4666	Pulse	0.1000	3
Pb	208	159	He	25.058	ppb	0.8	122350.25	0.6319	Pulse	0.1000	3
U	238	159	He	25.257	ppb	1.1	120074.58	0.6201	Pulse	0.1000	3

ISTD Table:

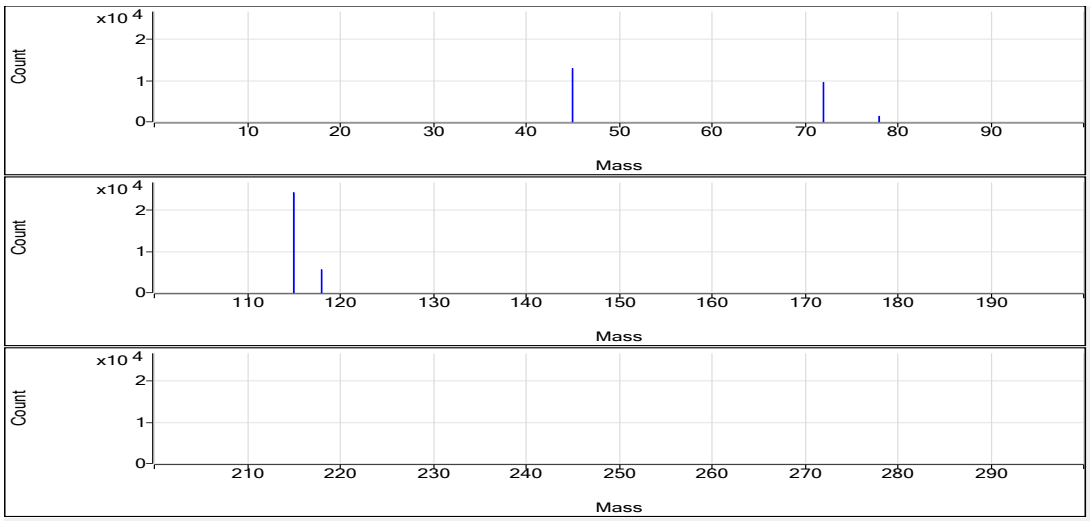
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1647583.67	2.0	96.4	Analog	0.1000	3
No Gas	Ge	72	814465.07	2.1	94.3	Pulse	0.1000	3
H2	Sc	45	129255.85	1.1	96.7	Pulse	0.1000	3
H2	Ge	72	95650.62	1.3	96.6	Pulse	0.1000	3
H2	In	115	242437.78	0.3	94.5	Pulse	0.1000	3
He	Sc	45	39528.26	1.7	100.1	Pulse	0.1000	3
He	Ge	72	65623.97	1.5	96.4	Pulse	0.1000	3
He	In	115	52452.81	1.8	94.7	Pulse	0.1000	3
He	Tb	159	193624.57	0.3	94.5	Pulse	0.1000	3
He	Bi	209	141575.76	0.2	93.6	Pulse	0.1000	3

No Gas

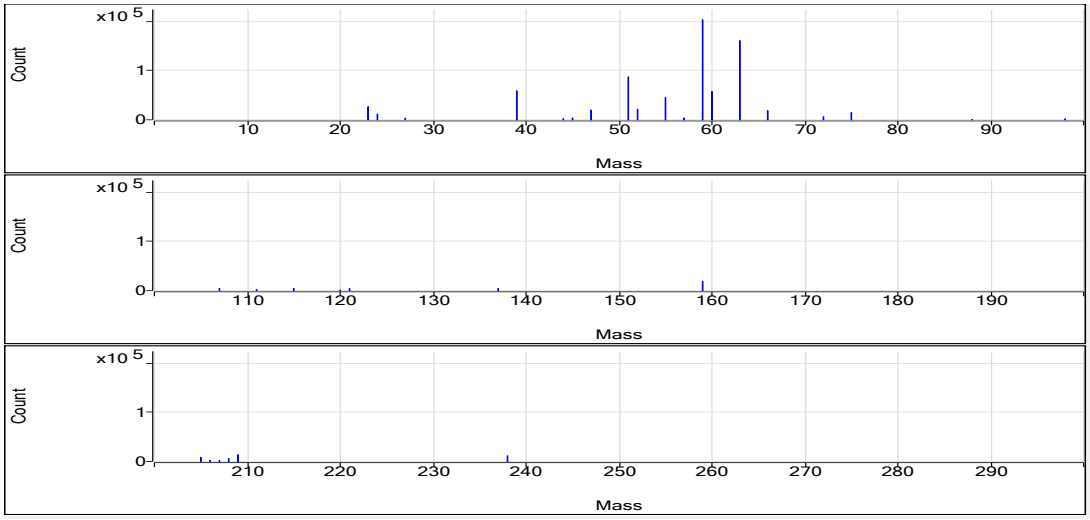


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.245	0.0078	12692.78	0.0003	2.616E-05
Be	9	1	No Gas	25.335	0.0086	14053.89	0.0003	2.616E-05
Be	9	1	No Gas	24.864	0.0084	14123.92	0.0003	2.616E-05
Se	78	2	H2	24.285	0.0095	897.36	0.0004	6.3E-05
Se	78	2	H2	24.725	0.0097	936.03	0.0004	6.3E-05
Se	78	2	H2	25.104	0.0098	934.03	0.0004	6.3E-05
Na	23	3	He	2389.678	6.707	269083.96	0.0025	0.7502
Na	23	3	He	2440.228	6.833	270985.93	0.0025	0.7502
Na	23	3	He	2463.982	6.8922	267462.38	0.0025	0.7502
Mg	24	3	He	2500.986	3.0546	122548.80	0.0012	0.02618
Mg	24	3	He	2466.998	3.0134	119506.99	0.0012	0.02618
Mg	24	3	He	2512.175	3.0681	119062.57	0.0012	0.02618
Al	27	3	He	2434.249	0.9233	37042.22	0.0004	0.005329
Al	27	3	He	2525.722	0.9578	37984.12	0.0004	0.005329
Al	27	3	He	2581.478	0.9788	37984.08	0.0004	0.005329
K	39	3	He	2502.078	3.0151	120965.77	0.001	0.5307
K	39	3	He	2444.978	2.9584	117325.77	0.001	0.5307
K	39	3	He	2500.555	3.0136	116946.92	0.001	0.5307
Ca	44	3	He	2412.383	0.1314	5272.86	0.0001	0.004441
Ca	44	3	He	2468.277	0.1344	5328.89	0.0001	0.004441
Ca	44	3	He	2534.107	0.1378	5348.89	0.0001	0.004441
Ti	47	3	He	2453.998	1.0041	40283.13	0.0004	0.0004559
Ti	47	3	He	2479.722	1.0146	40236.98	0.0004	0.0004559
Ti	47	3	He	2534.443	1.037	40241.06	0.0004	0.0004559
V	51	3	He	245.481	4.3437	174269.66	0.0176	0.02609
V	51	3	He	249.898	4.4214	175346.55	0.0176	0.02609
V	51	3	He	254.766	4.507	174902.34	0.0176	0.02609
Cr	52	3	He	244.576	5.3639	215201.09	0.0217	0.05061
Cr	52	3	He	249.493	5.4708	216961.40	0.0217	0.05061
Cr	52	3	He	255.037	5.5912	216974.76	0.0217	0.05061
Mn	55	3	He	246.914	2.2612	90719.80	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	249.344	2.2834	90554.76	0.0091	0.01071
Mn	55	3	He	255.378	2.3384	90743.62	0.0091	0.01071
Fe	57	3	He	2440.442	0.983	39438.35	0.0004	0.008452
Fe	57	3	He	2486.201	1.0013	39709.37	0.0004	0.008452
Fe	57	3	He	2545.141	1.0248	39769.73	0.0004	0.008452
Co	59	3	He	244.751	10.1114	405670.25	0.0413	0.006013
Co	59	3	He	249.149	10.293	408205.28	0.0413	0.006013
Co	59	3	He	253.329	10.4656	406133.50	0.0413	0.006013
Ni	60	3	He	246.285	2.9044	116522.76	0.0117	0.01172
Ni	60	3	He	247.157	2.9146	115588.49	0.0117	0.01172
Ni	60	3	He	249.882	2.9466	114347.73	0.0117	0.01172
Cu	63	3	He	253.082	4.9652	321050.38	0.0196	0.01443
Cu	63	3	He	246.549	4.8374	322066.84	0.0196	0.01443
Cu	63	3	He	250.08	4.9065	322035.88	0.0196	0.01443
Zn	66	3	He	256.655	0.5861	37898.09	0.0023	0.002807
Zn	66	3	He	249.648	0.5702	37962.19	0.0023	0.002807
Zn	66	3	He	249.44	0.5697	37393.04	0.0023	0.002807
As	75	3	He	250.722	0.4628	29923.80	0.0018	0.001271
As	75	3	He	246.372	0.4548	30278.44	0.0018	0.001271
As	75	3	He	245.778	0.4537	29777.49	0.0018	0.001271
Sr	88	3	He	23.69	0.1958	10073.47	0.0082	0.00114
Sr	88	3	He	24.829	0.2051	10934.06	0.0082	0.00114
Sr	88	3	He	24.579	0.2031	10683.92	0.0082	0.00114
Mo	98	3	He	25.14	0.4468	22987.56	0.0177	0.001504
Mo	98	3	He	23.883	0.4245	22626.75	0.0177	0.001504
Mo	98	3	He	23.79	0.4229	22246.16	0.0177	0.001504
Ag	107	3	He	25.182	0.9273	47713.22	0.0368	0.001325
Ag	107	3	He	25.368	0.9342	49790.06	0.0368	0.001325
Ag	107	3	He	25.033	0.9218	48495.92	0.0368	0.001325
Cd	111	3	He	25.908	0.1063	5470.98	0.0041	4.798E-05
Cd	111	3	He	25.129	0.1031	5496.99	0.0041	4.798E-05
Cd	111	3	He	24.792	0.1018	5352.95	0.0041	4.798E-05
Sn	120	3	He	24.374	0.3178	16349.15	0.0126	0.01097
Sn	120	3	He	25.379	0.3304	17610.47	0.0126	0.01097
Sn	120	3	He	25.512	0.3321	17470.30	0.0126	0.01097
Sb	121	3	He	26.214	0.3161	16265.29	0.012	0.0003595
Sb	121	3	He	24.872	0.3	15988.34	0.012	0.0003595
Sb	121	3	He	25.347	0.3057	16081.74	0.012	0.0003595
Ba	137	3	He	259.938	1.0145	52199.40	0.0039	0.0003633
Ba	137	3	He	242.384	0.946	50423.85	0.0039	0.0003633
Ba	137	3	He	250.9	0.9793	51517.10	0.0039	0.0003633
Tl	205	3	He	24.696	0.4691	90942.48	0.0189	0.001334
Tl	205	3	He	24.8	0.471	91406.05	0.0189	0.001334
Tl	205	3	He	24.197	0.4596	88677.80	0.0189	0.001334
Pb	208	3	He	25.232	0.6363	65749.01	0.0252	0.001497
Pb	208	3	He	25.098	0.6329	65095.29	0.0252	0.001497
Pb	208	3	He	24.844	0.6265	64282.39	0.0252	0.001497
U	238	3	He	25.047	0.615	119235.38	0.0245	0.0001141
U	238	3	He	25.565	0.6277	121806.17	0.0245	0.0001141
U	238	3	He	25.158	0.6177	119182.18	0.0245	0.0001141
Sc	45	1	No Gas			1617039.98		
Sc	45	1	No Gas			1643168.88		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1682542.16		
Ge	72	1	No Gas			795121.79		
Ge	72	1	No Gas			823810.30		
Ge	72	1	No Gas			824463.11		
Sc	45	2	H2			128651.19		
Sc	45	2	H2			130858.97		
Sc	45	2	H2			128257.38		
Ge	72	2	H2			94648.26		
Ge	72	2	H2			96982.10		
Ge	72	2	H2			95321.51		
In	115	2	H2			242988.59		
In	115	2	H2			241741.09		
In	115	2	H2			242583.67		
Sc	45	3	He			40119.91		
Sc	45	3	He			39658.41		
Sc	45	3	He			38806.47		
Ge	72	3	He			64659.67		
Ge	72	3	He			66578.01		
Ge	72	3	He			65634.22		
In	115	3	He			51566.02		
In	115	3	He			53422.69		
In	115	3	He			52729.72		
Tb	159	3	He			193880.74		
Tb	159	3	He			194053.63		
Tb	159	3	He			192939.33		
Bi	209	3	He			141906.63		
Bi	209	3	He			141511.15		
Bi	209	3	He			141309.49		

Quantitation Report

Data File Name	194_CCB.d
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Acq Time	7/10/2025 5:05:10 PM
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Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

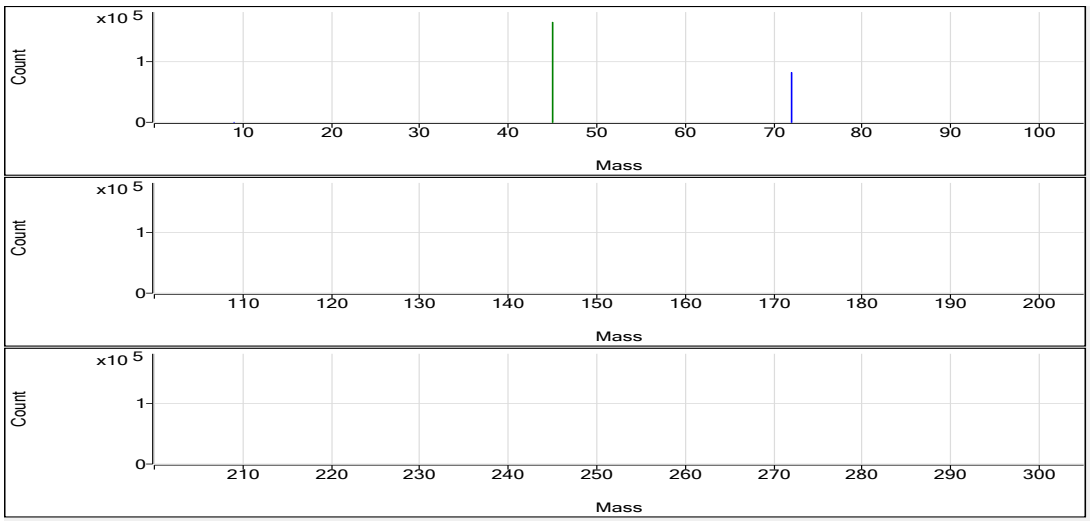
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.023	ppb	N/A	30.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.062	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	-88.274	ppb	N/A	20770.05	0.5301	Pulse	0.1000	3
Mg	24	45	He	-9.895	ppb	N/A	556.70	0.0142	Pulse	0.1000	3
Al	27	45	He	0.353	ppb	1207.5	213.34	0.0055	Pulse	0.1000	3
K	39	45	He	-6.538	ppb	N/A	20510.23	0.5242	Pulse	0.5000	3
Ca	44	45	He	-13.503	ppb	N/A	146.00	0.0037	Pulse	0.5000	3
Ti	47	45	He	0.089	ppb	415.5	19.33	0.0005	Pulse	0.5000	3
V	51	45	He	-0.131	ppb	N/A	932.04	0.0238	Pulse	0.5000	3
Cr	52	45	He	-0.380	ppb	N/A	1660.14	0.0424	Pulse	0.1000	3
Mn	55	45	He	-0.346	ppb	N/A	296.00	0.0076	Pulse	0.5000	3
Fe	57	45	He	-8.374	ppb	N/A	200.01	0.0051	Pulse	0.1000	3
Co	59	45	He	-0.015	ppb	N/A	211.33	0.0054	Pulse	0.5000	3
Ni	60	45	He	-0.041	ppb	N/A	440.01	0.0112	Pulse	0.5000	3
Cu	63	72	He	-0.199	ppb	N/A	688.69	0.0105	Pulse	0.5000	3
Zn	66	72	He	0.350	ppb	40.9	235.33	0.0036	Pulse	0.5000	3
As	75	72	He	0.413	ppb	26.9	132.67	0.0020	Pulse	0.5000	3
Sr	88	115	He	-0.045	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Mo	98	115	He	0.020	ppb	84.0	96.67	0.0019	Pulse	0.1000	3
Ag	107	115	He	-0.012	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Cd	111	115	He	-0.009	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.204	ppb	N/A	436.69	0.0084	Pulse	0.1000	3
Sb	121	115	He	0.030	ppb	71.3	37.78	0.0007	Pulse	0.3000	3
Ba	137	115	He	0.137	ppb	21.3	46.67	0.0009	Pulse	0.1000	3
Tl	205	159	He	-0.037	ppb	N/A	123.33	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.006	ppb	223.6	320.01	0.0017	Pulse	0.1000	3
U	238	159	He	0.008	ppb	95.0	60.00	0.0003	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1640919.66	0.2	96.0	Analog	0.1000	3
No Gas	Ge	72	817329.47	0.5	94.6	Pulse	0.1000	3
H2	Sc	45	130401.83	0.7	97.6	Pulse	0.1000	3
H2	Ge	72	97155.53	1.9	98.1	Pulse	0.1000	3
H2	In	115	242466.63	0.2	94.5	Pulse	0.1000	3
He	Sc	45	39194.06	1.8	99.3	Pulse	0.1000	3
He	Ge	72	65296.10	0.7	95.9	Pulse	0.1000	3
He	In	115	52014.33	0.4	93.9	Pulse	0.1000	3
He	Tb	159	192822.77	0.1	94.2	Pulse	0.1000	3
He	Bi	209	141113.90	1.9	93.3	Pulse	0.1000	3

No Gas



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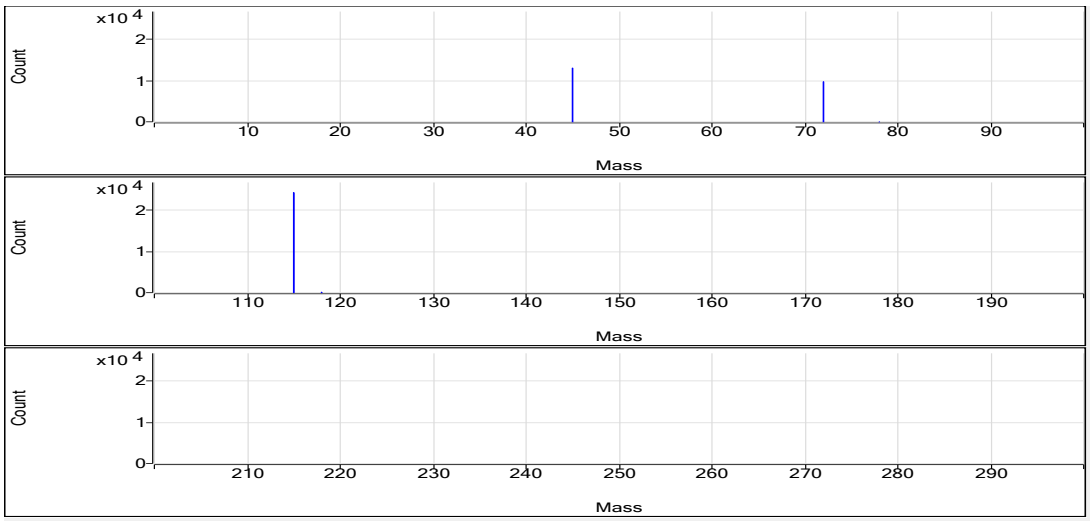
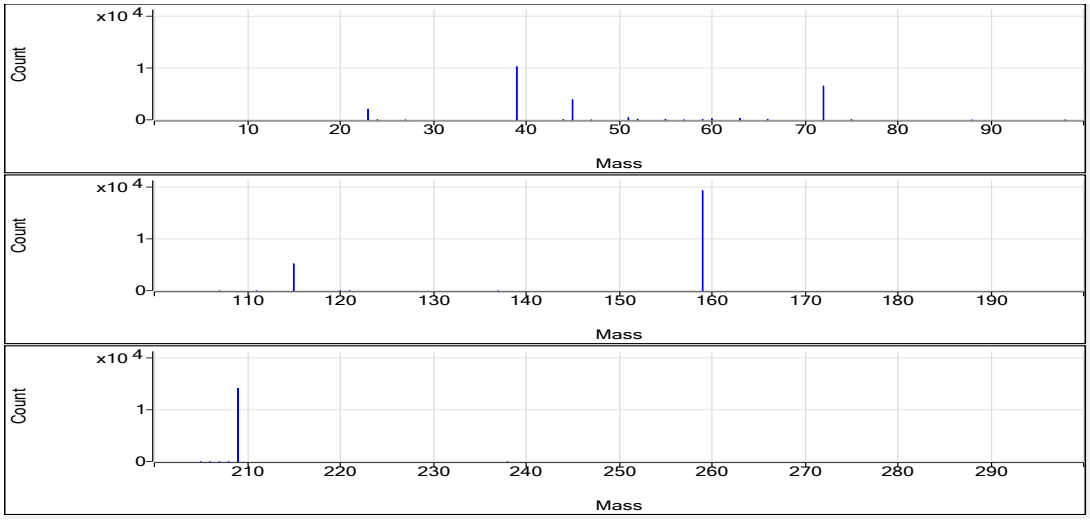


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.031	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.023	0	30.00	0.0003	2.616E-05
Se	78	2	H2	-0.076	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.004	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Na	23	3	He	-80.556	0.5494	21093.76	0.0025	0.7502
Na	23	3	He	-95.129	0.5131	20383.00	0.0025	0.7502
Na	23	3	He	-89.137	0.528	20833.39	0.0025	0.7502
Mg	24	3	He	-10.222	0.0138	530.03	0.0012	0.02618
Mg	24	3	He	-9.981	0.0141	560.03	0.0012	0.02618
Mg	24	3	He	-9.483	0.0147	580.03	0.0012	0.02618
Al	27	3	He	5.207	0.0073	280.01	0.0004	0.005329
Al	27	3	He	-2.785	0.0043	170.01	0.0004	0.005329
Al	27	3	He	-1.363	0.0048	190.01	0.0004	0.005329
K	39	3	He	80.675	0.6108	23450.75	0.001	0.5307
K	39	3	He	-45.154	0.4858	19301.27	0.001	0.5307
K	39	3	He	-55.134	0.4759	18778.68	0.001	0.5307
Ca	44	3	He	-6.189	0.0041	158.00	0.0001	0.004441
Ca	44	3	He	-26.027	0.0031	122.00	0.0001	0.004441
Ca	44	3	He	-8.294	0.004	158.00	0.0001	0.004441
Ti	47	3	He	-0.223	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.007	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	0.497	0.0007	26.00	0.0004	0.0004559
V	51	3	He	-0.053	0.0252	966.04	0.0176	0.02609
V	51	3	He	-0.084	0.0246	978.04	0.0176	0.02609
V	51	3	He	-0.256	0.0216	852.03	0.0176	0.02609
Cr	52	3	He	-0.447	0.0409	1570.13	0.0217	0.05061
Cr	52	3	He	-0.534	0.039	1550.13	0.0217	0.05061
Cr	52	3	He	-0.16	0.0471	1860.15	0.0217	0.05061
Mn	55	3	He	-0.341	0.0076	292.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.358	0.0075	296.00	0.0091	0.01071
Mn	55	3	He	-0.341	0.0076	300.00	0.0091	0.01071
Fe	57	3	He	-7.469	0.0055	210.01	0.0004	0.008452
Fe	57	3	He	-10.45	0.0043	170.01	0.0004	0.008452
Fe	57	3	He	-7.203	0.0056	220.01	0.0004	0.008452
Co	59	3	He	-0.006	0.0058	222.00	0.0413	0.006013
Co	59	3	He	-0.016	0.0053	212.00	0.0413	0.006013
Co	59	3	He	-0.023	0.0051	200.00	0.0413	0.006013
Ni	60	3	He	0.009	0.0118	454.01	0.0117	0.01172
Ni	60	3	He	-0.063	0.011	436.01	0.0117	0.01172
Ni	60	3	He	-0.07	0.0109	430.01	0.0117	0.01172
Cu	63	3	He	-0.21	0.0103	676.02	0.0196	0.01443
Cu	63	3	He	-0.188	0.0108	706.02	0.0196	0.01443
Cu	63	3	He	-0.198	0.0106	684.02	0.0196	0.01443
Zn	66	3	He	0.391	0.0037	242.00	0.0023	0.002807
Zn	66	3	He	0.468	0.0039	254.00	0.0023	0.002807
Zn	66	3	He	0.191	0.0032	210.00	0.0023	0.002807
As	75	3	He	0.521	0.0022	146.00	0.0018	0.001271
As	75	3	He	0.419	0.002	134.00	0.0018	0.001271
As	75	3	He	0.299	0.0018	118.00	0.0018	0.001271
Sr	88	3	He	0.025	0.0013	70.00	0.0082	0.00114
Sr	88	3	He	-0.092	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.069	0.0006	30.00	0.0082	0.00114
Mo	98	3	He	0.034	0.0021	110.00	0.0177	0.001504
Mo	98	3	He	0.024	0.0019	100.01	0.0177	0.001504
Mo	98	3	He	0.002	0.0015	80.00	0.0177	0.001504
Ag	107	3	He	0.001	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.291	0.0073	380.02	0.0126	0.01097
Sn	120	3	He	-0.166	0.0089	460.02	0.0126	0.01097
Sn	120	3	He	-0.156	0.009	470.02	0.0126	0.01097
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.056	0.001	53.33	0.012	0.0003595
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Ba	137	3	He	0.153	0.001	50.00	0.0039	0.0003633
Ba	137	3	He	0.154	0.001	50.00	0.0039	0.0003633
Ba	137	3	He	0.103	0.0008	40.00	0.0039	0.0003633
Tl	205	3	He	-0.032	0.0007	140.00	0.0189	0.001334
Tl	205	3	He	-0.038	0.0006	120.00	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	0.017	0.0019	160.01	0.0252	0.001497
Pb	208	3	He	0.013	0.0018	190.01	0.0252	0.001497
Pb	208	3	He	-0.01	0.0012	130.01	0.0252	0.001497
U	238	3	He	0.014	0.0005	90.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.01	0.0004	70.00	0.0245	0.0001141
Sc	45	1	No Gas			1637868.57		
Sc	45	1	No Gas			1641281.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1643608.88		
Ge	72	1	No Gas			818002.64		
Ge	72	1	No Gas			821131.24		
Ge	72	1	No Gas			812854.52		
Sc	45	2	H2			129317.48		
Sc	45	2	H2			130706.99		
Sc	45	2	H2			131181.01		
Ge	72	2	H2			98922.61		
Ge	72	2	H2			97353.10		
Ge	72	2	H2			95190.87		
In	115	2	H2			242289.37		
In	115	2	H2			242916.79		
In	115	2	H2			242193.73		
Sc	45	3	He			38395.48		
Sc	45	3	He			39728.74		
Sc	45	3	He			39457.96		
Ge	72	3	He			65493.53		
Ge	72	3	He			65604.13		
Ge	72	3	He			64790.63		
In	115	3	He			52017.13		
In	115	3	He			51806.90		
In	115	3	He			52228.14		
Tb	159	3	He			192654.76		
Tb	159	3	He			193129.86		
Tb	159	3	He			192683.69		
Bi	209	3	He			144076.43		
Bi	209	3	He			140279.03		
Bi	209	3	He			138986.24		

Quantitation Report

Data File Name	195SMPL.d
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Sample Type	Sample
Comment	MS B14 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

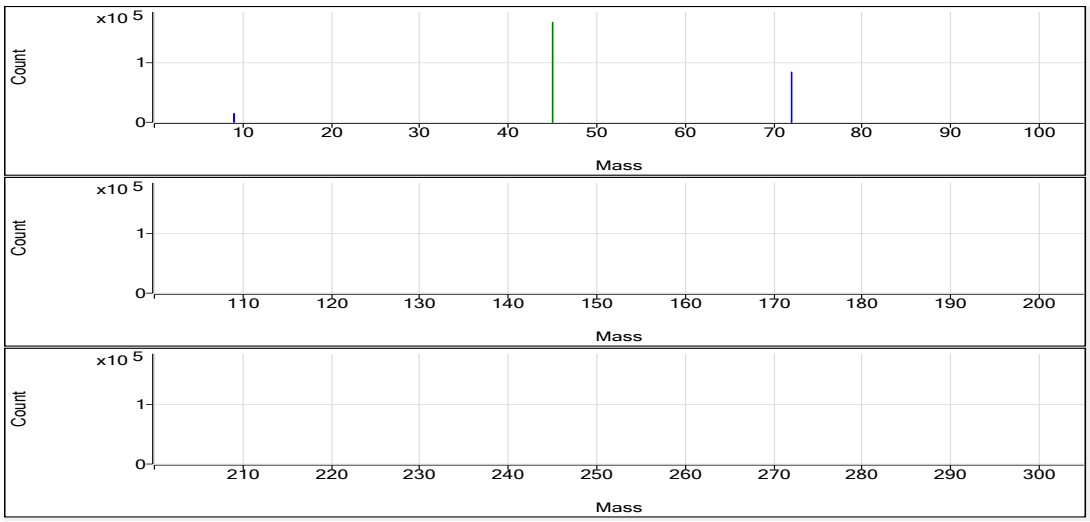
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	52.384	ppb	5.1	29700.01	0.0177	Pulse	0.5000	3
Se	78	72	H2	100.838	ppb	2.0	3907.82	0.0392	Pulse	1.5000	3
Na	23	45	He	5068.108	ppb	1.8	538742.60	13.3836	Pulse	0.1000	3
Mg	24	45	He	5142.061	ppb	1.2	251710.25	6.2526	Pulse	0.1000	3
Al	27	45	He	5159.596	ppb	3.3	78518.42	1.9510	Pulse	0.1000	3
K	39	45	He	5156.797	ppb	3.4	227436.55	5.6511	Pulse	0.5000	3
Ca	44	45	He	5157.259	ppb	2.0	11107.78	0.2759	Pulse	0.5000	3
Ti	47	45	He	526.686	ppb	0.1	8691.01	0.2159	Pulse	0.5000	3
V	51	45	He	513.743	ppb	1.4	364808.89	9.0620	Pulse	0.5000	3
Cr	52	45	He	519.602	ppb	1.5	456477.72	11.3388	Pulse	0.1000	3
Mn	55	45	He	517.674	ppb	1.9	190370.16	4.7291	Pulse	0.5000	3
Fe	57	45	He	5277.427	ppb	1.9	85172.88	2.1159	Pulse	0.1000	3
Co	59	45	He	514.165	ppb	1.8	854776.98	21.2351	Pulse	0.5000	3
Ni	60	45	He	513.909	ppb	1.3	243453.07	6.0476	Pulse	0.5000	3
Cu	63	72	He	515.423	ppb	1.5	680771.94	10.0972	Pulse	0.5000	3
Zn	66	72	He	518.428	ppb	1.4	79629.44	1.1811	Pulse	0.5000	3
As	75	72	He	513.140	ppb	2.2	63769.40	0.9458	Pulse	0.5000	3
Sr	88	115	He	51.690	ppb	4.4	22670.08	0.4258	Pulse	0.1000	3
Mo	98	115	He	52.255	ppb	3.7	49364.55	0.9270	Pulse	0.1000	3
Ag	107	115	He	52.762	ppb	1.5	103389.41	1.9415	Pulse	0.1000	3
Cd	111	115	He	54.246	ppb	2.1	11851.87	0.2226	Pulse	0.5000	3
Sn	120	115	He	104.181	ppb	0.6	70417.31	1.3223	Pulse	0.1000	3
Sb	121	115	He	103.968	ppb	1.3	66711.17	1.2528	Pulse	0.3000	3
Ba	137	115	He	519.439	ppb	1.7	107937.86	2.0270	Pulse	0.1000	3
Tl	205	159	He	101.268	ppb	1.1	376933.32	1.9193	Pulse	0.1000	3
Pb	208	159	He	51.481	ppb	0.7	254644.57	1.2966	Pulse	0.1000	3
U	238	159	He	53.202	ppb	2.9	256493.32	1.3061	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1682640.39	1.2	98.5	Analog	0.1000	3
No Gas	Ge	72	845910.46	1.2	97.9	Pulse	0.1000	3
H2	Sc	45	132282.71	0.7	99.0	Pulse	0.1000	3
H2	Ge	72	99781.77	1.0	100.7	Pulse	0.1000	3
H2	In	115	248714.44	0.3	96.9	Pulse	0.1000	3
He	Sc	45	40263.62	2.2	102.0	Pulse	0.1000	3
He	Ge	72	67428.09	1.0	99.0	Pulse	0.1000	3
He	In	115	53257.10	1.3	96.1	Pulse	0.1000	3
He	Tb	159	196395.04	0.5	95.9	Pulse	0.1000	3
He	Bi	209	146085.35	1.4	96.6	Pulse	0.1000	3

No Gas



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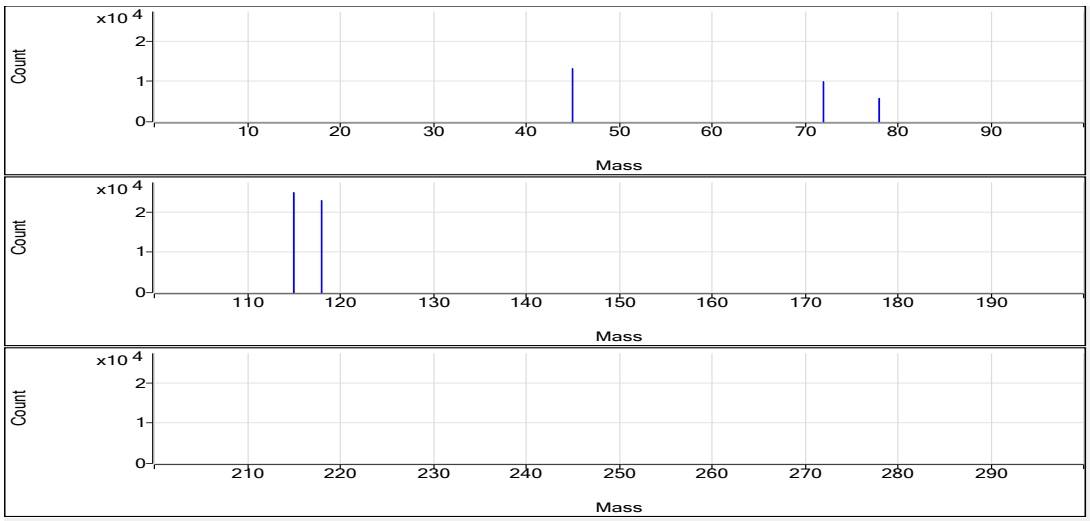
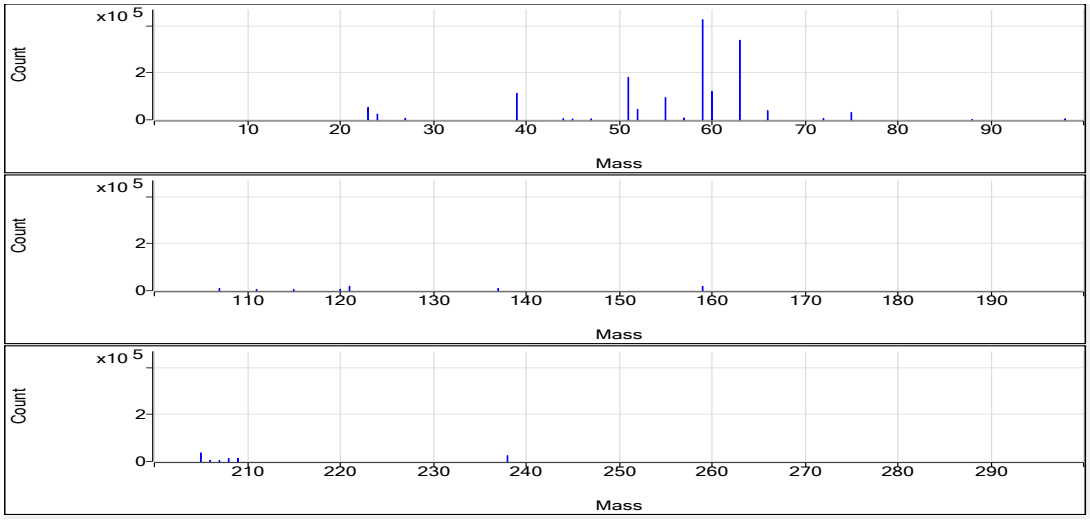


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	49.585	0.0167	28305.60	0.0003	2.616E-05
Be	9	1	No Gas	52.686	0.0178	30094.68	0.0003	2.616E-05
Be	9	1	No Gas	54.881	0.0185	30699.75	0.0003	2.616E-05
Se	78	2	H2	99.329	0.0386	3875.81	0.0004	6.3E-05
Se	78	2	H2	100.057	0.0389	3897.15	0.0004	6.3E-05
Se	78	2	H2	103.129	0.0401	3950.49	0.0004	6.3E-05
Na	23	3	He	5173.899	13.6473	536172.14	0.0025	0.7502
Na	23	3	He	5015.434	13.2523	536995.93	0.0025	0.7502
Na	23	3	He	5014.991	13.2512	543059.72	0.0025	0.7502
Mg	24	3	He	5212.606	6.338	249006.07	0.0012	0.02618
Mg	24	3	He	5103.483	6.2059	251467.91	0.0012	0.02618
Mg	24	3	He	5110.094	6.2139	254656.77	0.0012	0.02618
Al	27	3	He	5332.185	2.0161	79208.28	0.0004	0.005329
Al	27	3	He	5158.284	1.9505	79037.26	0.0004	0.005329
Al	27	3	He	4988.32	1.8864	77309.72	0.0004	0.005329
K	39	3	He	5357.764	5.8507	229859.89	0.001	0.5307
K	39	3	He	5059.227	5.5542	225063.23	0.001	0.5307
K	39	3	He	5053.4	5.5484	227386.52	0.001	0.5307
Ca	44	3	He	5242.152	0.2804	11015.72	0.0001	0.004441
Ca	44	3	He	5044.391	0.27	10939.67	0.0001	0.004441
Ca	44	3	He	5185.234	0.2774	11367.96	0.0001	0.004441
Ti	47	3	He	527.044	0.216	8486.22	0.0004	0.0004559
Ti	47	3	He	526.789	0.2159	8748.37	0.0004	0.0004559
Ti	47	3	He	526.224	0.2157	8838.43	0.0004	0.0004559
V	51	3	He	521.596	9.2002	361454.19	0.0176	0.02609
V	51	3	He	507.753	8.9567	362933.88	0.0176	0.02609
V	51	3	He	511.881	9.0293	370038.59	0.0176	0.02609
Cr	52	3	He	526.997	11.4994	451787.81	0.0217	0.05061
Cr	52	3	He	511.219	11.1567	452080.07	0.0217	0.05061
Cr	52	3	He	520.589	11.3602	465565.27	0.0217	0.05061
Mn	55	3	He	527.87	4.822	189445.91	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	508.368	4.6443	188189.86	0.0091	0.01071
Mn	55	3	He	516.785	4.721	193474.72	0.0091	0.01071
Fe	57	3	He	5394.777	2.1628	84971.22	0.0004	0.008452
Fe	57	3	He	5203.928	2.0866	84550.15	0.0004	0.008452
Fe	57	3	He	5233.578	2.0984	85997.26	0.0004	0.008452
Co	59	3	He	524.579	21.6651	851175.69	0.0413	0.006013
Co	59	3	He	511.67	21.1322	856296.94	0.0413	0.006013
Co	59	3	He	506.245	20.9082	856858.31	0.0413	0.006013
Ni	60	3	He	521.196	6.1332	240961.05	0.0117	0.01172
Ni	60	3	He	513.057	6.0376	244651.14	0.0117	0.01172
Ni	60	3	He	507.474	5.9721	244747.02	0.0117	0.01172
Cu	63	3	He	506.82	9.9289	676799.50	0.0196	0.01443
Cu	63	3	He	518.452	10.1564	680370.00	0.0196	0.01443
Cu	63	3	He	520.996	10.2062	685146.31	0.0196	0.01443
Zn	66	3	He	510.086	1.1621	79214.11	0.0023	0.002807
Zn	66	3	He	522.609	1.1906	79754.54	0.0023	0.002807
Zn	66	3	He	522.589	1.1905	79919.68	0.0023	0.002807
As	75	3	He	502.687	0.9266	63161.05	0.0018	0.001271
As	75	3	He	511.601	0.943	63170.92	0.0018	0.001271
As	75	3	He	525.132	0.9679	64976.24	0.0018	0.001271
Sr	88	3	He	54.042	0.4452	23407.79	0.0082	0.00114
Sr	88	3	He	51.486	0.4242	22556.45	0.0082	0.00114
Sr	88	3	He	49.541	0.4082	22046.01	0.0082	0.00114
Mo	98	3	He	54.236	0.9621	50591.54	0.0177	0.001504
Mo	98	3	He	50.358	0.8934	47512.34	0.0177	0.001504
Mo	98	3	He	52.171	0.9256	49989.77	0.0177	0.001504
Ag	107	3	He	52.908	1.9469	102372.24	0.0368	0.001325
Ag	107	3	He	53.483	1.968	104657.65	0.0368	0.001325
Ag	107	3	He	51.894	1.9096	103138.35	0.0368	0.001325
Cd	111	3	He	55.371	0.2272	11946.62	0.0041	4.798E-05
Cd	111	3	He	54.3	0.2228	11848.53	0.0041	4.798E-05
Cd	111	3	He	53.067	0.2177	11760.46	0.0041	4.798E-05
Sn	120	3	He	104.541	1.3268	69767.47	0.0126	0.01097
Sn	120	3	He	104.59	1.3274	70591.30	0.0126	0.01097
Sn	120	3	He	103.411	1.3126	70893.16	0.0126	0.01097
Sb	121	3	He	104.749	1.2622	66367.36	0.012	0.0003595
Sb	121	3	He	104.729	1.2619	67107.40	0.012	0.0003595
Sb	121	3	He	102.427	1.2342	66658.74	0.012	0.0003595
Ba	137	3	He	529.42	2.0659	108632.21	0.0039	0.0003633
Ba	137	3	He	515.668	2.0123	107011.06	0.0039	0.0003633
Ba	137	3	He	513.23	2.0028	108170.31	0.0039	0.0003633
Tl	205	3	He	101.239	1.9188	377860.89	0.0189	0.001334
Tl	205	3	He	100.162	1.8984	374054.96	0.0189	0.001334
Tl	205	3	He	102.404	1.9408	378884.10	0.0189	0.001334
Pb	208	3	He	51.261	1.2911	137673.96	0.0252	0.001497
Pb	208	3	He	51.308	1.2923	136705.70	0.0252	0.001497
Pb	208	3	He	51.875	1.3065	137139.17	0.0252	0.001497
U	238	3	He	52.48	1.2884	253725.95	0.0245	0.0001141
U	238	3	He	52.164	1.2807	252342.83	0.0245	0.0001141
U	238	3	He	54.961	1.3493	263411.17	0.0245	0.0001141
Sc	45	1	No Gas			1693498.57		
Sc	45	1	No Gas			1694685.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1659736.85		
Ge	72	1	No Gas			856512.49		
Ge	72	1	No Gas			845691.94		
Ge	72	1	No Gas			835526.94		
Sc	45	2	H2			132985.55		
Sc	45	2	H2			131311.50		
Sc	45	2	H2			132551.09		
Ge	72	2	H2			100452.62		
Ge	72	2	H2			100271.49		
Ge	72	2	H2			98621.21		
In	115	2	H2			248757.87		
In	115	2	H2			248018.45		
In	115	2	H2			249366.99		
Sc	45	3	He			39287.82		
Sc	45	3	He			40521.03		
Sc	45	3	He			40982.01		
Ge	72	3	He			68164.71		
Ge	72	3	He			66989.13		
Ge	72	3	He			67130.42		
In	115	3	He			53070.76		
In	115	3	He			53672.94		
In	115	3	He			54506.36		
Tb	159	3	He			196928.10		
Tb	159	3	He			197039.49		
Tb	159	3	He			195217.52		
Bi	209	3	He			144459.28		
Bi	209	3	He			145359.04		
Bi	209	3	He			148437.72		

Quantitation Report

Data File Name	196SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 5:10:12 PM
Sample Name	410-227883-D-1-B @100
Sample Type	Sample
Comment	MS B7 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

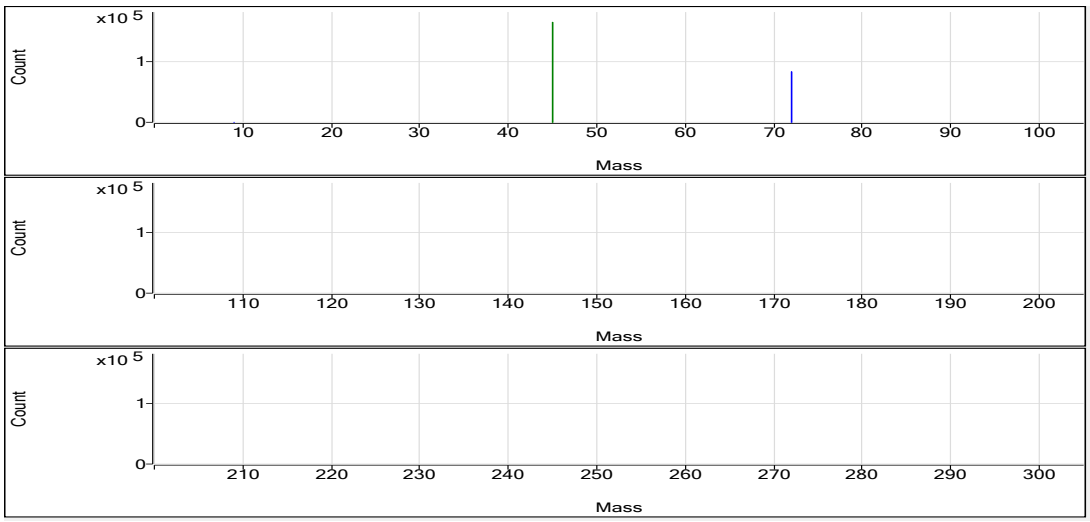
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.090	ppb	19.8	92.67	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.178	ppb	50.1	13.11	0.0001	Pulse	1.5000	3
Na	23	45	He	3218.580	ppb	2.4	336104.49	8.7732	Pulse	0.1000	3
Mg	24	45	He	6.351	ppb	51.2	1296.76	0.0339	Pulse	0.1000	3
Al	27	45	He	13.970	ppb	45.3	406.69	0.0106	Pulse	0.1000	3
K	39	45	He	9.723	ppb	792.5	20696.48	0.5403	Pulse	0.5000	3
Ca	44	45	He	108.456	ppb	12.3	388.68	0.0101	Pulse	0.5000	3
Ti	47	45	He	0.765	ppb	79.8	29.33	0.0008	Pulse	0.5000	3
V	51	45	He	0.433	ppb	18.6	1291.39	0.0337	Pulse	0.5000	3
Cr	52	45	He	2.403	ppb	9.0	3937.27	0.1028	Pulse	0.1000	3
Mn	55	45	He	4.830	ppb	5.0	2096.15	0.0547	Pulse	0.5000	3
Fe	57	45	He	930.272	ppb	2.2	14556.88	0.3799	Pulse	0.1000	3
Co	59	45	He	0.485	ppb	12.6	996.70	0.0260	Pulse	0.5000	3
Ni	60	45	He	21.410	ppb	1.8	10083.84	0.2632	Pulse	0.5000	3
Cu	63	72	He	0.159	ppb	48.3	1147.38	0.0175	Pulse	0.5000	3
Zn	66	72	He	536.245	ppb	2.3	79991.16	1.2216	Pulse	0.5000	3
As	75	72	He	0.937	ppb	17.5	196.00	0.0030	Pulse	0.5000	3
Sr	88	115	He	0.494	ppb	17.0	270.01	0.0052	Pulse	0.1000	3
Mo	98	115	He	5.180	ppb	4.3	4840.90	0.0932	Pulse	0.1000	3
Ag	107	115	He	0.029	ppb	28.3	123.34	0.0024	Pulse	0.1000	3
Cd	111	115	He	0.016	ppb	56.7	6.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.050	ppb	N/A	536.70	0.0103	Pulse	0.1000	3
Sb	121	115	He	0.276	ppb	13.1	191.11	0.0037	Pulse	0.3000	3
Ba	137	115	He	0.845	ppb	9.9	190.01	0.0037	Pulse	0.1000	3
Tl	205	159	He	0.263	ppb	13.9	1220.10	0.0063	Pulse	0.1000	3
Pb	208	159	He	0.043	ppb	2.7	496.68	0.0026	Pulse	0.1000	3
U	238	159	He	0.087	ppb	10.3	433.36	0.0022	Pulse	0.1000	3

ISTD Table:

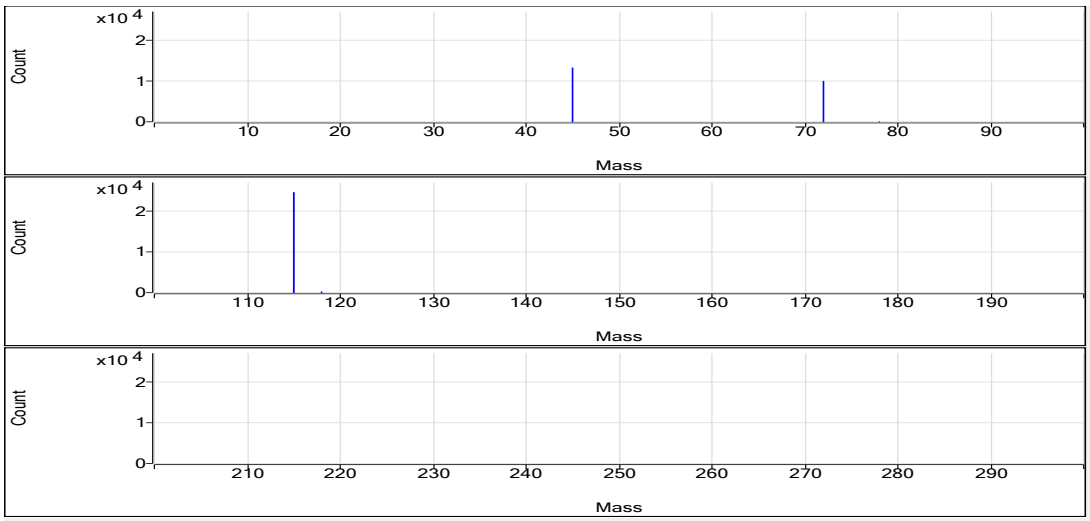
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1646301.02	0.1	96.4	Analog	0.1000	3
No Gas	Ge	72	832507.70	0.5	96.4	Pulse	0.1000	3
H2	Sc	45	131946.69	2.5	98.8	Pulse	0.1000	3
H2	Ge	72	99473.50	0.9	100.4	Pulse	0.1000	3
H2	In	115	245029.63	1.2	95.5	Pulse	0.1000	3
He	Sc	45	38322.09	2.1	97.1	Pulse	0.1000	3
He	Ge	72	65507.47	2.4	96.2	Pulse	0.1000	3
He	In	115	51916.72	0.2	93.7	Pulse	0.1000	3
He	Tb	159	193297.13	0.5	94.4	Pulse	0.1000	3
He	Bi	209	146156.84	1.5	96.6	Pulse	0.1000	3

No Gas

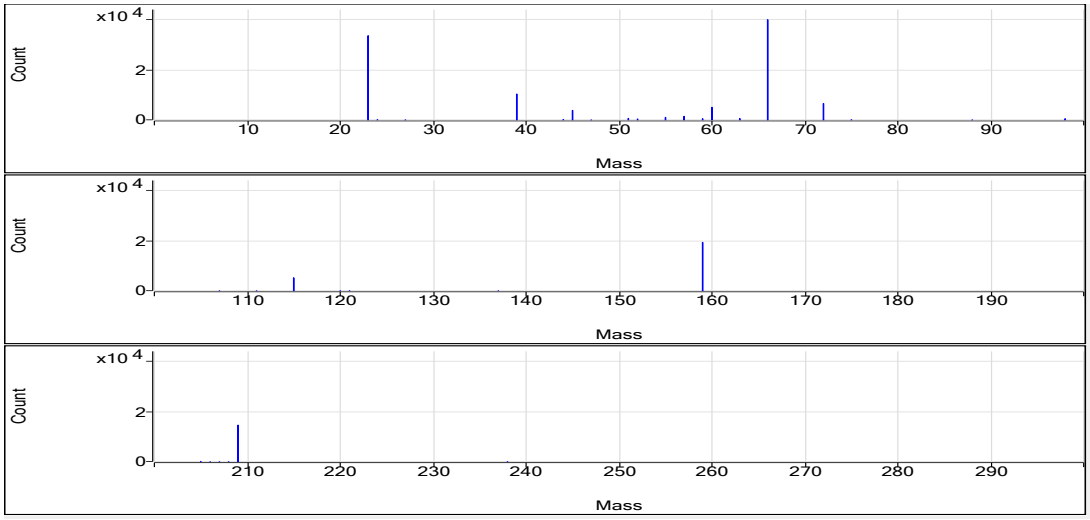


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.081	0.0001	88.00	0.0003	2.616E-05
Be	9	1	No Gas	0.077	0.0001	86.00	0.0003	2.616E-05
Be	9	1	No Gas	0.11	0.0001	104.00	0.0003	2.616E-05
Se	78	2	H2	0.272	0.0002	16.67	0.0004	6.3E-05
Se	78	2	H2	0.168	0.0001	12.67	0.0004	6.3E-05
Se	78	2	H2	0.094	0.0001	10.00	0.0004	6.3E-05
Na	23	3	He	3225.736	8.7911	334451.91	0.0025	0.7502
Na	23	3	He	3136.768	8.5693	336236.87	0.0025	0.7502
Na	23	3	He	3293.234	8.9593	337624.68	0.0025	0.7502
Mg	24	3	He	9.855	0.0381	1450.10	0.0012	0.02618
Mg	24	3	He	3.426	0.0303	1190.08	0.0012	0.02618
Mg	24	3	He	5.773	0.0332	1250.10	0.0012	0.02618
Al	27	3	He	19.327	0.0126	480.03	0.0004	0.005329
Al	27	3	He	15.606	0.0112	440.02	0.0004	0.005329
Al	27	3	He	6.979	0.008	300.01	0.0004	0.005329
K	39	3	He	98.49	0.6285	23909.39	0.001	0.5307
K	39	3	He	-29.469	0.5014	19673.70	0.001	0.5307
K	39	3	He	-39.853	0.4911	18506.34	0.001	0.5307
Ca	44	3	He	121.369	0.0108	412.01	0.0001	0.004441
Ca	44	3	He	94.78	0.0094	370.01	0.0001	0.004441
Ca	44	3	He	109.221	0.0102	384.01	0.0001	0.004441
Ti	47	3	He	0.813	0.0008	30.00	0.0004	0.0004559
Ti	47	3	He	0.132	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	1.351	0.001	38.00	0.0004	0.0004559
V	51	3	He	0.525	0.0353	1344.06	0.0176	0.02609
V	51	3	He	0.394	0.033	1296.06	0.0176	0.02609
V	51	3	He	0.378	0.0327	1234.05	0.0176	0.02609
Cr	52	3	He	2.523	0.1054	4010.61	0.0217	0.05061
Cr	52	3	He	2.152	0.0974	3820.58	0.0217	0.05061
Cr	52	3	He	2.533	0.1056	3980.62	0.0217	0.05061
Mn	55	3	He	4.905	0.0554	2108.15	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	4.558	0.0522	2050.14	0.0091	0.01071
Mn	55	3	He	5.027	0.0565	2130.15	0.0091	0.01071
Fe	57	3	He	920.521	0.3761	14306.68	0.0004	0.008452
Fe	57	3	He	916.164	0.3743	14687.00	0.0004	0.008452
Fe	57	3	He	954.131	0.3895	14676.97	0.0004	0.008452
Co	59	3	He	0.555	0.0289	1100.05	0.0413	0.006013
Co	59	3	He	0.442	0.0243	952.03	0.0413	0.006013
Co	59	3	He	0.457	0.0249	938.03	0.0413	0.006013
Ni	60	3	He	21.192	0.2606	9915.05	0.0117	0.01172
Ni	60	3	He	21.182	0.2605	10221.26	0.0117	0.01172
Ni	60	3	He	21.856	0.2684	10115.20	0.0117	0.01172
Cu	63	3	He	0.233	0.019	1216.05	0.0196	0.01443
Cu	63	3	He	0.08	0.016	1074.04	0.0196	0.01443
Cu	63	3	He	0.163	0.0176	1152.05	0.0196	0.01443
Zn	66	3	He	548.888	1.2503	80027.92	0.0023	0.002807
Zn	66	3	He	523.743	1.1931	80084.35	0.0023	0.002807
Zn	66	3	He	536.105	1.2212	79861.20	0.0023	0.002807
As	75	3	He	1.126	0.0033	214.00	0.0018	0.001271
As	75	3	He	0.831	0.0028	188.00	0.0018	0.001271
As	75	3	He	0.855	0.0028	186.00	0.0018	0.001271
Sr	88	3	He	0.565	0.0058	300.01	0.0082	0.00114
Sr	88	3	He	0.401	0.0044	230.01	0.0082	0.00114
Sr	88	3	He	0.516	0.0054	280.01	0.0082	0.00114
Mo	98	3	He	5.064	0.0912	4730.87	0.0177	0.001504
Mo	98	3	He	5.438	0.0978	5070.96	0.0177	0.001504
Mo	98	3	He	5.037	0.0907	4720.87	0.0177	0.001504
Ag	107	3	He	0.037	0.0027	140.01	0.0368	0.001325
Ag	107	3	He	0.027	0.0023	120.01	0.0368	0.001325
Ag	107	3	He	0.021	0.0021	110.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.017	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	-0.029	0.0106	550.03	0.0126	0.01097
Sn	120	3	He	0.079	0.012	620.03	0.0126	0.01097
Sn	120	3	He	-0.199	0.0085	440.03	0.0126	0.01097
Sb	121	3	He	0.306	0.004	210.00	0.012	0.0003595
Sb	121	3	He	0.285	0.0038	196.67	0.012	0.0003595
Sb	121	3	He	0.236	0.0032	166.67	0.012	0.0003595
Ba	137	3	He	0.796	0.0035	180.01	0.0039	0.0003633
Ba	137	3	He	0.797	0.0035	180.01	0.0039	0.0003633
Ba	137	3	He	0.941	0.004	210.01	0.0039	0.0003633
Tl	205	3	He	0.299	0.007	1350.11	0.0189	0.001334
Tl	205	3	He	0.264	0.0063	1230.10	0.0189	0.001334
Tl	205	3	He	0.226	0.0056	1080.08	0.0189	0.001334
Pb	208	3	He	0.041	0.0025	270.02	0.0252	0.001497
Pb	208	3	He	0.043	0.0026	260.01	0.0252	0.001497
Pb	208	3	He	0.044	0.0026	250.01	0.0252	0.001497
U	238	3	He	0.088	0.0023	440.02	0.0245	0.0001141
U	238	3	He	0.077	0.002	390.02	0.0245	0.0001141
U	238	3	He	0.095	0.0024	470.03	0.0245	0.0001141
Sc	45	1	No Gas			1643805.91		
Sc	45	1	No Gas			1647838.57		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1647258.57		
Ge	72	1	No Gas			835309.91		
Ge	72	1	No Gas			827229.99		
Ge	72	1	No Gas			834983.19		
Sc	45	2	H2			131161.48		
Sc	45	2	H2			129173.91		
Sc	45	2	H2			135504.67		
Ge	72	2	H2			99033.90		
Ge	72	2	H2			98843.53		
Ge	72	2	H2			100543.06		
In	115	2	H2			248047.75		
In	115	2	H2			242062.52		
In	115	2	H2			244978.63		
Sc	45	3	He			38044.57		
Sc	45	3	He			39237.46		
Sc	45	3	He			37684.24		
Ge	72	3	He			64007.67		
Ge	72	3	He			67120.78		
Ge	72	3	He			65393.97		
In	115	3	He			51877.01		
In	115	3	He			51846.64		
In	115	3	He			52037.79		
Tb	159	3	He			192969.82		
Tb	159	3	He			194388.53		
Tb	159	3	He			192533.04		
Bi	209	3	He			144500.52		
Bi	209	3	He			148722.33		
Bi	209	3	He			145247.67		

Quantitation Report

Data File Name	197SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 5:12:24 PM
Sample Name	455-1509-A-4-C
Sample Type	Sample
Comment	MS I5 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

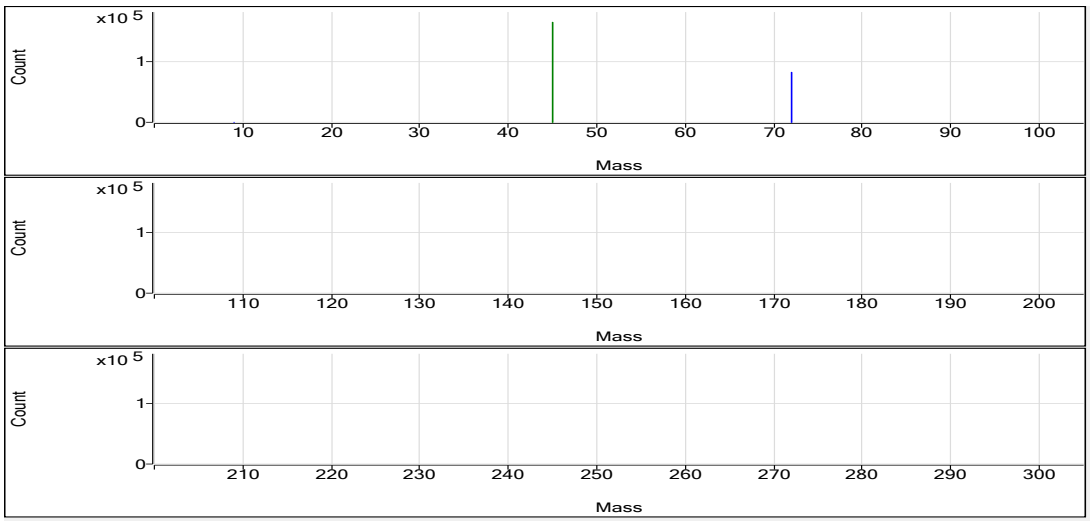
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.016	ppb	37.8	52.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	8.495	ppb	6.0	332.67	0.0034	Pulse	1.5000	3
Na	23	45	He	243470.996	ppb	3.1	23389713.82	607.6562	Analog	0.1000	3
Mg	24	45	He	2610.754	ppb	3.9	122671.67	3.1875	Pulse	0.1000	3
Al	27	45	He	364.001	ppb	5.6	5491.10	0.1426	Pulse	0.1000	3
K	39	45	He	9463.353	ppb	3.3	382115.90	9.9273	Pulse	0.5000	3
Ca	44	45	He	36516.102	ppb	3.6	74152.18	1.9266	Pulse	0.5000	3
Ti	47	45	He	12.352	ppb	14.0	212.00	0.0055	Pulse	0.5000	3
V	51	45	He	0.938	ppb	10.1	1639.43	0.0426	Pulse	0.5000	3
Cr	52	45	He	1.541	ppb	31.6	3230.43	0.0841	Pulse	0.1000	3
Mn	55	45	He	54.144	ppb	2.8	19409.55	0.5042	Pulse	0.5000	3
Fe	57	45	He	700.892	ppb	4.4	11097.44	0.2883	Pulse	0.1000	3
Co	59	45	He	0.651	ppb	5.6	1266.06	0.0329	Pulse	0.5000	3
Ni	60	45	He	2.297	ppb	11.1	1488.08	0.0387	Pulse	0.5000	3
Cu	63	72	He	4.442	ppb	1.4	6749.44	0.1013	Pulse	0.5000	3
Zn	66	72	He	7.269	ppb	1.1	1287.39	0.0193	Pulse	0.5000	3
As	75	72	He	0.560	ppb	32.3	153.33	0.0023	Pulse	0.5000	3
Sr	88	115	He	123.699	ppb	1.8	55253.23	1.0175	Pulse	0.1000	3
Mo	98	115	He	1.621	ppb	8.2	1640.14	0.0302	Pulse	0.1000	3
Ag	107	115	He	0.004	ppb	212.4	80.00	0.0015	Pulse	0.1000	3
Cd	111	115	He	0.039	ppb	12.3	11.33	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.543	ppb	22.7	966.73	0.0178	Pulse	0.1000	3
Sb	121	115	He	0.407	ppb	13.7	285.56	0.0053	Pulse	0.3000	3
Ba	137	115	He	20.792	ppb	6.4	4424.10	0.0815	Pulse	0.1000	3
Tl	205	159	He	0.045	ppb	33.9	430.02	0.0022	Pulse	0.1000	3
Pb	208	159	He	2.366	ppb	4.9	11999.05	0.0610	Pulse	0.1000	3
U	238	159	He	0.664	ppb	7.5	3227.14	0.0164	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1642256.02	1.3	96.1	Analog	0.1000	3
No Gas	Ge	72	822098.61	0.9	95.2	Pulse	0.1000	3
H2	Sc	45	132085.27	1.4	98.9	Pulse	0.1000	3
H2	Ge	72	99127.69	1.1	100.1	Pulse	0.1000	3
H2	In	115	246901.96	0.5	96.2	Pulse	0.1000	3
He	Sc	45	38516.09	3.1	97.6	Pulse	0.1000	3
He	Ge	72	66608.17	1.6	97.8	Pulse	0.1000	3
He	In	115	54304.98	0.8	98.0	Pulse	0.1000	3
He	Tb	159	196648.16	0.5	96.0	Pulse	0.1000	3
He	Bi	209	144849.40	1.3	95.8	Pulse	0.1000	3

No Gas



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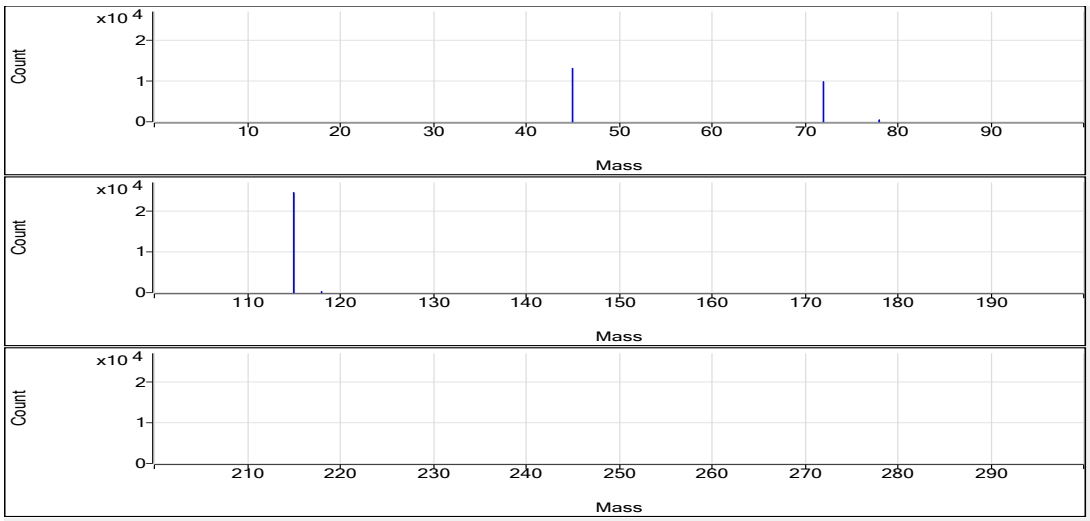
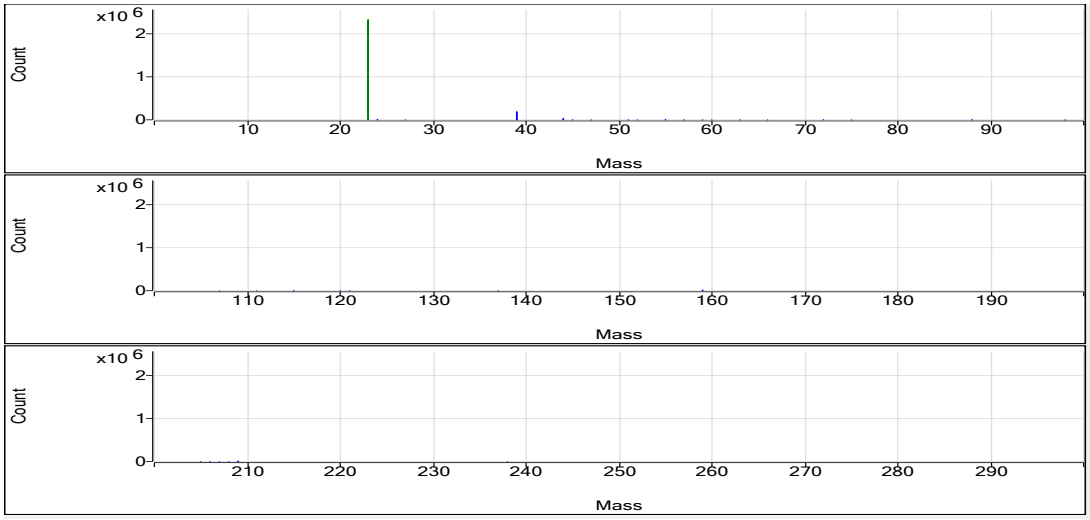


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.01	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	0.016	0	52.00	0.0003	2.616E-05
Be	9	1	No Gas	0.023	0	56.00	0.0003	2.616E-05
Se	78	2	H2	7.965	0.0032	316.00	0.0004	6.3E-05
Se	78	2	H2	8.976	0.0035	347.34	0.0004	6.3E-05
Se	78	2	H2	8.544	0.0034	334.67	0.0004	6.3E-05
Na	23	3	He	236711.946	590.8077	23359657.15	0.0025	0.7502
Na	23	3	He	242191.927	604.4678	23457654.65	0.0025	0.7502
Na	23	3	He	251509.114	627.693	23351829.65	0.0025	0.7502
Mg	24	3	He	2518.494	3.0758	121611.12	0.0012	0.02618
Mg	24	3	He	2594.439	3.1677	122930.21	0.0012	0.02618
Mg	24	3	He	2719.329	3.319	123473.67	0.0012	0.02618
Al	27	3	He	345.429	0.1356	5361.07	0.0004	0.005329
Al	27	3	He	385.698	0.1508	5851.20	0.0004	0.005329
Al	27	3	He	360.875	0.1414	5261.04	0.0004	0.005329
K	39	3	He	9212.283	9.678	382654.47	0.001	0.5307
K	39	3	He	9366.428	9.8311	381515.81	0.001	0.5307
K	39	3	He	9811.346	10.2729	382177.41	0.001	0.5307
Ca	44	3	He	35183.335	1.8565	73402.22	0.0001	0.004441
Ca	44	3	He	36535.354	1.9276	74806.30	0.0001	0.004441
Ca	44	3	He	37829.618	1.9958	74248.01	0.0001	0.004441
Ti	47	3	He	13.357	0.0059	234.01	0.0004	0.0004559
Ti	47	3	He	10.353	0.0047	182.00	0.0004	0.0004559
Ti	47	3	He	13.345	0.0059	220.00	0.0004	0.0004559
V	51	3	He	0.918	0.0422	1670.10	0.0176	0.02609
V	51	3	He	0.855	0.0411	1596.09	0.0176	0.02609
V	51	3	He	1.041	0.0444	1652.09	0.0176	0.02609
Cr	52	3	He	1.21	0.0769	3040.37	0.0217	0.05061
Cr	52	3	He	1.312	0.0791	3070.41	0.0217	0.05061
Cr	52	3	He	2.101	0.0962	3580.51	0.0217	0.05061
Mn	55	3	He	52.54	0.4896	19357.50	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	54.322	0.5058	19629.81	0.0091	0.01071
Mn	55	3	He	55.57	0.5172	19241.33	0.0091	0.01071
Fe	57	3	He	690.35	0.2841	11234.27	0.0004	0.008452
Fe	57	3	He	676.634	0.2787	10813.90	0.0004	0.008452
Fe	57	3	He	735.691	0.3022	11244.16	0.0004	0.008452
Co	59	3	He	0.653	0.033	1304.06	0.0413	0.006013
Co	59	3	He	0.613	0.0313	1216.05	0.0413	0.006013
Co	59	3	He	0.686	0.0344	1278.06	0.0413	0.006013
Ni	60	3	He	2.039	0.0357	1410.07	0.0117	0.01172
Ni	60	3	He	2.302	0.0388	1504.08	0.0117	0.01172
Ni	60	3	He	2.55	0.0417	1550.08	0.0117	0.01172
Cu	63	3	He	4.47	0.1019	6685.40	0.0196	0.01443
Cu	63	3	He	4.368	0.0999	6637.40	0.0196	0.01443
Cu	63	3	He	4.487	0.1022	6925.51	0.0196	0.01443
Zn	66	3	He	7.2	0.0192	1258.06	0.0023	0.002807
Zn	66	3	He	7.36	0.0195	1298.06	0.0023	0.002807
Zn	66	3	He	7.247	0.0193	1306.06	0.0023	0.002807
As	75	3	He	0.7	0.0026	168.00	0.0018	0.001271
As	75	3	He	0.356	0.0019	128.00	0.0018	0.001271
As	75	3	He	0.624	0.0024	164.00	0.0018	0.001271
Sr	88	3	He	124.011	1.02	54885.57	0.0082	0.00114
Sr	88	3	He	121.314	0.9979	54443.48	0.0082	0.00114
Sr	88	3	He	125.771	1.0345	56430.64	0.0082	0.00114
Mo	98	3	He	1.689	0.0314	1690.15	0.0177	0.001504
Mo	98	3	He	1.705	0.0317	1730.15	0.0177	0.001504
Mo	98	3	He	1.468	0.0275	1500.12	0.0177	0.001504
Ag	107	3	He	-0.001	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.001	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	0.014	0.0018	100.01	0.0368	0.001325
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.042	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.042	0.0002	12.00	0.0041	4.798E-05
Sn	120	3	He	0.428	0.0164	880.05	0.0126	0.01097
Sn	120	3	He	0.527	0.0176	960.06	0.0126	0.01097
Sn	120	3	He	0.673	0.0194	1060.08	0.0126	0.01097
Sb	121	3	He	0.407	0.0053	283.34	0.012	0.0003595
Sb	121	3	He	0.462	0.0059	323.34	0.012	0.0003595
Sb	121	3	He	0.351	0.0046	250.01	0.012	0.0003595
Ba	137	3	He	21.727	0.0851	4580.81	0.0039	0.0003633
Ba	137	3	He	19.265	0.0755	4120.69	0.0039	0.0003633
Ba	137	3	He	21.384	0.0838	4570.81	0.0039	0.0003633
Tl	205	3	He	0.047	0.0022	440.02	0.0189	0.001334
Tl	205	3	He	0.029	0.0019	370.02	0.0189	0.001334
Tl	205	3	He	0.059	0.0025	480.02	0.0189	0.001334
Pb	208	3	He	2.367	0.061	6771.77	0.0252	0.001497
Pb	208	3	He	2.249	0.0581	6201.52	0.0252	0.001497
Pb	208	3	He	2.483	0.064	6661.76	0.0252	0.001497
U	238	3	He	0.668	0.0165	3260.50	0.0245	0.0001141
U	238	3	He	0.612	0.0151	2980.41	0.0245	0.0001141
U	238	3	He	0.712	0.0176	3440.52	0.0245	0.0001141
Sc	45	1	No Gas			1618542.01		
Sc	45	1	No Gas			1651291.23		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1656934.82		
Ge	72	1	No Gas			818891.63		
Ge	72	1	No Gas			816797.49		
Ge	72	1	No Gas			830606.71		
Sc	45	2	H2			134175.51		
Sc	45	2	H2			131664.21		
Sc	45	2	H2			130416.10		
Ge	72	2	H2			100261.61		
Ge	72	2	H2			98007.38		
Ge	72	2	H2			99114.07		
In	115	2	H2			248146.97		
In	115	2	H2			246653.61		
In	115	2	H2			245905.31		
Sc	45	3	He			39538.51		
Sc	45	3	He			38807.12		
Sc	45	3	He			37202.63		
Ge	72	3	He			65624.06		
Ge	72	3	He			66447.43		
Ge	72	3	He			67753.01		
In	115	3	He			53813.46		
In	115	3	He			54565.85		
In	115	3	He			54555.94		
Tb	159	3	He			197434.16		
Tb	159	3	He			196867.15		
Tb	159	3	He			195643.16		
Bi	209	3	He			145085.67		
Bi	209	3	He			146579.28		
Bi	209	3	He			142883.24		

Quantitation Report

Data File Name	198SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 5:14:36 PM
Sample Name	455-1509-A-4-C
Sample Type	Sample
Comment	MS I5 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

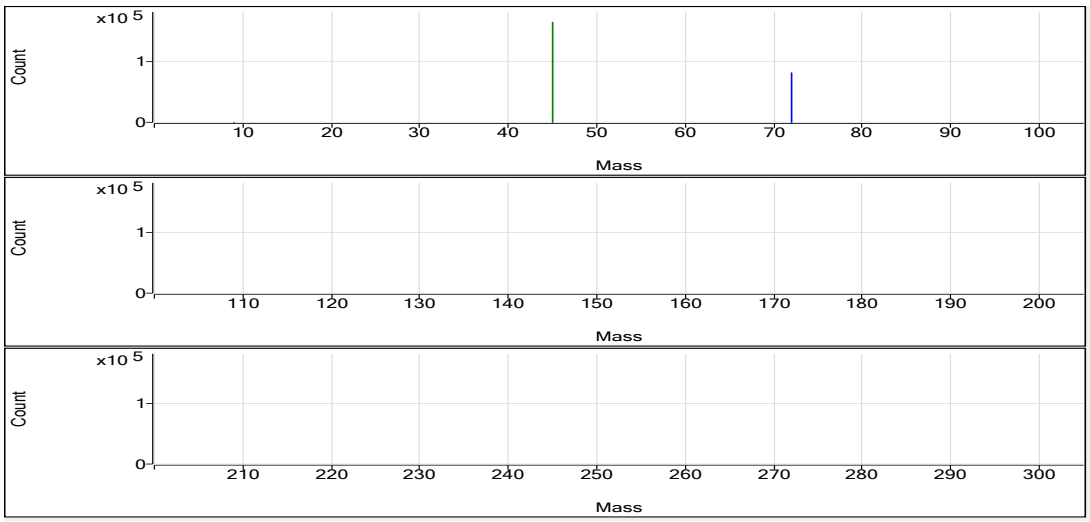
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.004	ppb	150.6	46.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	8.501	ppb	4.5	330.00	0.0034	Pulse	1.5000	3
Na	23	45	He	232348.889	ppb	1.5	23214797.99	579.9318	Analog	0.1000	3
Mg	24	45	He	2465.847	ppb	0.5	120576.68	3.0120	Pulse	0.1000	3
Al	27	45	He	352.312	ppb	4.0	5531.09	0.1382	Pulse	0.1000	3
K	39	45	He	9084.661	ppb	0.5	382362.46	9.5513	Pulse	0.5000	3
Ca	44	45	He	35041.567	ppb	1.1	74016.97	1.8490	Pulse	0.5000	3
Ti	47	45	He	10.697	ppb	7.5	193.33	0.0048	Pulse	0.5000	3
V	51	45	He	0.664	ppb	7.5	1512.08	0.0378	Pulse	0.5000	3
Cr	52	45	He	1.428	ppb	20.5	3267.10	0.0816	Pulse	0.1000	3
Mn	55	45	He	51.291	ppb	1.9	19141.89	0.4782	Pulse	0.5000	3
Fe	57	45	He	671.974	ppb	2.0	11080.74	0.2768	Pulse	0.1000	3
Co	59	45	He	0.546	ppb	3.4	1144.05	0.0286	Pulse	0.5000	3
Ni	60	45	He	2.051	ppb	3.2	1433.41	0.0358	Pulse	0.5000	3
Cu	63	72	He	4.439	ppb	4.1	6666.73	0.1013	Pulse	0.5000	3
Zn	66	72	He	6.884	ppb	6.3	1215.39	0.0185	Pulse	0.5000	3
As	75	72	He	0.632	ppb	24.9	160.00	0.0024	Pulse	0.5000	3
Sr	88	115	He	126.593	ppb	1.4	55300.23	1.0413	Pulse	0.1000	3
Mo	98	115	He	1.502	ppb	8.0	1493.45	0.0281	Pulse	0.1000	3
Ag	107	115	He	-0.011	ppb	N/A	50.00	0.0009	Pulse	0.1000	3
Cd	111	115	He	0.062	ppb	13.5	16.00	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.544	ppb	17.6	946.72	0.0178	Pulse	0.1000	3
Sb	121	115	He	0.391	ppb	12.4	268.89	0.0051	Pulse	0.3000	3
Ba	137	115	He	20.625	ppb	3.5	4294.07	0.0808	Pulse	0.1000	3
Tl	205	159	He	-0.008	ppb	N/A	230.01	0.0012	Pulse	0.1000	3
Pb	208	159	He	2.346	ppb	5.3	11842.26	0.0605	Pulse	0.1000	3
U	238	159	He	0.652	ppb	2.8	3157.14	0.0161	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1664812.11	0.7	97.4	Analog	0.1000	3
No Gas	Ge	72	823274.34	1.6	95.3	Pulse	0.1000	3
H2	Sc	45	132952.06	0.6	99.5	Pulse	0.1000	3
H2	Ge	72	98192.68	1.9	99.1	Pulse	0.1000	3
H2	In	115	250227.71	0.6	97.5	Pulse	0.1000	3
He	Sc	45	40033.03	0.9	101.4	Pulse	0.1000	3
He	Ge	72	65858.47	2.2	96.7	Pulse	0.1000	3
He	In	115	53114.85	1.4	95.9	Pulse	0.1000	3
He	Tb	159	195753.80	1.6	95.6	Pulse	0.1000	3
He	Bi	209	144497.34	1.1	95.5	Pulse	0.1000	3

No Gas



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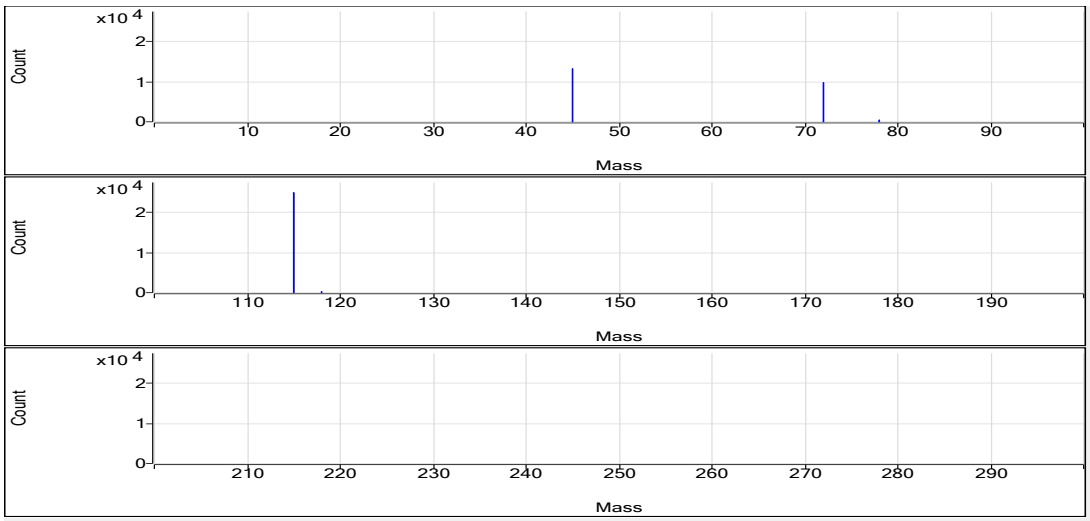
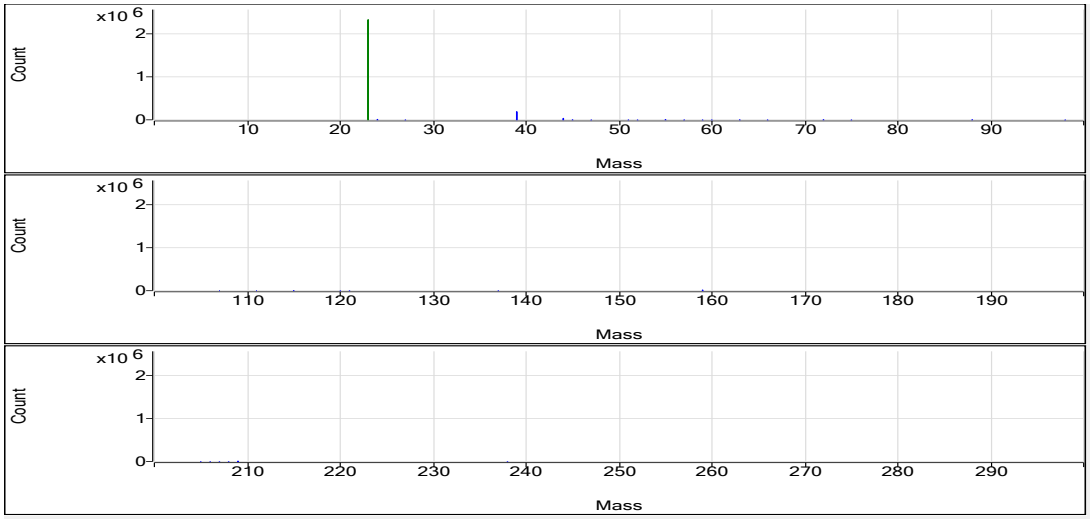


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.002	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	0.004	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	0.011	0	50.00	0.0003	2.616E-05
Se	78	2	H2	8.411	0.0033	320.00	0.0004	6.3E-05
Se	78	2	H2	8.172	0.0032	318.00	0.0004	6.3E-05
Se	78	2	H2	8.92	0.0035	352.00	0.0004	6.3E-05
Na	23	3	He	230804.748	576.0827	23268257.15	0.0025	0.7502
Na	23	3	He	236351.88	589.9102	23406922.15	0.0025	0.7502
Na	23	3	He	229890.04	573.8026	22969214.66	0.0025	0.7502
Mg	24	3	He	2457.499	3.0019	121248.41	0.0012	0.02618
Mg	24	3	He	2480.999	3.0304	120241.08	0.0012	0.02618
Mg	24	3	He	2459.042	3.0038	120240.56	0.0012	0.02618
Al	27	3	He	336.532	0.1322	5341.07	0.0004	0.005329
Al	27	3	He	357.524	0.1402	5561.06	0.0004	0.005329
Al	27	3	He	362.882	0.1422	5691.14	0.0004	0.005329
K	39	3	He	9084.96	9.5516	385793.44	0.001	0.5307
K	39	3	He	9126.907	9.5932	380648.34	0.001	0.5307
K	39	3	He	9042.115	9.5091	380645.59	0.001	0.5307
Ca	44	3	He	34611.334	1.8264	73767.73	0.0001	0.004441
Ca	44	3	He	35340.547	1.8647	73991.01	0.0001	0.004441
Ca	44	3	He	35172.821	1.8559	74292.17	0.0001	0.004441
Ti	47	3	He	10.509	0.0048	192.00	0.0004	0.0004559
Ti	47	3	He	11.58	0.0052	206.00	0.0004	0.0004559
Ti	47	3	He	10.003	0.0045	182.00	0.0004	0.0004559
V	51	3	He	0.62	0.037	1494.08	0.0176	0.02609
V	51	3	He	0.654	0.0376	1492.08	0.0176	0.02609
V	51	3	He	0.718	0.0387	1550.08	0.0176	0.02609
Cr	52	3	He	1.284	0.0785	3170.42	0.0217	0.05061
Cr	52	3	He	1.766	0.089	3530.47	0.0217	0.05061
Cr	52	3	He	1.236	0.0775	3100.40	0.0217	0.05061
Mn	55	3	He	50.215	0.4684	18918.93	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	52.018	0.4848	19237.35	0.0091	0.01071
Mn	55	3	He	51.639	0.4814	19269.40	0.0091	0.01071
Fe	57	3	He	661.687	0.2727	11014.03	0.0004	0.008452
Fe	57	3	He	666.992	0.2748	10904.01	0.0004	0.008452
Fe	57	3	He	687.242	0.2829	11324.19	0.0004	0.008452
Co	59	3	He	0.568	0.0295	1190.05	0.0413	0.006013
Co	59	3	He	0.533	0.028	1112.05	0.0413	0.006013
Co	59	3	He	0.538	0.0282	1130.05	0.0413	0.006013
Ni	60	3	He	2.097	0.0363	1468.08	0.0117	0.01172
Ni	60	3	He	2.08	0.0361	1434.07	0.0117	0.01172
Ni	60	3	He	1.976	0.0349	1398.07	0.0117	0.01172
Cu	63	3	He	4.529	0.103	6689.41	0.0196	0.01443
Cu	63	3	He	4.229	0.0972	6557.35	0.0196	0.01443
Cu	63	3	He	4.56	0.1036	6753.43	0.0196	0.01443
Zn	66	3	He	7.25	0.0193	1252.06	0.0023	0.002807
Zn	66	3	He	6.992	0.0187	1262.06	0.0023	0.002807
Zn	66	3	He	6.409	0.0174	1132.05	0.0023	0.002807
As	75	3	He	0.749	0.0026	172.00	0.0018	0.001271
As	75	3	He	0.452	0.0021	142.00	0.0018	0.001271
As	75	3	He	0.693	0.0025	166.00	0.0018	0.001271
Sr	88	3	He	128.241	1.0548	55126.09	0.0082	0.00114
Sr	88	3	He	126.877	1.0436	55868.81	0.0082	0.00114
Sr	88	3	He	124.661	1.0254	54905.80	0.0082	0.00114
Mo	98	3	He	1.384	0.026	1360.10	0.0177	0.001504
Mo	98	3	He	1.497	0.028	1500.13	0.0177	0.001504
Mo	98	3	He	1.623	0.0303	1620.12	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	0	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	0.054	0.0003	14.00	0.0041	4.798E-05
Cd	111	3	He	0.07	0.0003	18.00	0.0041	4.798E-05
Cd	111	3	He	0.061	0.0003	16.00	0.0041	4.798E-05
Sn	120	3	He	0.451	0.0166	870.05	0.0126	0.01097
Sn	120	3	He	0.643	0.0191	1020.06	0.0126	0.01097
Sn	120	3	He	0.538	0.0177	950.06	0.0126	0.01097
Sb	121	3	He	0.447	0.0057	300.01	0.012	0.0003595
Sb	121	3	He	0.368	0.0048	256.67	0.012	0.0003595
Sb	121	3	He	0.358	0.0047	250.00	0.012	0.0003595
Ba	137	3	He	20.312	0.0796	4160.68	0.0039	0.0003633
Ba	137	3	He	20.114	0.0788	4220.69	0.0039	0.0003633
Ba	137	3	He	21.45	0.0841	4500.83	0.0039	0.0003633
Tl	205	3	He	-0.011	0.0011	220.01	0.0189	0.001334
Tl	205	3	He	-0.007	0.0012	240.01	0.0189	0.001334
Tl	205	3	He	-0.007	0.0012	230.01	0.0189	0.001334
Pb	208	3	He	2.364	0.061	6251.58	0.0252	0.001497
Pb	208	3	He	2.215	0.0572	6091.46	0.0252	0.001497
Pb	208	3	He	2.461	0.0634	6321.58	0.0252	0.001497
U	238	3	He	0.662	0.0164	3220.49	0.0245	0.0001141
U	238	3	He	0.663	0.0164	3250.48	0.0245	0.0001141
U	238	3	He	0.631	0.0156	3000.44	0.0245	0.0001141
Sc	45	1	No Gas			1651382.94		
Sc	45	1	No Gas			1667555.44		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1675497.94		
Ge	72	1	No Gas			808370.61		
Ge	72	1	No Gas			829264.91		
Ge	72	1	No Gas			832187.49		
Sc	45	2	H2			132352.12		
Sc	45	2	H2			132631.88		
Sc	45	2	H2			133872.19		
Ge	72	2	H2			96247.04		
Ge	72	2	H2			98389.60		
Ge	72	2	H2			99941.40		
In	115	2	H2			249935.47		
In	115	2	H2			251794.45		
In	115	2	H2			248953.20		
Sc	45	3	He			40390.48		
Sc	45	3	He			39678.79		
Sc	45	3	He			40029.82		
Ge	72	3	He			64921.29		
Ge	72	3	He			67491.75		
Ge	72	3	He			65162.38		
In	115	3	He			52268.53		
In	115	3	He			53542.58		
In	115	3	He			53553.32		
Tb	159	3	He			196888.84		
Tb	159	3	He			198225.15		
Tb	159	3	He			192147.42		
Bi	209	3	He			146176.53		
Bi	209	3	He			144430.35		
Bi	209	3	He			142885.13		

Quantitation Report

Data File Name	200_CCV.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 5:19:01 PM
Sample Name	CCV 8028071
Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

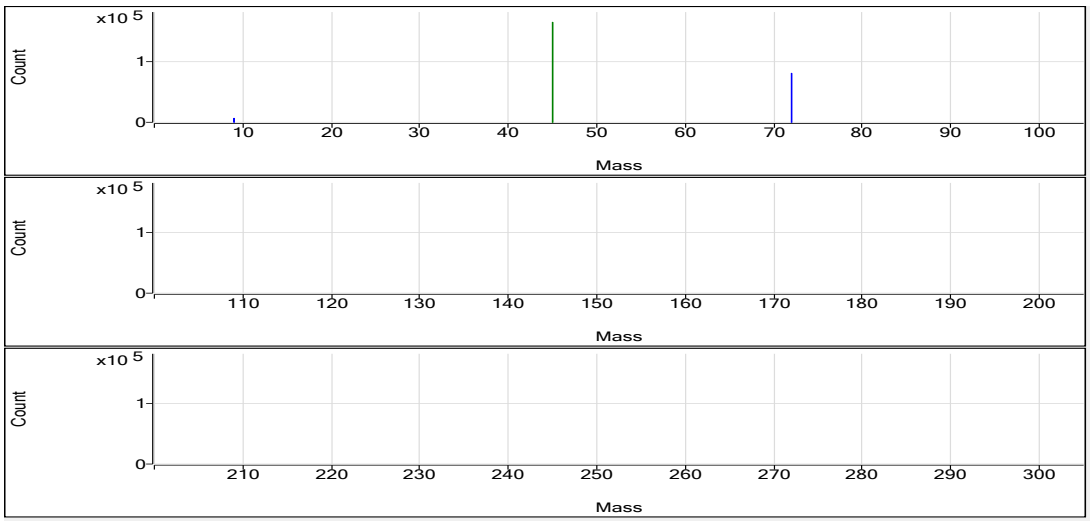
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.430	ppb	5.1	13739.63	0.0082	Pulse	0.5000	3
Se	78	72	H2	23.945	ppb	0.6	899.36	0.0093	Pulse	1.5000	3
Na	23	45	He	2432.059	ppb	1.5	272075.14	6.8126	Pulse	0.1000	3
Mg	24	45	He	2458.464	ppb	1.3	119942.55	3.0031	Pulse	0.1000	3
Al	27	45	He	2420.646	ppb	1.1	36671.10	0.9182	Pulse	0.1000	3
K	39	45	He	2465.625	ppb	1.9	118971.99	2.9789	Pulse	0.5000	3
Ca	44	45	He	2500.370	ppb	1.4	5434.25	0.1361	Pulse	0.5000	3
Ti	47	45	He	2477.868	ppb	0.6	40490.96	1.0138	Pulse	0.5000	3
V	51	45	He	246.082	ppb	1.3	173901.23	4.3543	Pulse	0.5000	3
Cr	52	45	He	246.171	ppb	1.7	215601.08	5.3986	Pulse	0.1000	3
Mn	55	45	He	247.034	ppb	1.3	90353.03	2.2623	Pulse	0.5000	3
Fe	57	45	He	2492.542	ppb	1.5	40093.33	1.0038	Pulse	0.1000	3
Co	59	45	He	245.315	ppb	0.8	404763.56	10.1347	Pulse	0.5000	3
Ni	60	45	He	246.101	ppb	0.9	115907.14	2.9022	Pulse	0.5000	3
Cu	63	72	He	246.867	ppb	0.7	321219.06	4.8437	Pulse	0.5000	3
Zn	66	72	He	245.423	ppb	0.7	37178.46	0.5606	Pulse	0.5000	3
As	75	72	He	245.717	ppb	0.1	30081.40	0.4536	Pulse	0.5000	3
Sr	88	115	He	23.542	ppb	1.5	10480.46	0.1946	Pulse	0.1000	3
Mo	98	115	He	24.179	ppb	3.7	23144.33	0.4298	Pulse	0.1000	3
Ag	107	115	He	24.146	ppb	2.6	47894.13	0.8892	Pulse	0.1000	3
Cd	111	115	He	25.236	ppb	1.5	5579.69	0.1036	Pulse	0.5000	3
Sn	120	115	He	24.267	ppb	4.2	17049.91	0.3164	Pulse	0.1000	3
Sb	121	115	He	24.499	ppb	1.7	15919.34	0.2955	Pulse	0.3000	3
Ba	137	115	He	243.389	ppb	1.6	51183.12	0.9500	Pulse	0.1000	3
Tl	205	159	He	24.737	ppb	1.6	91338.00	0.4698	Pulse	0.1000	3
Pb	208	159	He	24.906	ppb	2.9	122080.80	0.6281	Pulse	0.1000	3
U	238	159	He	25.019	ppb	0.4	119429.21	0.6143	Pulse	0.1000	3

ISTD Table:

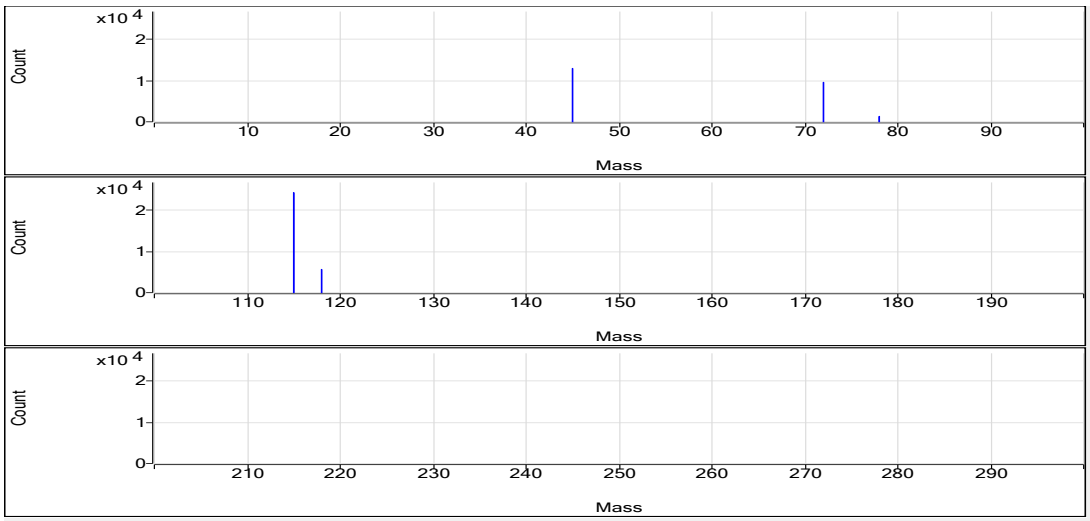
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1666314.56	1.1	97.5	Analog	0.1000	3
No Gas	Ge	72	817843.48	1.1	94.7	Pulse	0.1000	3
H2	Sc	45	129827.64	1.0	97.2	Pulse	0.1000	3
H2	Ge	72	96196.84	0.9	97.1	Pulse	0.1000	3
H2	In	115	243136.65	0.6	94.7	Pulse	0.1000	3
He	Sc	45	39939.36	0.7	101.2	Pulse	0.1000	3
He	Ge	72	66320.71	1.2	97.4	Pulse	0.1000	3
He	In	115	53874.88	1.7	97.2	Pulse	0.1000	3
He	Tb	159	194420.38	1.1	94.9	Pulse	0.1000	3
He	Bi	209	142820.27	0.9	94.4	Pulse	0.1000	3

No Gas

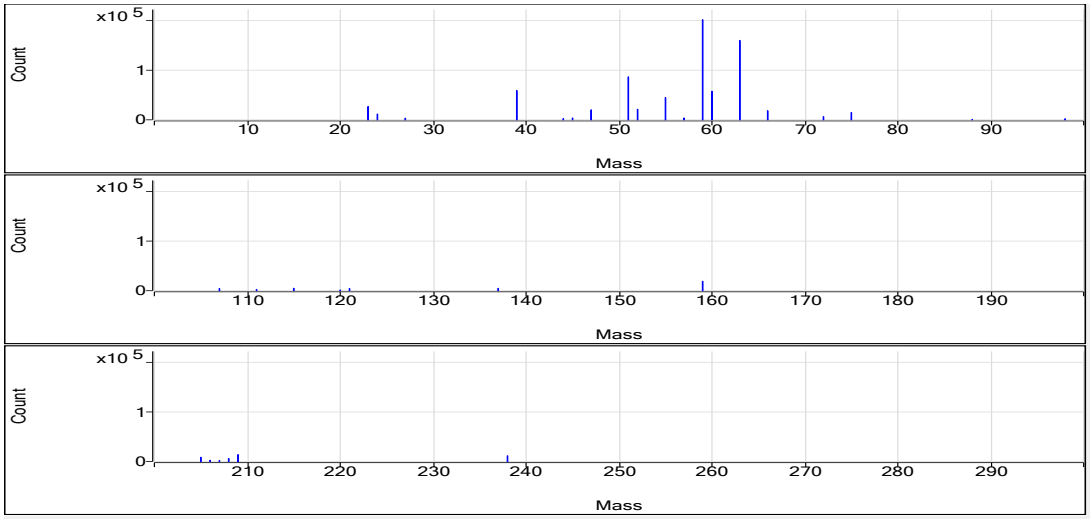


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.046	0.0078	13107.13	0.0003	2.616E-05
Be	9	1	No Gas	24.782	0.0084	13935.79	0.0003	2.616E-05
Be	9	1	No Gas	25.463	0.0086	14175.97	0.0003	2.616E-05
Se	78	2	H2	23.87	0.0093	905.36	0.0004	6.3E-05
Se	78	2	H2	23.869	0.0093	890.69	0.0004	6.3E-05
Se	78	2	H2	24.098	0.0094	902.03	0.0004	6.3E-05
Na	23	3	He	2418.486	6.7788	271148.49	0.0025	0.7502
Na	23	3	He	2473.506	6.916	274069.80	0.0025	0.7502
Na	23	3	He	2404.185	6.7432	271007.14	0.0025	0.7502
Mg	24	3	He	2426.026	2.9638	118550.30	0.0012	0.02618
Mg	24	3	He	2462.127	3.0075	119183.54	0.0012	0.02618
Mg	24	3	He	2487.24	3.0379	122093.82	0.0012	0.02618
Al	27	3	He	2451.565	0.9298	37192.20	0.0004	0.005329
Al	27	3	He	2403.542	0.9117	36129.75	0.0004	0.005329
Al	27	3	He	2406.831	0.9129	36691.35	0.0004	0.005329
K	39	3	He	2510.101	3.0231	120921.28	0.001	0.5307
K	39	3	He	2470.656	2.9839	118248.14	0.001	0.5307
K	39	3	He	2416.117	2.9298	117746.56	0.001	0.5307
Ca	44	3	He	2538.677	0.1381	5522.95	0.0001	0.004441
Ca	44	3	He	2473.07	0.1346	5334.89	0.0001	0.004441
Ca	44	3	He	2489.361	0.1355	5444.92	0.0001	0.004441
Ti	47	3	He	2462.74	1.0076	40305.20	0.0004	0.0004559
Ti	47	3	He	2493.214	1.0201	40425.44	0.0004	0.0004559
Ti	47	3	He	2477.65	1.0137	40742.23	0.0004	0.0004559
V	51	3	He	242.682	4.2945	171777.31	0.0176	0.02609
V	51	3	He	249.176	4.4087	174711.58	0.0176	0.02609
V	51	3	He	246.387	4.3597	175214.80	0.0176	0.02609
Cr	52	3	He	243.025	5.3303	213207.36	0.0217	0.05061
Cr	52	3	He	251.051	5.5046	218139.96	0.0217	0.05061
Cr	52	3	He	244.438	5.3609	215455.93	0.0217	0.05061
Mn	55	3	He	243.43	2.2295	89177.18	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	249.694	2.2866	90613.21	0.0091	0.01071
Mn	55	3	He	247.98	2.2709	91268.71	0.0091	0.01071
Fe	57	3	He	2459.146	0.9905	39618.72	0.0004	0.008452
Fe	57	3	He	2483.638	1.0003	39639.02	0.0004	0.008452
Fe	57	3	He	2534.841	1.0207	41022.25	0.0004	0.008452
Co	59	3	He	243.345	10.0534	402129.63	0.0413	0.006013
Co	59	3	He	247.495	10.2248	405193.13	0.0413	0.006013
Co	59	3	He	245.106	10.1261	406967.94	0.0413	0.006013
Ni	60	3	He	245.126	2.8908	115628.67	0.0117	0.01172
Ni	60	3	He	248.706	2.9328	116222.70	0.0117	0.01172
Ni	60	3	He	244.471	2.8831	115870.06	0.0117	0.01172
Cu	63	3	He	248.73	4.8801	319273.56	0.0196	0.01443
Cu	63	3	He	245.835	4.8235	322302.44	0.0196	0.01443
Cu	63	3	He	246.037	4.8274	322081.19	0.0196	0.01443
Zn	66	3	He	245.569	0.5609	36697.35	0.0023	0.002807
Zn	66	3	He	243.712	0.5567	37198.45	0.0023	0.002807
Zn	66	3	He	246.99	0.5641	37639.57	0.0023	0.002807
As	75	3	He	245.84	0.4538	29689.36	0.0018	0.001271
As	75	3	He	245.74	0.4536	30310.47	0.0018	0.001271
As	75	3	He	245.572	0.4533	30244.37	0.0018	0.001271
Sr	88	3	He	23.868	0.1972	10423.74	0.0082	0.00114
Sr	88	3	He	23.164	0.1915	10443.76	0.0082	0.00114
Sr	88	3	He	23.593	0.195	10573.87	0.0082	0.00114
Mo	98	3	He	25.191	0.4477	23658.42	0.0177	0.001504
Mo	98	3	He	23.801	0.4231	23077.42	0.0177	0.001504
Mo	98	3	He	23.545	0.4185	22697.16	0.0177	0.001504
Ag	107	3	He	24.795	0.9131	48255.39	0.0368	0.001325
Ag	107	3	He	23.566	0.8679	47342.24	0.0368	0.001325
Ag	107	3	He	24.076	0.8867	48084.75	0.0368	0.001325
Cd	111	3	He	25.372	0.1041	5502.99	0.0041	4.798E-05
Cd	111	3	He	24.821	0.1019	5557.01	0.0041	4.798E-05
Cd	111	3	He	25.516	0.1047	5679.06	0.0041	4.798E-05
Sn	120	3	He	23.572	0.3077	16259.17	0.0126	0.01097
Sn	120	3	He	23.786	0.3104	16929.76	0.0126	0.01097
Sn	120	3	He	25.442	0.3312	17960.81	0.0126	0.01097
Sb	121	3	He	24.347	0.2936	15517.80	0.012	0.0003595
Sb	121	3	He	24.17	0.2915	15901.55	0.012	0.0003595
Sb	121	3	He	24.981	0.3013	16338.67	0.012	0.0003595
Ba	137	3	He	240.91	0.9403	49691.50	0.0039	0.0003633
Ba	137	3	He	241.502	0.9426	51417.31	0.0039	0.0003633
Ba	137	3	He	247.755	0.967	52440.55	0.0039	0.0003633
Tl	205	3	He	24.353	0.4626	91113.78	0.0189	0.001334
Tl	205	3	He	25.134	0.4774	92320.05	0.0189	0.001334
Tl	205	3	He	24.723	0.4696	90580.17	0.0189	0.001334
Pb	208	3	He	24.074	0.6071	63960.56	0.0252	0.001497
Pb	208	3	He	25.318	0.6384	65808.89	0.0252	0.001497
Pb	208	3	He	25.326	0.6386	66572.82	0.0252	0.001497
U	238	3	He	24.911	0.6116	120473.71	0.0245	0.0001141
U	238	3	He	25.134	0.6171	119344.51	0.0245	0.0001141
U	238	3	He	25.013	0.6142	118469.40	0.0245	0.0001141
Sc	45	1	No Gas			1684196.54		
Sc	45	1	No Gas			1665580.13		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1649167.01		
Ge	72	1	No Gas			827325.53		
Ge	72	1	No Gas			817086.55		
Ge	72	1	No Gas			809118.35		
Sc	45	2	H2			129487.13		
Sc	45	2	H2			131272.99		
Sc	45	2	H2			128722.79		
Ge	72	2	H2			97142.44		
Ge	72	2	H2			95573.22		
Ge	72	2	H2			95874.85		
In	115	2	H2			244613.24		
In	115	2	H2			243190.45		
In	115	2	H2			241606.25		
Sc	45	3	He			39999.47		
Sc	45	3	He			39628.65		
Sc	45	3	He			40189.96		
Ge	72	3	He			65423.49		
Ge	72	3	He			66819.51		
Ge	72	3	He			66719.12		
In	115	3	He			52960.38		
In	115	3	He			54666.63		
In	115	3	He			54355.69		
Tb	159	3	He			196970.35		
Tb	159	3	He			193393.34		
Tb	159	3	He			192897.46		
Bi	209	3	He			144134.48		
Bi	209	3	He			142672.97		
Bi	209	3	He			141653.37		

Quantitation Report

Data File Name	202_CCB.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 5:23:25 PM
Sample Name	CCB 7996167
Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

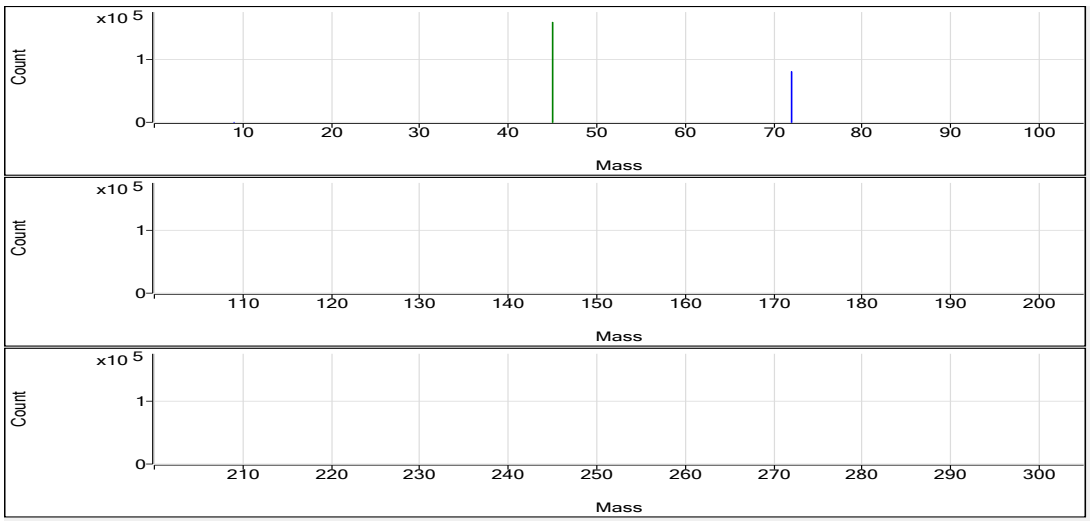
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.018	ppb	N/A	32.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.079	ppb	N/A	3.11	0.0000	Pulse	1.5000	3
Na	23	45	He	-86.974	ppb	N/A	20666.65	0.5334	Pulse	0.1000	3
Mg	24	45	He	-9.691	ppb	N/A	560.03	0.0144	Pulse	0.1000	3
Al	27	45	He	-1.801	ppb	N/A	180.01	0.0047	Pulse	0.1000	3
K	39	45	He	-7.787	ppb	N/A	20267.27	0.5229	Pulse	0.5000	3
Ca	44	45	He	-18.028	ppb	N/A	135.33	0.0035	Pulse	0.5000	3
Ti	47	45	He	-0.273	ppb	N/A	13.33	0.0003	Pulse	0.5000	3
V	51	45	He	-0.049	ppb	N/A	978.04	0.0252	Pulse	0.5000	3
Cr	52	45	He	-0.335	ppb	N/A	1680.14	0.0433	Pulse	0.1000	3
Mn	55	45	He	-0.300	ppb	N/A	309.34	0.0080	Pulse	0.5000	3
Fe	57	45	He	-6.293	ppb	N/A	230.01	0.0059	Pulse	0.1000	3
Co	59	45	He	-0.007	ppb	N/A	222.00	0.0057	Pulse	0.5000	3
Ni	60	45	He	-0.051	ppb	N/A	430.68	0.0111	Pulse	0.5000	3
Cu	63	72	He	-0.238	ppb	N/A	634.02	0.0098	Pulse	0.5000	3
Zn	66	72	He	0.288	ppb	77.2	224.67	0.0035	Pulse	0.5000	3
As	75	72	He	0.304	ppb	31.5	118.67	0.0018	Pulse	0.5000	3
Sr	88	115	He	-0.062	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Mo	98	115	He	-0.024	ppb	N/A	56.67	0.0011	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	2083.6	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.159	ppb	N/A	473.35	0.0090	Pulse	0.1000	3
Sb	121	115	He	0.024	ppb	25.7	34.45	0.0007	Pulse	0.3000	3
Ba	137	115	He	0.004	ppb	22.2	20.00	0.0004	Pulse	0.1000	3
Tl	205	159	He	-0.022	ppb	N/A	176.68	0.0009	Pulse	0.1000	3
Pb	208	159	He	-0.017	ppb	N/A	206.67	0.0011	Pulse	0.1000	3
U	238	159	He	0.002	ppb	358.7	30.00	0.0002	Pulse	0.1000	3

ISTD Table:

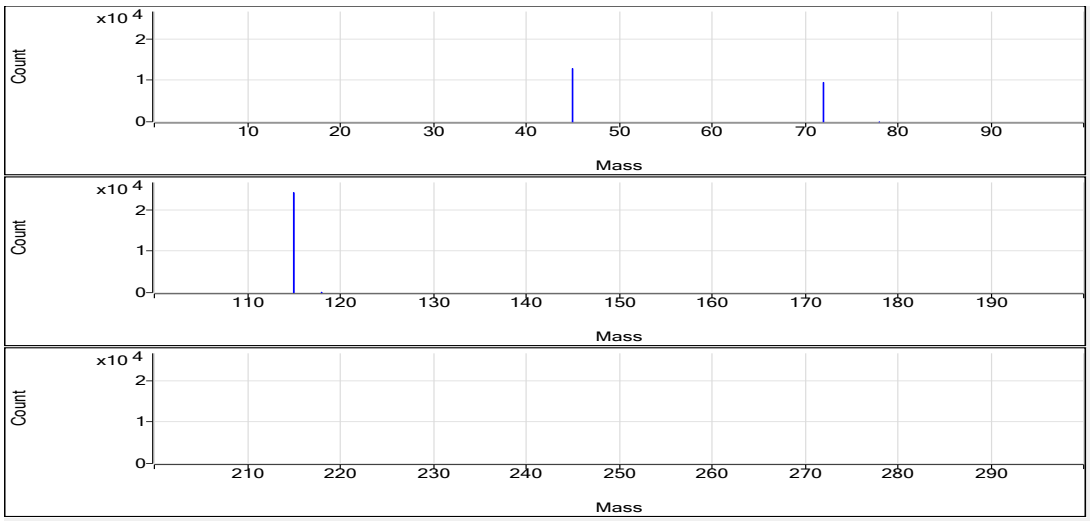
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1603644.97	1.8	93.9	Analog	0.1000	3
No Gas	Ge	72	812658.71	0.7	94.1	Pulse	0.1000	3
H2	Sc	45	128678.98	1.7	96.3	Pulse	0.1000	3
H2	Ge	72	95197.91	2.2	96.1	Pulse	0.1000	3
H2	In	115	241778.66	1.0	94.2	Pulse	0.1000	3
He	Sc	45	38753.09	0.8	98.2	Pulse	0.1000	3
He	Ge	72	64858.08	1.4	95.2	Pulse	0.1000	3
He	In	115	52833.44	0.9	95.4	Pulse	0.1000	3
He	Tb	159	191149.59	1.5	93.3	Pulse	0.1000	3
He	Bi	209	142029.17	0.7	93.9	Pulse	0.1000	3

No Gas

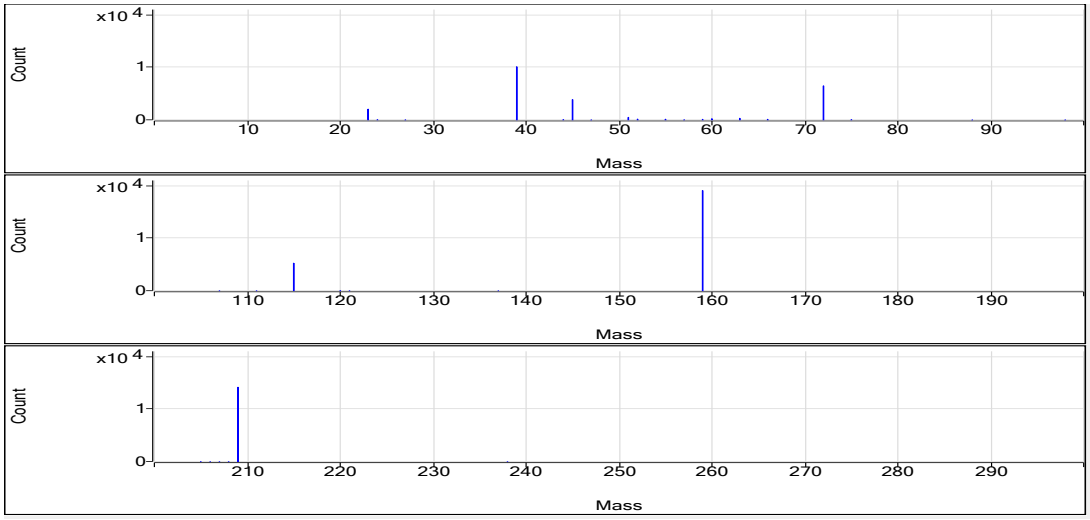


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.017	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.034	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.004	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.126	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.056	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.054	0	4.00	0.0004	6.3E-05
Na	23	3	He	-96.768	0.509	19802.30	0.0025	0.7502
Na	23	3	He	-78.465	0.5546	21294.01	0.0025	0.7502
Na	23	3	He	-85.689	0.5366	20903.64	0.0025	0.7502
Mg	24	3	He	-10.16	0.0139	540.02	0.0012	0.02618
Mg	24	3	He	-10.222	0.0138	530.03	0.0012	0.02618
Mg	24	3	He	-8.69	0.0157	610.04	0.0012	0.02618
Al	27	3	He	-1.863	0.0046	180.01	0.0004	0.005329
Al	27	3	He	1.062	0.0057	220.01	0.0004	0.005329
Al	27	3	He	-4.602	0.0036	140.01	0.0004	0.005329
K	39	3	He	63.366	0.5936	23094.26	0.001	0.5307
K	39	3	He	-25.541	0.5053	19401.42	0.001	0.5307
K	39	3	He	-61.185	0.4699	18306.13	0.001	0.5307
Ca	44	3	He	-20.888	0.0033	130.00	0.0001	0.004441
Ca	44	3	He	-19.054	0.0034	132.00	0.0001	0.004441
Ca	44	3	He	-14.143	0.0037	144.00	0.0001	0.004441
Ti	47	3	He	0.142	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	-0.223	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.738	0.0002	6.00	0.0004	0.0004559
V	51	3	He	-0.089	0.0245	954.04	0.0176	0.02609
V	51	3	He	-0.012	0.0259	994.04	0.0176	0.02609
V	51	3	He	-0.045	0.0253	986.04	0.0176	0.02609
Cr	52	3	He	-0.081	0.0488	1900.16	0.0217	0.05061
Cr	52	3	He	-0.531	0.0391	1500.12	0.0217	0.05061
Cr	52	3	He	-0.392	0.0421	1640.14	0.0217	0.05061
Mn	55	3	He	-0.312	0.0079	306.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.363	0.0074	284.00	0.0091	0.01071
Mn	55	3	He	-0.223	0.0087	338.01	0.0091	0.01071
Fe	57	3	He	-6.362	0.0059	230.01	0.0004	0.008452
Fe	57	3	He	-4.208	0.0068	260.01	0.0004	0.008452
Fe	57	3	He	-8.309	0.0051	200.01	0.0004	0.008452
Co	59	3	He	0.017	0.0067	262.00	0.0413	0.006013
Co	59	3	He	-0.021	0.0052	198.00	0.0413	0.006013
Co	59	3	He	-0.018	0.0053	206.00	0.0413	0.006013
Ni	60	3	He	-0.043	0.0112	436.01	0.0117	0.01172
Ni	60	3	He	-0.079	0.0108	414.01	0.0117	0.01172
Ni	60	3	He	-0.031	0.0113	442.01	0.0117	0.01172
Cu	63	3	He	-0.222	0.0101	654.02	0.0196	0.01443
Cu	63	3	He	-0.273	0.0091	582.01	0.0196	0.01443
Cu	63	3	He	-0.22	0.0101	666.02	0.0196	0.01443
Zn	66	3	He	0.516	0.004	258.00	0.0023	0.002807
Zn	66	3	He	0.072	0.003	190.00	0.0023	0.002807
Zn	66	3	He	0.276	0.0034	226.00	0.0023	0.002807
As	75	3	He	0.265	0.0018	114.00	0.0018	0.001271
As	75	3	He	0.414	0.002	130.00	0.0018	0.001271
As	75	3	He	0.234	0.0017	112.00	0.0018	0.001271
Sr	88	3	He	-0.116	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	-0.046	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.024	0.0009	50.00	0.0082	0.00114
Mo	98	3	He	0.011	0.0017	90.00	0.0177	0.001504
Mo	98	3	He	-0.031	0.001	50.00	0.0177	0.001504
Mo	98	3	He	-0.053	0.0006	30.00	0.0177	0.001504
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.197	0.0085	450.02	0.0126	0.01097
Sn	120	3	He	-0.081	0.0099	520.02	0.0126	0.01097
Sn	120	3	He	-0.198	0.0085	450.02	0.0126	0.01097
Sb	121	3	He	0.017	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.028	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.027	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	0.003	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.005	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.003	0.0004	20.00	0.0039	0.0003633
Tl	205	3	He	-0.019	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.017	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Pb	208	3	He	-0.023	0.0009	90.00	0.0252	0.001497
Pb	208	3	He	-0.019	0.001	60.00	0.0252	0.001497
Pb	208	3	He	-0.008	0.0013	110.00	0.0252	0.001497
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1569529.66		
Sc	45	1	No Gas			1622976.07		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1618429.19		
Ge	72	1	No Gas			811126.39		
Ge	72	1	No Gas			807663.74		
Ge	72	1	No Gas			819186.00		
Sc	45	2	H2			126867.64		
Sc	45	2	H2			131162.15		
Sc	45	2	H2			128007.14		
Ge	72	2	H2			92948.04		
Ge	72	2	H2			97192.67		
Ge	72	2	H2			95453.01		
In	115	2	H2			239483.51		
In	115	2	H2			244225.88		
In	115	2	H2			241626.58		
Sc	45	3	He			38906.66		
Sc	45	3	He			38395.79		
Sc	45	3	He			38956.83		
Ge	72	3	He			64830.81		
Ge	72	3	He			63958.07		
Ge	72	3	He			65785.37		
In	115	3	He			53060.94		
In	115	3	He			52297.98		
In	115	3	He			53151.33		
Tb	159	3	He			194033.12		
Tb	159	3	He			188240.02		
Tb	159	3	He			191175.62		
Bi	209	3	He			142177.47		
Bi	209	3	He			140986.06		
Bi	209	3	He			142923.98		

US EPA Tune Check Report

Operator Name	us19_usr_ins23851
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA_ICPMS Half QC.b
Acq. Date-Time	7/10/2025 8:22:56 AM
Report Comment	E08 Tune Report
Instrument Name	G8403A SG19504696

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9	10.00	2121	21209.77			1.023	5.000
24	10.00	13844	138439.21			0.218	5.000
25	10.00	1880	18801.80			0.431	5.000
26	10.00	2213	22129.69			0.373	5.000
59	10.00	26265	262648.34			0.157	5.000
115	10.00	36667	366670.66			0.218	5.000
206	10.00	7395	73945.19			0.635	5.000
207	10.00	6074	60744.09			0.442	5.000
208	10.00	14921	149205.03			0.638	5.000

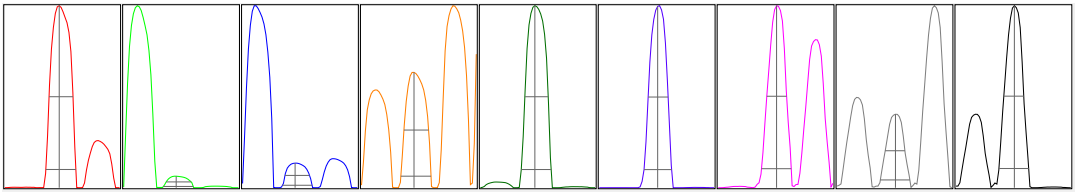
Mass	RSD% (Flag)
9	
24	
25	
26	
59	
115	
206	
207	
208	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2086	2120	2125	2144	2130
24	13799	13884	13849	13849	13838
25	1868	1884	1888	1875	1885
26	2208	2208	2224	2206	2219
59	26229	26227	26252	26319	26296
115	36557	36655	36779	36656	36688
206	7324	7372	7440	7427	7410
207	6037	6057	6091	6086	6101
208	14788	14912	14981	14885	15037

Integration Time [sec] 0.1

Resolution/Axis

US EPA Tune Check Report



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3618.95	8.95	8.90 - 9.10	
24	23065.98	23.90	23.90 - 24.10	
25	3116.83	24.90	24.90 - 25.10	
26	3677.74	25.90	25.90 - 26.10	
59	45337.21	58.95	58.90 - 59.10	
115	72564.21	115.05	114.90 - 115.10	
206	14311.22	206.05	205.90 - 206.10	
207	11644.68	207.05	206.90 - 207.10	
208	28836.43	208.05	207.90 - 208.10	

Mass	W-50%	W-10%	W-10% (Required)	W-10% (Flag)
9	0.62	0.772	0.900	
24	0.64	0.769	0.900	
25	0.63	0.762	0.900	
26	0.63	0.776	0.900	
59	0.60	0.769	0.900	
115	0.51	0.709	0.900	
206	0.51	0.765	0.900	
207	0.51	0.759	0.900	
208	0.51	0.765	0.900	

Integration Time [sec]	0.1
Acquisition Time [sec]	235
Y Axis	Linear

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	1.05 L/min	Dilution Gas	0.00 L/min
RF Power	1550 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.1 V	Deflect	15.4 V
Extract 2	-240.0 V	Cell Entrance	-24 V	Plate Bias	-45 V
Omega Bias	-110 V	Cell Exit	-54 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V

US EPA Tune Check Report

He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	0.0 mL/min	OctP RF	190 V		

QP Parameters

Mass Gain	144	Axis Gain	0.9996	QP Bias	-3.0 V
Mass Offset	123	Axis Offset	0.09		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	-0.7 mm		

EM

Discriminator	2.1 mV	Analog HV	2190 V	Pulse HV	1159 V

Quantitation Report

Data File Name	203SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 5:25:40 PM
Sample Name	MB 410-665887/1-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

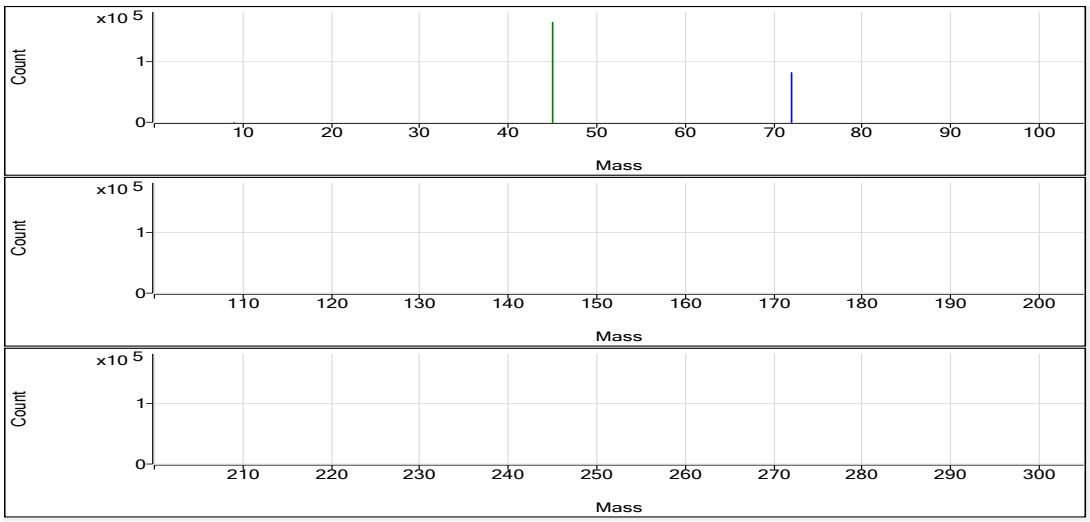
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.024	ppb	N/A	30.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.097	ppb	N/A	2.45	0.0000	Pulse	1.5000	3
Na	23	45	He	-82.491	ppb	N/A	20947.00	0.5446	Pulse	0.1000	3
Mg	24	45	He	-7.233	ppb	N/A	670.04	0.0174	Pulse	0.1000	3
Al	27	45	He	-2.215	ppb	N/A	173.34	0.0045	Pulse	0.1000	3
K	39	45	He	2.974	ppb	2335.6	20518.92	0.5336	Pulse	0.5000	3
Ca	44	45	He	-10.977	ppb	N/A	148.67	0.0039	Pulse	0.5000	3
Ti	47	45	He	-0.265	ppb	N/A	13.33	0.0003	Pulse	0.5000	3
V	51	45	He	-0.232	ppb	N/A	846.70	0.0220	Pulse	0.5000	3
Cr	52	45	He	-0.613	ppb	N/A	1433.44	0.0373	Pulse	0.1000	3
Mn	55	45	He	-0.296	ppb	N/A	308.01	0.0080	Pulse	0.5000	3
Fe	57	45	He	-9.421	ppb	N/A	180.01	0.0047	Pulse	0.1000	3
Co	59	45	He	-0.043	ppb	N/A	163.33	0.0042	Pulse	0.5000	3
Ni	60	45	He	-0.264	ppb	N/A	331.34	0.0086	Pulse	0.5000	3
Cu	63	72	He	-0.339	ppb	N/A	506.68	0.0078	Pulse	0.5000	3
Zn	66	72	He	0.728	ppb	27.3	290.00	0.0045	Pulse	0.5000	3
As	75	72	He	0.402	ppb	23.7	130.67	0.0020	Pulse	0.5000	3
Sr	88	115	He	-0.108	ppb	N/A	13.33	0.0002	Pulse	0.1000	3
Mo	98	115	He	-0.043	ppb	N/A	40.00	0.0007	Pulse	0.1000	3
Ag	107	115	He	-0.019	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.006	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.342	ppb	37.2	816.71	0.0153	Pulse	0.1000	3
Sb	121	115	He	0.010	ppb	236.6	25.56	0.0005	Pulse	0.3000	3
Ba	137	115	He	-0.013	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Tl	205	159	He	-0.050	ppb	N/A	76.67	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.014	ppb	N/A	223.34	0.0012	Pulse	0.1000	3
U	238	159	He	-0.001	ppb	N/A	16.67	0.0001	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1654203.47	1.6	96.8	Analog	0.1000	3
No Gas	Ge	72	819636.24	0.7	94.9	Pulse	0.1000	3
H2	Sc	45	131076.41	1.5	98.1	Pulse	0.1000	3
H2	Ge	72	96790.85	1.0	97.7	Pulse	0.1000	3
H2	In	115	246092.09	1.1	95.9	Pulse	0.1000	3
He	Sc	45	38475.81	1.3	97.5	Pulse	0.1000	3
He	Ge	72	64994.97	0.7	95.4	Pulse	0.1000	3
He	In	115	53463.40	0.7	96.5	Pulse	0.1000	3
He	Tb	159	194221.36	0.3	94.8	Pulse	0.1000	3
He	Bi	209	143379.59	1.3	94.8	Pulse	0.1000	3

No Gas



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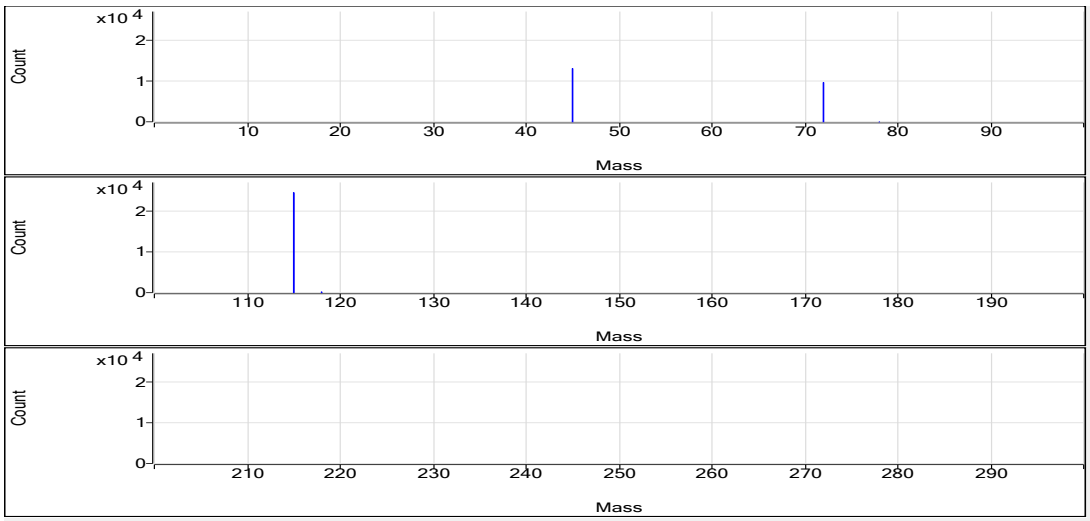
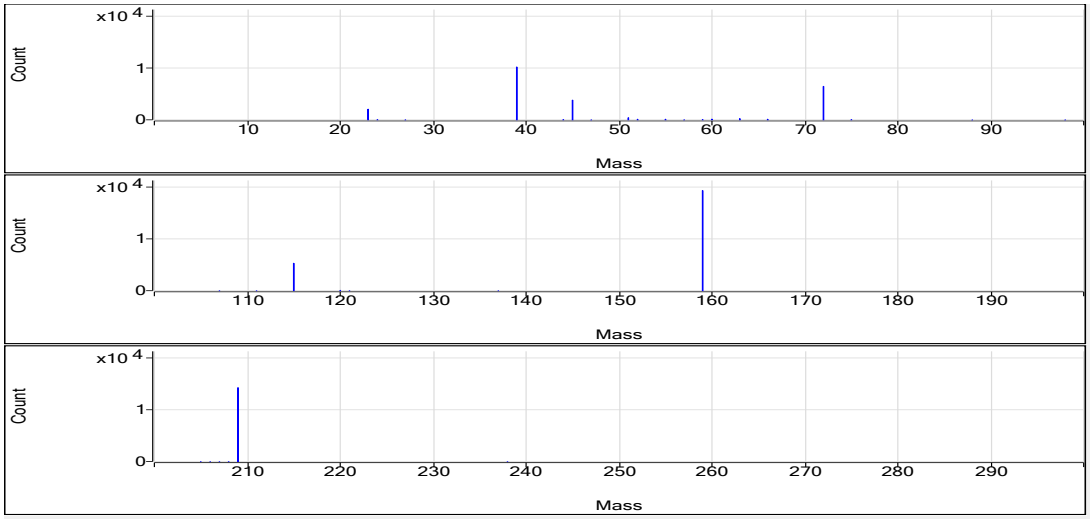


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.039	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.006	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.026	0	28.00	0.0003	2.616E-05
Se	78	2	H2	-0.092	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.092	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Na	23	3	He	-83.384	0.5423	20763.43	0.0025	0.7502
Na	23	3	He	-75.275	0.5625	21424.33	0.0025	0.7502
Na	23	3	He	-88.815	0.5288	20653.24	0.0025	0.7502
Mg	24	3	He	-5.228	0.0199	760.05	0.0012	0.02618
Mg	24	3	He	-7.96	0.0165	630.04	0.0012	0.02618
Mg	24	3	He	-8.512	0.0159	620.03	0.0012	0.02618
Al	27	3	He	-3.05	0.0042	160.01	0.0004	0.005329
Al	27	3	He	-5.08	0.0034	130.01	0.0004	0.005329
Al	27	3	He	1.484	0.0059	230.01	0.0004	0.005329
K	39	3	He	81.179	0.6113	23402.72	0.001	0.5307
K	39	3	He	-20.697	0.5101	19427.42	0.001	0.5307
K	39	3	He	-51.559	0.4795	18726.62	0.001	0.5307
Ca	44	3	He	-8.942	0.004	152.00	0.0001	0.004441
Ca	44	3	He	-14.53	0.0037	140.00	0.0001	0.004441
Ca	44	3	He	-9.459	0.0039	154.00	0.0001	0.004441
Ti	47	3	He	-0.604	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	0.298	0.0006	22.00	0.0004	0.0004559
Ti	47	3	He	-0.489	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.281	0.0212	810.03	0.0176	0.02609
V	51	3	He	-0.179	0.0229	874.03	0.0176	0.02609
V	51	3	He	-0.238	0.0219	856.03	0.0176	0.02609
Cr	52	3	He	-0.382	0.0423	1620.13	0.0217	0.05061
Cr	52	3	He	-0.613	0.0373	1420.10	0.0217	0.05061
Cr	52	3	He	-0.844	0.0323	1260.08	0.0217	0.05061
Mn	55	3	He	-0.292	0.008	308.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.276	0.0082	312.00	0.0091	0.01071
Mn	55	3	He	-0.321	0.0078	304.01	0.0091	0.01071
Fe	57	3	He	-10.046	0.0044	170.01	0.0004	0.008452
Fe	57	3	He	-5.385	0.0063	240.01	0.0004	0.008452
Fe	57	3	He	-12.831	0.0033	130.00	0.0004	0.008452
Co	59	3	He	-0.034	0.0046	176.00	0.0413	0.006013
Co	59	3	He	-0.049	0.004	152.00	0.0413	0.006013
Co	59	3	He	-0.045	0.0041	162.00	0.0413	0.006013
Ni	60	3	He	-0.29	0.0083	318.00	0.0117	0.01172
Ni	60	3	He	-0.175	0.0097	368.01	0.0117	0.01172
Ni	60	3	He	-0.326	0.0079	308.01	0.0117	0.01172
Cu	63	3	He	-0.307	0.0084	544.01	0.0196	0.01443
Cu	63	3	He	-0.351	0.0076	494.01	0.0196	0.01443
Cu	63	3	He	-0.36	0.0074	482.01	0.0196	0.01443
Zn	66	3	He	0.784	0.0046	296.00	0.0023	0.002807
Zn	66	3	He	0.893	0.0048	316.00	0.0023	0.002807
Zn	66	3	He	0.507	0.004	258.00	0.0023	0.002807
As	75	3	He	0.472	0.0021	138.00	0.0018	0.001271
As	75	3	He	0.441	0.0021	136.00	0.0018	0.001271
As	75	3	He	0.293	0.0018	118.00	0.0018	0.001271
Sr	88	3	He	-0.139	0	0.00	0.0082	0.00114
Sr	88	3	He	-0.07	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.116	0.0002	10.00	0.0082	0.00114
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.032	0.0009	50.00	0.0177	0.001504
Mo	98	3	He	-0.054	0.0006	30.00	0.0177	0.001504
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.204	0.0135	720.03	0.0126	0.01097
Sn	120	3	He	0.366	0.0156	830.05	0.0126	0.01097
Sn	120	3	He	0.455	0.0167	900.06	0.0126	0.01097
Sb	121	3	He	0.012	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	-0.014	0.0002	10.00	0.012	0.0003595
Sb	121	3	He	0.032	0.0007	40.00	0.012	0.0003595
Ba	137	3	He	-0.045	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.099	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	-0.093	0	0.00	0.0039	0.0003633
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Pb	208	3	He	-0.017	0.0011	130.00	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	140.01	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	140.01	0.0252	0.001497
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1672371.38		
Sc	45	1	No Gas			1666274.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1623964.98		
Ge	72	1	No Gas			825587.33		
Ge	72	1	No Gas			819742.64		
Ge	72	1	No Gas			813578.74		
Sc	45	2	H2			131684.63		
Sc	45	2	H2			132641.93		
Sc	45	2	H2			128902.67		
Ge	72	2	H2			97202.28		
Ge	72	2	H2			97536.69		
Ge	72	2	H2			95633.57		
In	115	2	H2			248777.52		
In	115	2	H2			245921.95		
In	115	2	H2			243576.79		
Sc	45	3	He			38285.51		
Sc	45	3	He			38084.70		
Sc	45	3	He			39057.23		
Ge	72	3	He			64509.57		
Ge	72	3	He			65322.87		
Ge	72	3	He			65152.48		
In	115	3	He			53201.85		
In	115	3	He			53291.63		
In	115	3	He			53913.88		
Tb	159	3	He			194639.68		
Tb	159	3	He			193637.40		
Tb	159	3	He			194386.99		
Bi	209	3	He			144592.29		
Bi	209	3	He			144337.19		
Bi	209	3	He			141209.29		

Quantitation Report

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Sample Name	LCS 410-665887/2-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

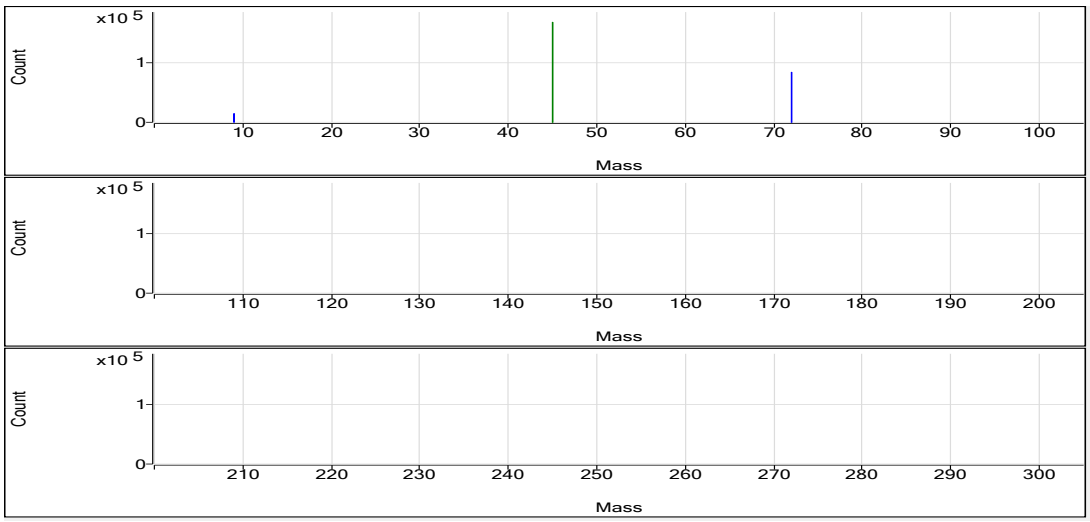
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	52.224	ppb	3.6	29575.80	0.0176	Pulse	0.5000	3
Se	78	72	H2	102.265	ppb	1.2	3943.82	0.0397	Pulse	1.5000	3
Na	23	45	He	5141.926	ppb	1.8	536258.77	13.5676	Pulse	0.1000	3
Mg	24	45	He	5247.676	ppb	1.3	252192.71	6.3805	Pulse	0.1000	3
Al	27	45	He	5310.517	ppb	1.0	79369.03	2.0079	Pulse	0.1000	3
K	39	45	He	5248.326	ppb	1.6	226954.85	5.7420	Pulse	0.5000	3
Ca	44	45	He	5262.790	ppb	0.6	11125.80	0.2815	Pulse	0.5000	3
Ti	47	45	He	545.467	ppb	2.1	8835.07	0.2235	Pulse	0.5000	3
V	51	45	He	524.127	ppb	0.9	365412.96	9.2447	Pulse	0.5000	3
Cr	52	45	He	530.186	ppb	0.6	457279.63	11.5687	Pulse	0.1000	3
Mn	55	45	He	529.957	ppb	0.4	191355.07	4.8410	Pulse	0.5000	3
Fe	57	45	He	5352.306	ppb	1.3	84824.59	2.1458	Pulse	0.1000	3
Co	59	45	He	528.253	ppb	0.4	862369.04	21.8169	Pulse	0.5000	3
Ni	60	45	He	525.424	ppb	0.9	244388.93	6.1829	Pulse	0.5000	3
Cu	63	72	He	513.543	ppb	0.4	679728.14	10.0604	Pulse	0.5000	3
Zn	66	72	He	519.806	ppb	0.4	80009.88	1.1842	Pulse	0.5000	3
As	75	72	He	507.997	ppb	0.6	63265.43	0.9364	Pulse	0.5000	3
Sr	88	115	He	51.272	ppb	1.3	22733.43	0.4224	Pulse	0.1000	3
Mo	98	115	He	51.468	ppb	2.6	49130.42	0.9131	Pulse	0.1000	3
Ag	107	115	He	52.052	ppb	3.2	103054.40	1.9154	Pulse	0.1000	3
Cd	111	115	He	53.388	ppb	2.4	11787.13	0.2191	Pulse	0.5000	3
Sn	120	115	He	104.465	ppb	1.9	71347.75	1.3259	Pulse	0.1000	3
Sb	121	115	He	103.983	ppb	1.8	67422.08	1.2529	Pulse	0.3000	3
Ba	137	115	He	522.879	ppb	2.7	109787.23	2.0404	Pulse	0.1000	3
Tl	205	159	He	101.564	ppb	0.5	378627.60	1.9249	Pulse	0.1000	3
Pb	208	159	He	52.018	ppb	0.4	257696.05	1.3101	Pulse	0.1000	3
U	238	159	He	52.956	ppb	2.0	255718.97	1.3001	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1680241.59	0.5	98.3	Analog	0.1000	3
No Gas	Ge	72	842213.58	0.6	97.5	Pulse	0.1000	3
H2	Sc	45	133455.94	1.1	99.9	Pulse	0.1000	3
H2	Ge	72	99288.51	0.5	100.2	Pulse	0.1000	3
H2	In	115	247756.51	0.3	96.5	Pulse	0.1000	3
He	Sc	45	39528.48	0.8	100.1	Pulse	0.1000	3
He	Ge	72	67565.27	0.4	99.2	Pulse	0.1000	3
He	In	115	53822.81	1.8	97.1	Pulse	0.1000	3
He	Tb	159	196700.89	0.7	96.1	Pulse	0.1000	3
He	Bi	209	144520.27	0.5	95.5	Pulse	0.1000	3

No Gas



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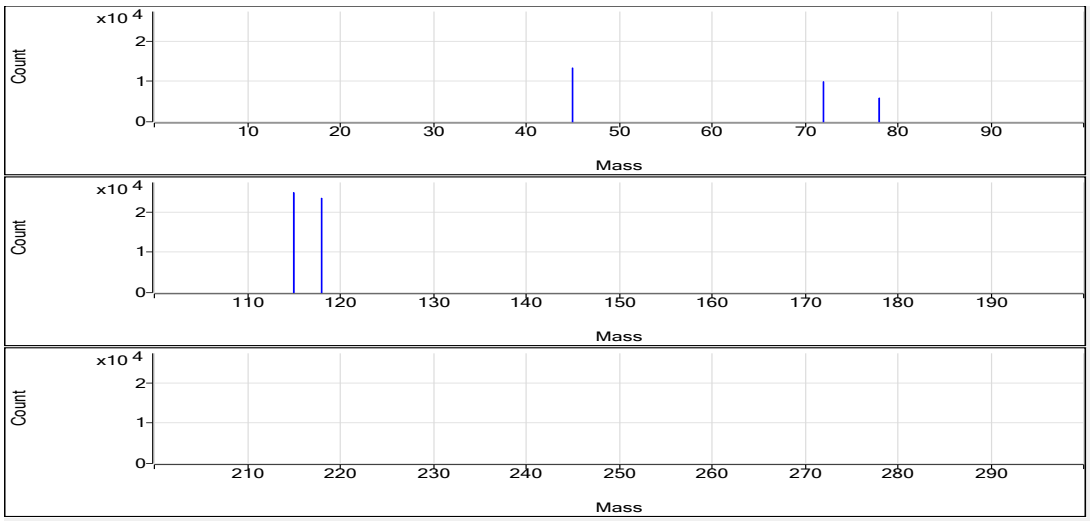
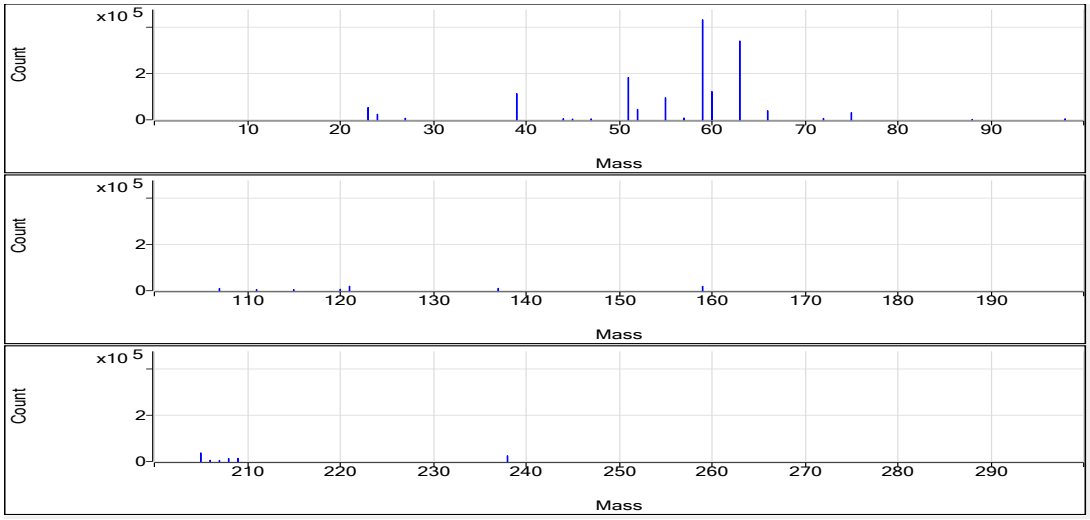


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	50.249	0.0169	28564.07	0.0003	2.616E-05
Be	9	1	No Gas	52.416	0.0177	29517.66	0.0003	2.616E-05
Be	9	1	No Gas	54.006	0.0182	30645.67	0.0003	2.616E-05
Se	78	2	H2	101.302	0.0393	3905.15	0.0004	6.3E-05
Se	78	2	H2	103.667	0.0403	3977.16	0.0004	6.3E-05
Se	78	2	H2	101.825	0.0396	3949.16	0.0004	6.3E-05
Na	23	3	He	5223.453	13.7708	539918.82	0.0025	0.7502
Na	23	3	He	5042.558	13.3199	530652.96	0.0025	0.7502
Na	23	3	He	5159.766	13.6121	538204.52	0.0025	0.7502
Mg	24	3	He	5311.773	6.4581	253204.84	0.0012	0.02618
Mg	24	3	He	5176.505	6.2943	250758.79	0.0012	0.02618
Mg	24	3	He	5254.749	6.389	252614.49	0.0012	0.02618
Al	27	3	He	5301.034	2.0044	78585.73	0.0004	0.005329
Al	27	3	He	5261.532	1.9895	79258.35	0.0004	0.005329
Al	27	3	He	5368.986	2.03	80263.01	0.0004	0.005329
K	39	3	He	5342.925	5.8359	228812.17	0.001	0.5307
K	39	3	He	5175.414	5.6696	225872.03	0.001	0.5307
K	39	3	He	5226.639	5.7205	226180.36	0.001	0.5307
Ca	44	3	He	5287.007	0.2827	11085.77	0.0001	0.004441
Ca	44	3	He	5225.704	0.2795	11135.81	0.0001	0.004441
Ca	44	3	He	5275.658	0.2821	11155.83	0.0001	0.004441
Ti	47	3	He	557.827	0.2286	8962.46	0.0004	0.0004559
Ti	47	3	He	535.947	0.2196	8750.36	0.0004	0.0004559
Ti	47	3	He	542.626	0.2224	8792.40	0.0004	0.0004559
V	51	3	He	526.869	9.2929	364351.22	0.0176	0.02609
V	51	3	He	518.714	9.1495	364507.38	0.0176	0.02609
V	51	3	He	526.797	9.2916	367380.28	0.0176	0.02609
Cr	52	3	He	533.906	11.6495	456748.82	0.0217	0.05061
Cr	52	3	He	527.524	11.5109	458584.45	0.0217	0.05061
Cr	52	3	He	529.129	11.5458	456505.62	0.0217	0.05061
Mn	55	3	He	531.111	4.8515	190216.81	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	527.467	4.8183	191958.22	0.0091	0.01071
Mn	55	3	He	531.294	4.8532	191890.19	0.0091	0.01071
Fe	57	3	He	5344.945	2.1429	84017.24	0.0004	0.008452
Fe	57	3	He	5426.641	2.1755	86670.54	0.0004	0.008452
Fe	57	3	He	5285.332	2.1191	83785.99	0.0004	0.008452
Co	59	3	He	530.253	21.8994	858621.06	0.0413	0.006013
Co	59	3	He	526.079	21.7271	865588.06	0.0413	0.006013
Co	59	3	He	528.428	21.8241	862898.00	0.0413	0.006013
Ni	60	3	He	529.293	6.2283	244197.09	0.0117	0.01172
Ni	60	3	He	520.133	6.1207	243844.83	0.0117	0.01172
Ni	60	3	He	526.847	6.1996	245124.86	0.0117	0.01172
Cu	63	3	He	511.339	10.0173	678800.25	0.0196	0.01443
Cu	63	3	He	515.323	10.0952	679212.13	0.0196	0.01443
Cu	63	3	He	513.967	10.0687	681172.06	0.0196	0.01443
Zn	66	3	He	517.881	1.1798	79947.66	0.0023	0.002807
Zn	66	3	He	519.762	1.1841	79666.12	0.0023	0.002807
Zn	66	3	He	521.774	1.1887	80415.85	0.0023	0.002807
As	75	3	He	504.368	0.9297	62998.42	0.0018	0.001271
As	75	3	He	509.286	0.9387	63158.93	0.0018	0.001271
As	75	3	He	510.336	0.9407	63638.93	0.0018	0.001271
Sr	88	3	He	51.645	0.4255	23197.40	0.0082	0.00114
Sr	88	3	He	50.528	0.4163	22576.44	0.0082	0.00114
Sr	88	3	He	51.641	0.4254	22426.45	0.0082	0.00114
Mo	98	3	He	50.362	0.8935	48715.80	0.0177	0.001504
Mo	98	3	He	51.101	0.9066	49167.26	0.0177	0.001504
Mo	98	3	He	52.94	0.9392	49508.20	0.0177	0.001504
Ag	107	3	He	51.05	1.8786	102423.87	0.0368	0.001325
Ag	107	3	He	51.157	1.8825	102091.60	0.0368	0.001325
Ag	107	3	He	53.949	1.9852	104647.73	0.0368	0.001325
Cd	111	3	He	52.569	0.2157	11760.45	0.0041	4.798E-05
Cd	111	3	He	52.732	0.2164	11734.42	0.0041	4.798E-05
Cd	111	3	He	54.862	0.2251	11866.53	0.0041	4.798E-05
Sn	120	3	He	102.401	1.2999	70871.92	0.0126	0.01097
Sn	120	3	He	104.719	1.3291	72077.54	0.0126	0.01097
Sn	120	3	He	106.276	1.3487	71093.79	0.0126	0.01097
Sb	121	3	He	102.174	1.2311	67124.25	0.012	0.0003595
Sb	121	3	He	103.832	1.2511	67850.50	0.012	0.0003595
Sb	121	3	He	105.942	1.2765	67291.48	0.012	0.0003595
Ba	137	3	He	508.977	1.9862	108290.37	0.0039	0.0003633
Ba	137	3	He	522.165	2.0376	110505.69	0.0039	0.0003633
Ba	137	3	He	537.495	2.0974	110565.62	0.0039	0.0003633
Tl	205	3	He	101.927	1.9318	378867.06	0.0189	0.001334
Tl	205	3	He	101.753	1.9285	377535.27	0.0189	0.001334
Tl	205	3	He	101.012	1.9145	379480.46	0.0189	0.001334
Pb	208	3	He	52.121	1.3127	139661.92	0.0252	0.001497
Pb	208	3	He	52.178	1.3141	138189.55	0.0252	0.001497
Pb	208	3	He	51.754	1.3035	138764.94	0.0252	0.001497
U	238	3	He	54.168	1.3299	260812.67	0.0245	0.0001141
U	238	3	He	52.561	1.2904	252620.17	0.0245	0.0001141
U	238	3	He	52.138	1.28	253724.06	0.0245	0.0001141
Sc	45	1	No Gas			1686383.88		
Sc	45	1	No Gas			1670744.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1683596.69		
Ge	72	1	No Gas			847744.60		
Ge	72	1	No Gas			837625.53		
Ge	72	1	No Gas			841270.61		
Sc	45	2	H2			134497.08		
Sc	45	2	H2			134054.36		
Sc	45	2	H2			131816.37		
Ge	72	2	H2			99245.00		
Ge	72	2	H2			98772.18		
Ge	72	2	H2			99848.34		
In	115	2	H2			247804.61		
In	115	2	H2			247071.54		
In	115	2	H2			248393.39		
Sc	45	3	He			39207.48		
Sc	45	3	He			39839.14		
Sc	45	3	He			39538.81		
Ge	72	3	He			67762.89		
Ge	72	3	He			67280.51		
Ge	72	3	He			67652.42		
In	115	3	He			55017.97		
In	115	3	He			54736.76		
In	115	3	He			53212.01		
Tb	159	3	He			196120.21		
Tb	159	3	He			195766.40		
Tb	159	3	He			198216.07		
Bi	209	3	He			144662.54		
Bi	209	3	He			145217.59		
Bi	209	3	He			143680.68		

Quantitation Report

Data File Name	205SMPL.d
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Sample Name	410-229895-J-4-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

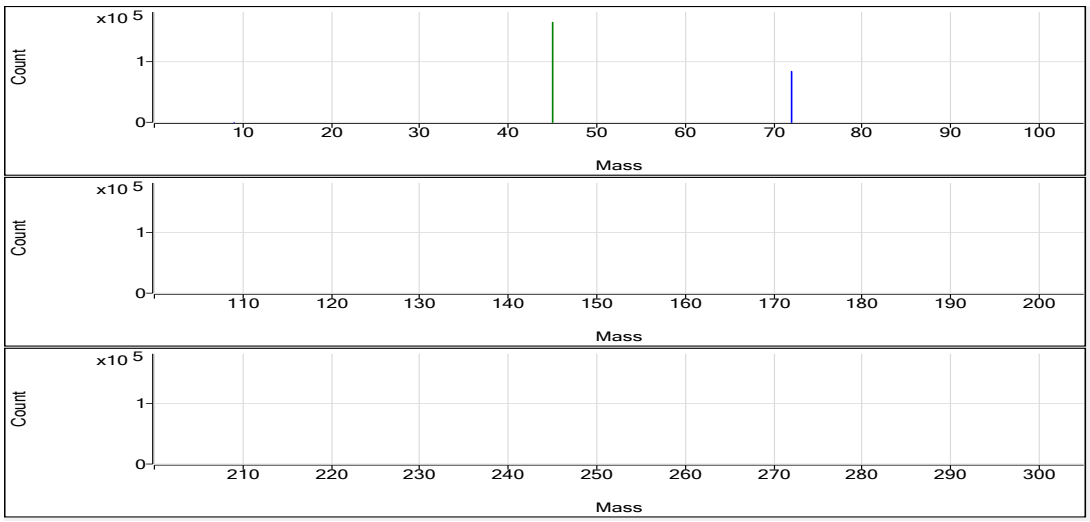
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.100	ppb	24.8	99.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.081	ppb	32.4	9.56	0.0001	Pulse	1.5000	3
Na	23	45	He	6972.158	ppb	0.5	705316.42	18.1298	Pulse	0.1000	3
Mg	24	45	He	38953.058	ppb	0.4	1835994.97	47.1935	Analog	0.1000	3
Al	27	45	He	1.317	ppb	105.2	226.68	0.0058	Pulse	0.1000	3
K	39	45	He	2889.288	ppb	2.3	132253.12	3.3996	Pulse	0.5000	3
Ca	44	45	He	102370.390	ppb	0.7	209813.50	5.3932	Pulse	0.5000	3
Ti	47	45	He	0.310	ppb	123.3	22.67	0.0006	Pulse	0.5000	3
V	51	45	He	0.215	ppb	9.6	1162.05	0.0299	Pulse	0.5000	3
Cr	52	45	He	-0.267	ppb	N/A	1743.47	0.0448	Pulse	0.1000	3
Mn	55	45	He	2506.186	ppb	0.1	889076.44	22.8535	Pulse	0.5000	3
Fe	57	45	He	7297.538	ppb	1.3	113702.27	2.9226	Pulse	0.1000	3
Co	59	45	He	11.783	ppb	1.6	19159.96	0.4925	Pulse	0.5000	3
Ni	60	45	He	10.125	ppb	2.4	5082.15	0.1306	Pulse	0.5000	3
Cu	63	72	He	0.257	ppb	20.4	1329.40	0.0195	Pulse	0.5000	3
Zn	66	72	He	5.564	ppb	7.8	1055.38	0.0155	Pulse	0.5000	3
As	75	72	He	5.283	ppb	4.5	751.35	0.0110	Pulse	0.5000	3
Sr	88	115	He	94.978	ppb	0.6	41471.65	0.7815	Pulse	0.1000	3
Mo	98	115	He	0.869	ppb	21.5	896.72	0.0169	Pulse	0.1000	3
Ag	107	115	He	0.017	ppb	47.2	103.33	0.0019	Pulse	0.1000	3
Cd	111	115	He	0.053	ppb	69.9	14.00	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.342	ppb	44.2	810.05	0.0153	Pulse	0.1000	3
Sb	121	115	He	0.167	ppb	22.7	125.56	0.0024	Pulse	0.3000	3
Ba	137	115	He	359.880	ppb	1.4	74527.90	1.4045	Pulse	0.1000	3
Tl	205	159	He	0.246	ppb	6.9	1166.75	0.0060	Pulse	0.1000	3
Pb	208	159	He	0.053	ppb	31.1	550.03	0.0028	Pulse	0.1000	3
U	238	159	He	0.670	ppb	9.3	3220.47	0.0166	Pulse	0.1000	3

ISTD Table:

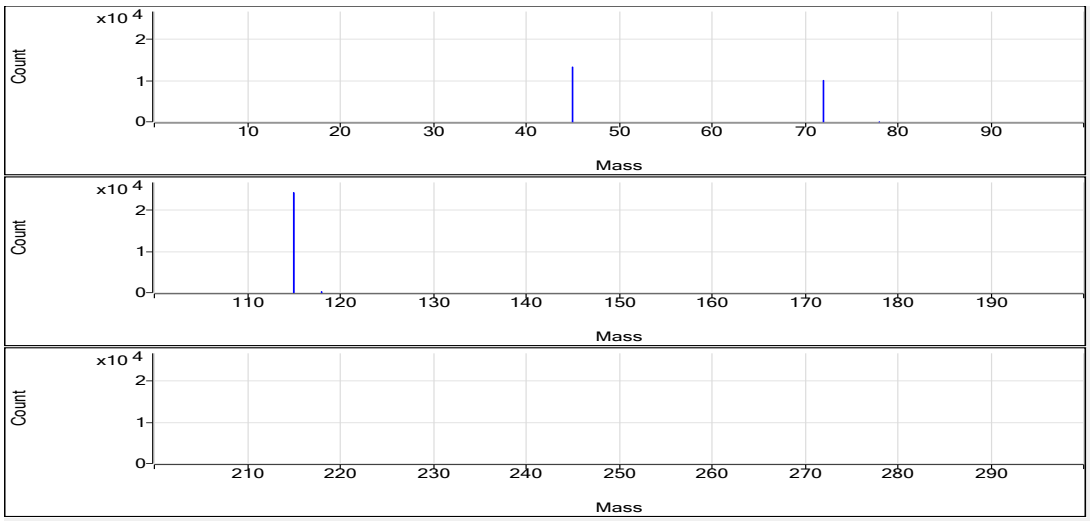
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1660248.73	1.1	97.2	Analog	0.1000	3
No Gas	Ge	72	845002.96	0.4	97.8	Pulse	0.1000	3
H2	Sc	45	133681.04	1.7	100.0	Pulse	0.1000	3
H2	Ge	72	101089.97	0.8	102.0	Pulse	0.1000	3
H2	In	115	243815.42	1.6	95.0	Pulse	0.1000	3
He	Sc	45	38903.36	0.2	98.6	Pulse	0.1000	3
He	Ge	72	68325.59	1.1	100.3	Pulse	0.1000	3
He	In	115	53065.70	0.6	95.8	Pulse	0.1000	3
He	Tb	159	194430.58	0.1	94.9	Pulse	0.1000	3
He	Bi	209	145680.93	1.3	96.3	Pulse	0.1000	3

No Gas

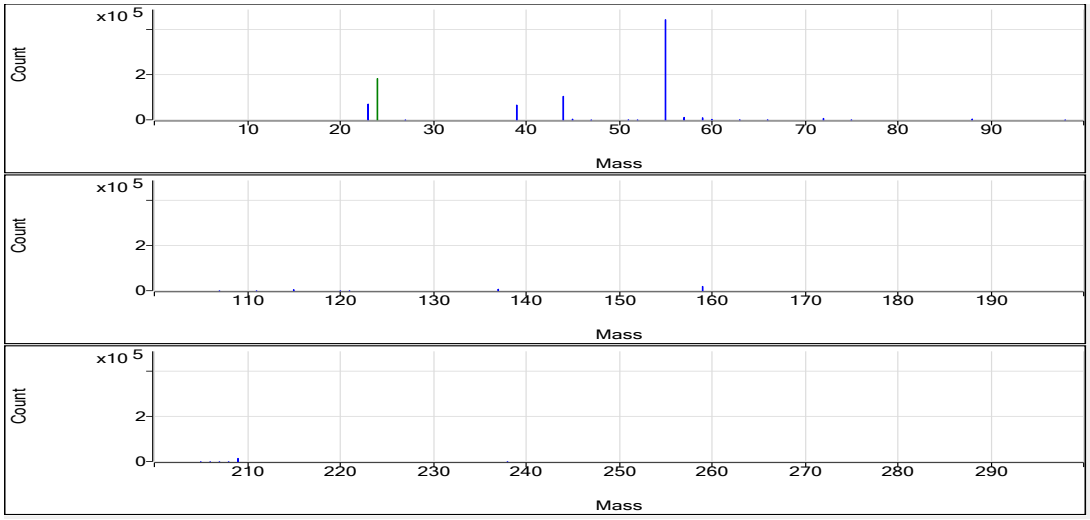


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.128	0.0001	116.00	0.0003	2.616E-05
Be	9	1	No Gas	0.092	0.0001	94.00	0.0003	2.616E-05
Be	9	1	No Gas	0.08	0.0001	88.00	0.0003	2.616E-05
Se	78	2	H2	0.078	0.0001	9.33	0.0004	6.3E-05
Se	78	2	H2	0.109	0.0001	10.67	0.0004	6.3E-05
Se	78	2	H2	0.057	0.0001	8.67	0.0004	6.3E-05
Na	23	3	He	6946.634	18.0662	702171.32	0.0025	0.7502
Na	23	3	He	6959.248	18.0977	703029.99	0.0025	0.7502
Na	23	3	He	7010.591	18.2257	710747.96	0.0025	0.7502
Mg	24	3	He	38950.48	47.1903	1834124.35	0.0012	0.02618
Mg	24	3	He	38779.258	46.983	1825122.79	0.0012	0.02618
Mg	24	3	He	39129.435	47.407	1848737.78	0.0012	0.02618
Al	27	3	He	0.878	0.0057	220.01	0.0004	0.005329
Al	27	3	He	0.204	0.0054	210.01	0.0004	0.005329
Al	27	3	He	2.868	0.0064	250.01	0.0004	0.005329
K	39	3	He	2962.117	3.4719	134940.78	0.001	0.5307
K	39	3	He	2871.138	3.3816	131361.75	0.001	0.5307
K	39	3	He	2834.61	3.3453	130456.84	0.001	0.5307
Ca	44	3	He	101524.689	5.3486	207883.41	0.0001	0.004441
Ca	44	3	He	102660.402	5.4084	210098.38	0.0001	0.004441
Ca	44	3	He	102926.078	5.4224	211458.70	0.0001	0.004441
Ti	47	3	He	0.395	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	-0.108	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.641	0.0007	28.00	0.0004	0.0004559
V	51	3	He	0.193	0.0295	1146.05	0.0176	0.02609
V	51	3	He	0.217	0.0299	1162.05	0.0176	0.02609
V	51	3	He	0.234	0.0302	1178.05	0.0176	0.02609
Cr	52	3	He	-0.221	0.0458	1780.14	0.0217	0.05061
Cr	52	3	He	-0.196	0.0463	1800.15	0.0217	0.05061
Cr	52	3	He	-0.382	0.0423	1650.13	0.0217	0.05061
Mn	55	3	He	2509.059	22.8796	889252.31	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2503.062	22.825	886669.56	0.0091	0.01071
Mn	55	3	He	2506.435	22.8557	891307.44	0.0091	0.01071
Fe	57	3	He	7275.664	2.9139	113253.00	0.0004	0.008452
Fe	57	3	He	7211.845	2.8884	112204.47	0.0004	0.008452
Fe	57	3	He	7405.105	2.9656	115649.34	0.0004	0.008452
Co	59	3	He	11.842	0.495	19237.42	0.0413	0.006013
Co	59	3	He	11.937	0.4989	19379.56	0.0413	0.006013
Co	59	3	He	11.569	0.4837	18862.91	0.0413	0.006013
Ni	60	3	He	10.361	0.1334	5184.85	0.0117	0.01172
Ni	60	3	He	9.871	0.1277	4958.78	0.0117	0.01172
Ni	60	3	He	10.143	0.1309	5102.83	0.0117	0.01172
Cu	63	3	He	0.315	0.0206	1412.07	0.0196	0.01443
Cu	63	3	He	0.242	0.0192	1294.06	0.0196	0.01443
Cu	63	3	He	0.213	0.0186	1282.06	0.0196	0.01443
Zn	66	3	He	5.324	0.0149	1022.04	0.0023	0.002807
Zn	66	3	He	6.064	0.0166	1120.05	0.0023	0.002807
Zn	66	3	He	5.304	0.0149	1024.04	0.0023	0.002807
As	75	3	He	5.047	0.0106	724.02	0.0018	0.001271
As	75	3	He	5.28	0.011	742.02	0.0018	0.001271
As	75	3	He	5.522	0.0114	788.02	0.0018	0.001271
Sr	88	3	He	95.133	0.7828	41475.15	0.0082	0.00114
Sr	88	3	He	94.343	0.7763	40983.48	0.0082	0.00114
Sr	88	3	He	95.457	0.7854	41956.33	0.0082	0.00114
Mo	98	3	He	0.682	0.0136	720.04	0.0177	0.001504
Mo	98	3	He	0.867	0.0169	890.06	0.0177	0.001504
Mo	98	3	He	1.057	0.0202	1080.07	0.0177	0.001504
Ag	107	3	He	0.026	0.0023	120.00	0.0368	0.001325
Ag	107	3	He	0.015	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	0.01	0.0017	90.00	0.0368	0.001325
Cd	111	3	He	0.09	0.0004	22.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.052	0.0003	14.00	0.0041	4.798E-05
Sn	120	3	He	0.403	0.016	850.05	0.0126	0.01097
Sn	120	3	He	0.453	0.0167	880.05	0.0126	0.01097
Sn	120	3	He	0.17	0.0131	700.04	0.0126	0.01097
Sb	121	3	He	0.2	0.0028	146.67	0.012	0.0003595
Sb	121	3	He	0.175	0.0025	130.00	0.012	0.0003595
Sb	121	3	He	0.126	0.0019	100.00	0.012	0.0003595
Ba	137	3	He	354.656	1.3841	73335.29	0.0039	0.0003633
Ba	137	3	He	364.956	1.4243	75194.01	0.0039	0.0003633
Ba	137	3	He	360.028	1.405	75054.41	0.0039	0.0003633
Tl	205	3	He	0.266	0.0064	1240.09	0.0189	0.001334
Tl	205	3	He	0.237	0.0058	1130.09	0.0189	0.001334
Tl	205	3	He	0.236	0.0058	1130.08	0.0189	0.001334
Pb	208	3	He	0.053	0.0028	330.02	0.0252	0.001497
Pb	208	3	He	0.069	0.0032	330.02	0.0252	0.001497
Pb	208	3	He	0.037	0.0024	190.01	0.0252	0.001497
U	238	3	He	0.644	0.0159	3100.42	0.0245	0.0001141
U	238	3	He	0.625	0.0155	3000.43	0.0245	0.0001141
U	238	3	He	0.741	0.0183	3560.57	0.0245	0.0001141
Sc	45	1	No Gas			1678908.57		
Sc	45	1	No Gas			1642814.51		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1659023.10		
Ge	72	1	No Gas			843651.94		
Ge	72	1	No Gas			842491.94		
Ge	72	1	No Gas			848864.99		
Sc	45	2	H2			136352.17		
Sc	45	2	H2			131997.47		
Sc	45	2	H2			132693.48		
Ge	72	2	H2			100191.22		
Ge	72	2	H2			101226.90		
Ge	72	2	H2			101851.80		
In	115	2	H2			248130.07		
In	115	2	H2			240216.83		
In	115	2	H2			243099.37		
Sc	45	3	He			38866.52		
Sc	45	3	He			38846.44		
Sc	45	3	He			38997.12		
Ge	72	3	He			68556.57		
Ge	72	3	He			67512.48		
Ge	72	3	He			68907.71		
In	115	3	He			52990.62		
In	115	3	He			52800.81		
In	115	3	He			53422.68		
Tb	159	3	He			194670.82		
Tb	159	3	He			194162.58		
Tb	159	3	He			194458.34		
Bi	209	3	He			146438.01		
Bi	209	3	He			143589.67		
Bi	209	3	He			147015.12		

Quantitation Report

Data File Name	206SMPL.d
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Sample Name	410-229895-H-4-A DU
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

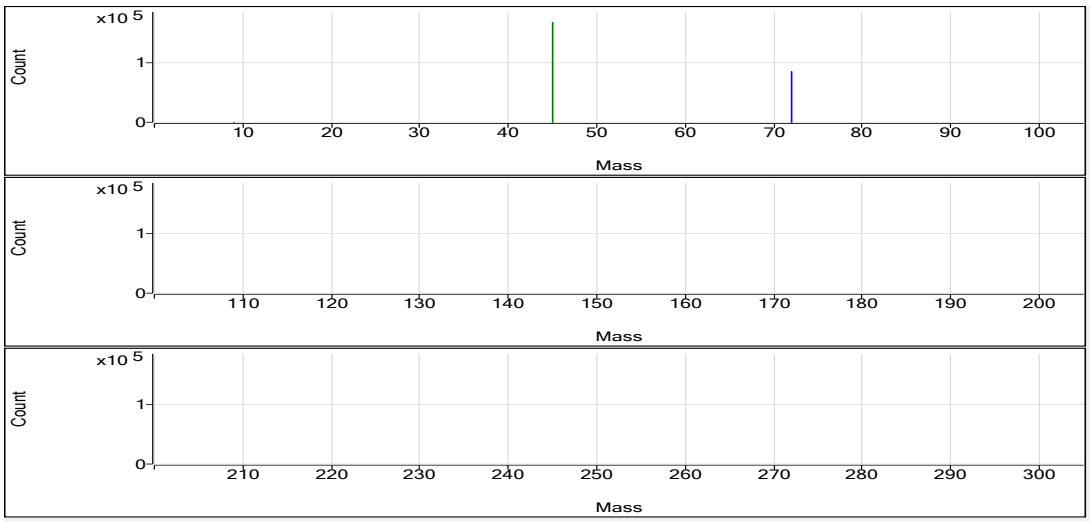
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.016	ppb	181.4	52.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.027	ppb	N/A	5.11	0.0001	Pulse	1.5000	3
Na	23	45	He	6960.478	ppb	2.1	709732.07	18.1007	Pulse	0.1000	3
Mg	24	45	He	38725.840	ppb	2.7	1839514.40	46.9183	Analog	0.1000	3
Al	27	45	He	-0.590	ppb	N/A	200.01	0.0051	Pulse	0.1000	3
K	39	45	He	2874.625	ppb	1.4	132748.36	3.3850	Pulse	0.5000	3
Ca	44	45	He	101844.103	ppb	2.2	210378.15	5.3655	Pulse	0.5000	3
Ti	47	45	He	-0.365	ppb	N/A	12.00	0.0003	Pulse	0.5000	3
V	51	45	He	-0.094	ppb	N/A	958.70	0.0244	Pulse	0.5000	3
Cr	52	45	He	-0.371	ppb	N/A	1666.81	0.0425	Pulse	0.1000	3
Mn	55	45	He	2488.772	ppb	2.1	889858.85	22.6947	Pulse	0.5000	3
Fe	57	45	He	7293.113	ppb	2.8	114513.90	2.9209	Pulse	0.1000	3
Co	59	45	He	11.441	ppb	2.9	18756.16	0.4784	Pulse	0.5000	3
Ni	60	45	He	9.552	ppb	3.6	4857.42	0.1239	Pulse	0.5000	3
Cu	63	72	He	-0.270	ppb	N/A	624.68	0.0091	Pulse	0.5000	3
Zn	66	72	He	4.717	ppb	5.7	924.70	0.0135	Pulse	0.5000	3
As	75	72	He	4.798	ppb	6.4	690.69	0.0101	Pulse	0.5000	3
Sr	88	115	He	96.250	ppb	2.7	41942.81	0.7919	Pulse	0.1000	3
Mo	98	115	He	0.604	ppb	26.4	646.70	0.0122	Pulse	0.1000	3
Ag	107	115	He	-0.005	ppb	N/A	60.00	0.0011	Pulse	0.1000	3
Cd	111	115	He	0.013	ppb	43.1	5.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.077	ppb	213.0	633.37	0.0119	Pulse	0.1000	3
Sb	121	115	He	0.047	ppb	33.7	48.89	0.0009	Pulse	0.3000	3
Ba	137	115	He	360.699	ppb	3.5	74538.09	1.4077	Pulse	0.1000	3
Tl	205	159	He	0.074	ppb	21.9	533.36	0.0027	Pulse	0.1000	3
Pb	208	159	He	0.001	ppb	2373.9	296.68	0.0015	Pulse	0.1000	3
U	238	159	He	0.563	ppb	5.8	2720.36	0.0139	Pulse	0.1000	3

ISTD Table:

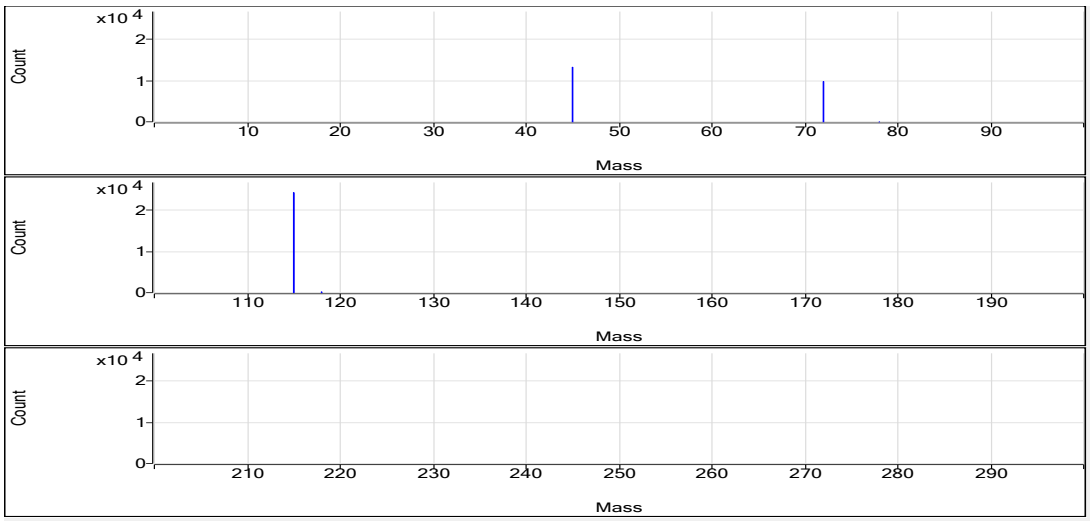
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1671622.42	1.4	97.8	Analog	0.1000	3
No Gas	Ge	72	846984.70	0.3	98.0	Pulse	0.1000	3
H2	Sc	45	132662.96	0.6	99.3	Pulse	0.1000	3
H2	Ge	72	97840.55	1.4	98.8	Pulse	0.1000	3
H2	In	115	242706.81	0.9	94.6	Pulse	0.1000	3
He	Sc	45	39221.03	2.1	99.4	Pulse	0.1000	3
He	Ge	72	68359.08	1.2	100.4	Pulse	0.1000	3
He	In	115	52972.90	1.8	95.6	Pulse	0.1000	3
He	Tb	159	195226.68	0.2	95.3	Pulse	0.1000	3
He	Bi	209	144183.29	0.9	95.3	Pulse	0.1000	3

No Gas

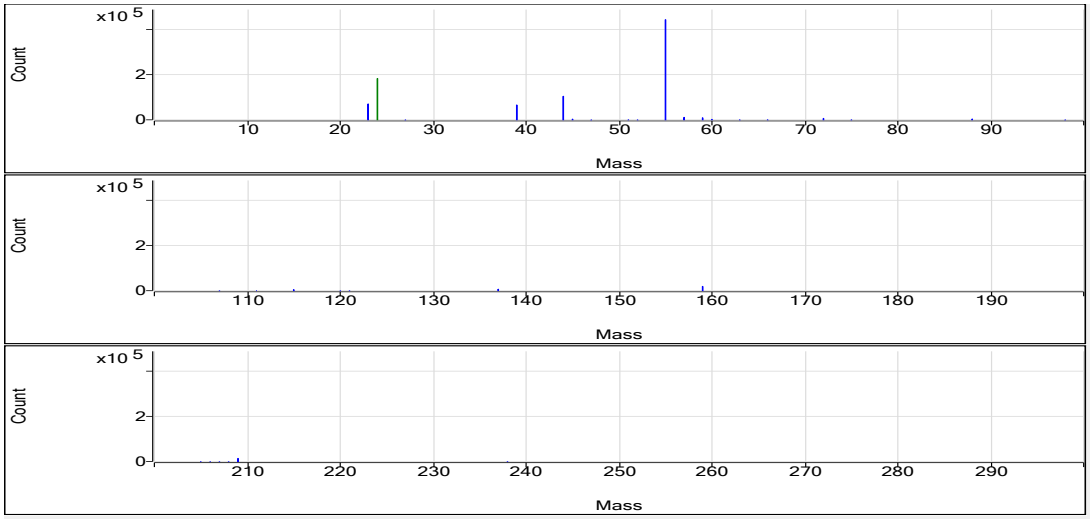


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.044	0	68.00	0.0003	2.616E-05
Be	9	1	No Gas	0.017	0	54.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.013	0	36.00	0.0003	2.616E-05
Se	78	2	H2	0.016	0.0001	6.67	0.0004	6.3E-05
Se	78	2	H2	-0.058	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.041	0	4.67	0.0004	6.3E-05
Na	23	3	He	6830.783	17.7774	706631.08	0.0025	0.7502
Na	23	3	He	7121.402	18.5019	707798.66	0.0025	0.7502
Na	23	3	He	6929.248	18.0229	714766.47	0.0025	0.7502
Mg	24	3	He	38397.587	46.5209	1849145.91	0.0012	0.02618
Mg	24	3	He	39888.895	48.3266	1848760.44	0.0012	0.02618
Mg	24	3	He	37891.038	45.9075	1820636.85	0.0012	0.02618
Al	27	3	He	0.545	0.0055	220.01	0.0004	0.005329
Al	27	3	He	1.118	0.0058	220.01	0.0004	0.005329
Al	27	3	He	-3.433	0.004	160.01	0.0004	0.005329
K	39	3	He	2884.19	3.3945	134928.13	0.001	0.5307
K	39	3	He	2909.43	3.4196	130818.03	0.001	0.5307
K	39	3	He	2830.255	3.341	132498.92	0.001	0.5307
Ca	44	3	He	99696.653	5.2524	208777.25	0.0001	0.004441
Ca	44	3	He	104177.449	5.4883	209957.33	0.0001	0.004441
Ca	44	3	He	101658.207	5.3557	212399.88	0.0001	0.004441
Ti	47	3	He	-0.376	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.22	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.498	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.093	0.0245	972.04	0.0176	0.02609
V	51	3	He	-0.122	0.0239	916.03	0.0176	0.02609
V	51	3	He	-0.067	0.0249	988.04	0.0176	0.02609
Cr	52	3	He	-0.477	0.0403	1600.13	0.0217	0.05061
Cr	52	3	He	-0.188	0.0465	1780.15	0.0217	0.05061
Cr	52	3	He	-0.449	0.0409	1620.14	0.0217	0.05061
Mn	55	3	He	2445.636	22.3016	886459.75	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2545.089	23.208	887835.63	0.0091	0.01071
Mn	55	3	He	2475.589	22.5746	895281.19	0.0091	0.01071
Fe	57	3	He	7144.75	2.8616	113745.70	0.0004	0.008452
Fe	57	3	He	7526.584	3.0141	115305.84	0.0004	0.008452
Fe	57	3	He	7208.005	2.8869	114490.15	0.0004	0.008452
Co	59	3	He	11.16	0.4668	18554.60	0.0413	0.006013
Co	59	3	He	11.802	0.4933	18870.93	0.0413	0.006013
Co	59	3	He	11.362	0.4751	18842.95	0.0413	0.006013
Ni	60	3	He	9.474	0.123	4888.77	0.0117	0.01172
Ni	60	3	He	9.923	0.1283	4906.76	0.0117	0.01172
Ni	60	3	He	9.257	0.1204	4776.73	0.0117	0.01172
Cu	63	3	He	-0.236	0.0098	662.02	0.0196	0.01443
Cu	63	3	He	-0.249	0.0096	656.02	0.0196	0.01443
Cu	63	3	He	-0.326	0.0081	556.01	0.0196	0.01443
Zn	66	3	He	4.784	0.0137	922.03	0.0023	0.002807
Zn	66	3	He	4.418	0.0128	882.03	0.0023	0.002807
Zn	66	3	He	4.948	0.0141	970.03	0.0023	0.002807
As	75	3	He	4.629	0.0098	660.02	0.0018	0.001271
As	75	3	He	5.15	0.0108	738.02	0.0018	0.001271
As	75	3	He	4.614	0.0098	674.02	0.0018	0.001271
Sr	88	3	He	93.441	0.7689	41063.89	0.0082	0.00114
Sr	88	3	He	98.5	0.8104	42056.27	0.0082	0.00114
Sr	88	3	He	96.808	0.7965	42708.27	0.0082	0.00114
Mo	98	3	He	0.782	0.0154	820.05	0.0177	0.001504
Mo	98	3	He	0.557	0.0114	590.03	0.0177	0.001504
Mo	98	3	He	0.473	0.0099	530.02	0.0177	0.001504
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	0.006	0.0015	80.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.126	0.0125	670.04	0.0126	0.01097
Sn	120	3	He	-0.106	0.0096	500.02	0.0126	0.01097
Sn	120	3	He	0.211	0.0136	730.04	0.0126	0.01097
Sb	121	3	He	0.063	0.0011	60.00	0.012	0.0003595
Sb	121	3	He	0.045	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.032	0.0007	40.00	0.012	0.0003595
Ba	137	3	He	352.377	1.3752	73446.13	0.0039	0.0003633
Ba	137	3	He	375.072	1.4637	75958.34	0.0039	0.0003633
Ba	137	3	He	354.648	1.3841	74209.81	0.0039	0.0003633
Tl	205	3	He	0.062	0.0025	490.02	0.0189	0.001334
Tl	205	3	He	0.067	0.0026	510.03	0.0189	0.001334
Tl	205	3	He	0.092	0.0031	600.03	0.0189	0.001334
Pb	208	3	He	0.02	0.002	150.01	0.0252	0.001497
Pb	208	3	He	0.003	0.0016	160.01	0.0252	0.001497
Pb	208	3	He	-0.021	0.001	70.00	0.0252	0.001497
U	238	3	He	0.527	0.0131	2550.33	0.0245	0.0001141
U	238	3	He	0.591	0.0146	2860.37	0.0245	0.0001141
U	238	3	He	0.571	0.0141	2750.38	0.0245	0.0001141
Sc	45	1	No Gas			1654157.63		
Sc	45	1	No Gas			1698364.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1662345.60		
Ge	72	1	No Gas			846068.74		
Ge	72	1	No Gas			849871.71		
Ge	72	1	No Gas			845013.66		
Sc	45	2	H2			132703.06		
Sc	45	2	H2			131816.91		
Sc	45	2	H2			133468.92		
Ge	72	2	H2			96247.81		
Ge	72	2	H2			98340.28		
Ge	72	2	H2			98933.57		
In	115	2	H2			240898.06		
In	115	2	H2			241921.56		
In	115	2	H2			245300.82		
Sc	45	3	He			39748.75		
Sc	45	3	He			38255.51		
Sc	45	3	He			39658.82		
Ge	72	3	He			67401.36		
Ge	72	3	He			68647.04		
Ge	72	3	He			69028.83		
In	115	3	He			53412.49		
In	115	3	He			51896.76		
In	115	3	He			53622.75		
Tb	159	3	He			195326.91		
Tb	159	3	He			195623.24		
Tb	159	3	He			194729.88		
Bi	209	3	He			143529.45		
Bi	209	3	He			143410.34		
Bi	209	3	He			145610.09		

Quantitation Report

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Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

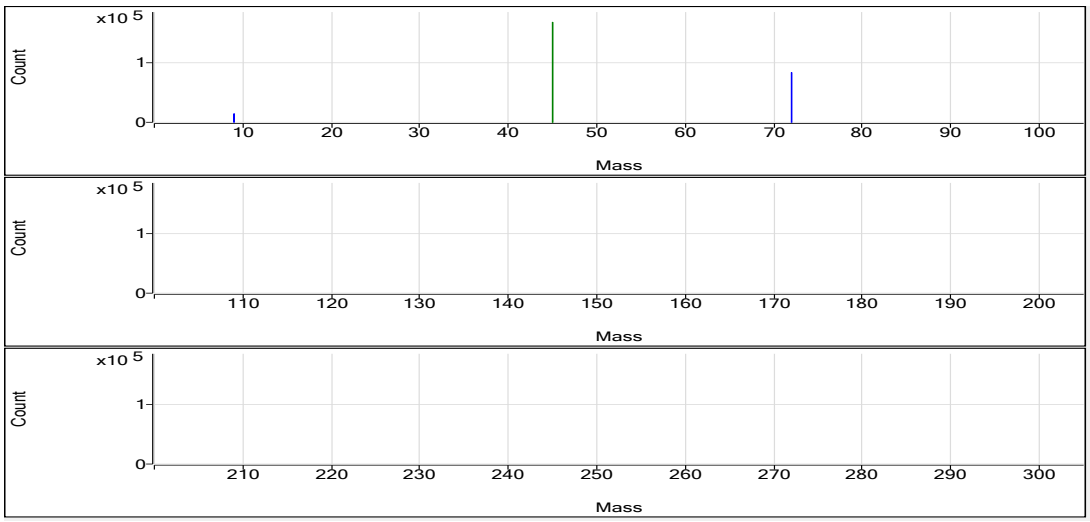
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	51.138	ppb	4.3	29149.10	0.0172	Pulse	0.5000	3
Se	78	72	H2	100.484	ppb	2.2	3846.47	0.0390	Pulse	1.5000	3
Na	23	45	He	12317.041	ppb	2.4	1252935.47	31.4532	Analog	0.1000	3
Mg	24	45	He	43251.698	ppb	1.4	2087646.48	52.3986	Analog	0.1000	3
Al	27	45	He	5282.193	ppb	1.8	79566.59	1.9973	Pulse	0.1000	3
K	39	45	He	8065.381	ppb	2.0	340189.97	8.5392	Pulse	0.5000	3
Ca	44	45	He	106450.773	ppb	2.4	223391.00	5.6080	Pulse	0.5000	3
Ti	47	45	He	543.062	ppb	3.0	8864.44	0.2226	Pulse	0.5000	3
V	51	45	He	521.966	ppb	2.8	366724.26	9.2067	Pulse	0.5000	3
Cr	52	45	He	522.087	ppb	2.3	453836.83	11.3928	Pulse	0.1000	3
Mn	55	45	He	2988.235	ppb	2.2	1085411.50	27.2471	Pulse	0.5000	3
Fe	57	45	He	12461.967	ppb	2.4	198575.36	4.9850	Pulse	0.1000	3
Co	59	45	He	520.112	ppb	2.5	855672.91	21.4807	Pulse	0.5000	3
Ni	60	45	He	516.019	ppb	2.6	241891.68	6.0724	Pulse	0.5000	3
Cu	63	72	He	500.454	ppb	0.2	666971.63	9.8044	Pulse	0.5000	3
Zn	66	72	He	509.491	ppb	0.6	78962.10	1.1607	Pulse	0.5000	3
As	75	72	He	513.217	ppb	0.7	64353.63	0.9460	Pulse	0.5000	3
Sr	88	115	He	144.698	ppb	3.3	63738.18	1.1900	Pulse	0.1000	3
Mo	98	115	He	51.644	ppb	1.1	49070.29	0.9162	Pulse	0.1000	3
Ag	107	115	He	52.370	ppb	1.8	103204.85	1.9271	Pulse	0.1000	3
Cd	111	115	He	52.704	ppb	3.2	11580.33	0.2163	Pulse	0.5000	3
Sn	120	115	He	105.805	ppb	1.4	71913.73	1.3427	Pulse	0.1000	3
Sb	121	115	He	104.635	ppb	2.5	67519.16	1.2608	Pulse	0.3000	3
Ba	137	115	He	876.238	ppb	0.8	183121.33	3.4191	Pulse	0.1000	3
Tl	205	159	He	101.271	ppb	0.6	376556.44	1.9194	Pulse	0.1000	3
Pb	208	159	He	51.632	ppb	2.5	255086.24	1.3004	Pulse	0.1000	3
U	238	159	He	53.480	ppb	1.8	257562.57	1.3130	Pulse	0.1000	3

ISTD Table:

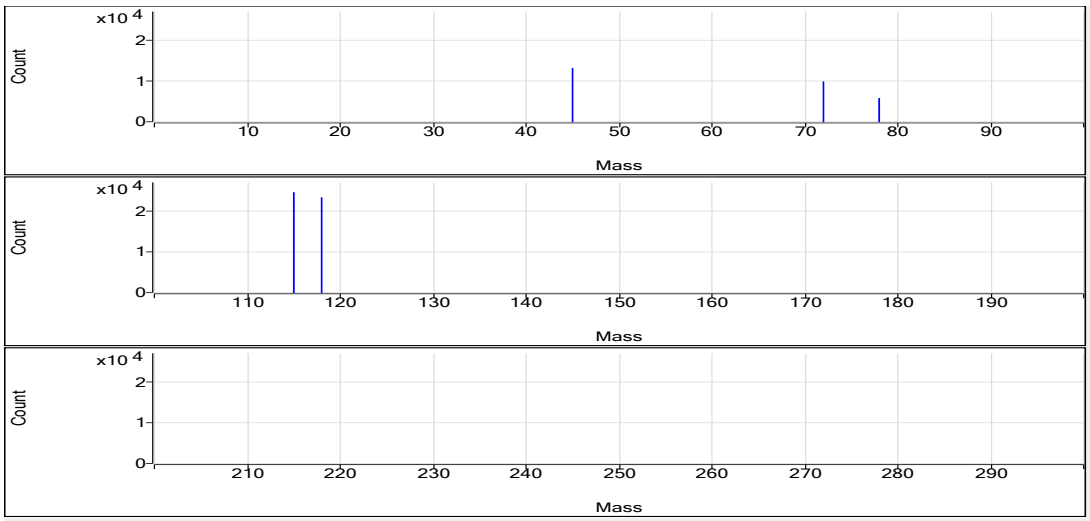
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1690846.54	1.3	99.0	Analog	0.1000	3
No Gas	Ge	72	841570.14	1.1	97.4	Pulse	0.1000	3
H2	Sc	45	131516.28	0.8	98.4	Pulse	0.1000	3
H2	Ge	72	98554.78	0.8	99.5	Pulse	0.1000	3
H2	In	115	246319.11	0.4	96.0	Pulse	0.1000	3
He	Sc	45	39849.06	2.3	101.0	Pulse	0.1000	3
He	Ge	72	68027.87	0.4	99.9	Pulse	0.1000	3
He	In	115	53561.39	1.1	96.7	Pulse	0.1000	3
He	Tb	159	196196.77	1.2	95.8	Pulse	0.1000	3
He	Bi	209	146322.40	1.0	96.7	Pulse	0.1000	3

No Gas

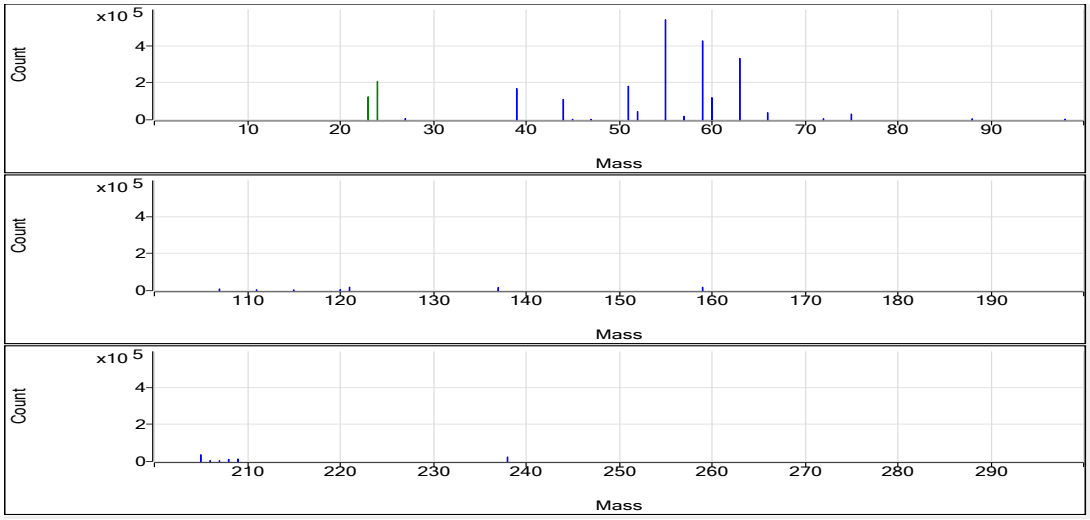


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	48.675	0.0164	27722.66	0.0003	2.616E-05
Be	9	1	No Gas	51.747	0.0174	29111.00	0.0003	2.616E-05
Be	9	1	No Gas	52.994	0.0179	30613.64	0.0003	2.616E-05
Se	78	2	H2	100.28	0.039	3867.81	0.0004	6.3E-05
Se	78	2	H2	98.358	0.0382	3768.45	0.0004	6.3E-05
Se	78	2	H2	102.815	0.0399	3903.14	0.0004	6.3E-05
Na	23	3	He	12130.426	30.988	1253790.76	0.0025	0.7502
Na	23	3	He	12656.692	32.2998	1253451.23	0.0025	0.7502
Na	23	3	He	12164.003	31.0717	1251564.43	0.0025	0.7502
Mg	24	3	He	43184.425	52.3171	2116778.87	0.0012	0.02618
Mg	24	3	He	43895.614	53.1783	2063676.22	0.0012	0.02618
Mg	24	3	He	42675.055	51.7003	2082484.34	0.0012	0.02618
Al	27	3	He	5229.264	1.9773	80002.27	0.0004	0.005329
Al	27	3	He	5394.364	2.0396	79148.32	0.0004	0.005329
Al	27	3	He	5222.951	1.9749	79549.19	0.0004	0.005329
K	39	3	He	8022.47	8.4966	343776.69	0.001	0.5307
K	39	3	He	8242.977	8.7155	338221.97	0.001	0.5307
K	39	3	He	7930.696	8.4055	338571.25	0.001	0.5307
Ca	44	3	He	104857.264	5.5241	223507.06	0.0001	0.004441
Ca	44	3	He	109381.758	5.7622	223613.89	0.0001	0.004441
Ca	44	3	He	105113.297	5.5376	223052.06	0.0001	0.004441
Ti	47	3	He	533.746	0.2187	8850.43	0.0004	0.0004559
Ti	47	3	He	562.087	0.2303	8938.47	0.0004	0.0004559
Ti	47	3	He	533.351	0.2186	8804.41	0.0004	0.0004559
V	51	3	He	510.551	9.0059	364383.22	0.0176	0.02609
V	51	3	He	538.237	9.4928	368386.44	0.0176	0.02609
V	51	3	He	517.11	9.1213	367403.13	0.0176	0.02609
Cr	52	3	He	512.913	11.1935	452893.90	0.0217	0.05061
Cr	52	3	He	535.454	11.6832	453385.70	0.0217	0.05061
Cr	52	3	He	517.894	11.3017	455230.89	0.0217	0.05061
Mn	55	3	He	2934.673	26.7589	1082680.50	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	3062.238	27.9216	1083547.25	0.0091	0.01071
Mn	55	3	He	2967.795	27.0608	1090006.75	0.0091	0.01071
Fe	57	3	He	12280.415	4.9125	198761.58	0.0004	0.008452
Fe	57	3	He	12803.982	5.1216	198751.07	0.0004	0.008452
Fe	57	3	He	12301.505	4.9209	198213.42	0.0004	0.008452
Co	59	3	He	509.632	21.048	851614.13	0.0413	0.006013
Co	59	3	He	534.299	22.0665	856327.81	0.0413	0.006013
Co	59	3	He	516.406	21.3277	859076.81	0.0413	0.006013
Ni	60	3	He	503.453	5.9248	239722.05	0.0117	0.01172
Ni	60	3	He	529.882	6.2352	241969.53	0.0117	0.01172
Ni	60	3	He	514.723	6.0572	243983.45	0.0117	0.01172
Cu	63	3	He	499.731	9.7902	663222.00	0.0196	0.01443
Cu	63	3	He	499.795	9.7915	667535.44	0.0196	0.01443
Cu	63	3	He	501.837	9.8314	670157.44	0.0196	0.01443
Zn	66	3	He	512.495	1.1676	79095.41	0.0023	0.002807
Zn	66	3	He	506.79	1.1546	78715.63	0.0023	0.002807
Zn	66	3	He	509.188	1.1601	79075.27	0.0023	0.002807
As	75	3	He	510.117	0.9403	63697.14	0.0018	0.001271
As	75	3	He	516.8	0.9526	64941.92	0.0018	0.001271
As	75	3	He	512.733	0.9451	64421.82	0.0018	0.001271
Sr	88	3	He	140.491	1.1554	62412.80	0.0082	0.00114
Sr	88	3	He	143.683	1.1817	62513.29	0.0082	0.00114
Sr	88	3	He	149.921	1.2329	66288.46	0.0082	0.00114
Mo	98	3	He	51.117	0.9069	48986.60	0.0177	0.001504
Mo	98	3	He	52.27	0.9273	49056.78	0.0177	0.001504
Mo	98	3	He	51.546	0.9145	49167.49	0.0177	0.001504
Ag	107	3	He	51.417	1.8921	102202.15	0.0368	0.001325
Ag	107	3	He	53.353	1.9633	103861.61	0.0368	0.001325
Ag	107	3	He	52.339	1.926	103550.79	0.0368	0.001325
Cd	111	3	He	51.065	0.2095	11318.13	0.0041	4.798E-05
Cd	111	3	He	54.455	0.2234	11820.51	0.0041	4.798E-05
Cd	111	3	He	52.592	0.2158	11602.35	0.0041	4.798E-05
Sn	120	3	He	104.077	1.321	71354.53	0.0126	0.01097
Sn	120	3	He	106.497	1.3514	71494.89	0.0126	0.01097
Sn	120	3	He	106.839	1.3557	72891.77	0.0126	0.01097
Sb	121	3	He	101.788	1.2265	66250.44	0.012	0.0003595
Sb	121	3	He	106.826	1.2872	68094.98	0.012	0.0003595
Sb	121	3	He	105.292	1.2687	68212.05	0.012	0.0003595
Ba	137	3	He	873.668	3.4091	184144.86	0.0039	0.0003633
Ba	137	3	He	884.255	3.4504	182533.20	0.0039	0.0003633
Ba	137	3	He	870.793	3.3978	182685.93	0.0039	0.0003633
Tl	205	3	He	101.818	1.9297	374784.45	0.0189	0.001334
Tl	205	3	He	100.568	1.9061	379161.79	0.0189	0.001334
Tl	205	3	He	101.428	1.9223	375723.08	0.0189	0.001334
Pb	208	3	He	52.379	1.3192	138664.25	0.0252	0.001497
Pb	208	3	He	50.158	1.2633	133858.36	0.0252	0.001497
Pb	208	3	He	52.359	1.3187	137088.06	0.0252	0.001497
U	238	3	He	54.386	1.3352	259320.48	0.0245	0.0001141
U	238	3	He	52.445	1.2876	256126.95	0.0245	0.0001141
U	238	3	He	53.609	1.3161	257240.27	0.0245	0.0001141
Sc	45	1	No Gas			1689579.97		
Sc	45	1	No Gas			1669024.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1713935.60		
Ge	72	1	No Gas			843544.91		
Ge	72	1	No Gas			831460.38		
Ge	72	1	No Gas			849705.14		
Sc	45	2	H2			130777.26		
Sc	45	2	H2			131129.76		
Sc	45	2	H2			132641.81		
Ge	72	2	H2			99296.07		
Ge	72	2	H2			98632.32		
Ge	72	2	H2			97735.94		
In	115	2	H2			246969.55		
In	115	2	H2			245140.29		
In	115	2	H2			246847.50		
Sc	45	3	He			40460.54		
Sc	45	3	He			38806.75		
Sc	45	3	He			40279.90		
Ge	72	3	He			67743.37		
Ge	72	3	He			68175.26		
Ge	72	3	He			68164.98		
In	115	3	He			54515.78		
In	115	3	He			53403.05		
In	115	3	He			54275.53		
Tb	159	3	He			194215.68		
Tb	159	3	He			198924.20		
Tb	159	3	He			195450.43		
Bi	209	3	He			146380.58		
Bi	209	3	He			147702.84		
Bi	209	3	He			144883.79		

Quantitation Report

Data File Name	208SMPL.d
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Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

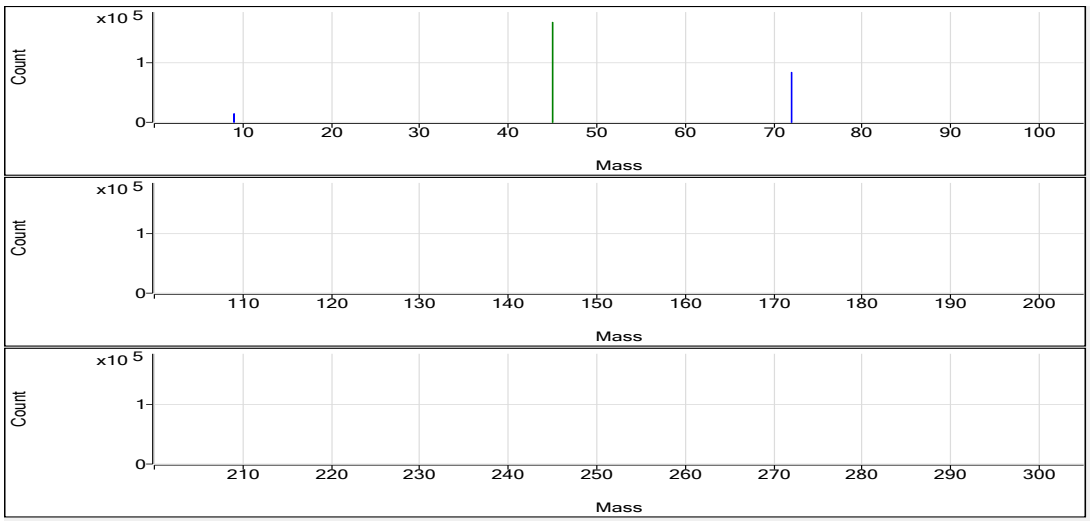
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	51.482	ppb	4.0	29332.73	0.0174	Pulse	0.5000	3
Se	78	72	H2	101.144	ppb	2.2	3902.48	0.0393	Pulse	1.5000	3
Na	23	45	He	12340.082	ppb	0.9	1248178.29	31.5106	Analog	0.1000	3
Mg	24	45	He	44718.119	ppb	1.3	2145892.26	54.1742	Analog	0.1000	3
Al	27	45	He	5419.559	ppb	1.7	81164.31	2.0491	Pulse	0.1000	3
K	39	45	He	8160.615	ppb	0.2	341999.28	8.6338	Pulse	0.5000	3
Ca	44	45	He	108592.678	ppb	1.0	226601.56	5.7207	Pulse	0.5000	3
Ti	47	45	He	545.046	ppb	0.3	8847.75	0.2234	Pulse	0.5000	3
V	51	45	He	538.237	ppb	1.0	376019.68	9.4929	Pulse	0.5000	3
Cr	52	45	He	540.187	ppb	0.8	466854.29	11.7860	Pulse	0.1000	3
Mn	55	45	He	3042.995	ppb	1.0	1099053.25	27.7462	Pulse	0.5000	3
Fe	57	45	He	12704.751	ppb	0.9	201300.89	5.0819	Pulse	0.1000	3
Co	59	45	He	531.425	ppb	0.6	869378.79	21.9478	Pulse	0.5000	3
Ni	60	45	He	529.609	ppb	1.0	246856.27	6.2320	Pulse	0.5000	3
Cu	63	72	He	509.276	ppb	0.5	680356.37	9.9769	Pulse	0.5000	3
Zn	66	72	He	521.424	ppb	0.5	81004.11	1.1879	Pulse	0.5000	3
As	75	72	He	520.925	ppb	0.6	65477.51	0.9602	Pulse	0.5000	3
Sr	88	115	He	148.962	ppb	0.9	65083.92	1.2250	Pulse	0.1000	3
Mo	98	115	He	53.889	ppb	0.7	50789.37	0.9560	Pulse	0.1000	3
Ag	107	115	He	52.982	ppb	1.6	103571.37	1.9496	Pulse	0.1000	3
Cd	111	115	He	53.791	ppb	0.9	11726.44	0.2207	Pulse	0.5000	3
Sn	120	115	He	107.082	ppb	1.8	72191.34	1.3588	Pulse	0.1000	3
Sb	121	115	He	107.293	ppb	1.0	68682.91	1.2928	Pulse	0.3000	3
Ba	137	115	He	897.488	ppb	1.1	186062.45	3.5020	Pulse	0.1000	3
Tl	205	159	He	102.471	ppb	0.7	382077.76	1.9421	Pulse	0.1000	3
Pb	208	159	He	52.198	ppb	0.3	258641.04	1.3146	Pulse	0.1000	3
U	238	159	He	54.376	ppb	0.1	262637.89	1.3350	Pulse	0.1000	3

ISTD Table:

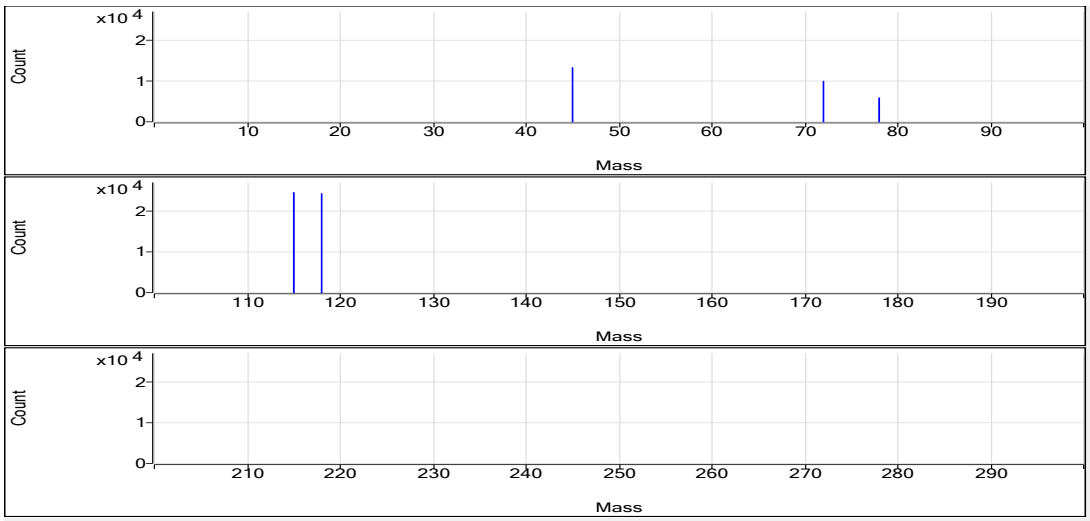
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1690413.99	0.6	98.9	Analog	0.1000	3
No Gas	Ge	72	845552.28	1.5	97.9	Pulse	0.1000	3
H2	Sc	45	131994.10	0.8	98.8	Pulse	0.1000	3
H2	Ge	72	99326.04	0.6	100.3	Pulse	0.1000	3
H2	In	115	244271.34	1.0	95.2	Pulse	0.1000	3
He	Sc	45	39611.72	0.4	100.4	Pulse	0.1000	3
He	Ge	72	68195.08	1.0	100.1	Pulse	0.1000	3
He	In	115	53131.14	1.2	95.9	Pulse	0.1000	3
He	Tb	159	196736.63	0.5	96.1	Pulse	0.1000	3
He	Bi	209	143187.08	1.4	94.7	Pulse	0.1000	3

No Gas

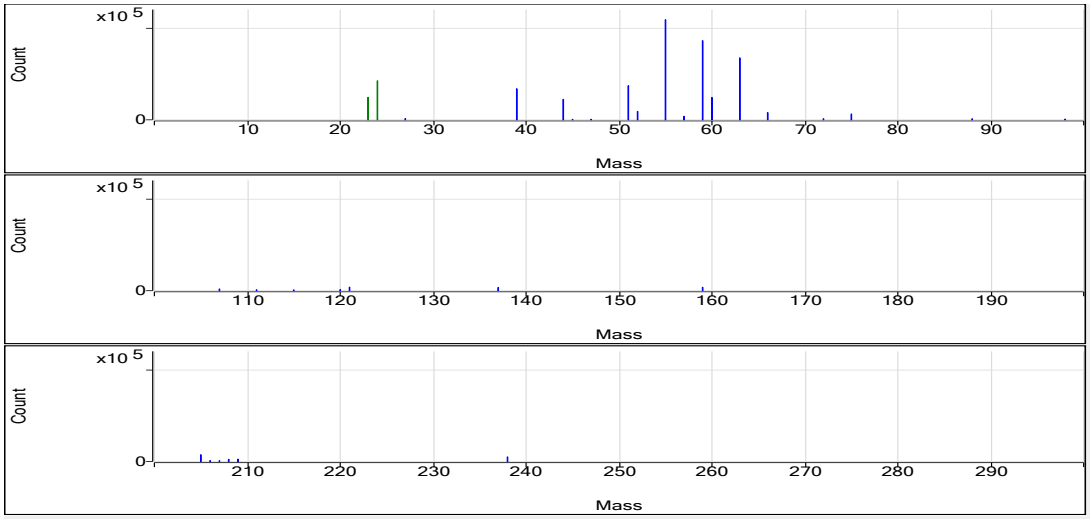


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	49.285	0.0166	28025.18	0.0003	2.616E-05
Be	9	1	No Gas	51.771	0.0175	29712.04	0.0003	2.616E-05
Be	9	1	No Gas	53.388	0.018	30260.96	0.0003	2.616E-05
Se	78	2	H2	100.051	0.0389	3871.14	0.0004	6.3E-05
Se	78	2	H2	103.665	0.0403	4015.18	0.0004	6.3E-05
Se	78	2	H2	99.715	0.0387	3821.13	0.0004	6.3E-05
Na	23	3	He	12316.166	31.451	1250761.70	0.0025	0.7502
Na	23	3	He	12457.046	31.8022	1256128.11	0.0025	0.7502
Na	23	3	He	12247.035	31.2787	1237645.06	0.0025	0.7502
Mg	24	3	He	44175.837	53.5176	2128319.81	0.0012	0.02618
Mg	24	3	He	44654.294	54.0969	2136732.00	0.0012	0.02618
Mg	24	3	He	45324.227	54.9082	2172624.97	0.0012	0.02618
Al	27	3	He	5331.884	2.016	80173.07	0.0004	0.005329
Al	27	3	He	5410.951	2.0458	80805.63	0.0004	0.005329
Al	27	3	He	5515.841	2.0854	82514.24	0.0004	0.005329
K	39	3	He	8175.752	8.6488	343950.41	0.001	0.5307
K	39	3	He	8155.735	8.6289	340826.72	0.001	0.5307
K	39	3	He	8150.357	8.6236	341220.72	0.001	0.5307
Ca	44	3	He	107346.516	5.6551	224895.73	0.0001	0.004441
Ca	44	3	He	109420.474	5.7643	227678.69	0.0001	0.004441
Ca	44	3	He	109011.044	5.7427	227230.27	0.0001	0.004441
Ti	47	3	He	543.421	0.2227	8856.43	0.0004	0.0004559
Ti	47	3	He	547.024	0.2242	8854.41	0.0004	0.0004559
Ti	47	3	He	544.693	0.2232	8832.42	0.0004	0.0004559
V	51	3	He	532.6	9.3937	373574.81	0.0176	0.02609
V	51	3	He	543.184	9.5799	378387.41	0.0176	0.02609
V	51	3	He	538.927	9.505	376096.81	0.0176	0.02609
Cr	52	3	He	535.021	11.6738	464249.13	0.0217	0.05061
Cr	52	3	He	543.003	11.8472	467941.83	0.0217	0.05061
Cr	52	3	He	542.536	11.837	468371.91	0.0217	0.05061
Mn	55	3	He	3008.847	27.435	1091050.88	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	3051.171	27.8208	1098869.63	0.0091	0.01071
Mn	55	3	He	3068.967	27.983	1107239.25	0.0091	0.01071
Fe	57	3	He	12588.759	5.0356	200259.27	0.0004	0.008452
Fe	57	3	He	12714.794	5.0859	200885.60	0.0004	0.008452
Fe	57	3	He	12810.7	5.1242	202757.81	0.0004	0.008452
Co	59	3	He	527.974	21.8053	867166.38	0.0413	0.006013
Co	59	3	He	533.935	22.0514	870992.25	0.0413	0.006013
Co	59	3	He	532.367	21.9867	869977.75	0.0413	0.006013
Ni	60	3	He	523.81	6.1639	245130.55	0.0117	0.01172
Ni	60	3	He	533.519	6.278	247968.20	0.0117	0.01172
Ni	60	3	He	531.5	6.2542	247470.05	0.0117	0.01172
Cu	63	3	He	512.015	10.0305	676271.50	0.0196	0.01443
Cu	63	3	He	508.02	9.9524	681101.56	0.0196	0.01443
Cu	63	3	He	507.792	9.9479	683696.06	0.0196	0.01443
Zn	66	3	He	524.287	1.1944	80526.39	0.0023	0.002807
Zn	66	3	He	519.907	1.1844	81057.16	0.0023	0.002807
Zn	66	3	He	520.076	1.1848	81428.79	0.0023	0.002807
As	75	3	He	521.632	0.9615	64823.55	0.0018	0.001271
As	75	3	He	523.484	0.9649	66032.42	0.0018	0.001271
As	75	3	He	517.657	0.9542	65576.55	0.0018	0.001271
Sr	88	3	He	149.529	1.2297	64652.26	0.0082	0.00114
Sr	88	3	He	149.913	1.2329	65314.64	0.0082	0.00114
Sr	88	3	He	147.446	1.2126	65284.87	0.0082	0.00114
Mo	98	3	He	54.298	0.9632	50642.72	0.0177	0.001504
Mo	98	3	He	53.862	0.9555	50621.71	0.0177	0.001504
Mo	98	3	He	53.505	0.9492	51103.67	0.0177	0.001504
Ag	107	3	He	53.738	1.9774	103964.49	0.0368	0.001325
Ag	107	3	He	53.133	1.9552	103581.62	0.0368	0.001325
Ag	107	3	He	52.074	1.9162	103167.99	0.0368	0.001325
Cd	111	3	He	53.782	0.2207	11602.34	0.0041	4.798E-05
Cd	111	3	He	54.257	0.2226	11794.50	0.0041	4.798E-05
Cd	111	3	He	53.335	0.2188	11782.48	0.0041	4.798E-05
Sn	120	3	He	106.178	1.3474	70841.83	0.0126	0.01097
Sn	120	3	He	109.296	1.3867	73463.65	0.0126	0.01097
Sn	120	3	He	105.771	1.3423	72268.55	0.0126	0.01097
Sb	121	3	He	108.468	1.307	68714.05	0.012	0.0003595
Sb	121	3	He	107.187	1.2915	68422.95	0.012	0.0003595
Sb	121	3	He	106.226	1.28	68911.74	0.012	0.0003595
Ba	137	3	He	890.986	3.4766	182785.90	0.0039	0.0003633
Ba	137	3	He	909.237	3.5478	187958.67	0.0039	0.0003633
Ba	137	3	He	892.24	3.4815	187442.77	0.0039	0.0003633
Tl	205	3	He	102.833	1.949	381576.13	0.0189	0.001334
Tl	205	3	He	101.673	1.927	380823.63	0.0189	0.001334
Tl	205	3	He	102.908	1.9504	383833.51	0.0189	0.001334
Pb	208	3	He	51.993	1.3095	137775.16	0.0252	0.001497
Pb	208	3	He	52.316	1.3176	140237.43	0.0252	0.001497
Pb	208	3	He	52.284	1.3168	139059.18	0.0252	0.001497
U	238	3	He	54.356	1.3345	261270.27	0.0245	0.0001141
U	238	3	He	54.422	1.3361	264049.20	0.0245	0.0001141
U	238	3	He	54.35	1.3343	262594.21	0.0245	0.0001141
Sc	45	1	No Gas			1686892.01		
Sc	45	1	No Gas			1702674.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1681675.76		
Ge	72	1	No Gas			850800.14		
Ge	72	1	No Gas			854399.36		
Ge	72	1	No Gas			831457.33		
Sc	45	2	H2			130918.00		
Sc	45	2	H2			132946.09		
Sc	45	2	H2			132118.20		
Ge	72	2	H2			99608.23		
Ge	72	2	H2			99718.07		
Ge	72	2	H2			98651.81		
In	115	2	H2			247139.41		
In	115	2	H2			243335.89		
In	115	2	H2			242338.73		
Sc	45	3	He			39768.60		
Sc	45	3	He			39498.20		
Sc	45	3	He			39568.35		
Ge	72	3	He			67421.43		
Ge	72	3	He			68436.16		
Ge	72	3	He			68727.64		
In	115	3	He			53071.55		
In	115	3	He			53492.65		
In	115	3	He			54345.23		
Tb	159	3	He			195783.96		
Tb	159	3	He			197626.07		
Tb	159	3	He			196799.86		
Bi	209	3	He			141086.26		
Bi	209	3	He			143389.85		
Bi	209	3	He			145085.12		

Quantitation Report

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Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

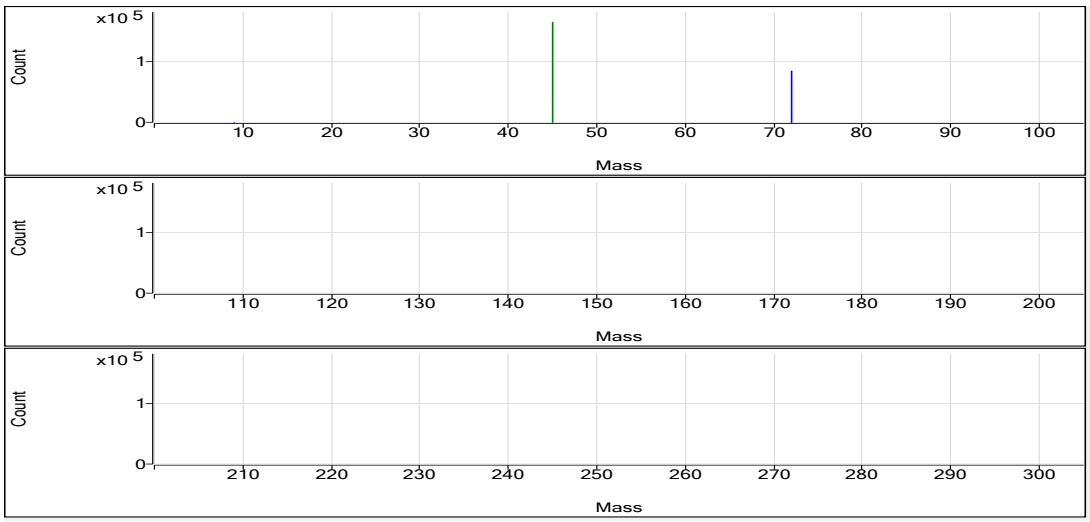
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.139	ppb	10.3	120.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.143	ppb	63.5	11.78	0.0001	Pulse	1.5000	3
Na	23	45	He	497.192	ppb	3.0	77094.90	1.9895	Pulse	0.1000	3
Mg	24	45	He	19800.872	ppb	1.0	930029.34	24.0026	Pulse	0.1000	3
Al	27	45	He	11.197	ppb	12.4	370.02	0.0096	Pulse	0.1000	3
K	39	45	He	1129.225	ppb	6.9	64026.65	1.6519	Pulse	0.5000	3
Ca	44	45	He	20718.845	ppb	1.4	42431.73	1.0951	Pulse	0.5000	3
Ti	47	45	He	-0.147	ppb	N/A	15.33	0.0004	Pulse	0.5000	3
V	51	45	He	0.447	ppb	26.7	1316.06	0.0340	Pulse	0.5000	3
Cr	52	45	He	1.597	ppb	18.1	3303.78	0.0853	Pulse	0.1000	3
Mn	55	45	He	3.087	ppb	10.8	1506.08	0.0388	Pulse	0.5000	3
Fe	57	45	He	17.384	ppb	10.0	596.70	0.0154	Pulse	0.1000	3
Co	59	45	He	0.484	ppb	13.4	1007.37	0.0260	Pulse	0.5000	3
Ni	60	45	He	0.479	ppb	10.6	672.02	0.0173	Pulse	0.5000	3
Cu	63	72	He	0.292	ppb	5.6	1375.40	0.0201	Pulse	0.5000	3
Zn	66	72	He	2.685	ppb	8.1	608.68	0.0089	Pulse	0.5000	3
As	75	72	He	1.590	ppb	9.2	286.67	0.0042	Pulse	0.5000	3
Sr	88	115	He	27.792	ppb	0.2	12065.01	0.2295	Pulse	0.1000	3
Mo	98	115	He	0.477	ppb	12.7	523.36	0.0100	Pulse	0.1000	3
Ag	107	115	He	0.019	ppb	39.6	106.67	0.0020	Pulse	0.1000	3
Cd	111	115	He	0.063	ppb	29.7	16.00	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.393	ppb	47.2	836.72	0.0159	Pulse	0.1000	3
Sb	121	115	He	0.254	ppb	17.4	180.00	0.0034	Pulse	0.3000	3
Ba	137	115	He	772.359	ppb	0.7	158444.53	3.0138	Pulse	0.1000	3
Tl	205	159	He	0.327	ppb	22.9	1450.12	0.0075	Pulse	0.1000	3
Pb	208	159	He	0.069	ppb	20.5	623.36	0.0032	Pulse	0.1000	3
U	238	159	He	0.204	ppb	3.0	986.73	0.0051	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1644580.08	1.9	96.3	Analog	0.1000	3
No Gas	Ge	72	843367.83	1.0	97.6	Pulse	0.1000	3
H2	Sc	45	132891.31	1.0	99.5	Pulse	0.1000	3
H2	Ge	72	99698.52	2.3	100.6	Pulse	0.1000	3
H2	In	115	244426.24	1.0	95.2	Pulse	0.1000	3
He	Sc	45	38749.79	1.0	98.2	Pulse	0.1000	3
He	Ge	72	68295.82	0.6	100.3	Pulse	0.1000	3
He	In	115	52573.58	0.7	94.9	Pulse	0.1000	3
He	Tb	159	192718.85	0.5	94.1	Pulse	0.1000	3
He	Bi	209	142755.92	1.3	94.4	Pulse	0.1000	3

No Gas



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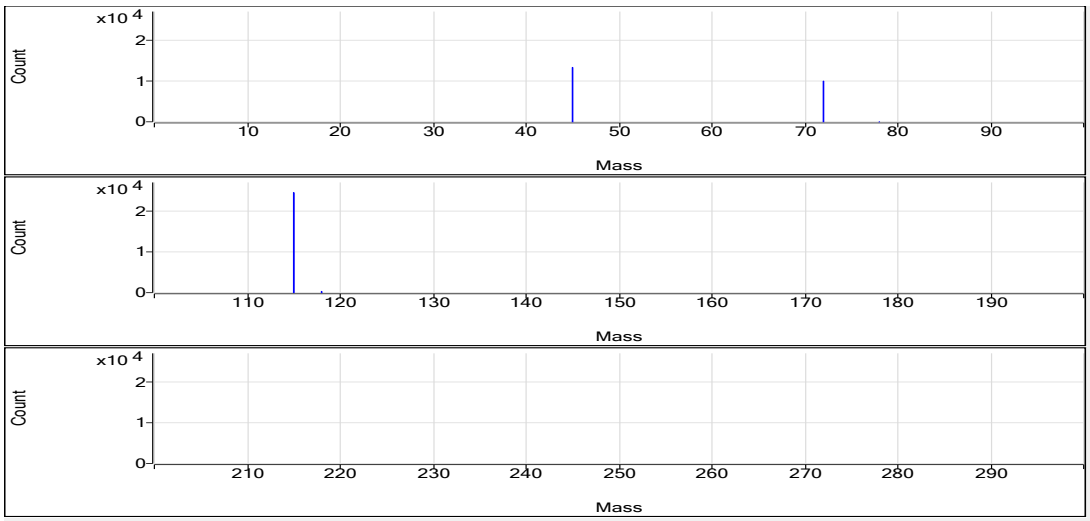
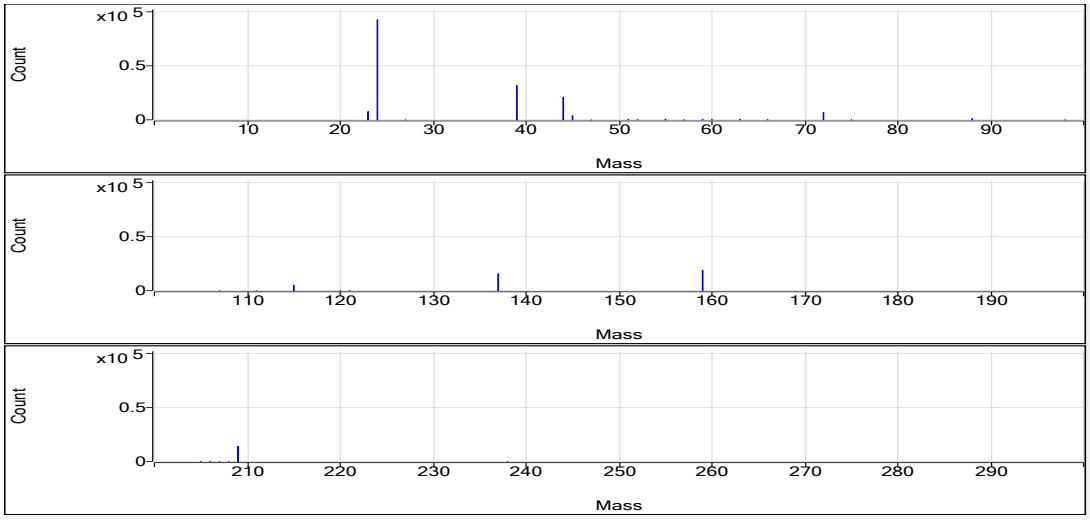


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.151	0.0001	124.00	0.0003	2.616E-05
Be	9	1	No Gas	0.123	0.0001	112.00	0.0003	2.616E-05
Be	9	1	No Gas	0.143	0.0001	124.00	0.0003	2.616E-05
Se	78	2	H2	0.123	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.064	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	0.241	0.0002	15.33	0.0004	6.3E-05
Na	23	3	He	509.319	2.0198	78947.50	0.0025	0.7502
Na	23	3	He	480.821	1.9487	75721.79	0.0025	0.7502
Na	23	3	He	501.435	2.0001	76615.40	0.0025	0.7502
Mg	24	3	He	19621.422	23.7853	929700.30	0.0012	0.02618
Mg	24	3	He	19763.415	23.9572	930900.61	0.0012	0.02618
Mg	24	3	He	20017.78	24.2652	929487.10	0.0012	0.02618
Al	27	3	He	9.613	0.009	350.01	0.0004	0.005329
Al	27	3	He	11.802	0.0098	380.02	0.0004	0.005329
Al	27	3	He	12.176	0.0099	380.02	0.0004	0.005329
K	39	3	He	1219.138	1.7412	68058.98	0.001	0.5307
K	39	3	He	1082.734	1.6058	62394.91	0.001	0.5307
K	39	3	He	1085.802	1.6088	61626.06	0.001	0.5307
Ca	44	3	He	20403.154	1.0785	42153.73	0.0001	0.004441
Ca	44	3	He	20956.921	1.1076	43037.91	0.0001	0.004441
Ca	44	3	He	20796.46	1.0992	42103.55	0.0001	0.004441
Ti	47	3	He	-0.239	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	0.018	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	-0.221	0.0004	14.00	0.0004	0.0004559
V	51	3	He	0.556	0.0359	1402.07	0.0176	0.02609
V	51	3	He	0.319	0.0317	1232.05	0.0176	0.02609
V	51	3	He	0.467	0.0343	1314.06	0.0176	0.02609
Cr	52	3	He	1.263	0.078	3050.39	0.0217	0.05061
Cr	52	3	He	1.746	0.0885	3440.47	0.0217	0.05061
Cr	52	3	He	1.781	0.0893	3420.48	0.0217	0.05061
Mn	55	3	He	3.451	0.0422	1648.10	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	3.015	0.0382	1484.08	0.0091	0.01071
Mn	55	3	He	2.795	0.0362	1386.06	0.0091	0.01071
Fe	57	3	He	17.916	0.0156	610.03	0.0004	0.008452
Fe	57	3	He	18.792	0.016	620.03	0.0004	0.008452
Fe	57	3	He	15.445	0.0146	560.03	0.0004	0.008452
Co	59	3	He	0.558	0.0291	1136.05	0.0413	0.006013
Co	59	3	He	0.445	0.0244	948.03	0.0413	0.006013
Co	59	3	He	0.447	0.0245	938.03	0.0413	0.006013
Ni	60	3	He	0.514	0.0178	694.02	0.0117	0.01172
Ni	60	3	He	0.501	0.0176	684.02	0.0117	0.01172
Ni	60	3	He	0.421	0.0167	638.02	0.0117	0.01172
Cu	63	3	He	0.278	0.0199	1366.07	0.0196	0.01443
Cu	63	3	He	0.31	0.0205	1396.07	0.0196	0.01443
Cu	63	3	He	0.288	0.0201	1364.07	0.0196	0.01443
Zn	66	3	He	2.912	0.0094	648.02	0.0023	0.002807
Zn	66	3	He	2.665	0.0089	604.02	0.0023	0.002807
Zn	66	3	He	2.479	0.0084	574.01	0.0023	0.002807
As	75	3	He	1.427	0.0039	268.00	0.0018	0.001271
As	75	3	He	1.638	0.0043	292.00	0.0018	0.001271
As	75	3	He	1.706	0.0044	300.00	0.0018	0.001271
Sr	88	3	He	27.838	0.2299	12145.06	0.0082	0.00114
Sr	88	3	He	27.793	0.2295	12095.01	0.0082	0.00114
Sr	88	3	He	27.745	0.2291	11954.97	0.0082	0.00114
Mo	98	3	He	0.439	0.0093	490.02	0.0177	0.001504
Mo	98	3	He	0.547	0.0112	590.03	0.0177	0.001504
Mo	98	3	He	0.445	0.0094	490.02	0.0177	0.001504
Ag	107	3	He	0.026	0.0023	120.00	0.0368	0.001325
Ag	107	3	He	0.021	0.0021	110.00	0.0368	0.001325
Ag	107	3	He	0.011	0.0017	90.00	0.0368	0.001325
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.081	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.063	0.0003	16.00	0.0041	4.798E-05
Sn	120	3	He	0.302	0.0148	780.05	0.0126	0.01097
Sn	120	3	He	0.606	0.0186	980.07	0.0126	0.01097
Sn	120	3	He	0.271	0.0144	750.04	0.0126	0.01097
Sb	121	3	He	0.274	0.0037	193.34	0.012	0.0003595
Sb	121	3	He	0.285	0.0038	200.00	0.012	0.0003595
Sb	121	3	He	0.203	0.0028	146.67	0.012	0.0003595
Ba	137	3	He	775.914	3.0277	159967.17	0.0039	0.0003633
Ba	137	3	He	765.971	2.9889	157521.08	0.0039	0.0003633
Ba	137	3	He	775.191	3.0248	157845.34	0.0039	0.0003633
Tl	205	3	He	0.413	0.0092	1760.17	0.0189	0.001334
Tl	205	3	He	0.276	0.0066	1270.09	0.0189	0.001334
Tl	205	3	He	0.292	0.0069	1320.10	0.0189	0.001334
Pb	208	3	He	0.085	0.0036	340.01	0.0252	0.001497
Pb	208	3	He	0.064	0.0031	330.02	0.0252	0.001497
Pb	208	3	He	0.058	0.003	330.02	0.0252	0.001497
U	238	3	He	0.207	0.0052	1000.07	0.0245	0.0001141
U	238	3	He	0.208	0.0052	1010.07	0.0245	0.0001141
U	238	3	He	0.197	0.0049	950.06	0.0245	0.0001141
Sc	45	1	No Gas			1609422.16		
Sc	45	1	No Gas			1655243.26		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1669074.82		
Ge	72	1	No Gas			838903.42		
Ge	72	1	No Gas			837698.35		
Ge	72	1	No Gas			853501.71		
Sc	45	2	H2			134355.96		
Sc	45	2	H2			132028.52		
Sc	45	2	H2			132289.45		
Ge	72	2	H2			102315.14		
Ge	72	2	H2			98913.59		
Ge	72	2	H2			97866.84		
In	115	2	H2			243058.36		
In	115	2	H2			247204.25		
In	115	2	H2			243016.11		
Sc	45	3	He			39087.23		
Sc	45	3	He			38856.81		
Sc	45	3	He			38305.34		
Ge	72	3	He			68757.38		
Ge	72	3	He			68135.61		
Ge	72	3	He			67994.48		
In	115	3	He			52840.64		
In	115	3	He			52709.41		
In	115	3	He			52188.25		
Tb	159	3	He			192301.11		
Tb	159	3	He			193799.51		
Tb	159	3	He			192055.92		
Bi	209	3	He			144874.04		
Bi	209	3	He			141298.34		
Bi	209	3	He			142095.37		

Quantitation Report

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Sample Name	410-229895-G-10-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

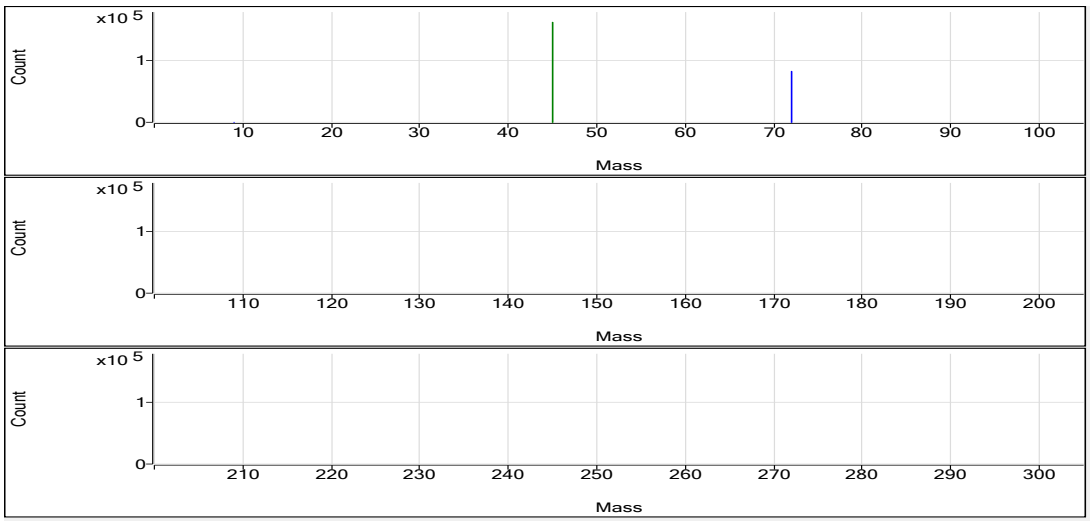
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.029	ppb	129.3	58.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.044	ppb	38.6	8.00	0.0001	Pulse	1.5000	3
Na	23	45	He	492.282	ppb	1.6	78333.43	1.9773	Pulse	0.1000	3
Mg	24	45	He	24177.073	ppb	0.6	1160806.08	29.3016	Analog	0.1000	3
Al	27	45	He	-2.080	ppb	N/A	180.01	0.0045	Pulse	0.1000	3
K	39	45	He	1244.651	ppb	5.4	69987.09	1.7665	Pulse	0.5000	3
Ca	44	45	He	25780.576	ppb	0.9	53935.72	1.3615	Pulse	0.5000	3
Ti	47	45	He	-0.415	ppb	N/A	11.33	0.0003	Pulse	0.5000	3
V	51	45	He	-0.101	ppb	N/A	963.37	0.0243	Pulse	0.5000	3
Cr	52	45	He	-0.478	ppb	N/A	1593.46	0.0402	Pulse	0.1000	3
Mn	55	45	He	1.380	ppb	14.2	922.70	0.0233	Pulse	0.5000	3
Fe	57	45	He	3.903	ppb	128.4	396.68	0.0100	Pulse	0.1000	3
Co	59	45	He	0.094	ppb	27.9	392.01	0.0099	Pulse	0.5000	3
Ni	60	45	He	-0.161	ppb	N/A	389.34	0.0098	Pulse	0.5000	3
Cu	63	72	He	-0.171	ppb	N/A	752.69	0.0111	Pulse	0.5000	3
Zn	66	72	He	1.180	ppb	11.7	372.68	0.0055	Pulse	0.5000	3
As	75	72	He	1.359	ppb	4.3	256.00	0.0038	Pulse	0.5000	3
Sr	88	115	He	45.358	ppb	1.0	20049.88	0.3738	Pulse	0.1000	3
Mo	98	115	He	2.217	ppb	4.7	2186.89	0.0408	Pulse	0.1000	3
Ag	107	115	He	-0.006	ppb	N/A	60.00	0.0011	Pulse	0.1000	3
Cd	111	115	He	0.010	ppb	56.4	4.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.275	ppb	71.4	773.38	0.0144	Pulse	0.1000	3
Sb	121	115	He	0.099	ppb	6.0	83.33	0.0016	Pulse	0.3000	3
Ba	137	115	He	115.401	ppb	0.3	24169.57	0.4506	Pulse	0.1000	3
Tl	205	159	He	0.053	ppb	45.8	453.36	0.0023	Pulse	0.1000	3
Pb	208	159	He	0.006	ppb	286.4	320.01	0.0017	Pulse	0.1000	3
U	238	159	He	0.338	ppb	4.2	1623.48	0.0084	Pulse	0.1000	3

ISTD Table:

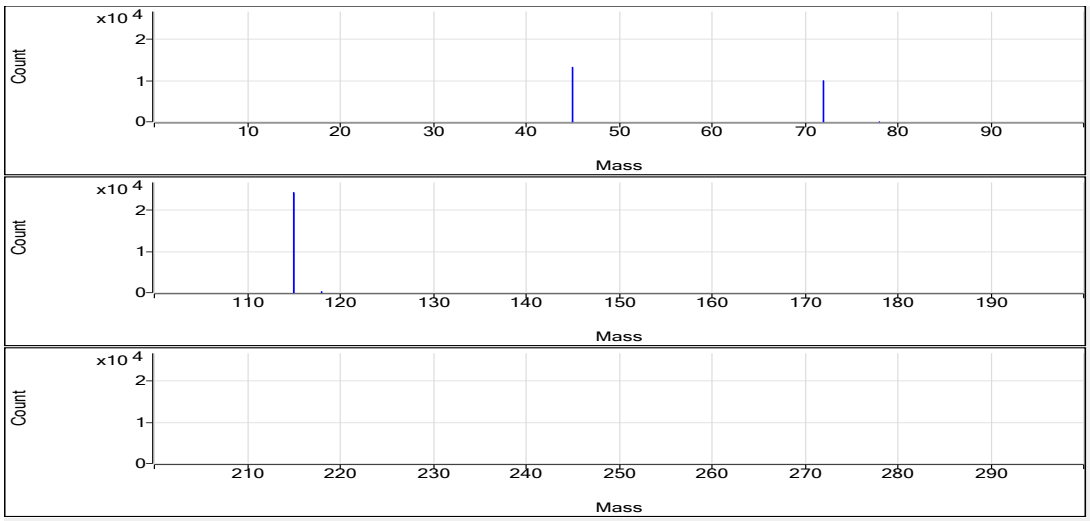
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1636479.30	0.2	95.8	Analog	0.1000	3
No Gas	Ge	72	834442.96	0.5	96.6	Pulse	0.1000	3
H2	Sc	45	132978.38	1.1	99.5	Pulse	0.1000	3
H2	Ge	72	100117.19	0.4	101.1	Pulse	0.1000	3
H2	In	115	243923.84	0.7	95.0	Pulse	0.1000	3
He	Sc	45	39615.26	0.4	100.4	Pulse	0.1000	3
He	Ge	72	67863.51	0.7	99.6	Pulse	0.1000	3
He	In	115	53637.66	0.6	96.8	Pulse	0.1000	3
He	Tb	159	193067.07	1.6	94.3	Pulse	0.1000	3
He	Bi	209	143907.23	0.6	95.1	Pulse	0.1000	3

No Gas

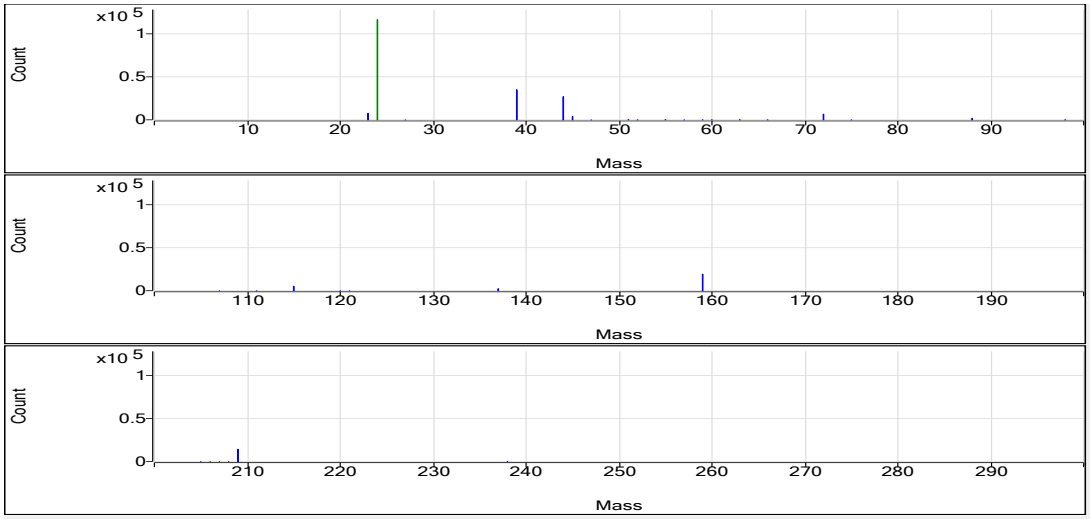


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.071	0.0001	82.00	0.0003	2.616E-05
Be	9	1	No Gas	0.002	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.013	0	50.00	0.0003	2.616E-05
Se	78	2	H2	0.06	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	0.044	0.0001	8.00	0.0004	6.3E-05
Se	78	2	H2	0.026	0.0001	7.33	0.0004	6.3E-05
Na	23	3	He	500.288	1.9973	79408.77	0.0025	0.7502
Na	23	3	He	484.74	1.9585	77298.44	0.0025	0.7502
Na	23	3	He	491.819	1.9762	78293.09	0.0025	0.7502
Mg	24	3	He	24327.383	29.4836	1172232.25	0.0012	0.02618
Mg	24	3	He	24054.677	29.1534	1150627.33	0.0012	0.02618
Mg	24	3	He	24149.159	29.2678	1159558.65	0.0012	0.02618
Al	27	3	He	-2.793	0.0043	170.01	0.0004	0.005329
Al	27	3	He	-0.694	0.0051	200.01	0.0004	0.005329
Al	27	3	He	-2.753	0.0043	170.01	0.0004	0.005329
K	39	3	He	1322.203	1.8435	73297.17	0.001	0.5307
K	39	3	He	1213.694	1.7358	68508.73	0.001	0.5307
K	39	3	He	1198.055	1.7203	68155.38	0.001	0.5307
Ca	44	3	He	25574.472	1.3507	53700.94	0.0001	0.004441
Ca	44	3	He	26024.296	1.3743	54242.79	0.0001	0.004441
Ca	44	3	He	25742.96	1.3595	53863.42	0.0001	0.004441
Ti	47	3	He	-0.377	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.371	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.498	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.108	0.0242	962.04	0.0176	0.02609
V	51	3	He	-0.127	0.0239	942.03	0.0176	0.02609
V	51	3	He	-0.069	0.0249	986.04	0.0176	0.02609
Cr	52	3	He	-0.292	0.0443	1760.15	0.0217	0.05061
Cr	52	3	He	-0.58	0.038	1500.12	0.0217	0.05061
Cr	52	3	He	-0.563	0.0384	1520.12	0.0217	0.05061
Mn	55	3	He	1.601	0.0253	1006.04	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.31	0.0227	894.03	0.0091	0.01071
Mn	55	3	He	1.229	0.0219	868.03	0.0091	0.01071
Fe	57	3	He	9.067	0.0121	480.02	0.0004	0.008452
Fe	57	3	He	3.58	0.0099	390.02	0.0004	0.008452
Fe	57	3	He	-0.939	0.0081	320.01	0.0004	0.008452
Co	59	3	He	0.122	0.0111	440.01	0.0413	0.006013
Co	59	3	He	0.089	0.0097	382.01	0.0413	0.006013
Co	59	3	He	0.071	0.0089	354.01	0.0413	0.006013
Ni	60	3	He	-0.077	0.0108	430.01	0.0117	0.01172
Ni	60	3	He	-0.169	0.0097	384.01	0.0117	0.01172
Ni	60	3	He	-0.237	0.0089	354.01	0.0117	0.01172
Cu	63	3	He	-0.118	0.0121	816.03	0.0196	0.01443
Cu	63	3	He	-0.214	0.0103	696.02	0.0196	0.01443
Cu	63	3	He	-0.18	0.0109	746.02	0.0196	0.01443
Zn	66	3	He	1.052	0.0052	350.01	0.0023	0.002807
Zn	66	3	He	1.162	0.0054	370.01	0.0023	0.002807
Zn	66	3	He	1.327	0.0058	398.01	0.0023	0.002807
As	75	3	He	1.423	0.0039	262.00	0.0018	0.001271
As	75	3	He	1.31	0.0037	250.00	0.0018	0.001271
As	75	3	He	1.344	0.0037	256.00	0.0018	0.001271
Sr	88	3	He	44.836	0.3695	19943.13	0.0082	0.00114
Sr	88	3	He	45.715	0.3767	20203.28	0.0082	0.00114
Sr	88	3	He	45.524	0.3752	20003.23	0.0082	0.00114
Mo	98	3	He	2.196	0.0404	2180.22	0.0177	0.001504
Mo	98	3	He	2.126	0.0392	2100.21	0.0177	0.001504
Mo	98	3	He	2.33	0.0428	2280.25	0.0177	0.001504
Ag	107	3	He	0.009	0.0017	90.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0007	40.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Sn	120	3	He	0.071	0.0119	640.03	0.0126	0.01097
Sn	120	3	He	0.462	0.0168	900.06	0.0126	0.01097
Sn	120	3	He	0.291	0.0146	780.05	0.0126	0.01097
Sb	121	3	He	0.093	0.0015	80.00	0.012	0.0003595
Sb	121	3	He	0.099	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.105	0.0016	86.67	0.012	0.0003595
Ba	137	3	He	114.975	0.4489	24229.68	0.0039	0.0003633
Ba	137	3	He	115.712	0.4518	24229.69	0.0039	0.0003633
Ba	137	3	He	115.518	0.4511	24049.34	0.0039	0.0003633
Tl	205	3	He	0.08	0.0028	560.03	0.0189	0.001334
Tl	205	3	He	0.048	0.0022	430.02	0.0189	0.001334
Tl	205	3	He	0.032	0.0019	370.02	0.0189	0.001334
Pb	208	3	He	-0.007	0.0013	140.00	0.0252	0.001497
Pb	208	3	He	0.028	0.0022	280.02	0.0252	0.001497
Pb	208	3	He	-0.001	0.0015	120.00	0.0252	0.001497
U	238	3	He	0.337	0.0084	1650.15	0.0245	0.0001141
U	238	3	He	0.353	0.0088	1680.15	0.0245	0.0001141
U	238	3	He	0.324	0.0081	1540.13	0.0245	0.0001141
Sc	45	1	No Gas			1633563.26		
Sc	45	1	No Gas			1636479.35		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1639395.29		
Ge	72	1	No Gas			830591.24		
Ge	72	1	No Gas			834567.33		
Ge	72	1	No Gas			838170.30		
Sc	45	2	H2			132501.60		
Sc	45	2	H2			131804.54		
Sc	45	2	H2			134628.99		
Ge	72	2	H2			100482.53		
Ge	72	2	H2			99777.94		
Ge	72	2	H2			100091.09		
In	115	2	H2			241984.59		
In	115	2	H2			244805.95		
In	115	2	H2			244980.99		
Sc	45	3	He			39758.79		
Sc	45	3	He			39468.05		
Sc	45	3	He			39618.93		
Ge	72	3	He			67341.48		
Ge	72	3	He			67903.75		
Ge	72	3	He			68345.29		
In	115	3	He			53974.33		
In	115	3	He			53632.83		
In	115	3	He			53322.06		
Tb	159	3	He			196675.88		
Tb	159	3	He			191621.93		
Tb	159	3	He			190903.40		
Bi	209	3	He			144932.67		
Bi	209	3	He			143511.30		
Bi	209	3	He			143277.73		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

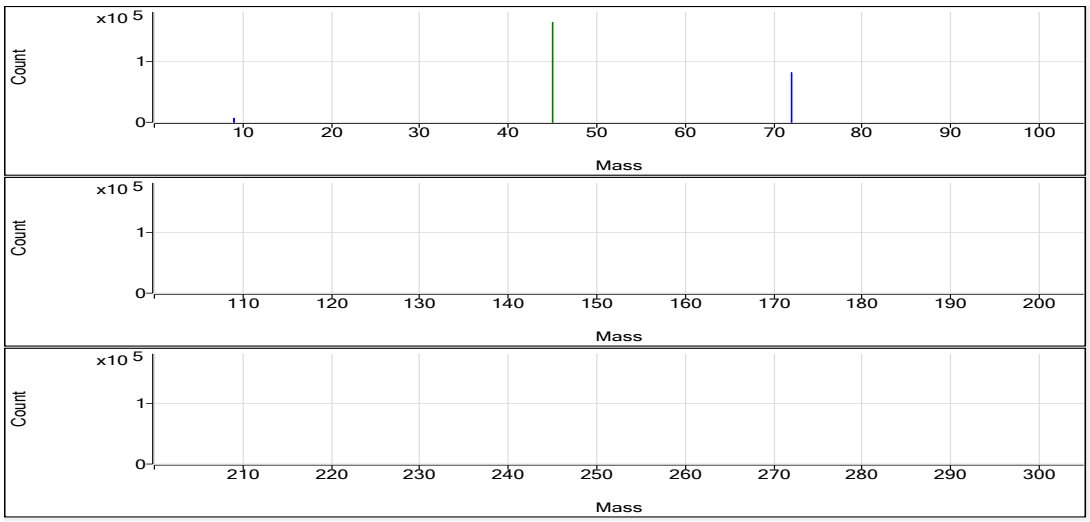
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.447	ppb	5.6	13709.61	0.0083	Pulse	0.5000	3
Se	78	72	H2	24.981	ppb	1.0	934.92	0.0098	Pulse	1.5000	3
Na	23	45	He	2434.742	ppb	3.9	266878.69	6.8193	Pulse	0.1000	3
Mg	24	45	He	2523.480	ppb	3.7	120613.14	3.0818	Pulse	0.1000	3
Al	27	45	He	2513.154	ppb	4.8	37289.13	0.9530	Pulse	0.1000	3
K	39	45	He	2531.773	ppb	5.4	119135.34	3.0446	Pulse	0.5000	3
Ca	44	45	He	2592.208	ppb	0.6	5516.95	0.1409	Pulse	0.5000	3
Ti	47	45	He	2511.199	ppb	2.4	40219.67	1.0275	Pulse	0.5000	3
V	51	45	He	252.459	ppb	2.5	174830.87	4.4665	Pulse	0.5000	3
Cr	52	45	He	254.890	ppb	1.9	218758.72	5.5880	Pulse	0.1000	3
Mn	55	45	He	251.940	ppb	1.9	90314.05	2.3070	Pulse	0.5000	3
Fe	57	45	He	2547.807	ppb	1.5	40170.29	1.0259	Pulse	0.1000	3
Co	59	45	He	250.598	ppb	2.8	405224.12	10.3529	Pulse	0.5000	3
Ni	60	45	He	249.941	ppb	2.3	115370.00	2.9473	Pulse	0.5000	3
Cu	63	72	He	250.448	ppb	1.9	320476.35	4.9137	Pulse	0.5000	3
Zn	66	72	He	251.423	ppb	2.8	37447.77	0.5742	Pulse	0.5000	3
As	75	72	He	248.170	ppb	2.7	29873.65	0.4581	Pulse	0.5000	3
Sr	88	115	He	25.442	ppb	4.6	11030.84	0.2102	Pulse	0.1000	3
Mo	98	115	He	24.552	ppb	2.7	22880.47	0.4364	Pulse	0.1000	3
Ag	107	115	He	24.946	ppb	3.0	48168.30	0.9187	Pulse	0.1000	3
Cd	111	115	He	25.566	ppb	2.1	5502.33	0.1049	Pulse	0.5000	3
Sn	120	115	He	24.668	ppb	5.0	16849.51	0.3215	Pulse	0.1000	3
Sb	121	115	He	25.297	ppb	1.9	16008.34	0.3051	Pulse	0.3000	3
Ba	137	115	He	250.888	ppb	3.0	51356.49	0.9792	Pulse	0.1000	3
Tl	205	159	He	24.385	ppb	1.2	89121.46	0.4632	Pulse	0.1000	3
Pb	208	159	He	24.846	ppb	0.9	120558.11	0.6266	Pulse	0.1000	3
U	238	159	He	25.370	ppb	2.6	119842.29	0.6229	Pulse	0.1000	3

ISTD Table:

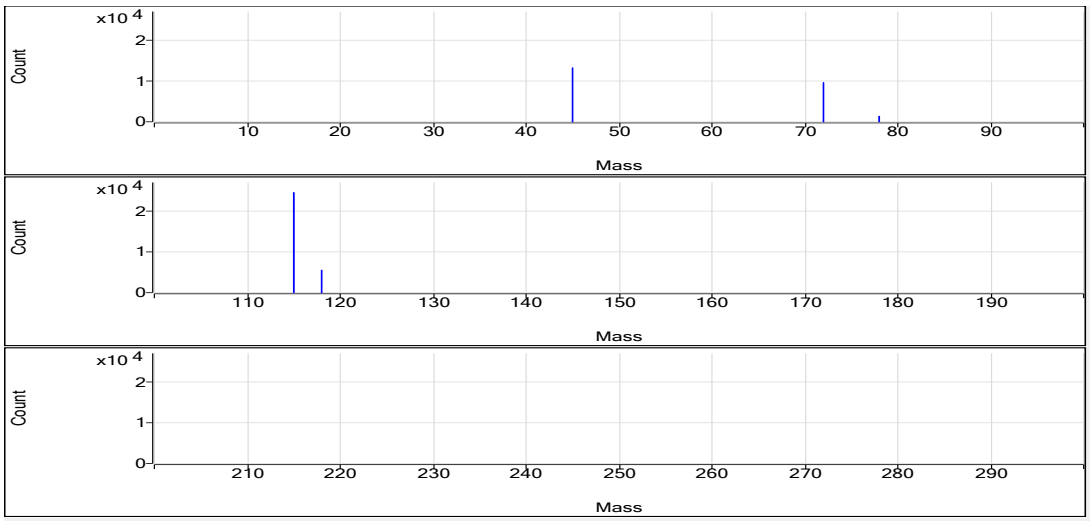
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1661636.33	1.6	97.3	Analog	0.1000	3
No Gas	Ge	72	824764.41	1.5	95.5	Pulse	0.1000	3
H2	Sc	45	131846.07	1.8	98.7	Pulse	0.1000	3
H2	Ge	72	95885.39	0.7	96.8	Pulse	0.1000	3
H2	In	115	244596.27	0.7	95.3	Pulse	0.1000	3
He	Sc	45	39160.80	2.7	99.2	Pulse	0.1000	3
He	Ge	72	65236.50	2.0	95.8	Pulse	0.1000	3
He	In	115	52458.01	2.6	94.7	Pulse	0.1000	3
He	Tb	159	192412.52	0.6	94.0	Pulse	0.1000	3
He	Bi	209	141874.80	0.7	93.8	Pulse	0.1000	3

No Gas

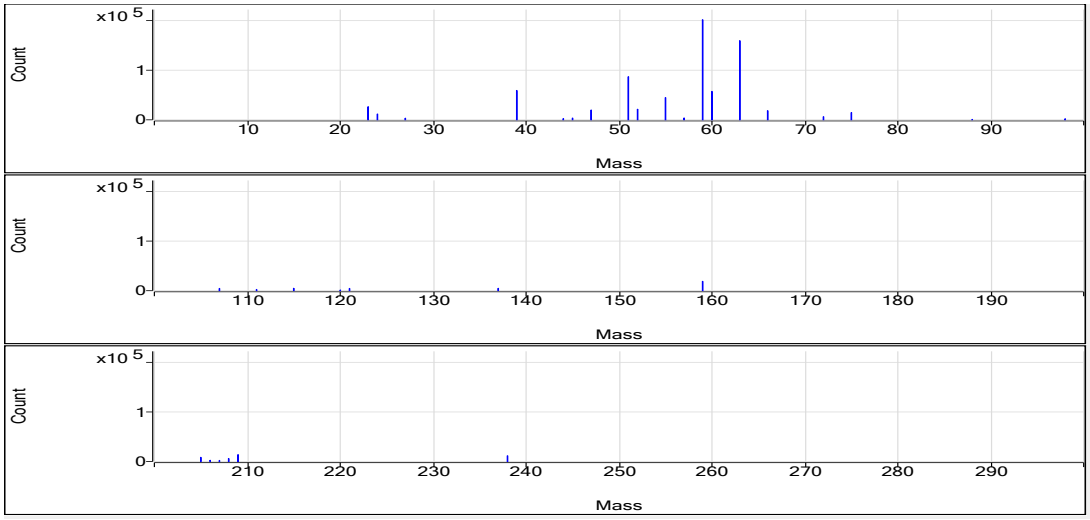


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.06	0.0078	13005.04	0.0003	2.616E-05
Be	9	1	No Gas	24.498	0.0083	13921.78	0.0003	2.616E-05
Be	9	1	No Gas	25.784	0.0087	14202.00	0.0003	2.616E-05
Se	78	2	H2	24.934	0.0097	938.03	0.0004	6.3E-05
Se	78	2	H2	25.253	0.0099	937.36	0.0004	6.3E-05
Se	78	2	H2	24.755	0.0097	929.36	0.0004	6.3E-05
Na	23	3	He	2518.024	7.0269	268253.22	0.0025	0.7502
Na	23	3	He	2329.69	6.5575	264332.22	0.0025	0.7502
Na	23	3	He	2456.513	6.8736	268050.64	0.0025	0.7502
Mg	24	3	He	2628.144	3.2085	122486.06	0.0012	0.02618
Mg	24	3	He	2451.907	2.9951	120734.38	0.0012	0.02618
Mg	24	3	He	2490.39	3.0417	118618.97	0.0012	0.02618
Al	27	3	He	2615.356	0.9916	37853.75	0.0004	0.005329
Al	27	3	He	2378.5	0.9023	36370.43	0.0004	0.005329
Al	27	3	He	2545.607	0.9653	37643.22	0.0004	0.005329
K	39	3	He	2680.421	3.1922	121862.11	0.001	0.5307
K	39	3	He	2410.145	2.9238	117859.70	0.001	0.5307
K	39	3	He	2504.754	3.0178	117684.21	0.001	0.5307
Ca	44	3	He	2610.27	0.1418	5414.91	0.0001	0.004441
Ca	44	3	He	2579.749	0.1402	5653.00	0.0001	0.004441
Ca	44	3	He	2586.604	0.1406	5482.94	0.0001	0.004441
Ti	47	3	He	2546.588	1.0419	39775.93	0.0004	0.0004559
Ti	47	3	He	2440.829	0.9987	40257.05	0.0004	0.0004559
Ti	47	3	He	2546.181	1.0418	40626.02	0.0004	0.0004559
V	51	3	He	258.411	4.5711	174503.47	0.0176	0.02609
V	51	3	He	245.857	4.3503	175362.58	0.0176	0.02609
V	51	3	He	253.111	4.4779	174626.56	0.0176	0.02609
Cr	52	3	He	257.867	5.6527	215791.93	0.0217	0.05061
Cr	52	3	He	249.184	5.464	220256.29	0.0217	0.05061
Cr	52	3	He	257.618	5.6473	220227.93	0.0217	0.05061
Mn	55	3	He	255.639	2.3407	89358.13	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	246.46	2.2571	90983.13	0.0091	0.01071
Mn	55	3	He	253.722	2.3233	90600.91	0.0091	0.01071
Fe	57	3	He	2536.92	1.0215	38997.31	0.0004	0.008452
Fe	57	3	He	2516.655	1.0134	40852.19	0.0004	0.008452
Fe	57	3	He	2589.847	1.0427	40661.36	0.0004	0.008452
Co	59	3	He	255.785	10.567	403396.44	0.0413	0.006013
Co	59	3	He	242.664	10.0253	404119.91	0.0413	0.006013
Co	59	3	He	253.346	10.4663	408156.00	0.0413	0.006013
Ni	60	3	He	254.764	3.004	114675.98	0.0117	0.01172
Ni	60	3	He	243.441	2.871	115728.98	0.0117	0.01172
Ni	60	3	He	251.619	2.967	115705.03	0.0117	0.01172
Cu	63	3	He	249.038	4.8861	321781.63	0.0196	0.01443
Cu	63	3	He	246.672	4.8398	319945.16	0.0196	0.01443
Cu	63	3	He	255.634	5.0152	319702.28	0.0196	0.01443
Zn	66	3	He	245.568	0.5609	36939.91	0.0023	0.002807
Zn	66	3	He	249.517	0.5699	37673.66	0.0023	0.002807
Zn	66	3	He	259.185	0.5919	37729.73	0.0023	0.002807
As	75	3	He	245.328	0.4529	29823.53	0.0018	0.001271
As	75	3	He	243.375	0.4493	29699.36	0.0018	0.001271
As	75	3	He	255.807	0.4721	30098.07	0.0018	0.001271
Sr	88	3	He	24.608	0.2033	10733.94	0.0082	0.00114
Sr	88	3	He	26.776	0.2211	11854.76	0.0082	0.00114
Sr	88	3	He	24.941	0.2061	10503.83	0.0082	0.00114
Mo	98	3	He	24.274	0.4314	22776.92	0.0177	0.001504
Mo	98	3	He	24.062	0.4277	22927.28	0.0177	0.001504
Mo	98	3	He	25.32	0.45	22937.21	0.0177	0.001504
Ag	107	3	He	25.012	0.9211	48626.56	0.0368	0.001325
Ag	107	3	He	24.178	0.8904	47733.74	0.0368	0.001325
Ag	107	3	He	25.649	0.9445	48144.60	0.0368	0.001325
Cd	111	3	He	25.611	0.1051	5549.01	0.0041	4.798E-05
Cd	111	3	He	25.002	0.1026	5501.00	0.0041	4.798E-05
Cd	111	3	He	26.084	0.1071	5456.98	0.0041	4.798E-05
Sn	120	3	He	24.531	0.3197	16879.55	0.0126	0.01097
Sn	120	3	He	23.506	0.3068	16449.04	0.0126	0.01097
Sn	120	3	He	25.968	0.3378	17219.93	0.0126	0.01097
Sb	121	3	He	25.028	0.3018	15934.91	0.012	0.0003595
Sb	121	3	He	25.856	0.3118	16715.75	0.012	0.0003595
Sb	121	3	He	25.009	0.3016	15374.35	0.012	0.0003595
Ba	137	3	He	242.521	0.9466	49971.90	0.0039	0.0003633
Ba	137	3	He	253.22	0.9883	52982.10	0.0039	0.0003633
Ba	137	3	He	256.924	1.0028	51115.46	0.0039	0.0003633
Tl	205	3	He	24.057	0.457	87924.57	0.0189	0.001334
Tl	205	3	He	24.451	0.4644	89936.41	0.0189	0.001334
Tl	205	3	He	24.649	0.4682	89503.39	0.0189	0.001334
Pb	208	3	He	25.099	0.6329	65145.84	0.0252	0.001497
Pb	208	3	He	24.677	0.6223	64061.41	0.0252	0.001497
Pb	208	3	He	24.763	0.6245	63528.93	0.0252	0.001497
U	238	3	He	25.166	0.6179	118890.70	0.0245	0.0001141
U	238	3	He	24.837	0.6098	118094.39	0.0245	0.0001141
U	238	3	He	26.107	0.641	122541.78	0.0245	0.0001141
Sc	45	1	No Gas			1670042.79		
Sc	45	1	No Gas			1683192.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1631673.41		
Ge	72	1	No Gas			835218.50		
Ge	72	1	No Gas			828323.97		
Ge	72	1	No Gas			810750.77		
Sc	45	2	H2			134376.63		
Sc	45	2	H2			129759.60		
Sc	45	2	H2			131401.97		
Ge	72	2	H2			96378.30		
Ge	72	2	H2			95100.82		
Ge	72	2	H2			96177.04		
In	115	2	H2			244492.30		
In	115	2	H2			242886.70		
In	115	2	H2			246409.82		
Sc	45	3	He			38175.06		
Sc	45	3	He			40310.16		
Sc	45	3	He			38997.17		
Ge	72	3	He			65855.97		
Ge	72	3	He			66106.52		
Ge	72	3	He			63747.02		
In	115	3	He			52910.24		
In	115	3	He			53723.13		
In	115	3	He			51094.49		
Tb	159	3	He			192412.89		
Tb	159	3	He			193649.68		
Tb	159	3	He			191174.98		
Bi	209	3	He			141945.11		
Bi	209	3	He			140905.87		
Bi	209	3	He			142773.43		

Quantitation Report

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Sample Type	CCB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

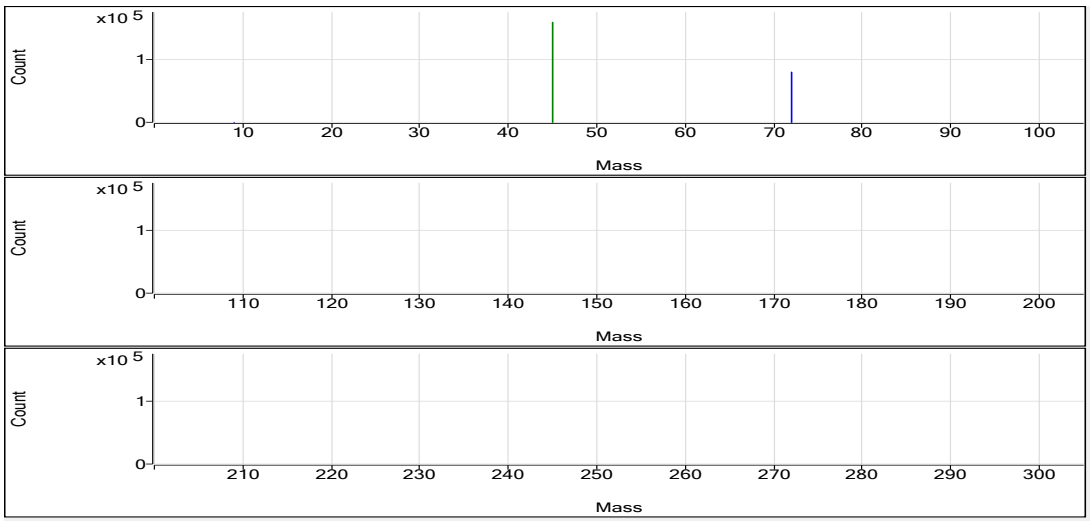
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.010	ppb	N/A	36.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.098	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	-99.404	ppb	N/A	19318.29	0.5024	Pulse	0.1000	3
Mg	24	45	He	-6.434	ppb	N/A	706.70	0.0184	Pulse	0.1000	3
Al	27	45	He	-5.866	ppb	N/A	120.00	0.0031	Pulse	0.1000	3
K	39	45	He	3.071	ppb	3044.6	20483.64	0.5337	Pulse	0.5000	3
Ca	44	45	He	-10.954	ppb	N/A	148.67	0.0039	Pulse	0.5000	3
Ti	47	45	He	0.074	ppb	216.3	18.67	0.0005	Pulse	0.5000	3
V	51	45	He	-0.019	ppb	N/A	990.70	0.0258	Pulse	0.5000	3
Cr	52	45	He	-0.186	ppb	N/A	1790.15	0.0466	Pulse	0.1000	3
Mn	55	45	He	-0.269	ppb	N/A	317.34	0.0083	Pulse	0.5000	3
Fe	57	45	He	-7.893	ppb	N/A	203.34	0.0053	Pulse	0.1000	3
Co	59	45	He	0.010	ppb	110.9	247.33	0.0064	Pulse	0.5000	3
Ni	60	45	He	-0.177	ppb	N/A	370.01	0.0096	Pulse	0.5000	3
Cu	63	72	He	-0.261	ppb	N/A	609.35	0.0093	Pulse	0.5000	3
Zn	66	72	He	0.022	ppb	264.2	186.67	0.0029	Pulse	0.5000	3
As	75	72	He	0.574	ppb	19.4	152.00	0.0023	Pulse	0.5000	3
Sr	88	115	He	-0.031	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Mo	98	115	He	-0.010	ppb	N/A	70.00	0.0013	Pulse	0.1000	3
Ag	107	115	He	-0.016	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	3053.4	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.063	ppb	N/A	536.69	0.0102	Pulse	0.1000	3
Sb	121	115	He	0.045	ppb	48.7	47.78	0.0009	Pulse	0.3000	3
Ba	137	115	He	0.036	ppb	81.7	26.67	0.0005	Pulse	0.1000	3
Tl	205	159	He	-0.003	ppb	N/A	243.34	0.0013	Pulse	0.1000	3
Pb	208	159	He	-0.003	ppb	N/A	273.34	0.0014	Pulse	0.1000	3
U	238	159	He	0.006	ppb	0.2	50.00	0.0003	Pulse	0.1000	3

ISTD Table:

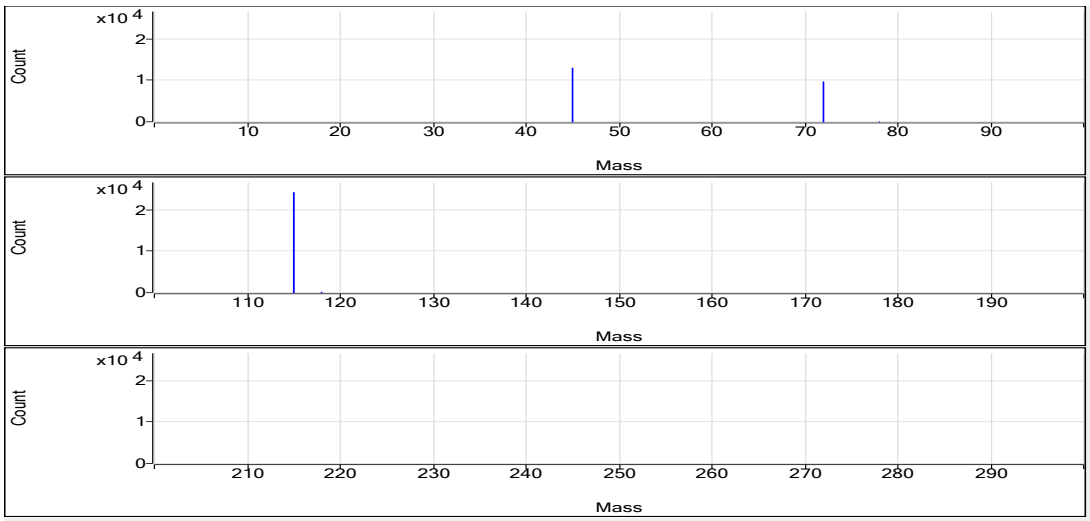
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1608870.23	1.1	94.2	Analog	0.1000	3
No Gas	Ge	72	808704.39	1.0	93.6	Pulse	0.1000	3
H2	Sc	45	130293.27	0.8	97.5	Pulse	0.1000	3
H2	Ge	72	96777.08	2.3	97.7	Pulse	0.1000	3
H2	In	115	242385.46	1.5	94.4	Pulse	0.1000	3
He	Sc	45	38452.35	1.6	97.4	Pulse	0.1000	3
He	Ge	72	65329.60	0.8	95.9	Pulse	0.1000	3
He	In	115	52863.25	1.6	95.4	Pulse	0.1000	3
He	Tb	159	190795.37	0.1	93.2	Pulse	0.1000	3
He	Bi	209	139588.85	1.0	92.3	Pulse	0.1000	3

No Gas

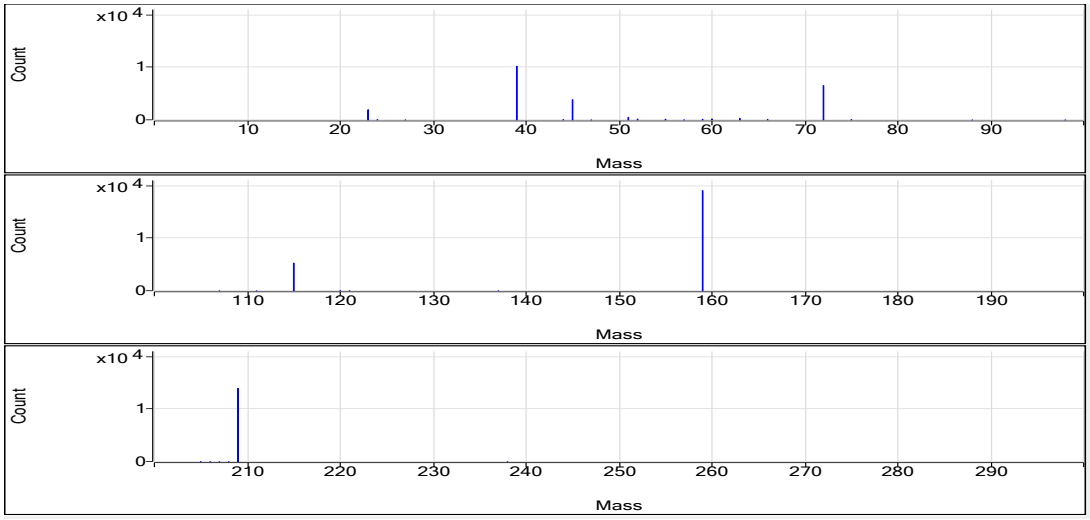


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.012	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.003	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.076	0	3.33	0.0004	6.3E-05
Na	23	3	He	-98.725	0.5041	19021.22	0.0025	0.7502
Na	23	3	He	-103.028	0.4934	19101.31	0.0025	0.7502
Na	23	3	He	-96.458	0.5097	19832.35	0.0025	0.7502
Mg	24	3	He	-5.645	0.0193	730.04	0.0012	0.02618
Mg	24	3	He	-4.984	0.0201	780.04	0.0012	0.02618
Mg	24	3	He	-8.674	0.0157	610.03	0.0012	0.02618
Al	27	3	He	-7.105	0.0027	100.00	0.0004	0.005329
Al	27	3	He	-3.858	0.0039	150.01	0.0004	0.005329
Al	27	3	He	-6.635	0.0028	110.00	0.0004	0.005329
K	39	3	He	108.034	0.6379	24071.71	0.001	0.5307
K	39	3	He	-27.465	0.5034	19489.50	0.001	0.5307
K	39	3	He	-71.355	0.4598	17889.71	0.001	0.5307
Ca	44	3	He	-13.881	0.0037	140.00	0.0001	0.004441
Ca	44	3	He	-15.67	0.0036	140.00	0.0001	0.004441
Ca	44	3	He	-3.31	0.0043	166.00	0.0001	0.004441
Ti	47	3	He	0.181	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	0.148	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	-0.109	0.0004	16.00	0.0004	0.0004559
V	51	3	He	-0.046	0.0253	954.04	0.0176	0.02609
V	51	3	He	0.085	0.0276	1068.04	0.0176	0.02609
V	51	3	He	-0.095	0.0244	950.03	0.0176	0.02609
Cr	52	3	He	-0.085	0.0488	1840.15	0.0217	0.05061
Cr	52	3	He	-0.439	0.0411	1590.13	0.0217	0.05061
Cr	52	3	He	-0.034	0.0499	1940.17	0.0217	0.05061
Mn	55	3	He	-0.186	0.009	340.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.296	0.008	310.01	0.0091	0.01071
Mn	55	3	He	-0.323	0.0078	302.00	0.0091	0.01071
Fe	57	3	He	-4.574	0.0066	250.01	0.0004	0.008452
Fe	57	3	He	-9.523	0.0046	180.01	0.0004	0.008452
Fe	57	3	He	-9.58	0.0046	180.01	0.0004	0.008452
Co	59	3	He	0.023	0.0069	262.00	0.0413	0.006013
Co	59	3	He	0.008	0.0064	246.00	0.0413	0.006013
Co	59	3	He	0	0.006	234.00	0.0413	0.006013
Ni	60	3	He	-0.059	0.011	416.01	0.0117	0.01172
Ni	60	3	He	-0.179	0.0096	372.01	0.0117	0.01172
Ni	60	3	He	-0.293	0.0083	322.01	0.0117	0.01172
Cu	63	3	He	-0.216	0.0102	662.02	0.0196	0.01443
Cu	63	3	He	-0.286	0.0088	582.01	0.0196	0.01443
Cu	63	3	He	-0.281	0.0089	584.02	0.0196	0.01443
Zn	66	3	He	-0.027	0.0027	178.00	0.0023	0.002807
Zn	66	3	He	0.007	0.0028	186.00	0.0023	0.002807
Zn	66	3	He	0.086	0.003	196.00	0.0023	0.002807
As	75	3	He	0.7	0.0026	166.00	0.0018	0.001271
As	75	3	He	0.53	0.0022	148.00	0.0018	0.001271
As	75	3	He	0.491	0.0022	142.00	0.0018	0.001271
Sr	88	3	He	0.071	0.0017	90.00	0.0082	0.00114
Sr	88	3	He	-0.071	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.092	0.0004	20.00	0.0082	0.00114
Mo	98	3	He	0.001	0.0015	80.00	0.0177	0.001504
Mo	98	3	He	-0.012	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	-0.02	0.0011	60.00	0.0177	0.001504
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	-0.021	0.0107	560.03	0.0126	0.01097
Sn	120	3	He	-0.192	0.0085	460.02	0.0126	0.01097
Sn	120	3	He	0.023	0.0113	590.03	0.0126	0.01097
Sb	121	3	He	0.049	0.001	50.00	0.012	0.0003595
Sb	121	3	He	0.022	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	0.065	0.0011	60.00	0.012	0.0003595
Ba	137	3	He	0.054	0.0006	30.00	0.0039	0.0003633
Ba	137	3	He	0.002	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.054	0.0006	30.00	0.0039	0.0003633
Tl	205	3	He	-0.004	0.0013	240.01	0.0189	0.001334
Tl	205	3	He	0.01	0.0015	290.01	0.0189	0.001334
Tl	205	3	He	-0.015	0.001	200.01	0.0189	0.001334
Pb	208	3	He	-0.001	0.0015	190.01	0.0252	0.001497
Pb	208	3	He	0.005	0.0016	160.01	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	80.00	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
Sc	45	1	No Gas			1600607.16		
Sc	45	1	No Gas			1628836.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1597166.85		
Ge	72	1	No Gas			816950.77		
Ge	72	1	No Gas			807669.05		
Ge	72	1	No Gas			801493.35		
Sc	45	2	H2			129054.27		
Sc	45	2	H2			130767.36		
Sc	45	2	H2			131058.19		
Ge	72	2	H2			95845.15		
Ge	72	2	H2			95171.26		
Ge	72	2	H2			99314.84		
In	115	2	H2			238368.73		
In	115	2	H2			243159.29		
In	115	2	H2			245628.36		
Sc	45	3	He			37733.82		
Sc	45	3	He			38716.47		
Sc	45	3	He			38906.75		
Ge	72	3	He			64840.71		
Ge	72	3	He			65855.46		
Ge	72	3	He			65292.64		
In	115	3	He			52318.62		
In	115	3	He			53853.91		
In	115	3	He			52428.49		
Tb	159	3	He			190934.33		
Tb	159	3	He			190841.52		
Tb	159	3	He			190610.27		
Bi	209	3	He			140097.03		
Bi	209	3	He			140632.32		
Bi	209	3	He			138037.20		

Quantitation Report

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Sample Name	410-229895-G-6-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

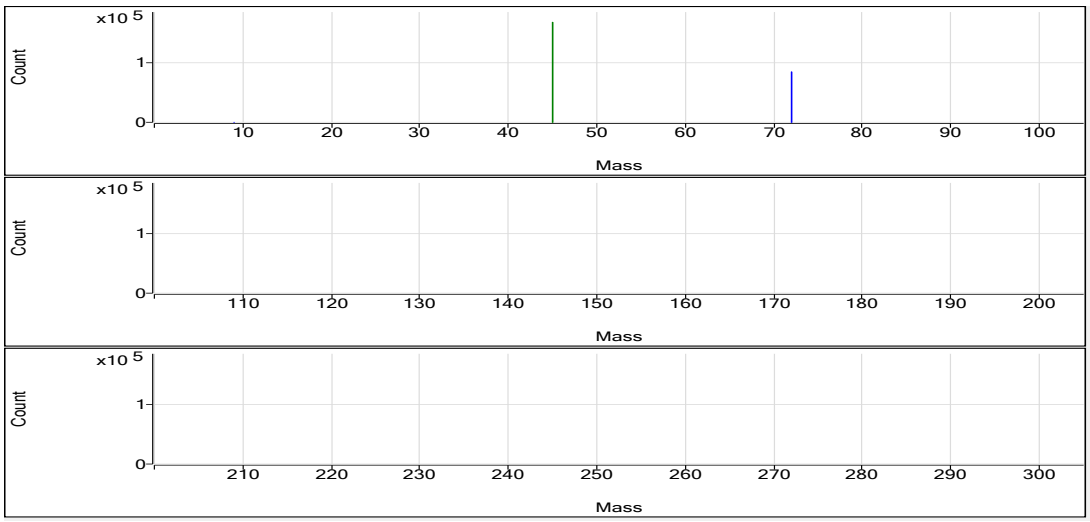
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.007	ppb	N/A	40.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.051	ppb	23.1	8.22	0.0001	Pulse	1.5000	3
Na	23	45	He	2867.037	ppb	3.1	306767.10	7.8969	Pulse	0.1000	3
Mg	24	45	He	21570.961	ppb	2.8	1015673.79	26.1459	Pulse	0.1000	3
Al	27	45	He	74.308	ppb	5.4	1296.77	0.0334	Pulse	0.1000	3
K	39	45	He	4568.398	ppb	1.2	196882.18	5.0669	Pulse	0.5000	3
Ca	44	45	He	46726.462	ppb	2.5	95724.85	2.4641	Pulse	0.5000	3
Ti	47	45	He	1.914	ppb	29.8	48.00	0.0012	Pulse	0.5000	3
V	51	45	He	0.577	ppb	15.3	1407.40	0.0362	Pulse	0.5000	3
Cr	52	45	He	2.777	ppb	9.9	4307.37	0.1109	Pulse	0.1000	3
Mn	55	45	He	964.909	ppb	2.3	342083.91	8.8054	Pulse	0.5000	3
Fe	57	45	He	963.344	ppb	6.5	15264.25	0.3932	Pulse	0.1000	3
Co	59	45	He	1.346	ppb	7.2	2391.52	0.0616	Pulse	0.5000	3
Ni	60	45	He	2.229	ppb	3.1	1473.41	0.0379	Pulse	0.5000	3
Cu	63	72	He	1.602	ppb	5.7	3067.64	0.0458	Pulse	0.5000	3
Zn	66	72	He	10.345	ppb	4.7	1764.10	0.0263	Pulse	0.5000	3
As	75	72	He	1.035	ppb	20.0	212.67	0.0032	Pulse	0.5000	3
Sr	88	115	He	191.350	ppb	1.0	84082.28	1.5733	Pulse	0.1000	3
Mo	98	115	He	0.109	ppb	41.6	183.34	0.0034	Pulse	0.1000	3
Ag	107	115	He	0.887	ppb	8.2	1813.50	0.0339	Pulse	0.1000	3
Cd	111	115	He	0.128	ppb	38.7	30.67	0.0006	Pulse	0.5000	3
Sn	120	115	He	0.448	ppb	51.8	886.73	0.0166	Pulse	0.1000	3
Sb	121	115	He	0.321	ppb	5.8	225.56	0.0042	Pulse	0.3000	3
Ba	137	115	He	125.733	ppb	3.2	26233.17	0.4909	Pulse	0.1000	3
Tl	205	159	He	-0.009	ppb	N/A	226.68	0.0012	Pulse	0.1000	3
Pb	208	159	He	0.397	ppb	8.7	2220.14	0.0115	Pulse	0.1000	3
U	238	159	He	0.080	ppb	10.9	400.02	0.0021	Pulse	0.1000	3

ISTD Table:

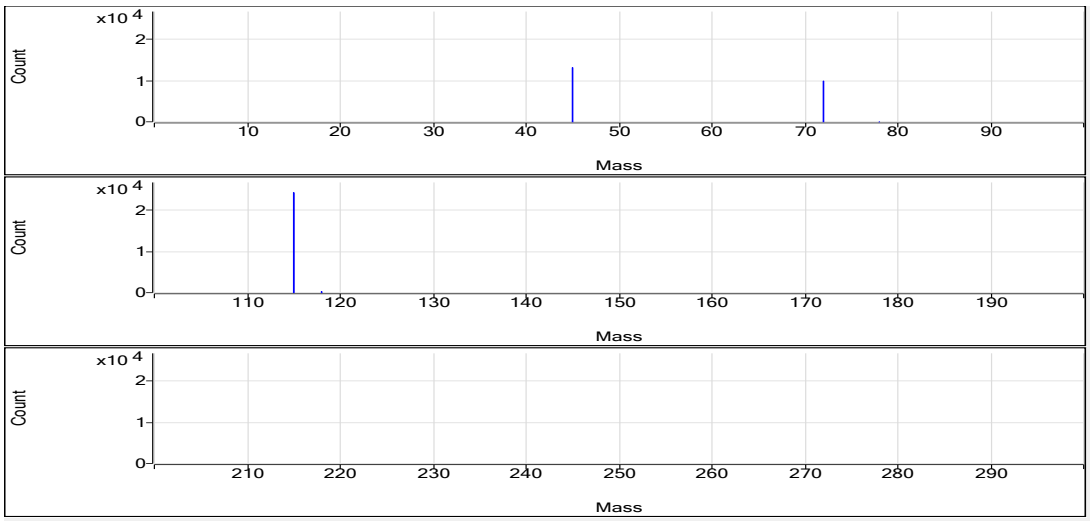
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1672620.44	0.7	97.9	Analog	0.1000	3
No Gas	Ge	72	843768.58	1.0	97.7	Pulse	0.1000	3
H2	Sc	45	132115.41	0.9	98.9	Pulse	0.1000	3
H2	Ge	72	99536.71	1.1	100.5	Pulse	0.1000	3
H2	In	115	243805.93	0.4	95.0	Pulse	0.1000	3
He	Sc	45	38863.34	2.4	98.5	Pulse	0.1000	3
He	Ge	72	67060.39	2.1	98.5	Pulse	0.1000	3
He	In	115	53442.87	0.6	96.5	Pulse	0.1000	3
He	Tb	159	193451.75	0.4	94.5	Pulse	0.1000	3
He	Bi	209	143183.37	0.7	94.7	Pulse	0.1000	3

No Gas

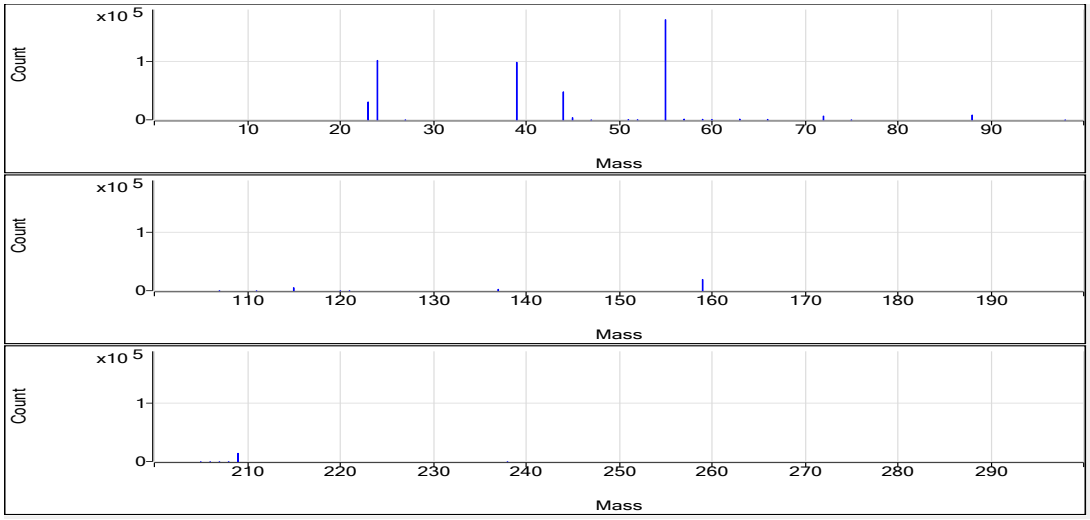


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.007	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.006	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.021	0	32.00	0.0003	2.616E-05
Se	78	2	H2	0.042	0.0001	8.00	0.0004	6.3E-05
Se	78	2	H2	0.064	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	0.046	0.0001	8.00	0.0004	6.3E-05
Na	23	3	He	2769.87	7.6547	305263.32	0.0025	0.7502
Na	23	3	He	2891.499	7.9579	307303.86	0.0025	0.7502
Na	23	3	He	2939.743	8.0782	307734.12	0.0025	0.7502
Mg	24	3	He	20907.886	25.343	1010658.50	0.0012	0.02618
Mg	24	3	He	21731.009	26.3397	1017140.53	0.0012	0.02618
Mg	24	3	He	22073.988	26.755	1019222.33	0.0012	0.02618
Al	27	3	He	78.304	0.0349	1390.11	0.0004	0.005329
Al	27	3	He	70.339	0.0319	1230.10	0.0004	0.005329
Al	27	3	He	74.28	0.0333	1270.09	0.0004	0.005329
K	39	3	He	4507.292	5.0062	199642.63	0.001	0.5307
K	39	3	He	4586.147	5.0845	196343.73	0.001	0.5307
K	39	3	He	4611.754	5.1099	194660.20	0.001	0.5307
Ca	44	3	He	45384.956	2.3935	95450.09	0.0001	0.004441
Ca	44	3	He	47137.097	2.4857	95988.91	0.0001	0.004441
Ca	44	3	He	47657.334	2.5131	95735.56	0.0001	0.004441
Ti	47	3	He	1.338	0.001	40.00	0.0004	0.0004559
Ti	47	3	He	1.925	0.0012	48.00	0.0004	0.0004559
Ti	47	3	He	2.48	0.0015	56.00	0.0004	0.0004559
V	51	3	He	0.484	0.0346	1380.07	0.0176	0.02609
V	51	3	He	0.587	0.0364	1406.07	0.0176	0.02609
V	51	3	He	0.66	0.0377	1436.07	0.0176	0.02609
Cr	52	3	He	2.473	0.1043	4160.70	0.0217	0.05061
Cr	52	3	He	2.845	0.1124	4340.69	0.0217	0.05061
Cr	52	3	He	3.012	0.116	4420.72	0.0217	0.05061
Mn	55	3	He	939.857	8.5771	342046.78	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	972.401	8.8737	342669.13	0.0091	0.01071
Mn	55	3	He	982.468	8.9655	341535.84	0.0091	0.01071
Fe	57	3	He	899.829	0.3678	14667.07	0.0004	0.008452
Fe	57	3	He	965.642	0.3941	15217.46	0.0004	0.008452
Fe	57	3	He	1024.56	0.4176	15908.21	0.0004	0.008452
Co	59	3	He	1.234	0.057	2272.17	0.0413	0.006013
Co	59	3	He	1.397	0.0637	2460.20	0.0413	0.006013
Co	59	3	He	1.407	0.0641	2442.20	0.0413	0.006013
Ni	60	3	He	2.286	0.0386	1538.08	0.0117	0.01172
Ni	60	3	He	2.248	0.0381	1472.08	0.0117	0.01172
Ni	60	3	He	2.154	0.037	1410.07	0.0117	0.01172
Cu	63	3	He	1.679	0.0473	3120.32	0.0196	0.01443
Cu	63	3	He	1.502	0.0438	3010.29	0.0196	0.01443
Cu	63	3	He	1.624	0.0462	3072.30	0.0196	0.01443
Zn	66	3	He	10.353	0.0263	1738.10	0.0023	0.002807
Zn	66	3	He	9.859	0.0252	1732.10	0.0023	0.002807
Zn	66	3	He	10.823	0.0274	1822.11	0.0023	0.002807
As	75	3	He	1.269	0.0036	238.00	0.0018	0.001271
As	75	3	He	0.875	0.0029	198.00	0.0018	0.001271
As	75	3	He	0.96	0.003	202.00	0.0018	0.001271
Sr	88	3	He	191.277	1.5727	83438.89	0.0082	0.00114
Sr	88	3	He	193.379	1.59	85248.71	0.0082	0.00114
Sr	88	3	He	189.395	1.5572	83559.25	0.0082	0.00114
Mo	98	3	He	0.16	0.0043	230.01	0.0177	0.001504
Mo	98	3	He	0.094	0.0032	170.01	0.0177	0.001504
Mo	98	3	He	0.073	0.0028	150.00	0.0177	0.001504
Ag	107	3	He	0.907	0.0347	1840.18	0.0368	0.001325
Ag	107	3	He	0.806	0.031	1660.13	0.0368	0.001325
Ag	107	3	He	0.947	0.0362	1940.18	0.0368	0.001325
Cd	111	3	He	0.071	0.0003	18.00	0.0041	4.798E-05
Cd	111	3	He	0.152	0.0007	36.00	0.0041	4.798E-05
Cd	111	3	He	0.161	0.0007	38.00	0.0041	4.798E-05
Sn	120	3	He	0.567	0.0181	960.07	0.0126	0.01097
Sn	120	3	He	0.596	0.0185	990.07	0.0126	0.01097
Sn	120	3	He	0.18	0.0132	710.04	0.0126	0.01097
Sb	121	3	He	0.325	0.0043	226.67	0.012	0.0003595
Sb	121	3	He	0.337	0.0044	236.67	0.012	0.0003595
Sb	121	3	He	0.3	0.004	213.34	0.012	0.0003595
Ba	137	3	He	129.642	0.5062	26854.67	0.0039	0.0003633
Ba	137	3	He	126.029	0.4921	26383.23	0.0039	0.0003633
Ba	137	3	He	121.528	0.4745	25461.62	0.0039	0.0003633
Tl	205	3	He	-0.011	0.0011	220.01	0.0189	0.001334
Tl	205	3	He	-0.005	0.0012	240.01	0.0189	0.001334
Tl	205	3	He	-0.01	0.0011	220.01	0.0189	0.001334
Pb	208	3	He	0.362	0.0106	1120.08	0.0252	0.001497
Pb	208	3	He	0.431	0.0123	1180.08	0.0252	0.001497
Pb	208	3	He	0.397	0.0115	1270.09	0.0252	0.001497
U	238	3	He	0.079	0.0021	400.03	0.0245	0.0001141
U	238	3	He	0.071	0.0019	360.02	0.0245	0.0001141
U	238	3	He	0.088	0.0023	440.02	0.0245	0.0001141
Sc	45	1	No Gas			1685413.57		
Sc	45	1	No Gas			1663930.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1668517.16		
Ge	72	1	No Gas			836208.89		
Ge	72	1	No Gas			842434.91		
Ge	72	1	No Gas			852661.94		
Sc	45	2	H2			131443.30		
Sc	45	2	H2			131433.73		
Sc	45	2	H2			133469.19		
Ge	72	2	H2			100845.22		
Ge	72	2	H2			98741.75		
Ge	72	2	H2			99023.16		
In	115	2	H2			244155.39		
In	115	2	H2			242813.30		
In	115	2	H2			244449.10		
Sc	45	3	He			39879.17		
Sc	45	3	He			38616.23		
Sc	45	3	He			38094.62		
Ge	72	3	He			65995.61		
Ge	72	3	He			68697.62		
Ge	72	3	He			66487.93		
In	115	3	He			53060.97		
In	115	3	He			53623.02		
In	115	3	He			53663.23		
Tb	159	3	He			194216.81		
Tb	159	3	He			193614.61		
Tb	159	3	He			192523.83		
Bi	209	3	He			142579.73		
Bi	209	3	He			144319.19		
Bi	209	3	He			142651.18		

Quantitation Report

Data File Name	216SMPL.d
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Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

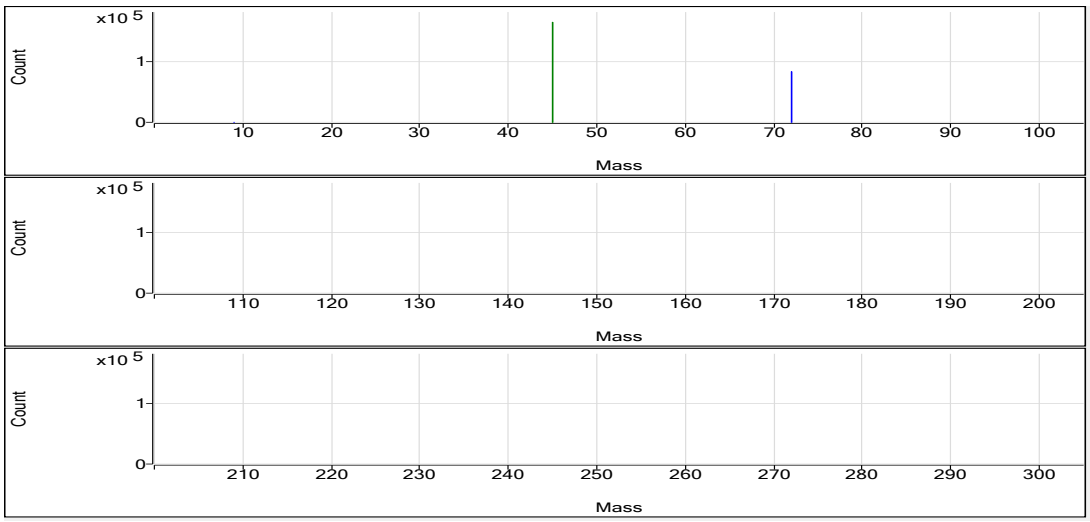
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.267	ppb	23.9	192.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	-0.065	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	5906.942	ppb	0.6	602622.37	15.4746	Pulse	0.1000	3
Mg	24	45	He	4877.413	ppb	1.8	230998.73	5.9321	Pulse	0.1000	3
Al	27	45	He	18.788	ppb	7.0	483.36	0.0124	Pulse	0.1000	3
K	39	45	He	3942.359	ppb	1.7	173121.47	4.4452	Pulse	0.5000	3
Ca	44	45	He	8531.185	ppb	1.6	17660.18	0.4535	Pulse	0.5000	3
Ti	47	45	He	-0.528	ppb	N/A	9.33	0.0002	Pulse	0.5000	3
V	51	45	He	-0.156	ppb	N/A	909.36	0.0234	Pulse	0.5000	3
Cr	52	45	He	-0.706	ppb	N/A	1373.44	0.0353	Pulse	0.1000	3
Mn	55	45	He	334.506	ppb	0.4	119149.79	3.0596	Pulse	0.5000	3
Fe	57	45	He	257.525	ppb	3.7	4334.05	0.1113	Pulse	0.1000	3
Co	59	45	He	0.598	ppb	1.8	1195.38	0.0307	Pulse	0.5000	3
Ni	60	45	He	3.215	ppb	3.6	1926.79	0.0495	Pulse	0.5000	3
Cu	63	72	He	15.661	ppb	0.7	21912.14	0.3208	Pulse	0.5000	3
Zn	66	72	He	33.695	ppb	2.1	5422.27	0.0794	Pulse	0.5000	3
As	75	72	He	0.832	ppb	19.3	191.33	0.0028	Pulse	0.5000	3
Sr	88	115	He	35.162	ppb	3.8	15521.31	0.2900	Pulse	0.1000	3
Mo	98	115	He	0.000	ppb	N/A	80.00	0.0015	Pulse	0.1000	3
Ag	107	115	He	0.094	ppb	28.4	256.68	0.0048	Pulse	0.1000	3
Cd	111	115	He	0.252	ppb	11.5	58.00	0.0011	Pulse	0.5000	3
Sn	120	115	He	0.128	ppb	46.3	673.37	0.0126	Pulse	0.1000	3
Sb	121	115	He	0.115	ppb	21.8	93.33	0.0017	Pulse	0.3000	3
Ba	137	115	He	124.256	ppb	2.5	25966.05	0.4852	Pulse	0.1000	3
Tl	205	159	He	0.000	ppb	N/A	260.01	0.0013	Pulse	0.1000	3
Pb	208	159	He	0.606	ppb	2.9	3263.60	0.0168	Pulse	0.1000	3
U	238	159	He	0.004	ppb	99.2	43.33	0.0002	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1655828.99	0.5	96.9	Analog	0.1000	3
No Gas	Ge	72	838821.55	0.5	97.1	Pulse	0.1000	3
H2	Sc	45	132797.10	0.2	99.4	Pulse	0.1000	3
H2	Ge	72	100342.04	1.0	101.3	Pulse	0.1000	3
H2	In	115	246729.17	1.3	96.1	Pulse	0.1000	3
He	Sc	45	38943.80	0.8	98.7	Pulse	0.1000	3
He	Ge	72	68308.47	0.9	100.3	Pulse	0.1000	3
He	In	115	53534.50	1.6	96.6	Pulse	0.1000	3
He	Tb	159	194811.73	1.3	95.1	Pulse	0.1000	3
He	Bi	209	144994.69	0.6	95.9	Pulse	0.1000	3

No Gas



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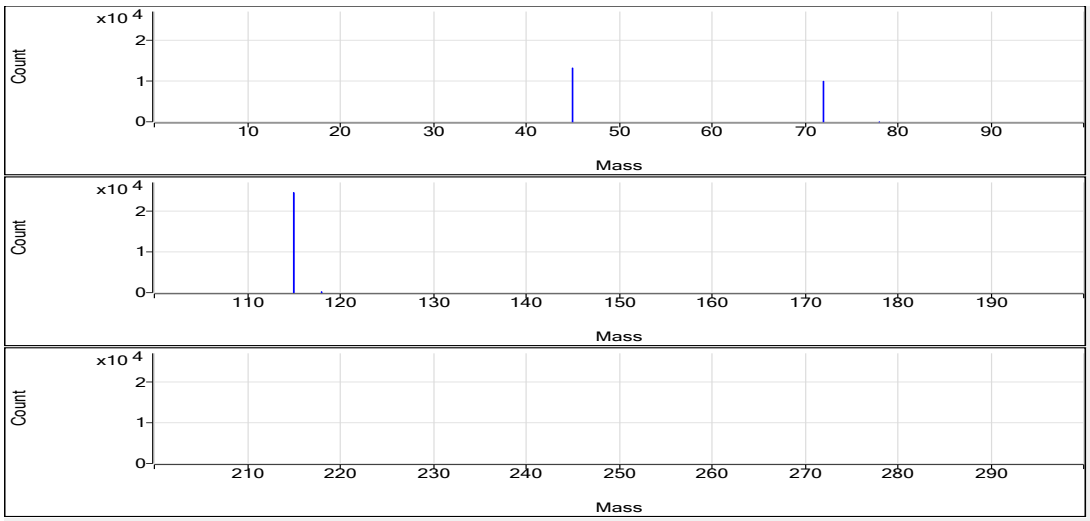
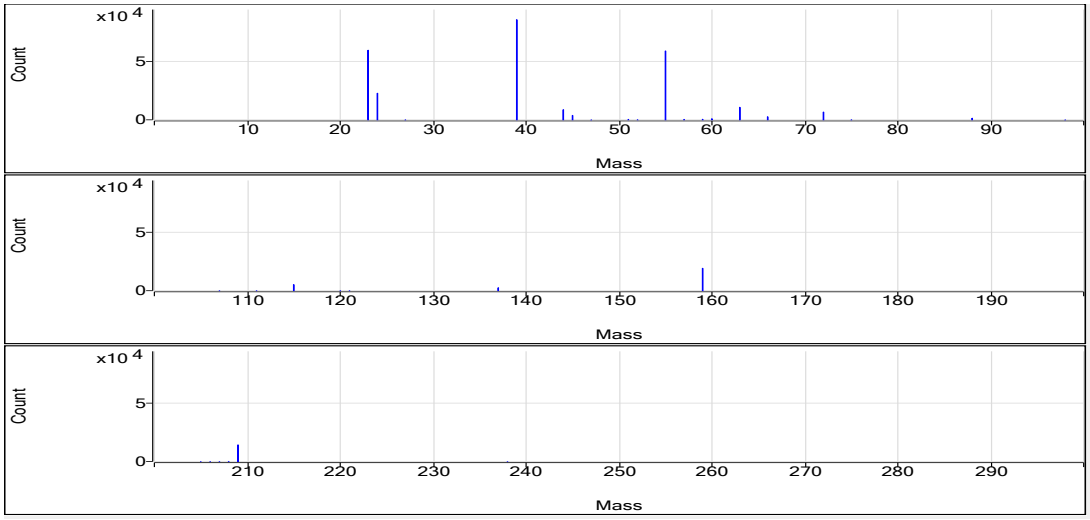


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.34	0.0001	232.00	0.0003	2.616E-05
Be	9	1	No Gas	0.222	0.0001	168.00	0.0003	2.616E-05
Be	9	1	No Gas	0.239	0.0001	176.00	0.0003	2.616E-05
Se	78	2	H2	-0.077	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.043	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.076	0	3.33	0.0004	6.3E-05
Na	23	3	He	5883.255	15.4155	605644.76	0.0025	0.7502
Na	23	3	He	5893.498	15.441	600764.13	0.0025	0.7502
Na	23	3	He	5944.072	15.5671	601458.23	0.0025	0.7502
Mg	24	3	He	4816.566	5.8584	230166.44	0.0012	0.02618
Mg	24	3	He	4835.77	5.8817	228838.82	0.0012	0.02618
Mg	24	3	He	4979.902	6.0562	233990.93	0.0012	0.02618
Al	27	3	He	17.592	0.012	470.02	0.0004	0.005329
Al	27	3	He	18.585	0.0123	480.02	0.0004	0.005329
Al	27	3	He	20.187	0.0129	500.03	0.0004	0.005329
K	39	3	He	4004.311	4.5068	177061.27	0.001	0.5307
K	39	3	He	3872.124	4.3755	170237.20	0.001	0.5307
K	39	3	He	3950.642	4.4535	172065.95	0.001	0.5307
Ca	44	3	He	8388.807	0.446	17523.37	0.0001	0.004441
Ca	44	3	He	8548.04	0.4544	17679.53	0.0001	0.004441
Ca	44	3	He	8656.709	0.4601	17777.63	0.0001	0.004441
Ti	47	3	He	-0.617	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.738	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.229	0.0004	14.00	0.0004	0.0004559
V	51	3	He	-0.193	0.0227	892.03	0.0176	0.02609
V	51	3	He	-0.201	0.0226	878.03	0.0176	0.02609
V	51	3	He	-0.074	0.0248	958.03	0.0176	0.02609
Cr	52	3	He	-0.736	0.0346	1360.10	0.0217	0.05061
Cr	52	3	He	-0.602	0.0375	1460.12	0.0217	0.05061
Cr	52	3	He	-0.781	0.0336	1300.11	0.0217	0.05061
Mn	55	3	He	333.731	3.0525	119927.23	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	333.91	3.0541	118827.49	0.0091	0.01071
Mn	55	3	He	335.878	3.0721	118694.65	0.0091	0.01071
Fe	57	3	He	261.244	0.1128	4430.77	0.0004	0.008452
Fe	57	3	He	246.624	0.1069	4160.65	0.0004	0.008452
Fe	57	3	He	264.707	0.1142	4410.73	0.0004	0.008452
Co	59	3	He	0.604	0.031	1216.05	0.0413	0.006013
Co	59	3	He	0.585	0.0302	1174.05	0.0413	0.006013
Co	59	3	He	0.604	0.031	1196.05	0.0413	0.006013
Ni	60	3	He	3.211	0.0494	1942.13	0.0117	0.01172
Ni	60	3	He	3.331	0.0508	1978.13	0.0117	0.01172
Ni	60	3	He	3.102	0.0481	1860.12	0.0117	0.01172
Cu	63	3	He	15.759	0.3227	21968.88	0.0196	0.01443
Cu	63	3	He	15.553	0.3187	21984.92	0.0196	0.01443
Cu	63	3	He	15.67	0.321	21782.61	0.0196	0.01443
Zn	66	3	He	34.411	0.081	5514.96	0.0023	0.002807
Zn	66	3	He	32.994	0.0778	5366.92	0.0023	0.002807
Zn	66	3	He	33.678	0.0793	5384.92	0.0023	0.002807
As	75	3	He	0.906	0.0029	200.00	0.0018	0.001271
As	75	3	He	0.648	0.0025	170.00	0.0018	0.001271
As	75	3	He	0.943	0.003	204.00	0.0018	0.001271
Sr	88	3	He	33.711	0.2781	15087.60	0.0082	0.00114
Sr	88	3	He	35.431	0.2922	15708.11	0.0082	0.00114
Sr	88	3	He	36.344	0.2997	15768.21	0.0082	0.00114
Mo	98	3	He	-0.022	0.0011	60.00	0.0177	0.001504
Mo	98	3	He	-0.001	0.0015	80.00	0.0177	0.001504
Mo	98	3	He	0.022	0.0019	100.00	0.0177	0.001504
Ag	107	3	He	0.094	0.0048	260.01	0.0368	0.001325
Ag	107	3	He	0.121	0.0058	310.01	0.0368	0.001325
Ag	107	3	He	0.067	0.0038	200.01	0.0368	0.001325
Cd	111	3	He	0.285	0.0012	66.00	0.0041	4.798E-05
Cd	111	3	He	0.242	0.001	56.00	0.0041	4.798E-05
Cd	111	3	He	0.229	0.001	52.00	0.0041	4.798E-05
Sn	120	3	He	0.169	0.0131	710.04	0.0126	0.01097
Sn	120	3	He	0.06	0.0117	630.03	0.0126	0.01097
Sn	120	3	He	0.156	0.0129	680.03	0.0126	0.01097
Sb	121	3	He	0.144	0.0021	113.33	0.012	0.0003595
Sb	121	3	He	0.099	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.102	0.0016	83.33	0.012	0.0003595
Ba	137	3	He	121.291	0.4736	25692.31	0.0039	0.0003633
Ba	137	3	He	123.95	0.484	26012.67	0.0039	0.0003633
Ba	137	3	He	127.528	0.4979	26193.18	0.0039	0.0003633
Tl	205	3	He	-0.002	0.0013	250.01	0.0189	0.001334
Tl	205	3	He	0.023	0.0018	350.02	0.0189	0.001334
Tl	205	3	He	-0.022	0.0009	180.01	0.0189	0.001334
Pb	208	3	He	0.621	0.0171	1820.19	0.0252	0.001497
Pb	208	3	He	0.612	0.0169	1730.15	0.0252	0.001497
Pb	208	3	He	0.587	0.0163	1760.17	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	-0.001	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
Sc	45	1	No Gas			1650501.69		
Sc	45	1	No Gas			1664923.26		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1652062.01		
Ge	72	1	No Gas			834330.53		
Ge	72	1	No Gas			841197.88		
Ge	72	1	No Gas			840936.24		
Sc	45	2	H2			132984.69		
Sc	45	2	H2			132511.51		
Sc	45	2	H2			132895.11		
Ge	72	2	H2			101016.76		
Ge	72	2	H2			100824.60		
Ge	72	2	H2			99184.75		
In	115	2	H2			250474.04		
In	115	2	H2			244785.50		
In	115	2	H2			244927.97		
Sc	45	3	He			39288.00		
Sc	45	3	He			38906.95		
Sc	45	3	He			38636.46		
Ge	72	3	He			68073.91		
Ge	72	3	He			68988.35		
Ge	72	3	He			67863.15		
In	115	3	He			54254.73		
In	115	3	He			53753.59		
In	115	3	He			52609.33		
Tb	159	3	He			192278.67		
Tb	159	3	He			197272.83		
Tb	159	3	He			194883.69		
Bi	209	3	He			146044.52		
Bi	209	3	He			144631.93		
Bi	209	3	He			144307.63		

Quantitation Report

Data File Name	217SMPL.d
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Sample Name	410-229895-J-1-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

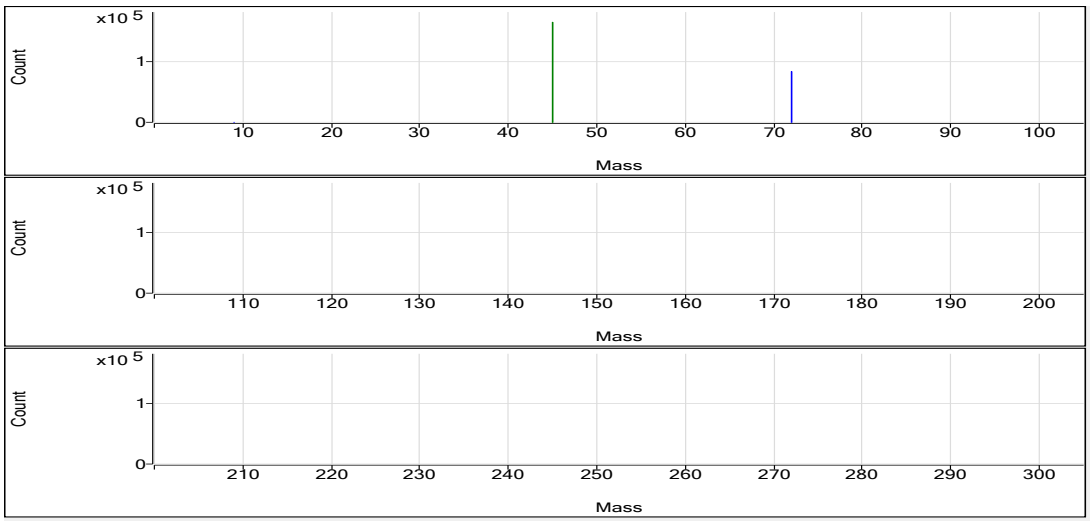
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.020	ppb	N/A	32.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.041	ppb	N/A	4.67	0.0000	Pulse	1.5000	3
Na	23	45	He	5642.458	ppb	1.9	574010.04	14.8153	Pulse	0.1000	3
Mg	24	45	He	33006.958	ppb	1.1	1549575.65	39.9935	Analog	0.1000	3
Al	27	45	He	-4.318	ppb	N/A	143.34	0.0037	Pulse	0.1000	3
K	39	45	He	3956.237	ppb	0.8	172772.35	4.4590	Pulse	0.5000	3
Ca	44	45	He	101442.247	ppb	1.4	207065.49	5.3443	Pulse	0.5000	3
Ti	47	45	He	-0.863	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	-0.170	ppb	N/A	895.36	0.0231	Pulse	0.5000	3
Cr	52	45	He	-0.511	ppb	N/A	1530.12	0.0395	Pulse	0.1000	3
Mn	55	45	He	99.131	ppb	1.0	35422.92	0.9142	Pulse	0.5000	3
Fe	57	45	He	28.621	ppb	41.7	770.05	0.0199	Pulse	0.1000	3
Co	59	45	He	0.477	ppb	0.8	996.71	0.0257	Pulse	0.5000	3
Ni	60	45	He	3.851	ppb	4.2	2206.17	0.0569	Pulse	0.5000	3
Cu	63	72	He	-0.359	ppb	N/A	496.68	0.0074	Pulse	0.5000	3
Zn	66	72	He	1.114	ppb	17.7	358.01	0.0053	Pulse	0.5000	3
As	75	72	He	0.940	ppb	17.8	201.33	0.0030	Pulse	0.5000	3
Sr	88	115	He	52.669	ppb	0.8	22907.09	0.4339	Pulse	0.1000	3
Mo	98	115	He	0.015	ppb	174.4	93.34	0.0018	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.050	ppb	51.7	13.33	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.197	ppb	80.3	710.04	0.0134	Pulse	0.1000	3
Sb	121	115	He	0.023	ppb	107.1	33.34	0.0006	Pulse	0.3000	3
Ba	137	115	He	202.749	ppb	1.3	41777.71	0.7914	Pulse	0.1000	3
Tl	205	159	He	-0.035	ppb	N/A	130.01	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.010	ppb	N/A	240.01	0.0012	Pulse	0.1000	3
U	238	159	He	0.204	ppb	13.1	983.39	0.0051	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1652424.25	1.4	96.7	Analog	0.1000	3
No Gas	Ge	72	839237.98	0.4	97.1	Pulse	0.1000	3
H2	Sc	45	133417.94	1.0	99.9	Pulse	0.1000	3
H2	Ge	72	99084.04	1.3	100.0	Pulse	0.1000	3
H2	In	115	243897.88	0.6	95.0	Pulse	0.1000	3
He	Sc	45	38746.34	0.6	98.2	Pulse	0.1000	3
He	Ge	72	67056.71	1.4	98.5	Pulse	0.1000	3
He	In	115	52791.87	1.4	95.3	Pulse	0.1000	3
He	Tb	159	192406.27	0.3	94.0	Pulse	0.1000	3
He	Bi	209	141197.98	0.8	93.3	Pulse	0.1000	3

No Gas



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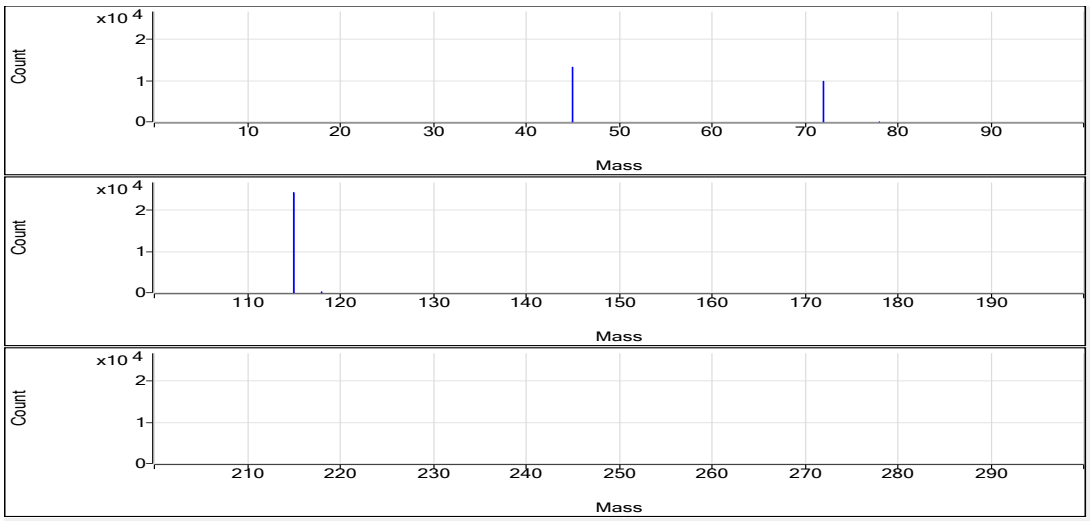
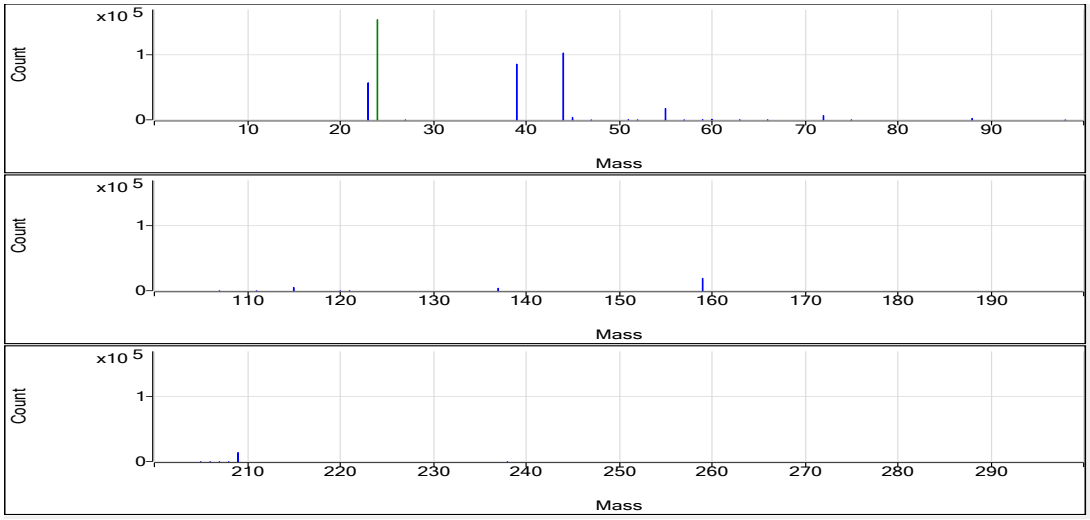


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.024	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.007	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.077	0	3.33	0.0004	6.3E-05
Se	78	2	H2	0.048	0.0001	8.00	0.0004	6.3E-05
Na	23	3	He	5517.919	14.5048	564483.47	0.0025	0.7502
Na	23	3	He	5708.982	14.9811	576857.96	0.0025	0.7502
Na	23	3	He	5700.472	14.9599	580688.70	0.0025	0.7502
Mg	24	3	He	33174.189	40.196	1564303.57	0.0012	0.02618
Mg	24	3	He	33261.861	40.3021	1551862.32	0.0012	0.02618
Mg	24	3	He	32584.824	39.4823	1532561.07	0.0012	0.02618
Al	27	3	He	-5.956	0.0031	120.00	0.0004	0.005329
Al	27	3	He	-3.113	0.0042	160.01	0.0004	0.005329
Al	27	3	He	-3.884	0.0039	150.01	0.0004	0.005329
K	39	3	He	3990.91	4.4934	174871.05	0.001	0.5307
K	39	3	He	3950.054	4.4529	171461.19	0.001	0.5307
K	39	3	He	3927.747	4.4307	171984.80	0.001	0.5307
Ca	44	3	He	99762.027	5.2559	204542.05	0.0001	0.004441
Ca	44	3	He	102174.258	5.3828	207270.19	0.0001	0.004441
Ca	44	3	He	102390.456	5.3942	209384.23	0.0001	0.004441
Ti	47	3	He	-0.738	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.988	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.863	0.0001	4.00	0.0004	0.0004559
V	51	3	He	-0.163	0.0232	904.03	0.0176	0.02609
V	51	3	He	-0.161	0.0233	896.03	0.0176	0.02609
V	51	3	He	-0.186	0.0228	886.03	0.0176	0.02609
Cr	52	3	He	-0.65	0.0365	1420.10	0.0217	0.05061
Cr	52	3	He	-0.297	0.0442	1700.14	0.0217	0.05061
Cr	52	3	He	-0.586	0.0379	1470.11	0.0217	0.05061
Mn	55	3	He	97.993	0.9039	35175.75	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	99.457	0.9172	35317.99	0.0091	0.01071
Mn	55	3	He	99.943	0.9216	35775.03	0.0091	0.01071
Fe	57	3	He	15.513	0.0146	570.03	0.0004	0.008452
Fe	57	3	He	31.514	0.021	810.05	0.0004	0.008452
Fe	57	3	He	38.835	0.024	930.06	0.0004	0.008452
Co	59	3	He	0.473	0.0255	994.04	0.0413	0.006013
Co	59	3	He	0.478	0.0258	992.04	0.0413	0.006013
Co	59	3	He	0.481	0.0259	1004.04	0.0413	0.006013
Ni	60	3	He	3.873	0.0572	2226.17	0.0117	0.01172
Ni	60	3	He	4	0.0587	2260.17	0.0117	0.01172
Ni	60	3	He	3.679	0.0549	2132.16	0.0117	0.01172
Cu	63	3	He	-0.379	0.007	478.01	0.0196	0.01443
Cu	63	3	He	-0.319	0.0082	546.01	0.0196	0.01443
Cu	63	3	He	-0.379	0.007	466.01	0.0196	0.01443
Zn	66	3	He	1.192	0.0055	376.01	0.0023	0.002807
Zn	66	3	He	0.889	0.0048	322.01	0.0023	0.002807
Zn	66	3	He	1.26	0.0057	376.01	0.0023	0.002807
As	75	3	He	0.999	0.0031	212.00	0.0018	0.001271
As	75	3	He	1.069	0.0032	216.00	0.0018	0.001271
As	75	3	He	0.751	0.0027	176.00	0.0018	0.001271
Sr	88	3	He	52.474	0.4323	22596.56	0.0082	0.00114
Sr	88	3	He	53.143	0.4378	23468.04	0.0082	0.00114
Sr	88	3	He	52.391	0.4316	22656.68	0.0082	0.00114
Mo	98	3	He	0.012	0.0017	90.00	0.0177	0.001504
Mo	98	3	He	0.041	0.0022	120.01	0.0177	0.001504
Mo	98	3	He	-0.01	0.0013	70.00	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.079	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.33	0.0151	790.04	0.0126	0.01097
Sn	120	3	He	0.24	0.014	750.05	0.0126	0.01097
Sn	120	3	He	0.022	0.0112	590.03	0.0126	0.01097
Sb	121	3	He	0.044	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.027	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	-0.003	0.0003	16.67	0.012	0.0003595
Ba	137	3	He	205.784	0.8032	41988.07	0.0039	0.0003633
Ba	137	3	He	201.859	0.7879	42239.18	0.0039	0.0003633
Ba	137	3	He	200.604	0.783	41105.89	0.0039	0.0003633
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.035	0.0007	130.01	0.0189	0.001334
Pb	208	3	He	-0.022	0.0009	90.00	0.0252	0.001497
Pb	208	3	He	-0.01	0.0013	170.01	0.0252	0.001497
Pb	208	3	He	0.002	0.0016	170.01	0.0252	0.001497
U	238	3	He	0.202	0.0051	980.06	0.0245	0.0001141
U	238	3	He	0.231	0.0058	1110.07	0.0245	0.0001141
U	238	3	He	0.177	0.0045	860.05	0.0245	0.0001141
Sc	45	1	No Gas			1628858.88		
Sc	45	1	No Gas			1652869.98		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1675543.88		
Ge	72	1	No Gas			840307.10		
Ge	72	1	No Gas			835821.00		
Ge	72	1	No Gas			841585.85		
Sc	45	2	H2			132299.05		
Sc	45	2	H2			133024.97		
Sc	45	2	H2			134929.79		
Ge	72	2	H2			98842.29		
Ge	72	2	H2			100462.65		
Ge	72	2	H2			97947.19		
In	115	2	H2			243190.17		
In	115	2	H2			242905.58		
In	115	2	H2			245597.89		
Sc	45	3	He			38916.92		
Sc	45	3	He			38505.71		
Sc	45	3	He			38816.38		
Ge	72	3	He			68154.92		
Ge	72	3	He			66698.64		
Ge	72	3	He			66316.57		
In	115	3	He			52278.40		
In	115	3	He			53612.57		
In	115	3	He			52499.55		
Tb	159	3	He			192950.23		
Tb	159	3	He			191925.78		
Tb	159	3	He			192342.79		
Bi	209	3	He			139895.76		
Bi	209	3	He			141753.49		
Bi	209	3	He			141944.69		

Quantitation Report

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Acq Time	7/10/2025 5:58:41 PM
Sample Name	410-229895-S-3-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

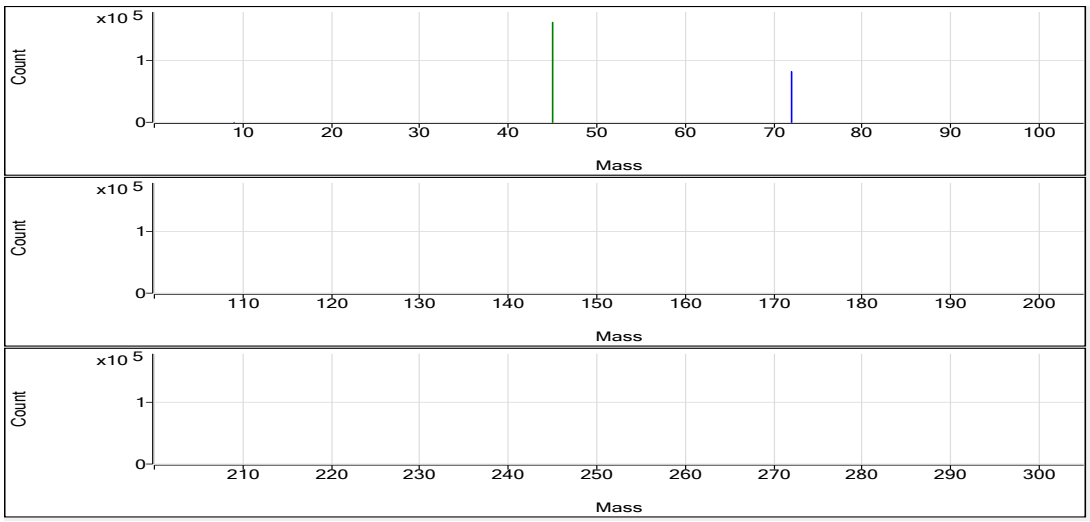
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.004	ppb	N/A	40.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.076	ppb	N/A	3.33	0.0000	Pulse	1.5000	3
Na	23	45	He	5666.301	ppb	1.7	582762.74	14.8747	Pulse	0.1000	3
Mg	24	45	He	47914.437	ppb	1.4	2274132.78	58.0446	Analog	0.1000	3
Al	27	45	He	0.068	ppb	2374.5	210.01	0.0054	Pulse	0.1000	3
K	39	45	He	3577.116	ppb	3.7	159923.90	4.0826	Pulse	0.5000	3
Ca	44	45	He	137449.266	ppb	1.2	283657.49	7.2397	Pulse	0.5000	3
Ti	47	45	He	-0.907	ppb	N/A	3.33	0.0001	Pulse	0.5000	3
V	51	45	He	-0.249	ppb	N/A	850.69	0.0217	Pulse	0.5000	3
Cr	52	45	He	-0.587	ppb	N/A	1483.45	0.0378	Pulse	0.1000	3
Mn	55	45	He	363.745	ppb	1.4	130312.67	3.3261	Pulse	0.5000	3
Fe	57	45	He	2402.329	ppb	0.4	37921.44	0.9678	Pulse	0.1000	3
Co	59	45	He	5.390	ppb	0.9	8955.84	0.2286	Pulse	0.5000	3
Ni	60	45	He	12.472	ppb	2.6	6197.88	0.1582	Pulse	0.5000	3
Cu	63	72	He	-0.189	ppb	N/A	731.35	0.0107	Pulse	0.5000	3
Zn	66	72	He	2.053	ppb	6.6	508.68	0.0075	Pulse	0.5000	3
As	75	72	He	3.938	ppb	6.5	580.02	0.0085	Pulse	0.5000	3
Sr	88	115	He	88.659	ppb	1.7	38921.99	0.7296	Pulse	0.1000	3
Mo	98	115	He	0.056	ppb	107.8	133.34	0.0025	Pulse	0.1000	3
Ag	107	115	He	0.044	ppb	18.1	156.68	0.0029	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	2672.9	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.261	ppb	31.9	760.05	0.0143	Pulse	0.1000	3
Sb	121	115	He	0.036	ppb	22.4	42.22	0.0008	Pulse	0.3000	3
Ba	137	115	He	647.515	ppb	0.8	134787.86	2.5267	Pulse	0.1000	3
Tl	205	159	He	-0.004	ppb	N/A	246.68	0.0013	Pulse	0.1000	3
Pb	208	159	He	0.048	ppb	46.7	533.35	0.0027	Pulse	0.1000	3
U	238	159	He	1.106	ppb	8.9	5367.84	0.0273	Pulse	0.1000	3

ISTD Table:

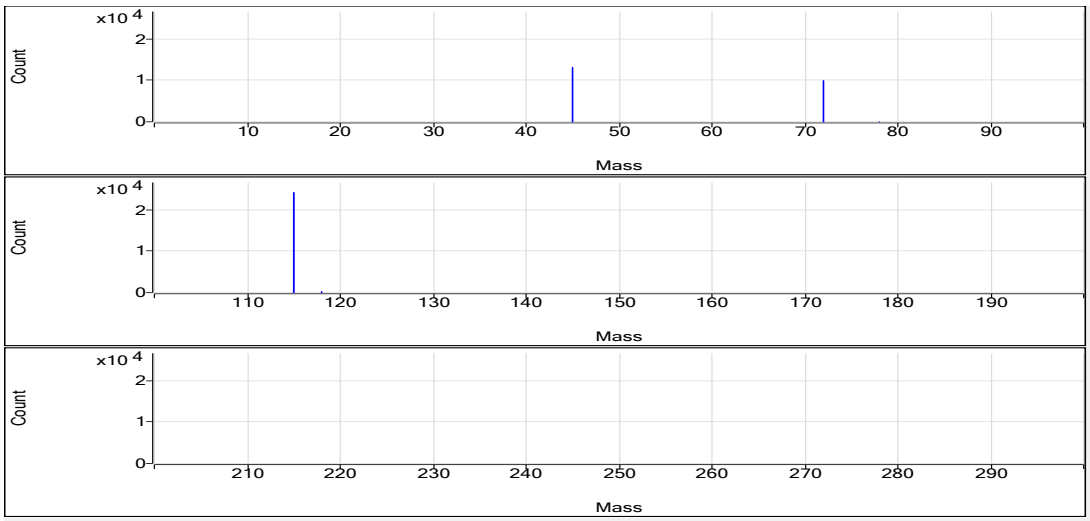
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1630142.84	1.6	95.4	Analog	0.1000	3
No Gas	Ge	72	826789.41	1.0	95.7	Pulse	0.1000	3
H2	Sc	45	131396.62	0.5	98.3	Pulse	0.1000	3
H2	Ge	72	99282.19	1.9	100.2	Pulse	0.1000	3
H2	In	115	241392.93	0.9	94.0	Pulse	0.1000	3
He	Sc	45	39184.21	1.4	99.3	Pulse	0.1000	3
He	Ge	72	68081.17	1.1	100.0	Pulse	0.1000	3
He	In	115	53346.58	0.5	96.3	Pulse	0.1000	3
He	Tb	159	196924.92	0.9	96.2	Pulse	0.1000	3
He	Bi	209	144032.61	1.2	95.2	Pulse	0.1000	3

No Gas

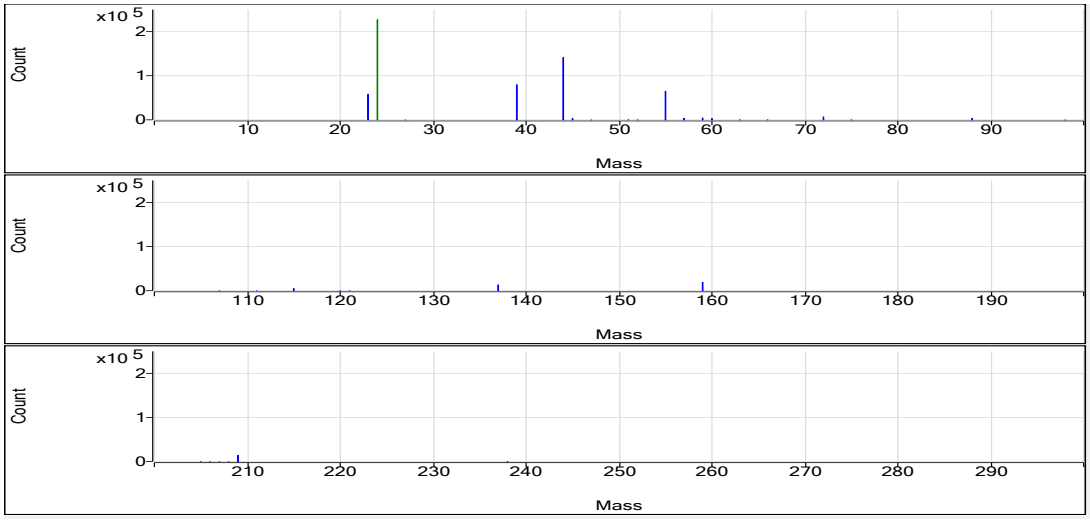


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.007	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	0.006	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.009	0	38.00	0.0003	2.616E-05
Se	78	2	H2	-0.075	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.044	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.11	0	2.00	0.0004	6.3E-05
Na	23	3	He	5778.324	15.154	584126.48	0.0025	0.7502
Na	23	3	He	5600.913	14.7117	582860.15	0.0025	0.7502
Na	23	3	He	5619.665	14.7585	581301.59	0.0025	0.7502
Mg	24	3	He	48660.093	58.9475	2272197.93	0.0012	0.02618
Mg	24	3	He	47438.04	57.4677	2276800.75	0.0012	0.02618
Mg	24	3	He	47645.177	57.7185	2273399.65	0.0012	0.02618
Al	27	3	He	-1.061	0.0049	190.01	0.0004	0.005329
Al	27	3	He	1.932	0.0061	240.01	0.0004	0.005329
Al	27	3	He	-0.666	0.0051	200.02	0.0004	0.005329
K	39	3	He	3728.866	4.2332	163175.42	0.001	0.5307
K	39	3	He	3498.959	4.005	158671.66	0.001	0.5307
K	39	3	He	3503.522	4.0095	157924.61	0.001	0.5307
Ca	44	3	He	138589.681	7.2997	281376.59	0.0001	0.004441
Ca	44	3	He	135563.608	7.1404	282895.59	0.0001	0.004441
Ca	44	3	He	138194.51	7.2789	286700.28	0.0001	0.004441
Ti	47	3	He	-0.861	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.744	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	-0.203	0.0225	868.03	0.0176	0.02609
V	51	3	He	-0.155	0.0234	926.03	0.0176	0.02609
V	51	3	He	-0.389	0.0192	758.02	0.0176	0.02609
Cr	52	3	He	-0.622	0.0371	1430.11	0.0217	0.05061
Cr	52	3	He	-0.505	0.0396	1570.13	0.0217	0.05061
Cr	52	3	He	-0.635	0.0368	1450.10	0.0217	0.05061
Mn	55	3	He	369.39	3.3775	130191.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	359.911	3.2911	130390.63	0.0091	0.01071
Mn	55	3	He	361.934	3.3096	130356.38	0.0091	0.01071
Fe	57	3	He	2405.492	0.9691	37353.33	0.0004	0.008452
Fe	57	3	He	2390.473	0.9631	38155.16	0.0004	0.008452
Fe	57	3	He	2411.023	0.9713	38255.83	0.0004	0.008452
Co	59	3	He	5.404	0.2291	8832.44	0.0413	0.006013
Co	59	3	He	5.336	0.2263	8966.52	0.0413	0.006013
Co	59	3	He	5.431	0.2302	9068.56	0.0413	0.006013
Ni	60	3	He	12.753	0.1615	6225.23	0.0117	0.01172
Ni	60	3	He	12.118	0.154	6103.17	0.0117	0.01172
Ni	60	3	He	12.546	0.1591	6265.23	0.0117	0.01172
Cu	63	3	He	-0.224	0.01	686.02	0.0196	0.01443
Cu	63	3	He	-0.18	0.0109	750.02	0.0196	0.01443
Cu	63	3	He	-0.161	0.0113	758.02	0.0196	0.01443
Zn	66	3	He	2.038	0.0074	508.01	0.0023	0.002807
Zn	66	3	He	1.927	0.0072	494.01	0.0023	0.002807
Zn	66	3	He	2.195	0.0078	524.01	0.0023	0.002807
As	75	3	He	3.653	0.008	546.01	0.0018	0.001271
As	75	3	He	4.147	0.0089	612.02	0.0018	0.001271
As	75	3	He	4.013	0.0087	582.02	0.0018	0.001271
Sr	88	3	He	87.125	0.717	38046.70	0.0082	0.00114
Sr	88	3	He	90.114	0.7415	39610.01	0.0082	0.00114
Sr	88	3	He	88.737	0.7302	39109.26	0.0082	0.00114
Mo	98	3	He	0.107	0.0034	180.01	0.0177	0.001504
Mo	98	3	He	0.074	0.0028	150.01	0.0177	0.001504
Mo	98	3	He	-0.011	0.0013	70.00	0.0177	0.001504
Ag	107	3	He	0.046	0.003	160.01	0.0368	0.001325
Ag	107	3	He	0.051	0.0032	170.01	0.0368	0.001325
Ag	107	3	He	0.035	0.0026	140.01	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.327	0.0151	800.05	0.0126	0.01097
Sn	120	3	He	0.289	0.0146	780.06	0.0126	0.01097
Sn	120	3	He	0.167	0.0131	700.04	0.0126	0.01097
Sb	121	3	He	0.038	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.043	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.027	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	651.801	2.5434	134968.61	0.0039	0.0003633
Ba	137	3	He	648.931	2.5322	135262.22	0.0039	0.0003633
Ba	137	3	He	641.812	2.5045	134132.75	0.0039	0.0003633
Tl	205	3	He	-0.016	0.001	200.01	0.0189	0.001334
Tl	205	3	He	-0.004	0.0013	250.01	0.0189	0.001334
Tl	205	3	He	0.007	0.0015	290.01	0.0189	0.001334
Pb	208	3	He	0.073	0.0033	260.01	0.0252	0.001497
Pb	208	3	He	0.029	0.0022	260.01	0.0252	0.001497
Pb	208	3	He	0.043	0.0026	240.01	0.0252	0.001497
U	238	3	He	1.197	0.0295	5751.34	0.0245	0.0001141
U	238	3	He	1.001	0.0247	4880.98	0.0245	0.0001141
U	238	3	He	1.12	0.0276	5471.21	0.0245	0.0001141
Sc	45	1	No Gas			1601630.76		
Sc	45	1	No Gas			1638996.23		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1649801.54		
Ge	72	1	No Gas			817763.11		
Ge	72	1	No Gas			833186.78		
Ge	72	1	No Gas			829418.35		
Sc	45	2	H2			131443.87		
Sc	45	2	H2			132047.88		
Sc	45	2	H2			130698.10		
Ge	72	2	H2			97685.10		
Ge	72	2	H2			101298.28		
Ge	72	2	H2			98863.18		
In	115	2	H2			240601.42		
In	115	2	H2			243940.86		
In	115	2	H2			239636.50		
Sc	45	3	He			38546.15		
Sc	45	3	He			39618.78		
Sc	45	3	He			39387.69		
Ge	72	3	He			68285.66		
Ge	72	3	He			68737.04		
Ge	72	3	He			67220.80		
In	115	3	He			53071.30		
In	115	3	He			53421.74		
In	115	3	He			53562.66		
Tb	159	3	He			194903.22		
Tb	159	3	He			197687.44		
Tb	159	3	He			198184.10		
Bi	209	3	He			143258.57		
Bi	209	3	He			145975.04		
Bi	209	3	He			142864.23		

Quantitation Report

Data File Name	219SMPL.d
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Acq Time	7/10/2025 6:00:52 PM
Sample Name	410-229895-G-9-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

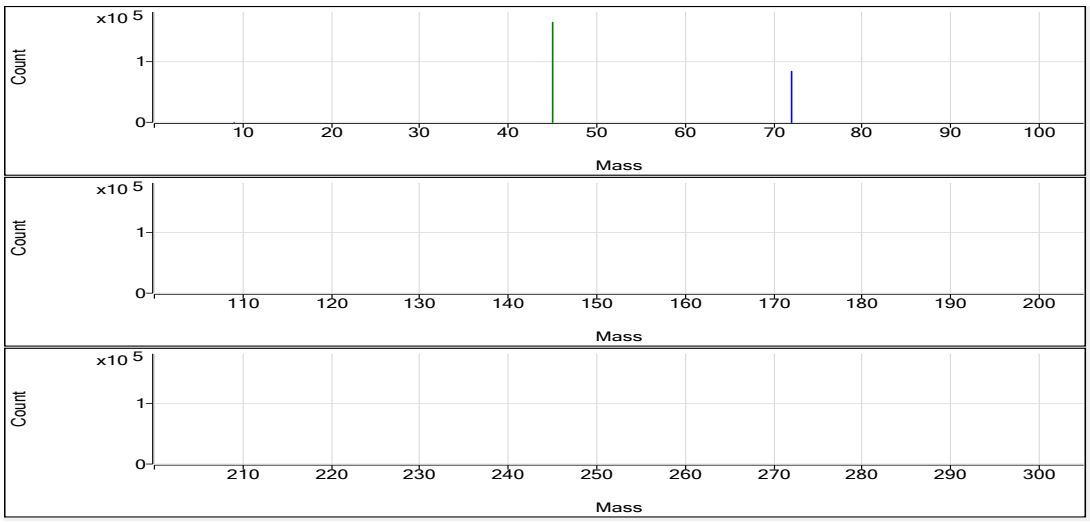
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.030	ppb	N/A	26.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.500	ppb	3.5	25.56	0.0003	Pulse	1.5000	3
Na	23	45	He	3334.752	ppb	0.9	363247.40	9.0628	Pulse	0.1000	3
Mg	24	45	He	28748.383	ppb	0.6	1396311.33	34.8369	Analog	0.1000	3
Al	27	45	He	2.192	ppb	95.3	246.68	0.0062	Pulse	0.1000	3
K	39	45	He	1687.668	ppb	5.3	88421.74	2.2064	Pulse	0.5000	3
Ca	44	45	He	67670.025	ppb	1.1	142948.52	3.5666	Pulse	0.5000	3
Ti	47	45	He	-0.749	ppb	N/A	6.00	0.0001	Pulse	0.5000	3
V	51	45	He	-0.028	ppb	N/A	1026.70	0.0256	Pulse	0.5000	3
Cr	52	45	He	-0.235	ppb	N/A	1823.50	0.0455	Pulse	0.1000	3
Mn	55	45	He	0.168	ppb	53.9	490.68	0.0122	Pulse	0.5000	3
Fe	57	45	He	3.612	ppb	146.9	396.68	0.0099	Pulse	0.1000	3
Co	59	45	He	-0.017	ppb	N/A	213.33	0.0053	Pulse	0.5000	3
Ni	60	45	He	0.243	ppb	11.1	584.01	0.0146	Pulse	0.5000	3
Cu	63	72	He	0.024	ppb	132.6	1005.37	0.0149	Pulse	0.5000	3
Zn	66	72	He	2.071	ppb	4.8	506.68	0.0075	Pulse	0.5000	3
As	75	72	He	1.308	ppb	15.9	248.00	0.0037	Pulse	0.5000	3
Sr	88	115	He	63.925	ppb	1.7	27661.30	0.5264	Pulse	0.1000	3
Mo	98	115	He	1.487	ppb	6.0	1463.46	0.0278	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	-0.002	ppb	N/A	2.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.273	ppb	34.4	756.71	0.0144	Pulse	0.1000	3
Sb	121	115	He	0.009	ppb	212.0	24.44	0.0005	Pulse	0.3000	3
Ba	137	115	He	179.198	ppb	0.2	36764.69	0.6995	Pulse	0.1000	3
Tl	205	159	He	-0.036	ppb	N/A	126.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	0.059	ppb	38.2	580.03	0.0030	Pulse	0.1000	3
U	238	159	He	0.465	ppb	4.7	2236.91	0.0115	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1653753.99	1.7	96.8	Analog	0.1000	3
No Gas	Ge	72	844436.55	1.2	97.8	Pulse	0.1000	3
H2	Sc	45	133912.70	1.5	100.2	Pulse	0.1000	3
H2	Ge	72	99523.66	0.4	100.5	Pulse	0.1000	3
H2	In	115	244423.92	1.3	95.2	Pulse	0.1000	3
He	Sc	45	40083.03	1.0	101.5	Pulse	0.1000	3
He	Ge	72	67411.42	0.9	99.0	Pulse	0.1000	3
He	In	115	52557.61	1.0	94.9	Pulse	0.1000	3
He	Tb	159	193782.55	0.7	94.6	Pulse	0.1000	3
He	Bi	209	142527.53	0.6	94.2	Pulse	0.1000	3

No Gas



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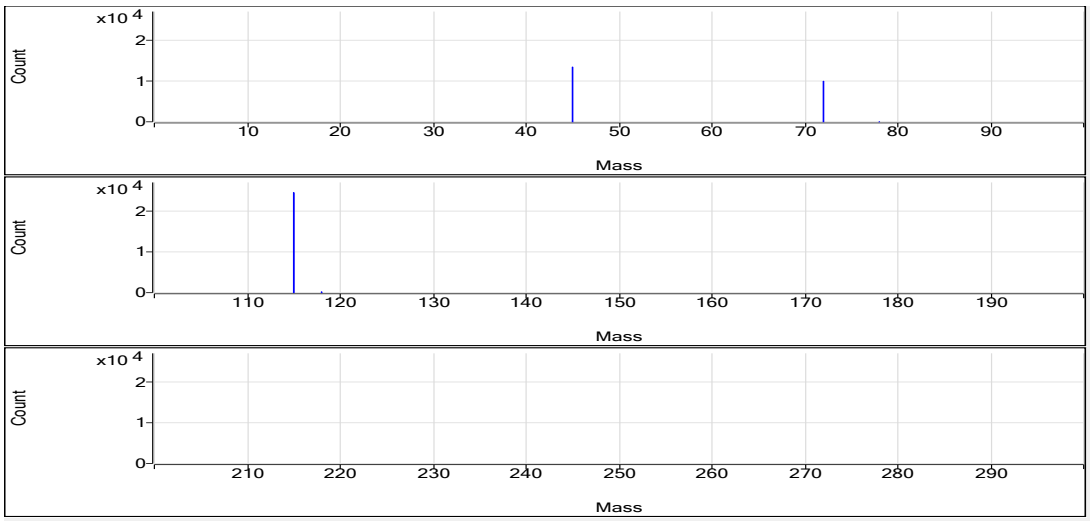
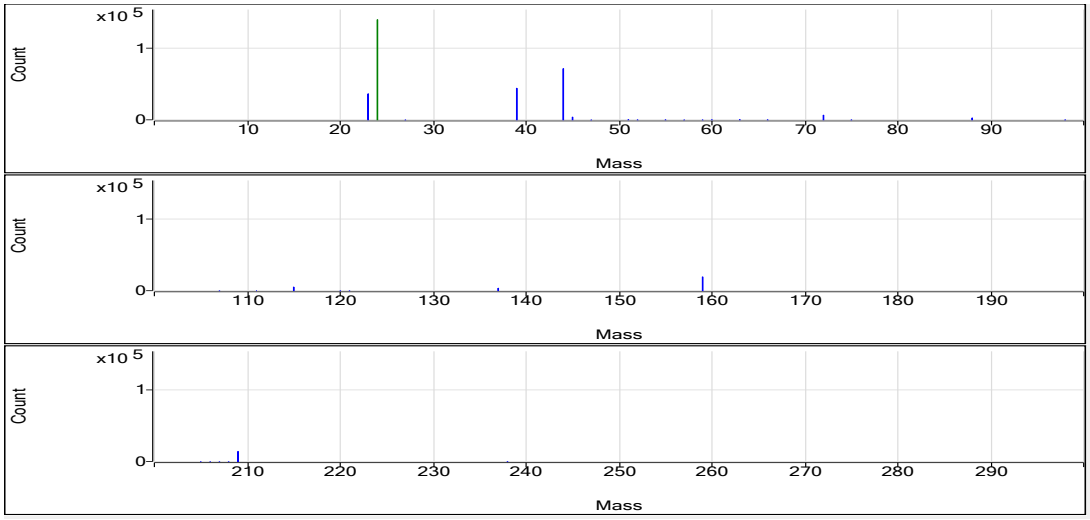


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.056	0	12.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.025	0	30.00	0.0003	2.616E-05
Se	78	2	H2	0.509	0.0003	26.00	0.0004	6.3E-05
Se	78	2	H2	0.511	0.0003	26.00	0.0004	6.3E-05
Se	78	2	H2	0.479	0.0002	24.67	0.0004	6.3E-05
Na	23	3	He	3364.075	9.1359	363689.96	0.0025	0.7502
Na	23	3	He	3334.399	9.0619	361746.75	0.0025	0.7502
Na	23	3	He	3305.782	8.9906	364305.50	0.0025	0.7502
Mg	24	3	He	28909.542	35.032	1394586.23	0.0012	0.02618
Mg	24	3	He	28790.032	34.8873	1392681.54	0.0012	0.02618
Mg	24	3	He	28545.575	34.5913	1401666.23	0.0012	0.02618
Al	27	3	He	4.52	0.007	280.01	0.0004	0.005329
Al	27	3	He	0.483	0.0055	220.01	0.0004	0.005329
Al	27	3	He	1.574	0.0059	240.01	0.0004	0.005329
K	39	3	He	1785.271	2.3034	91693.86	0.001	0.5307
K	39	3	He	1666.992	2.1859	87260.08	0.001	0.5307
K	39	3	He	1610.741	2.1301	86311.28	0.001	0.5307
Ca	44	3	He	68214.972	3.5952	143122.67	0.0001	0.004441
Ca	44	3	He	67964.369	3.5821	142993.45	0.0001	0.004441
Ca	44	3	He	66830.736	3.5224	142729.45	0.0001	0.004441
Ti	47	3	He	-0.746	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.87	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.632	0.0002	8.00	0.0004	0.0004559
V	51	3	He	0.033	0.0267	1062.04	0.0176	0.02609
V	51	3	He	-0.139	0.0236	944.03	0.0176	0.02609
V	51	3	He	0.023	0.0265	1074.04	0.0176	0.02609
Cr	52	3	He	0.006	0.0507	2020.19	0.0217	0.05061
Cr	52	3	He	-0.381	0.0423	1690.15	0.0217	0.05061
Cr	52	3	He	-0.33	0.0434	1760.16	0.0217	0.05061
Mn	55	3	He	0.137	0.012	476.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.271	0.0132	526.01	0.0091	0.01071
Mn	55	3	He	0.098	0.0116	470.01	0.0091	0.01071
Fe	57	3	He	-1.665	0.0078	310.01	0.0004	0.008452
Fe	57	3	He	8.946	0.012	480.02	0.0004	0.008452
Fe	57	3	He	3.555	0.0099	400.02	0.0004	0.008452
Co	59	3	He	0.002	0.0061	242.00	0.0413	0.006013
Co	59	3	He	-0.029	0.0048	192.00	0.0413	0.006013
Co	59	3	He	-0.023	0.0051	206.00	0.0413	0.006013
Ni	60	3	He	0.213	0.0142	566.01	0.0117	0.01172
Ni	60	3	He	0.265	0.0148	592.01	0.0117	0.01172
Ni	60	3	He	0.251	0.0147	594.01	0.0117	0.01172
Cu	63	3	He	-0.004	0.0144	972.04	0.0196	0.01443
Cu	63	3	He	0.018	0.0148	986.03	0.0196	0.01443
Cu	63	3	He	0.06	0.0156	1058.04	0.0196	0.01443
Zn	66	3	He	2.117	0.0076	516.01	0.0023	0.002807
Zn	66	3	He	1.958	0.0073	484.01	0.0023	0.002807
Zn	66	3	He	2.139	0.0077	520.01	0.0023	0.002807
As	75	3	He	1.074	0.0032	220.00	0.0018	0.001271
As	75	3	He	1.378	0.0038	254.00	0.0018	0.001271
As	75	3	He	1.473	0.004	270.00	0.0018	0.001271
Sr	88	3	He	64.77	0.5333	27834.91	0.0082	0.00114
Sr	88	3	He	62.733	0.5166	27474.39	0.0082	0.00114
Sr	88	3	He	64.273	0.5292	27674.60	0.0082	0.00114
Mo	98	3	He	1.473	0.0276	1440.12	0.0177	0.001504
Mo	98	3	He	1.582	0.0295	1570.14	0.0177	0.001504
Mo	98	3	He	1.405	0.0264	1380.11	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.255	0.0142	740.04	0.0126	0.01097
Sn	120	3	He	0.189	0.0133	710.04	0.0126	0.01097
Sn	120	3	He	0.375	0.0157	820.06	0.0126	0.01097
Sb	121	3	He	0.028	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	-0.009	0.0003	13.33	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	179.167	0.6994	36503.93	0.0039	0.0003633
Ba	137	3	He	178.814	0.698	37125.49	0.0039	0.0003633
Ba	137	3	He	179.613	0.7011	36664.66	0.0039	0.0003633
Tl	205	3	He	-0.024	0.0009	170.01	0.0189	0.001334
Tl	205	3	He	-0.038	0.0006	120.00	0.0189	0.001334
Tl	205	3	He	-0.046	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	0.056	0.0029	270.01	0.0252	0.001497
Pb	208	3	He	0.084	0.0036	370.02	0.0252	0.001497
Pb	208	3	He	0.038	0.0025	210.01	0.0252	0.001497
U	238	3	He	0.441	0.0109	2100.22	0.0245	0.0001141
U	238	3	He	0.473	0.0117	2280.25	0.0245	0.0001141
U	238	3	He	0.483	0.012	2330.27	0.0245	0.0001141
Sc	45	1	No Gas			1624145.91		
Sc	45	1	No Gas			1657784.98		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1679331.07		
Ge	72	1	No Gas			834145.07		
Ge	72	1	No Gas			845423.19		
Ge	72	1	No Gas			853741.39		
Sc	45	2	H2			133660.53		
Sc	45	2	H2			136029.20		
Sc	45	2	H2			132048.36		
Ge	72	2	H2			99849.31		
Ge	72	2	H2			99587.60		
Ge	72	2	H2			99134.06		
In	115	2	H2			243914.23		
In	115	2	H2			247711.38		
In	115	2	H2			241646.15		
Sc	45	3	He			39808.90		
Sc	45	3	He			39919.43		
Sc	45	3	He			40520.77		
Ge	72	3	He			67723.15		
Ge	72	3	He			66698.37		
Ge	72	3	He			67812.75		
In	115	3	He			52198.38		
In	115	3	He			53191.58		
In	115	3	He			52298.76		
Tb	159	3	He			192139.31		
Tb	159	3	He			194427.63		
Tb	159	3	He			194780.72		
Bi	209	3	He			143095.81		
Bi	209	3	He			141592.72		
Bi	209	3	He			142894.07		

Quantitation Report

Data File Name	220SMPL.d
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Sample Name	410-229895-G-5-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

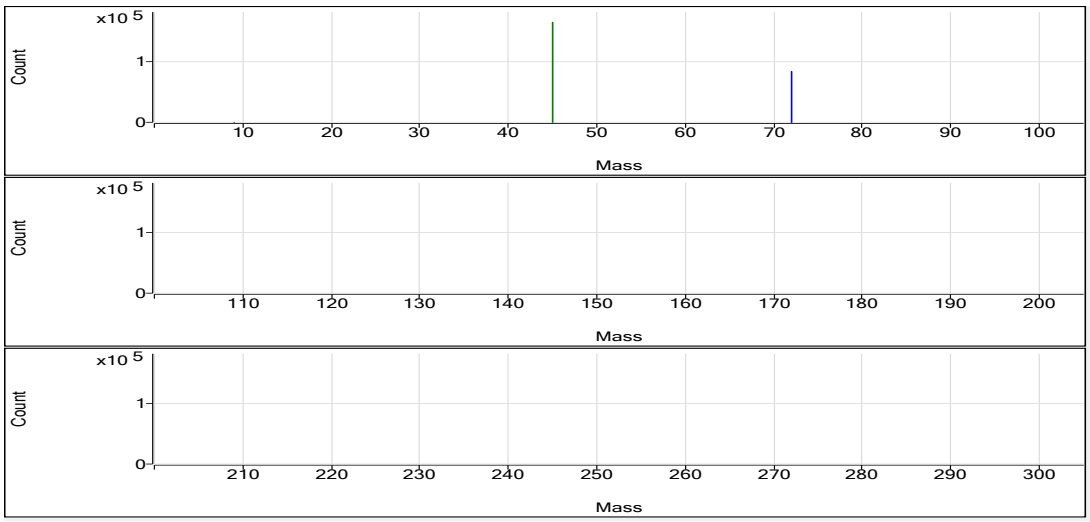
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.006	ppb	N/A	40.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.099	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	6748.981	ppb	2.2	699988.58	17.5735	Pulse	0.1000	3
Mg	24	45	He	37771.992	ppb	0.8	1823163.05	45.7633	Analog	0.1000	3
Al	27	45	He	-2.355	ppb	N/A	176.67	0.0044	Pulse	0.1000	3
K	39	45	He	2813.231	ppb	3.0	132407.74	3.3241	Pulse	0.5000	3
Ca	44	45	He	100575.038	ppb	1.3	211076.66	5.2987	Pulse	0.5000	3
Ti	47	45	He	-0.909	ppb	N/A	3.33	0.0001	Pulse	0.5000	3
V	51	45	He	-0.221	ppb	N/A	884.70	0.0222	Pulse	0.5000	3
Cr	52	45	He	-0.756	ppb	N/A	1363.44	0.0342	Pulse	0.1000	3
Mn	55	45	He	2448.421	ppb	1.7	889378.79	22.3270	Pulse	0.5000	3
Fe	57	45	He	7133.202	ppb	0.8	113819.77	2.8570	Pulse	0.1000	3
Co	59	45	He	11.058	ppb	0.4	18431.11	0.4626	Pulse	0.5000	3
Ni	60	45	He	9.263	ppb	3.0	4800.07	0.1205	Pulse	0.5000	3
Cu	63	72	He	-0.364	ppb	N/A	492.68	0.0073	Pulse	0.5000	3
Zn	66	72	He	4.901	ppb	6.5	940.70	0.0139	Pulse	0.5000	3
As	75	72	He	6.045	ppb	4.1	836.03	0.0124	Pulse	0.5000	3
Sr	88	115	He	95.348	ppb	1.6	41344.72	0.7845	Pulse	0.1000	3
Mo	98	115	He	0.651	ppb	13.3	686.70	0.0130	Pulse	0.1000	3
Ag	107	115	He	-0.021	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.012	ppb	0.0	0.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.302	ppb	72.2	776.71	0.0148	Pulse	0.1000	3
Sb	121	115	He	0.010	ppb	71.2	25.56	0.0005	Pulse	0.3000	3
Ba	137	115	He	361.086	ppb	1.5	74266.64	1.4092	Pulse	0.1000	3
Tl	205	159	He	-0.004	ppb	N/A	246.68	0.0013	Pulse	0.1000	3
Pb	208	159	He	-0.005	ppb	N/A	266.67	0.0014	Pulse	0.1000	3
U	238	159	He	0.561	ppb	3.5	2710.34	0.0139	Pulse	0.1000	3

ISTD Table:

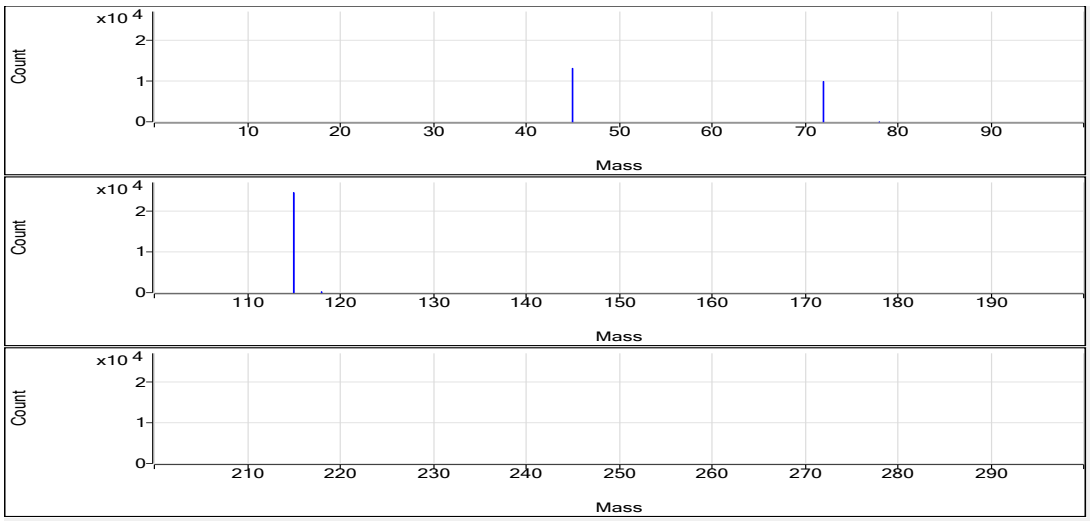
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1649466.95	1.7	96.5	Analog	0.1000	3
No Gas	Ge	72	839526.84	0.1	97.2	Pulse	0.1000	3
H2	Sc	45	131497.64	0.8	98.4	Pulse	0.1000	3
H2	Ge	72	99229.37	1.7	100.2	Pulse	0.1000	3
H2	In	115	245866.52	1.0	95.8	Pulse	0.1000	3
He	Sc	45	39842.46	1.9	100.9	Pulse	0.1000	3
He	Ge	72	67445.27	1.1	99.0	Pulse	0.1000	3
He	In	115	52711.25	2.2	95.1	Pulse	0.1000	3
He	Tb	159	195058.21	0.2	95.2	Pulse	0.1000	3
He	Bi	209	143867.67	1.4	95.1	Pulse	0.1000	3

No Gas

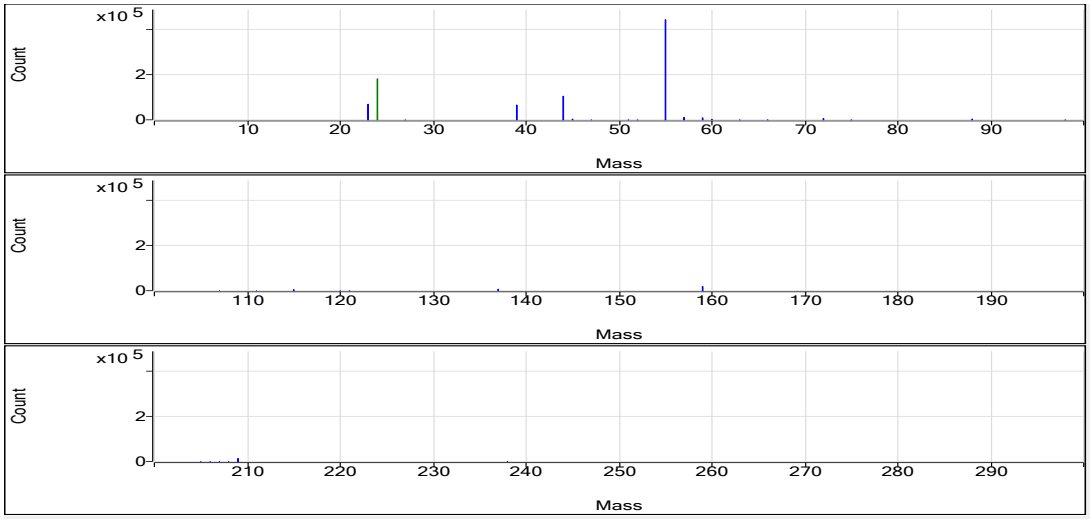


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.001	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.013	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.003	0	42.00	0.0003	2.616E-05
Se	78	2	H2	-0.128	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.092	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.077	0	3.33	0.0004	6.3E-05
Na	23	3	He	6789.646	17.6749	701671.86	0.0025	0.7502
Na	23	3	He	6873.033	17.8828	700598.19	0.0025	0.7502
Na	23	3	He	6584.266	17.1629	697695.69	0.0025	0.7502
Mg	24	3	He	37663.517	45.632	1811534.35	0.0012	0.02618
Mg	24	3	He	38112.462	46.1756	1809035.60	0.0012	0.02618
Mg	24	3	He	37539.998	45.4824	1848919.19	0.0012	0.02618
Al	27	3	He	2.568	0.0063	250.01	0.0004	0.005329
Al	27	3	He	-3.979	0.0038	150.00	0.0004	0.005329
Al	27	3	He	-5.652	0.0032	130.00	0.0004	0.005329
K	39	3	He	2889.735	3.4	134977.06	0.001	0.5307
K	39	3	He	2827.771	3.3385	130793.56	0.001	0.5307
K	39	3	He	2722.187	3.2337	131452.59	0.001	0.5307
Ca	44	3	He	100662.782	5.3033	210533.73	0.0001	0.004441
Ca	44	3	He	101871.756	5.3669	210261.41	0.0001	0.004441
Ca	44	3	He	99190.577	5.2258	212434.84	0.0001	0.004441
Ti	47	3	He	-0.868	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.865	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.994	0	2.00	0.0004	0.0004559
V	51	3	He	-0.169	0.0231	918.03	0.0176	0.02609
V	51	3	He	-0.236	0.022	860.03	0.0176	0.02609
V	51	3	He	-0.258	0.0215	876.03	0.0176	0.02609
Cr	52	3	He	-0.834	0.0325	1290.09	0.0217	0.05061
Cr	52	3	He	-0.826	0.0327	1280.10	0.0217	0.05061
Cr	52	3	He	-0.608	0.0374	1520.12	0.0217	0.05061
Mn	55	3	He	2439.932	22.2496	883281.38	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2494.554	22.7474	891183.06	0.0091	0.01071
Mn	55	3	He	2410.777	21.9839	893671.94	0.0091	0.01071
Fe	57	3	He	7125.872	2.8541	113303.43	0.0004	0.008452
Fe	57	3	He	7190.698	2.88	112829.29	0.0004	0.008452
Fe	57	3	He	7083.036	2.837	115326.59	0.0004	0.008452
Co	59	3	He	11.014	0.4608	18292.30	0.0413	0.006013
Co	59	3	He	11.069	0.463	18140.11	0.0413	0.006013
Co	59	3	He	11.092	0.464	18860.93	0.0413	0.006013
Ni	60	3	He	9.414	0.1223	4854.75	0.0117	0.01172
Ni	60	3	He	9.436	0.1225	4800.73	0.0117	0.01172
Ni	60	3	He	8.94	0.1167	4744.72	0.0117	0.01172
Cu	63	3	He	-0.368	0.0072	494.01	0.0196	0.01443
Cu	63	3	He	-0.372	0.0072	478.01	0.0196	0.01443
Cu	63	3	He	-0.353	0.0075	506.01	0.0196	0.01443
Zn	66	3	He	5.059	0.0143	976.04	0.0023	0.002807
Zn	66	3	He	5.111	0.0144	964.04	0.0023	0.002807
Zn	66	3	He	4.534	0.0131	882.03	0.0023	0.002807
As	75	3	He	5.775	0.0119	812.03	0.0018	0.001271
As	75	3	He	6.267	0.0128	856.03	0.0018	0.001271
As	75	3	He	6.093	0.0125	840.03	0.0018	0.001271
Sr	88	3	He	95.992	0.7898	41064.05	0.0082	0.00114
Sr	88	3	He	96.407	0.7932	41314.37	0.0082	0.00114
Sr	88	3	He	93.645	0.7706	41655.75	0.0082	0.00114
Mo	98	3	He	0.751	0.0148	770.05	0.0177	0.001504
Mo	98	3	He	0.598	0.0121	630.03	0.0177	0.001504
Mo	98	3	He	0.604	0.0122	660.03	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.55	0.0179	930.06	0.0126	0.01097
Sn	120	3	He	0.212	0.0136	710.04	0.0126	0.01097
Sn	120	3	He	0.143	0.0128	690.04	0.0126	0.01097
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.013	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.016	0.0006	30.00	0.012	0.0003595
Ba	137	3	He	367.036	1.4324	74470.99	0.0039	0.0003633
Ba	137	3	He	359.757	1.404	73124.29	0.0039	0.0003633
Ba	137	3	He	356.464	1.3911	75204.63	0.0039	0.0003633
Tl	205	3	He	-0.008	0.0012	230.01	0.0189	0.001334
Tl	205	3	He	0.011	0.0015	300.01	0.0189	0.001334
Tl	205	3	He	-0.014	0.0011	210.01	0.0189	0.001334
Pb	208	3	He	0	0.0015	140.01	0.0252	0.001497
Pb	208	3	He	-0.011	0.0012	120.00	0.0252	0.001497
Pb	208	3	He	-0.005	0.0014	150.01	0.0252	0.001497
U	238	3	He	0.545	0.0135	2630.31	0.0245	0.0001141
U	238	3	He	0.556	0.0138	2680.34	0.0245	0.0001141
U	238	3	He	0.583	0.0144	2820.36	0.0245	0.0001141
Sc	45	1	No Gas			1624738.41		
Sc	45	1	No Gas			1642787.16		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1680875.29		
Ge	72	1	No Gas			839931.94		
Ge	72	1	No Gas			838194.05		
Ge	72	1	No Gas			840454.52		
Sc	45	2	H2			132602.46		
Sc	45	2	H2			130497.61		
Sc	45	2	H2			131392.85		
Ge	72	2	H2			100071.61		
Ge	72	2	H2			97324.34		
Ge	72	2	H2			100292.16		
In	115	2	H2			247458.47		
In	115	2	H2			243000.21		
In	115	2	H2			247140.89		
Sc	45	3	He			39698.78		
Sc	45	3	He			39177.30		
Sc	45	3	He			40651.29		
Ge	72	3	He			68225.37		
Ge	72	3	He			66839.02		
Ge	72	3	He			67271.42		
In	115	3	He			51997.34		
In	115	3	He			52088.21		
In	115	3	He			54064.50		
Tb	159	3	He			194841.74		
Tb	159	3	He			194820.19		
Tb	159	3	He			195512.69		
Bi	209	3	He			145894.53		
Bi	209	3	He			141935.18		
Bi	209	3	He			143773.30		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:05:15 PM
Sample Name	410-229895-G-7-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

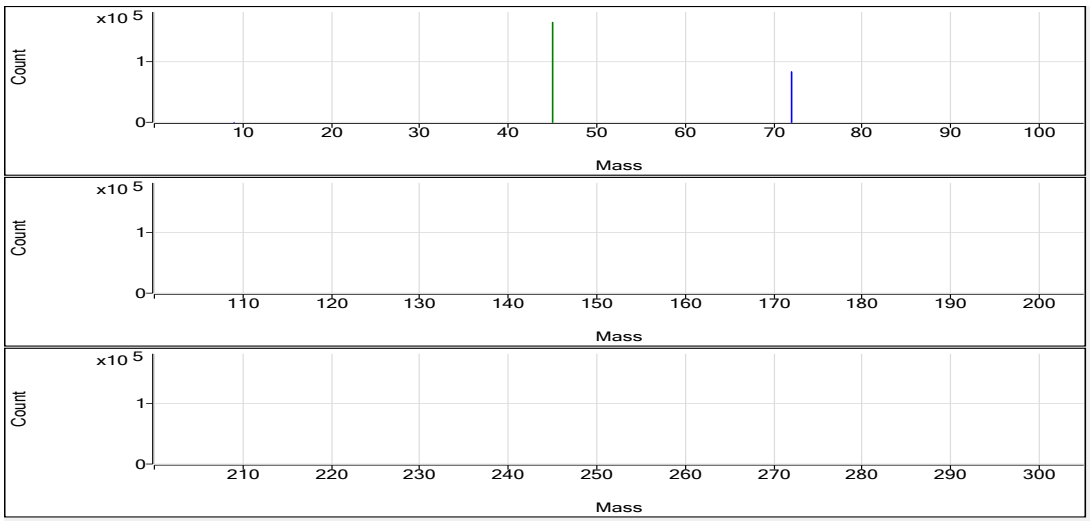
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.026	ppb	N/A	28.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.018	ppb	N/A	5.55	0.0001	Pulse	1.5000	3
Na	23	45	He	6886.508	ppb	0.1	717726.08	17.9163	Pulse	0.1000	3
Mg	24	45	He	24216.534	ppb	0.2	1175728.99	29.3494	Analog	0.1000	3
Al	27	45	He	-0.012	ppb	N/A	213.34	0.0053	Pulse	0.1000	3
K	39	45	He	3641.541	ppb	2.2	166100.50	4.1465	Pulse	0.5000	3
Ca	44	45	He	87740.337	ppb	0.5	185196.04	4.6230	Pulse	0.5000	3
Ti	47	45	He	-0.871	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	-0.063	ppb	N/A	1001.37	0.0250	Pulse	0.5000	3
Cr	52	45	He	0.248	ppb	28.9	2243.56	0.0560	Pulse	0.1000	3
Mn	55	45	He	1.749	ppb	16.5	1067.37	0.0267	Pulse	0.5000	3
Fe	57	45	He	4.885	ppb	124.5	416.68	0.0104	Pulse	0.1000	3
Co	59	45	He	-0.040	ppb	N/A	174.00	0.0043	Pulse	0.5000	3
Ni	60	45	He	0.058	ppb	215.8	496.68	0.0124	Pulse	0.5000	3
Cu	63	72	He	-0.204	ppb	N/A	712.69	0.0104	Pulse	0.5000	3
Zn	66	72	He	1.411	ppb	11.5	410.68	0.0060	Pulse	0.5000	3
As	75	72	He	1.373	ppb	6.3	259.33	0.0038	Pulse	0.5000	3
Sr	88	115	He	48.631	ppb	0.8	21091.17	0.4007	Pulse	0.1000	3
Mo	98	115	He	0.352	ppb	21.1	406.69	0.0077	Pulse	0.1000	3
Ag	107	115	He	-0.012	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Cd	111	115	He	0.019	ppb	76.0	6.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.286	ppb	27.2	766.71	0.0146	Pulse	0.1000	3
Sb	121	115	He	0.002	ppb	1470.1	20.00	0.0004	Pulse	0.3000	3
Ba	137	115	He	246.896	ppb	1.7	50710.90	0.9637	Pulse	0.1000	3
Tl	205	159	He	-0.041	ppb	N/A	106.67	0.0006	Pulse	0.1000	3
Pb	208	159	He	-0.013	ppb	N/A	226.67	0.0012	Pulse	0.1000	3
U	238	159	He	0.341	ppb	11.0	1630.15	0.0085	Pulse	0.1000	3

ISTD Table:

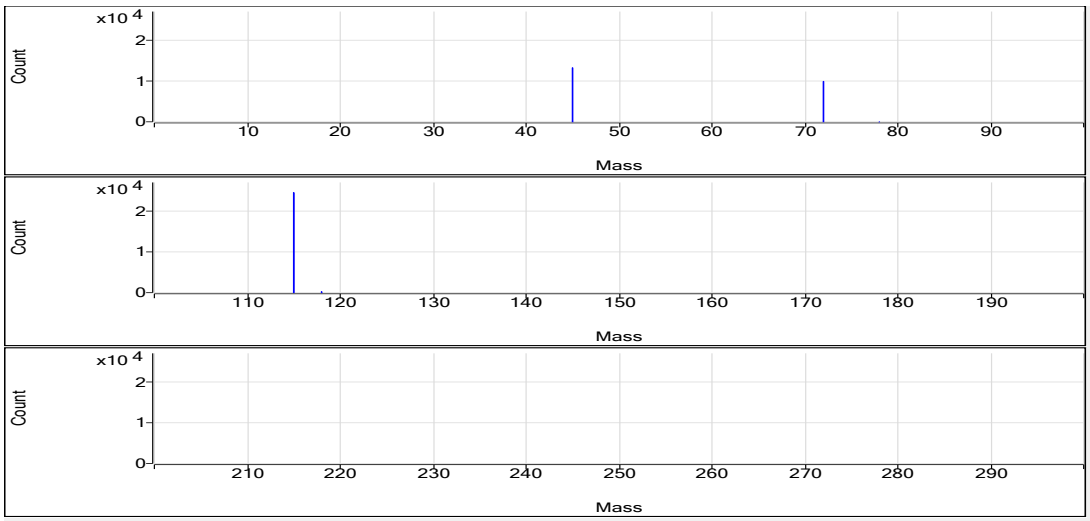
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1646981.80	0.7	96.4	Analog	0.1000	3
No Gas	Ge	72	831551.39	0.2	96.3	Pulse	0.1000	3
H2	Sc	45	132444.90	0.2	99.1	Pulse	0.1000	3
H2	Ge	72	99128.05	1.4	100.1	Pulse	0.1000	3
H2	In	115	245210.07	0.7	95.5	Pulse	0.1000	3
He	Sc	45	40059.87	0.5	101.5	Pulse	0.1000	3
He	Ge	72	68268.64	0.8	100.2	Pulse	0.1000	3
He	In	115	52634.15	1.8	95.0	Pulse	0.1000	3
He	Tb	159	192401.42	0.9	94.0	Pulse	0.1000	3
He	Bi	209	141797.28	1.2	93.7	Pulse	0.1000	3

No Gas

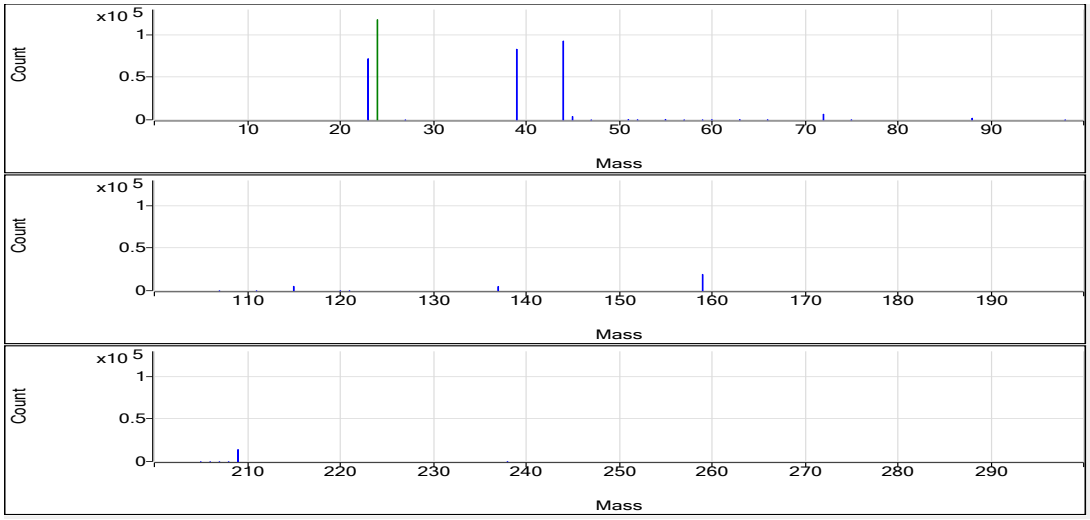


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.017	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.041	0	20.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.02	0	32.00	0.0003	2.616E-05
Se	78	2	H2	-0.026	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	-0.023	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	-0.005	0.0001	6.00	0.0004	6.3E-05
Na	23	3	He	6888.657	17.9217	714167.96	0.0025	0.7502
Na	23	3	He	6877.12	17.8929	718584.68	0.0025	0.7502
Na	23	3	He	6893.747	17.9344	720425.61	0.0025	0.7502
Mg	24	3	He	24239.826	29.3776	1170676.86	0.0012	0.02618
Mg	24	3	He	24254.884	29.3958	1180542.33	0.0012	0.02618
Mg	24	3	He	24154.891	29.2747	1175967.79	0.0012	0.02618
Al	27	3	He	-0.823	0.005	200.01	0.0004	0.005329
Al	27	3	He	1.716	0.006	240.01	0.0004	0.005329
Al	27	3	He	-0.929	0.005	200.01	0.0004	0.005329
K	39	3	He	3729.411	4.2338	168713.66	0.001	0.5307
K	39	3	He	3622.597	4.1277	165770.44	0.001	0.5307
K	39	3	He	3572.614	4.0781	163817.41	0.001	0.5307
Ca	44	3	He	88227.656	4.6487	185247.61	0.0001	0.004441
Ca	44	3	He	87420.809	4.6062	184987.16	0.0001	0.004441
Ca	44	3	He	87572.547	4.6142	185353.34	0.0001	0.004441
Ti	47	3	He	-0.992	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.993	0	2.00	0.0004	0.0004559
Ti	47	3	He	-0.628	0.0002	8.00	0.0004	0.0004559
V	51	3	He	-0.1	0.0243	970.04	0.0176	0.02609
V	51	3	He	-0.116	0.0241	966.03	0.0176	0.02609
V	51	3	He	0.028	0.0266	1068.04	0.0176	0.02609
Cr	52	3	He	0.224	0.0555	2210.23	0.0217	0.05061
Cr	52	3	He	0.192	0.0548	2200.22	0.0217	0.05061
Cr	52	3	He	0.329	0.0578	2320.23	0.0217	0.05061
Mn	55	3	He	2.057	0.0295	1174.05	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.486	0.0243	974.03	0.0091	0.01071
Mn	55	3	He	1.704	0.0262	1054.04	0.0091	0.01071
Fe	57	3	He	6.485	0.011	440.02	0.0004	0.008452
Fe	57	3	He	-1.836	0.0077	310.01	0.0004	0.008452
Fe	57	3	He	10.005	0.0124	500.02	0.0004	0.008452
Co	59	3	He	-0.05	0.004	158.00	0.0413	0.006013
Co	59	3	He	-0.032	0.0047	188.00	0.0413	0.006013
Co	59	3	He	-0.04	0.0044	176.00	0.0413	0.006013
Ni	60	3	He	-0.015	0.0115	460.01	0.0117	0.01172
Ni	60	3	He	-0.014	0.0116	464.01	0.0117	0.01172
Ni	60	3	He	0.202	0.0141	566.01	0.0117	0.01172
Cu	63	3	He	-0.172	0.0111	750.02	0.0196	0.01443
Cu	63	3	He	-0.257	0.0094	642.02	0.0196	0.01443
Cu	63	3	He	-0.184	0.0108	746.02	0.0196	0.01443
Zn	66	3	He	1.402	0.006	406.01	0.0023	0.002807
Zn	66	3	He	1.254	0.0057	386.01	0.0023	0.002807
Zn	66	3	He	1.578	0.0064	440.01	0.0023	0.002807
As	75	3	He	1.33	0.0037	252.00	0.0018	0.001271
As	75	3	He	1.316	0.0037	252.00	0.0018	0.001271
As	75	3	He	1.472	0.004	274.00	0.0018	0.001271
Sr	88	3	He	48.578	0.4003	21464.97	0.0082	0.00114
Sr	88	3	He	49.068	0.4043	21214.73	0.0082	0.00114
Sr	88	3	He	48.247	0.3975	20593.81	0.0082	0.00114
Mo	98	3	He	0.273	0.0063	340.01	0.0177	0.001504
Mo	98	3	He	0.421	0.009	470.03	0.0177	0.001504
Mo	98	3	He	0.362	0.0079	410.02	0.0177	0.001504
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.359	0.0155	830.05	0.0126	0.01097
Sn	120	3	He	0.204	0.0135	710.04	0.0126	0.01097
Sn	120	3	He	0.295	0.0147	760.05	0.0126	0.01097
Sb	121	3	He	0.001	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	-0.025	0.0001	3.33	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	242.627	0.947	50784.50	0.0039	0.0003633
Ba	137	3	He	246.883	0.9636	50563.73	0.0039	0.0003633
Ba	137	3	He	251.179	0.9804	50784.47	0.0039	0.0003633
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.01	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	-0.016	0.0011	80.00	0.0252	0.001497
Pb	208	3	He	-0.006	0.0013	180.01	0.0252	0.001497
Pb	208	3	He	-0.016	0.0011	100.00	0.0252	0.001497
U	238	3	He	0.297	0.0074	1430.12	0.0245	0.0001141
U	238	3	He	0.361	0.009	1740.16	0.0245	0.0001141
U	238	3	He	0.363	0.009	1720.16	0.0245	0.0001141
Sc	45	1	No Gas			1655861.69		
Sc	45	1	No Gas			1633181.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1651902.16		
Ge	72	1	No Gas			831297.64		
Ge	72	1	No Gas			830162.41		
Ge	72	1	No Gas			833194.13		
Sc	45	2	H2			132129.48		
Sc	45	2	H2			132633.16		
Sc	45	2	H2			132572.07		
Ge	72	2	H2			100714.10		
Ge	72	2	H2			98229.73		
Ge	72	2	H2			98440.33		
In	115	2	H2			244696.85		
In	115	2	H2			243913.84		
In	115	2	H2			247019.51		
Sc	45	3	He			39849.33		
Sc	45	3	He			40160.22		
Sc	45	3	He			40170.06		
Ge	72	3	He			67742.76		
Ge	72	3	He			68235.28		
Ge	72	3	He			68827.89		
In	115	3	He			53632.72		
In	115	3	He			52478.67		
In	115	3	He			51807.15		
Tb	159	3	He			192827.28		
Tb	159	3	He			193891.34		
Tb	159	3	He			190485.64		
Bi	209	3	He			140642.58		
Bi	209	3	He			141066.54		
Bi	209	3	He			143682.72		

Quantitation Report

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Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

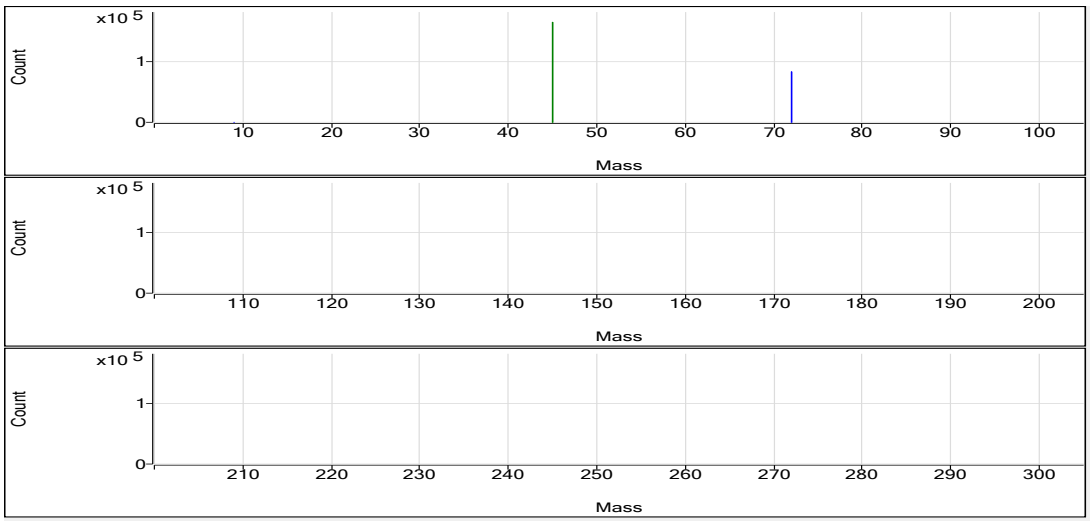
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.010	ppb	N/A	38.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.150	ppb	41.3	12.00	0.0001	Pulse	1.5000	3
Na	23	45	He	6459.235	ppb	0.4	671793.32	16.8513	Pulse	0.1000	3
Mg	24	45	He	27984.375	ppb	1.1	1351915.19	33.9118	Analog	0.1000	3
Al	27	45	He	114.694	ppb	7.7	1936.85	0.0486	Pulse	0.1000	3
K	39	45	He	2554.504	ppb	2.3	122277.99	3.0672	Pulse	0.5000	3
Ca	44	45	He	79506.009	ppb	0.7	167021.19	4.1896	Pulse	0.5000	3
Ti	47	45	He	1.542	ppb	64.0	43.33	0.0011	Pulse	0.5000	3
V	51	45	He	0.450	ppb	18.9	1356.07	0.0340	Pulse	0.5000	3
Cr	52	45	He	0.226	ppb	54.9	2213.56	0.0555	Pulse	0.1000	3
Mn	55	45	He	38.674	ppb	1.8	14479.13	0.3632	Pulse	0.5000	3
Fe	57	45	He	522.765	ppb	1.2	8659.25	0.2172	Pulse	0.1000	3
Co	59	45	He	0.050	ppb	27.6	322.01	0.0081	Pulse	0.5000	3
Ni	60	45	He	-0.132	ppb	N/A	405.34	0.0102	Pulse	0.5000	3
Cu	63	72	He	-0.128	ppb	N/A	808.69	0.0119	Pulse	0.5000	3
Zn	66	72	He	6.871	ppb	8.7	1249.39	0.0184	Pulse	0.5000	3
As	75	72	He	1.606	ppb	9.9	286.67	0.0042	Pulse	0.5000	3
Sr	88	115	He	70.637	ppb	2.0	31014.43	0.5815	Pulse	0.1000	3
Mo	98	115	He	0.367	ppb	8.0	426.69	0.0080	Pulse	0.1000	3
Ag	107	115	He	-0.027	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Cd	111	115	He	-0.003	ppb	N/A	2.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.271	ppb	23.8	766.71	0.0144	Pulse	0.1000	3
Sb	121	115	He	0.005	ppb	274.6	22.22	0.0004	Pulse	0.3000	3
Ba	137	115	He	229.782	ppb	1.3	47828.66	0.8969	Pulse	0.1000	3
Tl	205	159	He	-0.040	ppb	N/A	110.00	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.171	ppb	3.9	1126.73	0.0058	Pulse	0.1000	3
U	238	159	He	0.512	ppb	8.0	2460.31	0.0127	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1666759.82	1.4	97.6	Analog	0.1000	3
No Gas	Ge	72	842186.19	0.9	97.5	Pulse	0.1000	3
H2	Sc	45	131298.57	2.0	98.3	Pulse	0.1000	3
H2	Ge	72	99091.10	0.3	100.0	Pulse	0.1000	3
H2	In	115	243289.51	0.6	94.8	Pulse	0.1000	3
He	Sc	45	39865.99	0.2	101.0	Pulse	0.1000	3
He	Ge	72	67823.89	0.2	99.6	Pulse	0.1000	3
He	In	115	53330.03	0.7	96.3	Pulse	0.1000	3
He	Tb	159	193992.23	0.6	94.7	Pulse	0.1000	3
He	Bi	209	142655.55	1.2	94.3	Pulse	0.1000	3

No Gas



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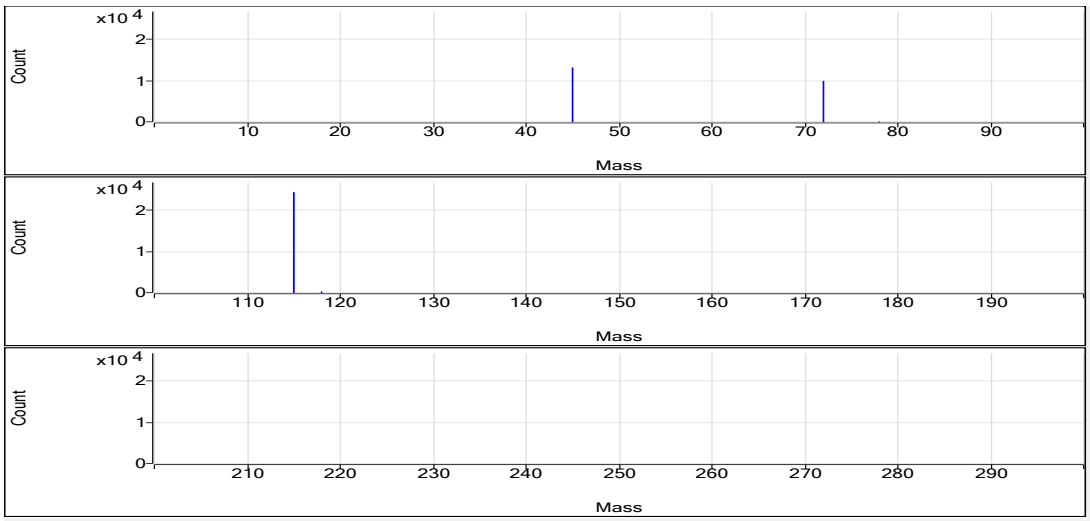
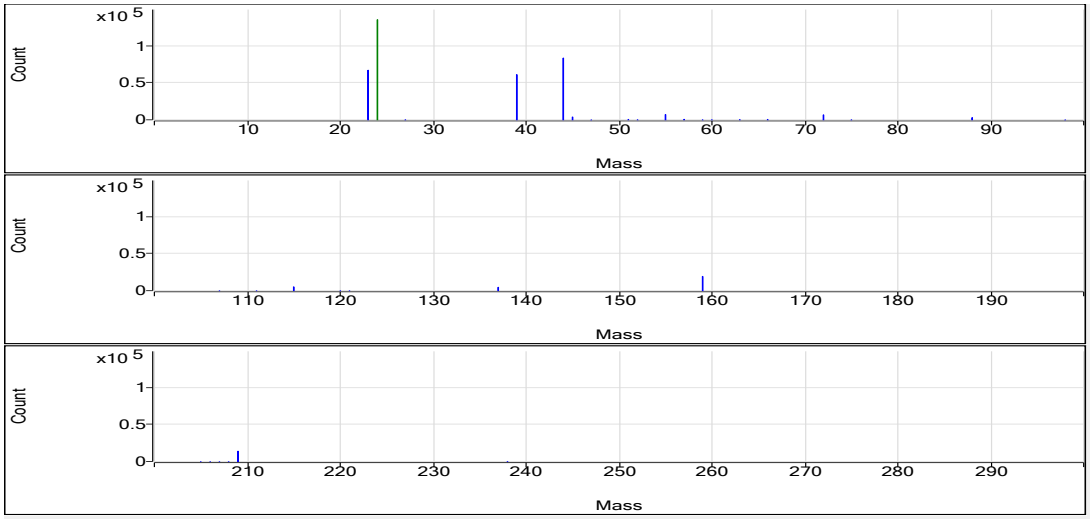


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.009	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.004	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.017	0	34.00	0.0003	2.616E-05
Se	78	2	H2	0.167	0.0001	12.67	0.0004	6.3E-05
Se	78	2	H2	0.201	0.0001	14.00	0.0004	6.3E-05
Se	78	2	H2	0.081	0.0001	9.33	0.0004	6.3E-05
Na	23	3	He	6473.528	16.8869	674620.77	0.0025	0.7502
Na	23	3	He	6432.323	16.7842	668840.22	0.0025	0.7502
Na	23	3	He	6471.854	16.8827	671918.97	0.0025	0.7502
Mg	24	3	He	27888.068	33.7951	1350094.04	0.0012	0.02618
Mg	24	3	He	27750.714	33.6288	1340089.20	0.0012	0.02618
Mg	24	3	He	28314.343	34.3113	1365562.32	0.0012	0.02618
Al	27	3	He	119.966	0.0506	2020.19	0.0004	0.005329
Al	27	3	He	119.637	0.0504	2010.19	0.0004	0.005329
Al	27	3	He	104.479	0.0447	1780.16	0.0004	0.005329
K	39	3	He	2620.286	3.1325	125140.57	0.001	0.5307
K	39	3	He	2509.748	3.0227	120453.72	0.001	0.5307
K	39	3	He	2533.479	3.0463	121239.68	0.001	0.5307
Ca	44	3	He	79122.859	4.1694	166565.97	0.0001	0.004441
Ca	44	3	He	79233.65	4.1753	166381.72	0.0001	0.004441
Ca	44	3	He	80161.519	4.2241	168115.89	0.0001	0.004441
Ti	47	3	He	2.435	0.0015	58.00	0.0004	0.0004559
Ti	47	3	He	1.708	0.0012	46.00	0.0004	0.0004559
Ti	47	3	He	0.483	0.0007	26.00	0.0004	0.0004559
V	51	3	He	0.352	0.0323	1290.06	0.0176	0.02609
V	51	3	He	0.494	0.0348	1386.07	0.0176	0.02609
V	51	3	He	0.505	0.035	1392.07	0.0176	0.02609
Cr	52	3	He	0.355	0.0583	2330.25	0.0217	0.05061
Cr	52	3	He	0.108	0.053	2110.21	0.0217	0.05061
Cr	52	3	He	0.215	0.0553	2200.22	0.0217	0.05061
Mn	55	3	He	38.181	0.3587	14330.33	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	38.39	0.3606	14370.34	0.0091	0.01071
Mn	55	3	He	39.45	0.3703	14736.71	0.0091	0.01071
Fe	57	3	He	517.444	0.2151	8592.59	0.0004	0.008452
Fe	57	3	He	521.308	0.2166	8632.59	0.0004	0.008452
Fe	57	3	He	529.543	0.2199	8752.58	0.0004	0.008452
Co	59	3	He	0.035	0.0075	298.00	0.0413	0.006013
Co	59	3	He	0.062	0.0086	342.01	0.0413	0.006013
Co	59	3	He	0.053	0.0082	326.01	0.0413	0.006013
Ni	60	3	He	-0.136	0.0101	404.01	0.0117	0.01172
Ni	60	3	He	-0.13	0.0102	406.01	0.0117	0.01172
Ni	60	3	He	-0.129	0.0102	406.01	0.0117	0.01172
Cu	63	3	He	-0.118	0.0121	822.03	0.0196	0.01443
Cu	63	3	He	-0.133	0.0118	804.03	0.0196	0.01443
Cu	63	3	He	-0.134	0.0118	800.02	0.0196	0.01443
Zn	66	3	He	6.717	0.0181	1226.05	0.0023	0.002807
Zn	66	3	He	6.367	0.0173	1174.05	0.0023	0.002807
Zn	66	3	He	7.528	0.0199	1348.07	0.0023	0.002807
As	75	3	He	1.456	0.004	268.00	0.0018	0.001271
As	75	3	He	1.772	0.0045	308.00	0.0018	0.001271
As	75	3	He	1.589	0.0042	284.00	0.0018	0.001271
Sr	88	3	He	71.476	0.5884	31501.87	0.0082	0.00114
Sr	88	3	He	71.4	0.5878	31462.08	0.0082	0.00114
Sr	88	3	He	69.034	0.5683	30079.33	0.0082	0.00114
Mo	98	3	He	0.347	0.0077	410.02	0.0177	0.001504
Mo	98	3	He	0.4	0.0086	460.02	0.0177	0.001504
Mo	98	3	He	0.352	0.0077	410.02	0.0177	0.001504
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.197	0.0134	720.04	0.0126	0.01097
Sn	120	3	He	0.316	0.0149	800.05	0.0126	0.01097
Sn	120	3	He	0.3	0.0147	780.05	0.0126	0.01097
Sb	121	3	He	0.017	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.006	0.0004	23.33	0.012	0.0003595
Sb	121	3	He	-0.009	0.0003	13.33	0.012	0.0003595
Ba	137	3	He	230.498	0.8997	48166.43	0.0039	0.0003633
Ba	137	3	He	226.605	0.8845	47343.91	0.0039	0.0003633
Ba	137	3	He	232.243	0.9065	47975.65	0.0039	0.0003633
Tl	205	3	He	-0.032	0.0007	140.01	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.038	0.0006	120.00	0.0189	0.001334
Pb	208	3	He	0.169	0.0058	610.04	0.0252	0.001497
Pb	208	3	He	0.166	0.0057	580.03	0.0252	0.001497
Pb	208	3	He	0.179	0.006	610.04	0.0252	0.001497
U	238	3	He	0.465	0.0115	2220.25	0.0245	0.0001141
U	238	3	He	0.539	0.0134	2590.33	0.0245	0.0001141
U	238	3	He	0.532	0.0132	2570.35	0.0245	0.0001141
Sc	45	1	No Gas			1643316.38		
Sc	45	1	No Gas			1691394.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1665568.88		
Ge	72	1	No Gas			838349.75		
Ge	72	1	No Gas			850860.07		
Ge	72	1	No Gas			837348.74		
Sc	45	2	H2			128440.05		
Sc	45	2	H2			131674.63		
Sc	45	2	H2			133781.04		
Ge	72	2	H2			99083.96		
Ge	72	2	H2			99356.90		
Ge	72	2	H2			98832.44		
In	115	2	H2			245050.48		
In	115	2	H2			242449.39		
In	115	2	H2			242368.67		
Sc	45	3	He			39949.35		
Sc	45	3	He			39849.42		
Sc	45	3	He			39799.19		
Ge	72	3	He			67834.42		
Ge	72	3	He			67954.46		
Ge	72	3	He			67682.78		
In	115	3	He			53542.72		
In	115	3	He			53532.73		
In	115	3	He			52930.73		
Tb	159	3	He			192765.27		
Tb	159	3	He			193994.31		
Tb	159	3	He			195217.11		
Bi	209	3	He			144651.61		
Bi	209	3	He			141501.37		
Bi	209	3	He			141813.68		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

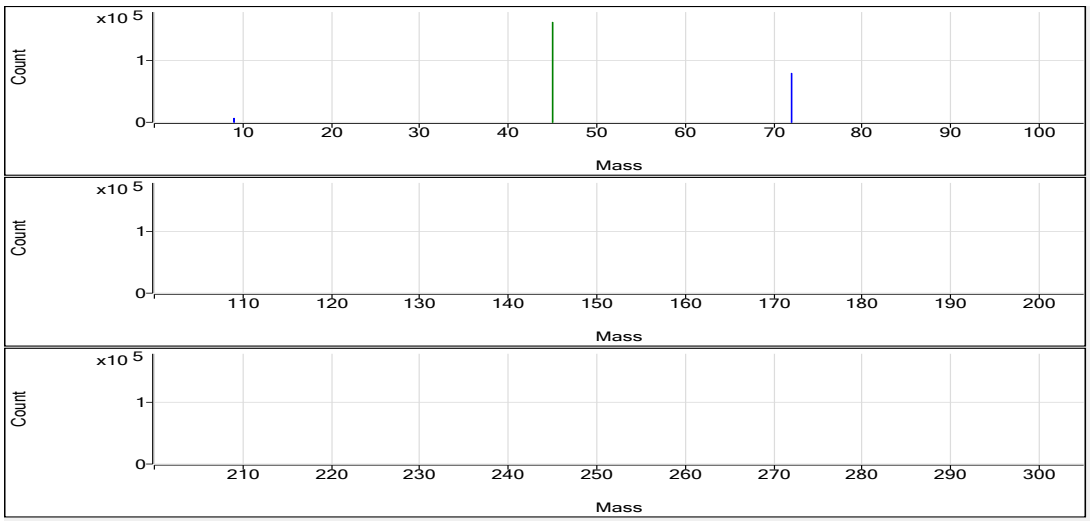
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.928	ppb	5.4	13754.97	0.0084	Pulse	0.5000	3
Se	78	72	H2	25.298	ppb	1.7	951.81	0.0099	Pulse	1.5000	3
Na	23	45	He	2432.884	ppb	3.0	269519.91	6.8147	Pulse	0.1000	3
Mg	24	45	He	2540.929	ppb	2.3	122731.83	3.1029	Pulse	0.1000	3
Al	27	45	He	2493.567	ppb	1.4	37409.39	0.9457	Pulse	0.1000	3
K	39	45	He	2564.844	ppb	5.9	121664.21	3.0774	Pulse	0.5000	3
Ca	44	45	He	2629.071	ppb	1.2	5651.00	0.1428	Pulse	0.5000	3
Ti	47	45	He	2565.597	ppb	2.4	41517.50	1.0497	Pulse	0.5000	3
V	51	45	He	254.800	ppb	2.1	178292.29	4.5076	Pulse	0.5000	3
Cr	52	45	He	253.105	ppb	2.4	219486.28	5.5492	Pulse	0.1000	3
Mn	55	45	He	255.248	ppb	3.1	92429.13	2.3372	Pulse	0.5000	3
Fe	57	45	He	2524.347	ppb	3.7	40200.52	1.0165	Pulse	0.1000	3
Co	59	45	He	251.861	ppb	2.8	411508.52	10.4050	Pulse	0.5000	3
Ni	60	45	He	251.636	ppb	2.7	117355.66	2.9672	Pulse	0.5000	3
Cu	63	72	He	255.623	ppb	0.6	326247.83	5.0150	Pulse	0.5000	3
Zn	66	72	He	257.589	ppb	0.3	38268.32	0.5882	Pulse	0.5000	3
As	75	72	He	254.783	ppb	0.9	30592.98	0.4703	Pulse	0.5000	3
Sr	88	115	He	23.925	ppb	2.9	10597.19	0.1977	Pulse	0.1000	3
Mo	98	115	He	24.944	ppb	5.1	23751.83	0.4433	Pulse	0.1000	3
Ag	107	115	He	24.926	ppb	1.3	49211.34	0.9179	Pulse	0.1000	3
Cd	111	115	He	25.863	ppb	1.3	5691.06	0.1061	Pulse	0.5000	3
Sn	120	115	He	24.664	ppb	2.5	17230.09	0.3214	Pulse	0.1000	3
Sb	121	115	He	25.048	ppb	1.8	16194.10	0.3021	Pulse	0.3000	3
Ba	137	115	He	248.148	ppb	2.4	51915.25	0.9685	Pulse	0.1000	3
Tl	205	159	He	24.704	ppb	2.0	91022.75	0.4692	Pulse	0.1000	3
Pb	208	159	He	25.184	ppb	1.3	123190.41	0.6350	Pulse	0.1000	3
U	238	159	He	25.173	ppb	0.8	119899.29	0.6181	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1635517.63	1.9	95.7	Analog	0.1000	3
No Gas	Ge	72	802654.52	1.1	92.9	Pulse	0.1000	3
H2	Sc	45	131224.77	0.8	98.2	Pulse	0.1000	3
H2	Ge	72	96381.02	1.7	97.3	Pulse	0.1000	3
H2	In	115	246037.96	0.2	95.9	Pulse	0.1000	3
He	Sc	45	39568.37	2.7	100.2	Pulse	0.1000	3
He	Ge	72	65055.35	0.2	95.5	Pulse	0.1000	3
He	In	115	53622.73	2.4	96.8	Pulse	0.1000	3
He	Tb	159	193990.17	0.3	94.7	Pulse	0.1000	3
He	Bi	209	141116.84	1.3	93.3	Pulse	0.1000	3

No Gas



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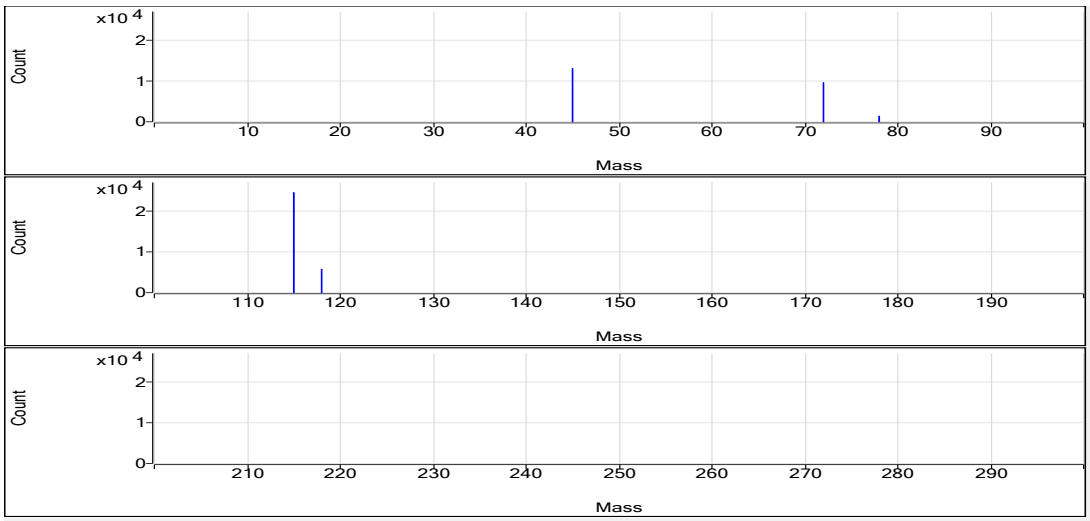
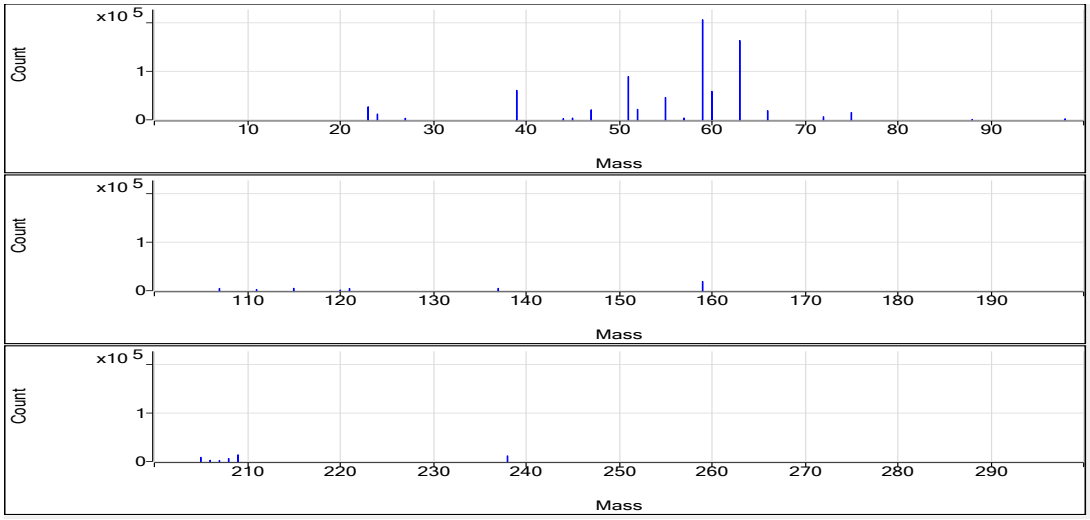


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.6	0.008	13237.23	0.0003	2.616E-05
Be	9	1	No Gas	24.895	0.0084	13827.68	0.0003	2.616E-05
Be	9	1	No Gas	26.288	0.0089	14199.99	0.0003	2.616E-05
Se	78	2	H2	24.815	0.0097	916.03	0.0004	6.3E-05
Se	78	2	H2	25.538	0.01	966.70	0.0004	6.3E-05
Se	78	2	H2	25.54	0.01	972.70	0.0004	6.3E-05
Na	23	3	He	2513.796	7.0164	269186.54	0.0025	0.7502
Na	23	3	He	2410.461	6.7588	270347.93	0.0025	0.7502
Na	23	3	He	2374.395	6.6689	269025.27	0.0025	0.7502
Mg	24	3	He	2598.745	3.1729	121731.07	0.0012	0.02618
Mg	24	3	He	2540.584	3.1025	124098.62	0.0012	0.02618
Mg	24	3	He	2483.458	3.0333	122365.80	0.0012	0.02618
Al	27	3	He	2528.193	0.9587	36781.46	0.0004	0.005329
Al	27	3	He	2496.092	0.9466	37863.78	0.0004	0.005329
Al	27	3	He	2456.417	0.9316	37582.93	0.0004	0.005329
K	39	3	He	2731.796	3.2432	124426.93	0.001	0.5307
K	39	3	He	2525.432	3.0383	121529.97	0.001	0.5307
K	39	3	He	2437.305	2.9508	119035.73	0.001	0.5307
Ca	44	3	He	2655.354	0.1442	5532.96	0.0001	0.004441
Ca	44	3	He	2593.798	0.141	5639.00	0.0001	0.004441
Ca	44	3	He	2638.061	0.1433	5781.05	0.0001	0.004441
Ti	47	3	He	2635.911	1.0785	41375.78	0.0004	0.0004559
Ti	47	3	He	2540.934	1.0396	41584.28	0.0004	0.0004559
Ti	47	3	He	2519.946	1.031	41592.43	0.0004	0.0004559
V	51	3	He	260.892	4.6148	177048.06	0.0176	0.02609
V	51	3	He	253.16	4.4788	179148.78	0.0176	0.02609
V	51	3	He	250.347	4.4293	178680.02	0.0176	0.02609
Cr	52	3	He	259.257	5.6829	218026.05	0.0217	0.05061
Cr	52	3	He	252.946	5.5458	221827.75	0.0217	0.05061
Cr	52	3	He	247.111	5.419	218605.04	0.0217	0.05061
Mn	55	3	He	263.55	2.4129	92570.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	254.667	2.3319	93273.81	0.0091	0.01071
Mn	55	3	He	247.527	2.2668	91443.58	0.0091	0.01071
Fe	57	3	He	2601.47	1.0473	40180.73	0.0004	0.008452
Fe	57	3	He	2550.16	1.0268	41072.43	0.0004	0.008452
Fe	57	3	He	2421.411	0.9754	39348.41	0.0004	0.008452
Co	59	3	He	259.543	10.7222	411361.06	0.0413	0.006013
Co	59	3	He	250.25	10.3385	413533.84	0.0413	0.006013
Co	59	3	He	245.791	10.1544	409630.66	0.0413	0.006013
Ni	60	3	He	258.363	3.0462	116869.42	0.0117	0.01172
Ni	60	3	He	251.747	2.9685	118738.87	0.0117	0.01172
Ni	60	3	He	244.799	2.8869	116458.70	0.0117	0.01172
Cu	63	3	He	257.193	5.0457	327523.31	0.0196	0.01443
Cu	63	3	He	255.71	5.0167	326796.84	0.0196	0.01443
Cu	63	3	He	253.966	4.9825	324423.34	0.0196	0.01443
Zn	66	3	He	256.836	0.5865	38072.61	0.0023	0.002807
Zn	66	3	He	258.454	0.5902	38447.35	0.0023	0.002807
Zn	66	3	He	257.478	0.588	38285.01	0.0023	0.002807
As	75	3	He	255.799	0.4721	30647.08	0.0018	0.001271
As	75	3	He	252.168	0.4654	30320.45	0.0018	0.001271
As	75	3	He	256.382	0.4732	30811.42	0.0018	0.001271
Sr	88	3	He	24.431	0.2019	10723.96	0.0082	0.00114
Sr	88	3	He	24.194	0.1999	10523.77	0.0082	0.00114
Sr	88	3	He	23.149	0.1913	10543.85	0.0082	0.00114
Mo	98	3	He	25.676	0.4563	24239.17	0.0177	0.001504
Mo	98	3	He	25.688	0.4565	24028.92	0.0177	0.001504
Mo	98	3	He	23.467	0.4171	22987.40	0.0177	0.001504
Ag	107	3	He	25.015	0.9212	48937.09	0.0368	0.001325
Ag	107	3	He	25.194	0.9278	48836.88	0.0368	0.001325
Ag	107	3	He	24.569	0.9048	49860.06	0.0368	0.001325
Cd	111	3	He	25.671	0.1054	5597.03	0.0041	4.798E-05
Cd	111	3	He	26.251	0.1077	5671.05	0.0041	4.798E-05
Cd	111	3	He	25.667	0.1053	5805.10	0.0041	4.798E-05
Sn	120	3	He	24.388	0.3179	16889.68	0.0126	0.01097
Sn	120	3	He	25.361	0.3302	17380.15	0.0126	0.01097
Sn	120	3	He	24.244	0.3161	17420.44	0.0126	0.01097
Sb	121	3	He	25.226	0.3042	16161.87	0.012	0.0003595
Sb	121	3	He	25.38	0.3061	16111.77	0.012	0.0003595
Sb	121	3	He	24.538	0.2959	16308.66	0.012	0.0003595
Ba	137	3	He	250.06	0.976	51848.18	0.0039	0.0003633
Ba	137	3	He	252.905	0.9871	51959.00	0.0039	0.0003633
Ba	137	3	He	241.478	0.9425	51938.58	0.0039	0.0003633
Tl	205	3	He	25.206	0.4787	92592.75	0.0189	0.001334
Tl	205	3	He	24.671	0.4686	91033.03	0.0189	0.001334
Tl	205	3	He	24.235	0.4603	89442.48	0.0189	0.001334
Pb	208	3	He	25.485	0.6426	66150.73	0.0252	0.001497
Pb	208	3	He	25.219	0.6359	66100.12	0.0252	0.001497
Pb	208	3	He	24.847	0.6266	65165.64	0.0252	0.001497
U	238	3	He	25.191	0.6185	119627.72	0.0245	0.0001141
U	238	3	He	25.368	0.6229	120998.25	0.0245	0.0001141
U	238	3	He	24.96	0.6128	119071.90	0.0245	0.0001141
Sc	45	1	No Gas			1661114.98		
Sc	45	1	No Gas			1645186.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1600251.38		
Ge	72	1	No Gas			806596.94		
Ge	72	1	No Gas			808729.21		
Ge	72	1	No Gas			792637.41		
Sc	45	2	H2			130114.59		
Sc	45	2	H2			131522.83		
Sc	45	2	H2			132036.89		
Ge	72	2	H2			94567.25		
Ge	72	2	H2			96991.45		
Ge	72	2	H2			97584.36		
In	115	2	H2			245710.56		
In	115	2	H2			245790.17		
In	115	2	H2			246613.16		
Sc	45	3	He			38365.42		
Sc	45	3	He			39999.40		
Sc	45	3	He			40340.30		
Ge	72	3	He			64911.74		
Ge	72	3	He			65142.31		
Ge	72	3	He			65112.00		
In	115	3	He			53241.57		
In	115	3	He			52759.91		
In	115	3	He			55228.53		
Tb	159	3	He			193411.25		
Tb	159	3	He			194265.39		
Tb	159	3	He			194293.86		
Bi	209	3	He			143157.39		
Bi	209	3	He			140238.20		
Bi	209	3	He			139954.92		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
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Sample Name	CCB 7996167
Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

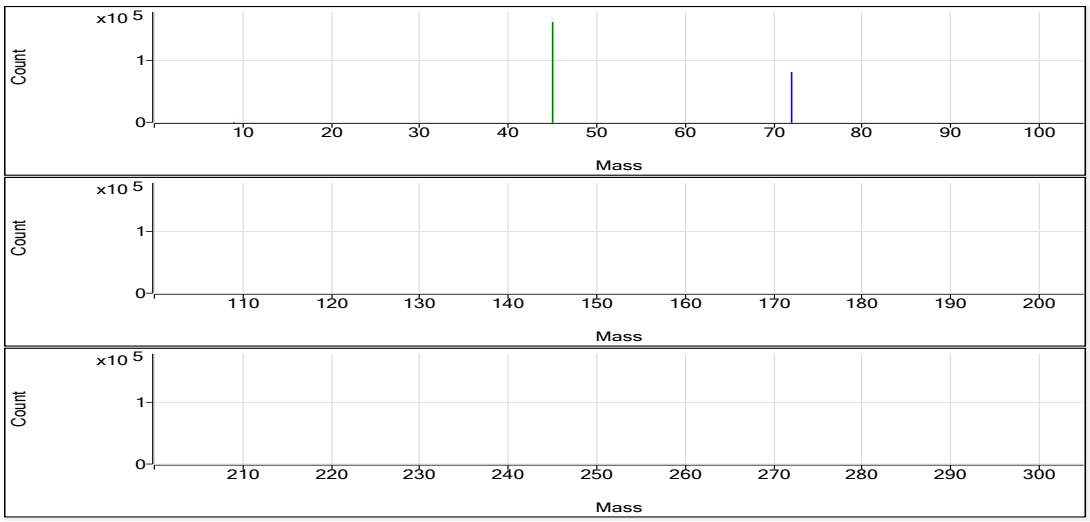
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.016	ppb	N/A	34.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.060	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	-112.286	ppb	N/A	18063.52	0.4703	Pulse	0.1000	3
Mg	24	45	He	-9.581	ppb	N/A	560.03	0.0146	Pulse	0.1000	3
Al	27	45	He	-3.755	ppb	N/A	150.00	0.0039	Pulse	0.1000	3
K	39	45	He	-0.313	ppb	N/A	20359.39	0.5304	Pulse	0.5000	3
Ca	44	45	He	-5.188	ppb	N/A	160.00	0.0042	Pulse	0.5000	3
Ti	47	45	He	-0.309	ppb	N/A	12.67	0.0003	Pulse	0.5000	3
V	51	45	He	-0.105	ppb	N/A	930.70	0.0243	Pulse	0.5000	3
Cr	52	45	He	-0.196	ppb	N/A	1780.16	0.0464	Pulse	0.1000	3
Mn	55	45	He	-0.210	ppb	N/A	337.34	0.0088	Pulse	0.5000	3
Fe	57	45	He	-9.429	ppb	N/A	180.01	0.0047	Pulse	0.1000	3
Co	59	45	He	-0.022	ppb	N/A	195.33	0.0051	Pulse	0.5000	3
Ni	60	45	He	-0.189	ppb	N/A	364.68	0.0095	Pulse	0.5000	3
Cu	63	72	He	-0.285	ppb	N/A	582.68	0.0089	Pulse	0.5000	3
Zn	66	72	He	0.051	ppb	238.4	192.00	0.0029	Pulse	0.5000	3
As	75	72	He	0.727	ppb	26.2	171.33	0.0026	Pulse	0.5000	3
Sr	88	115	He	-0.061	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Mo	98	115	He	-0.053	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Ag	107	115	He	-0.014	ppb	N/A	43.33	0.0008	Pulse	0.1000	3
Cd	111	115	He	0.000	ppb	1026.4	2.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.264	ppb	N/A	406.69	0.0076	Pulse	0.1000	3
Sb	121	115	He	0.017	ppb	7.7	30.00	0.0006	Pulse	0.3000	3
Ba	137	115	He	0.022	ppb	539.2	23.33	0.0004	Pulse	0.1000	3
Tl	205	159	He	-0.031	ppb	N/A	140.01	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.018	ppb	N/A	200.00	0.0011	Pulse	0.1000	3
U	238	159	He	0.004	ppb	92.2	40.00	0.0002	Pulse	0.1000	3

ISTD Table:

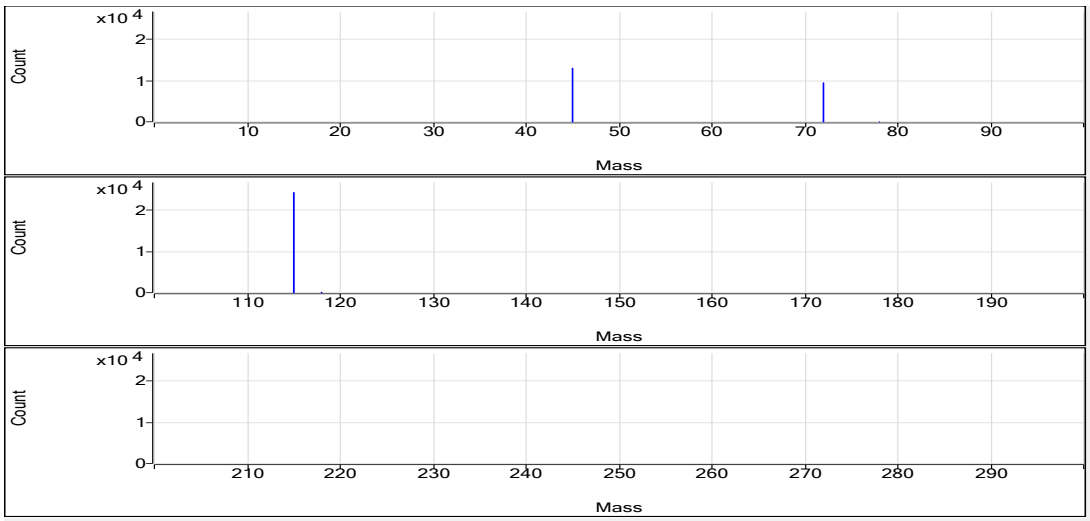
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1630883.52	2.0	95.5	Analog	0.1000	3
No Gas	Ge	72	815275.09	1.1	94.4	Pulse	0.1000	3
H2	Sc	45	130912.50	1.7	98.0	Pulse	0.1000	3
H2	Ge	72	94892.75	1.2	95.8	Pulse	0.1000	3
H2	In	115	243800.24	0.8	95.0	Pulse	0.1000	3
He	Sc	45	38408.99	1.3	97.3	Pulse	0.1000	3
He	Ge	72	65745.18	1.8	96.5	Pulse	0.1000	3
He	In	115	53031.65	2.8	95.7	Pulse	0.1000	3
He	Tb	159	189445.03	1.1	92.5	Pulse	0.1000	3
He	Bi	209	140057.04	1.9	92.6	Pulse	0.1000	3

No Gas

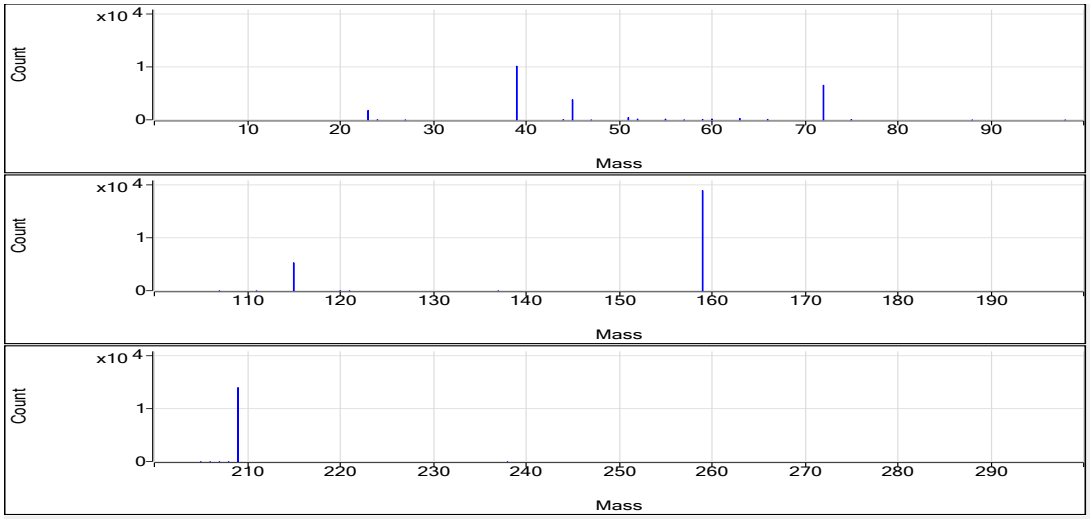


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.014	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Se	78	2	H2	-0.072	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.107	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.001	0.0001	6.00	0.0004	6.3E-05
Na	23	3	He	-114.334	0.4652	17809.83	0.0025	0.7502
Na	23	3	He	-111.21	0.473	17970.16	0.0025	0.7502
Na	23	3	He	-111.313	0.4727	18410.56	0.0025	0.7502
Mg	24	3	He	-11.268	0.0125	480.02	0.0012	0.02618
Mg	24	3	He	-8.363	0.0161	610.03	0.0012	0.02618
Mg	24	3	He	-9.111	0.0151	590.03	0.0012	0.02618
Al	27	3	He	-7.206	0.0026	100.00	0.0004	0.005329
Al	27	3	He	1.223	0.0058	220.01	0.0004	0.005329
Al	27	3	He	-5.281	0.0033	130.00	0.0004	0.005329
K	39	3	He	79.697	0.6098	23346.61	0.001	0.5307
K	39	3	He	-21.334	0.5095	19357.34	0.001	0.5307
K	39	3	He	-59.301	0.4718	18374.21	0.001	0.5307
Ca	44	3	He	-10.927	0.0039	148.00	0.0001	0.004441
Ca	44	3	He	3.636	0.0046	176.00	0.0001	0.004441
Ca	44	3	He	-8.271	0.004	156.00	0.0001	0.004441
Ti	47	3	He	0.418	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	-0.857	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.487	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.067	0.0249	954.03	0.0176	0.02609
V	51	3	He	0.016	0.0264	1002.04	0.0176	0.02609
V	51	3	He	-0.263	0.0215	836.03	0.0176	0.02609
Cr	52	3	He	-0.334	0.0434	1660.14	0.0217	0.05061
Cr	52	3	He	-0.052	0.0495	1880.19	0.0217	0.05061
Cr	52	3	He	-0.202	0.0462	1800.16	0.0217	0.05061
Mn	55	3	He	-0.183	0.009	346.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.095	0.0098	374.01	0.0091	0.01071
Mn	55	3	He	-0.352	0.0075	292.00	0.0091	0.01071
Fe	57	3	He	-9.392	0.0047	180.01	0.0004	0.008452
Fe	57	3	He	-9.302	0.0047	180.01	0.0004	0.008452
Fe	57	3	He	-9.592	0.0046	180.01	0.0004	0.008452
Co	59	3	He	-0.025	0.005	190.00	0.0413	0.006013
Co	59	3	He	-0.004	0.0058	222.00	0.0413	0.006013
Co	59	3	He	-0.037	0.0045	174.00	0.0413	0.006013
Ni	60	3	He	-0.148	0.01	382.01	0.0117	0.01172
Ni	60	3	He	-0.182	0.0096	364.01	0.0117	0.01172
Ni	60	3	He	-0.237	0.0089	348.01	0.0117	0.01172
Cu	63	3	He	-0.29	0.0088	564.01	0.0196	0.01443
Cu	63	3	He	-0.278	0.009	598.01	0.0196	0.01443
Cu	63	3	He	-0.287	0.0088	586.02	0.0196	0.01443
Zn	66	3	He	0.173	0.0032	206.00	0.0023	0.002807
Zn	66	3	He	-0.07	0.0026	176.00	0.0023	0.002807
Zn	66	3	He	0.051	0.0029	194.00	0.0023	0.002807
As	75	3	He	0.896	0.0029	188.00	0.0018	0.001271
As	75	3	He	0.764	0.0027	178.00	0.0018	0.001271
As	75	3	He	0.521	0.0022	148.00	0.0018	0.001271
Sr	88	3	He	-0.094	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.093	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	0.003	0.0012	60.00	0.0082	0.00114
Mo	98	3	He	-0.054	0.0005	30.00	0.0177	0.001504
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.063	0.0004	20.00	0.0177	0.001504
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.114	0.0095	520.03	0.0126	0.01097
Sn	120	3	He	-0.346	0.0066	350.01	0.0126	0.01097
Sn	120	3	He	-0.332	0.0068	350.02	0.0126	0.01097
Sb	121	3	He	0.016	0.0005	30.00	0.012	0.0003595
Sb	121	3	He	0.017	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Ba	137	3	He	-0.046	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	-0.045	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.155	0.001	50.00	0.0039	0.0003633
Tl	205	3	He	-0.024	0.0009	170.01	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.031	0.0007	140.01	0.0189	0.001334
Pb	208	3	He	-0.024	0.0009	80.00	0.0252	0.001497
Pb	208	3	He	-0.011	0.0012	180.01	0.0252	0.001497
Pb	208	3	He	-0.017	0.0011	100.00	0.0252	0.001497
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1614006.23		
Sc	45	1	No Gas			1667803.26		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1610841.07		
Ge	72	1	No Gas			812443.27		
Ge	72	1	No Gas			824956.78		
Ge	72	1	No Gas			808425.22		
Sc	45	2	H2			129125.61		
Sc	45	2	H2			130162.76		
Sc	45	2	H2			133449.12		
Ge	72	2	H2			94828.30		
Ge	72	2	H2			93813.70		
Ge	72	2	H2			96036.26		
In	115	2	H2			243282.77		
In	115	2	H2			242064.12		
In	115	2	H2			246053.82		
Sc	45	3	He			38285.83		
Sc	45	3	He			37994.47		
Sc	45	3	He			38946.67		
Ge	72	3	He			64369.47		
Ge	72	3	He			66478.46		
Ge	72	3	He			66387.60		
In	115	3	He			54556.24		
In	115	3	He			52980.65		
In	115	3	He			51566.61		
Tb	159	3	He			191551.54		
Tb	159	3	He			189444.57		
Tb	159	3	He			187338.98		
Bi	209	3	He			140187.29		
Bi	209	3	He			142642.15		
Bi	209	3	He			137341.69		

Quantitation Report

Data File Name	227SMPL.d
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Acq Time	7/10/2025 6:18:28 PM
Sample Name	410-229106-E-1-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

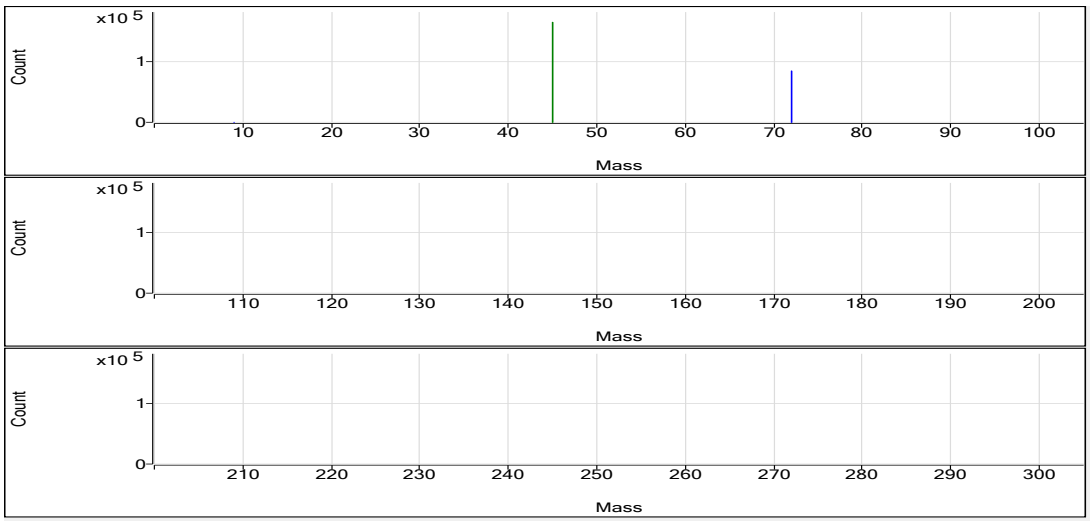
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.106	ppb	22.9	102.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.212	ppb	9.2	14.44	0.0001	Pulse	1.5000	3
Na	23	45	He	3693.022	ppb	1.3	390420.79	9.9559	Pulse	0.1000	3
Mg	24	45	He	1686.832	ppb	1.7	81120.76	2.0687	Pulse	0.1000	3
Al	27	45	He	117.860	ppb	16.8	1953.52	0.0498	Pulse	0.1000	3
K	39	45	He	1251.301	ppb	7.0	69515.07	1.7731	Pulse	0.5000	3
Ca	44	45	He	2047.413	ppb	1.1	4400.61	0.1122	Pulse	0.5000	3
Ti	47	45	He	0.213	ppb	201.1	21.33	0.0005	Pulse	0.5000	3
V	51	45	He	-0.167	ppb	N/A	908.03	0.0232	Pulse	0.5000	3
Cr	52	45	He	-0.177	ppb	N/A	1833.50	0.0468	Pulse	0.1000	3
Mn	55	45	He	36.800	ppb	2.1	13573.02	0.3461	Pulse	0.5000	3
Fe	57	45	He	41.437	ppb	8.3	980.06	0.0250	Pulse	0.1000	3
Co	59	45	He	0.755	ppb	7.3	1458.08	0.0372	Pulse	0.5000	3
Ni	60	45	He	0.685	ppb	9.8	775.35	0.0198	Pulse	0.5000	3
Cu	63	72	He	-0.187	ppb	N/A	728.02	0.0108	Pulse	0.5000	3
Zn	66	72	He	3.439	ppb	10.8	718.02	0.0106	Pulse	0.5000	3
As	75	72	He	0.878	ppb	33.5	195.33	0.0029	Pulse	0.5000	3
Sr	88	115	He	9.512	ppb	3.9	4234.03	0.0793	Pulse	0.1000	3
Mo	98	115	He	-0.035	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Ag	107	115	He	-0.016	ppb	N/A	40.00	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.013	ppb	41.0	5.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	3.218	ppb	5.0	2747.02	0.0515	Pulse	0.1000	3
Sb	121	115	He	0.022	ppb	72.5	33.33	0.0006	Pulse	0.3000	3
Ba	137	115	He	62.229	ppb	4.0	12975.86	0.2432	Pulse	0.1000	3
Tl	205	159	He	-0.029	ppb	N/A	150.01	0.0008	Pulse	0.1000	3
Pb	208	159	He	0.063	ppb	22.9	593.36	0.0031	Pulse	0.1000	3
U	238	159	He	0.016	ppb	40.2	96.67	0.0005	Pulse	0.1000	3

ISTD Table:

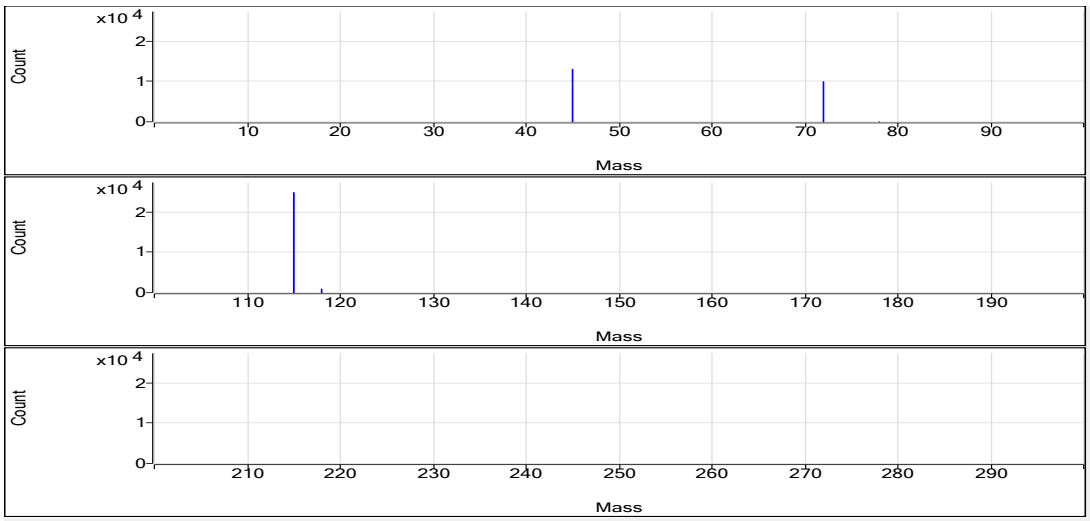
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1648201.64	0.5	96.5	Analog	0.1000	3
No Gas	Ge	72	846572.83	0.6	98.0	Pulse	0.1000	3
H2	Sc	45	130687.19	0.3	97.8	Pulse	0.1000	3
H2	Ge	72	99483.10	0.1	100.4	Pulse	0.1000	3
H2	In	115	248582.90	0.5	96.8	Pulse	0.1000	3
He	Sc	45	39217.52	1.0	99.4	Pulse	0.1000	3
He	Ge	72	67542.32	2.4	99.2	Pulse	0.1000	3
He	In	115	53383.19	1.4	96.4	Pulse	0.1000	3
He	Tb	159	191722.86	0.6	93.6	Pulse	0.1000	3
He	Bi	209	143765.98	1.6	95.0	Pulse	0.1000	3

No Gas

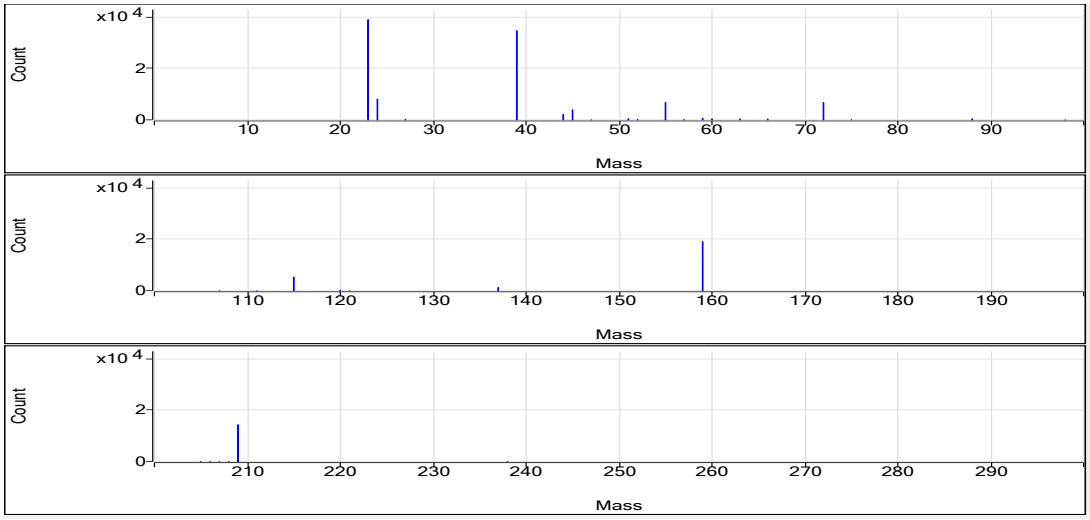


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.121	0.0001	110.00	0.0003	2.616E-05
Be	9	1	No Gas	0.078	0.0001	86.00	0.0003	2.616E-05
Be	9	1	No Gas	0.12	0.0001	110.00	0.0003	2.616E-05
Se	78	2	H2	0.201	0.0001	14.00	0.0004	6.3E-05
Se	78	2	H2	0.2	0.0001	14.00	0.0004	6.3E-05
Se	78	2	H2	0.235	0.0002	15.33	0.0004	6.3E-05
Na	23	3	He	3729.319	10.0463	389360.70	0.0025	0.7502
Na	23	3	He	3709.145	9.9961	393822.96	0.0025	0.7502
Na	23	3	He	3640.601	9.8252	388078.71	0.0025	0.7502
Mg	24	3	He	1720.158	2.1091	81740.35	0.0012	0.02618
Mg	24	3	He	1675.598	2.0551	80967.30	0.0012	0.02618
Mg	24	3	He	1664.742	2.042	80654.63	0.0012	0.02618
Al	27	3	He	102.879	0.0441	1710.14	0.0004	0.005329
Al	27	3	He	110.401	0.047	1850.19	0.0004	0.005329
Al	27	3	He	140.299	0.0582	2300.24	0.0004	0.005329
K	39	3	He	1349.755	1.8709	72509.59	0.001	0.5307
K	39	3	He	1223.123	1.7452	68755.70	0.001	0.5307
K	39	3	He	1181.024	1.7034	67279.93	0.001	0.5307
Ca	44	3	He	2066.789	0.1132	4388.61	0.0001	0.004441
Ca	44	3	He	2022.121	0.1109	4368.60	0.0001	0.004441
Ca	44	3	He	2053.329	0.1125	4444.63	0.0001	0.004441
Ti	47	3	He	-0.231	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	0.623	0.0007	28.00	0.0004	0.0004559
Ti	47	3	He	0.247	0.0006	22.00	0.0004	0.0004559
V	51	3	He	-0.152	0.0234	908.03	0.0176	0.02609
V	51	3	He	-0.159	0.0233	918.03	0.0176	0.02609
V	51	3	He	-0.191	0.0227	898.03	0.0176	0.02609
Cr	52	3	He	-0.025	0.0501	1940.18	0.0217	0.05061
Cr	52	3	He	-0.355	0.0429	1690.15	0.0217	0.05061
Cr	52	3	He	-0.15	0.0473	1870.18	0.0217	0.05061
Mn	55	3	He	37.33	0.351	13601.72	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	37.149	0.3493	13761.83	0.0091	0.01071
Mn	55	3	He	35.923	0.3381	13355.52	0.0091	0.01071
Fe	57	3	He	45.389	0.0266	1030.06	0.0004	0.008452
Fe	57	3	He	39.856	0.0244	960.06	0.0004	0.008452
Fe	57	3	He	39.067	0.0241	950.06	0.0004	0.008452
Co	59	3	He	0.794	0.0388	1504.08	0.0413	0.006013
Co	59	3	He	0.779	0.0382	1504.08	0.0413	0.006013
Co	59	3	He	0.692	0.0346	1366.07	0.0413	0.006013
Ni	60	3	He	0.615	0.0189	734.02	0.0117	0.01172
Ni	60	3	He	0.749	0.0205	808.02	0.0117	0.01172
Ni	60	3	He	0.692	0.0198	784.02	0.0117	0.01172
Cu	63	3	He	-0.18	0.0109	730.02	0.0196	0.01443
Cu	63	3	He	-0.173	0.011	732.02	0.0196	0.01443
Cu	63	3	He	-0.206	0.0104	722.02	0.0196	0.01443
Zn	66	3	He	3.024	0.0097	648.02	0.0023	0.002807
Zn	66	3	He	3.557	0.0109	722.02	0.0023	0.002807
Zn	66	3	He	3.737	0.0113	784.02	0.0023	0.002807
As	75	3	He	0.543	0.0023	152.00	0.0018	0.001271
As	75	3	He	0.998	0.0031	206.00	0.0018	0.001271
As	75	3	He	1.095	0.0033	228.00	0.0018	0.001271
Sr	88	3	He	9.101	0.0759	4010.64	0.0082	0.00114
Sr	88	3	He	9.83	0.0819	4440.75	0.0082	0.00114
Sr	88	3	He	9.604	0.08	4250.71	0.0082	0.00114
Mo	98	3	He	-0.01	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	-0.054	0.0006	30.00	0.0177	0.001504
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Ag	107	3	He	-0.005	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.015	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	3.4	0.0538	2840.37	0.0126	0.01097
Sn	120	3	He	3.159	0.0507	2750.36	0.0126	0.01097
Sn	120	3	He	3.094	0.0499	2650.32	0.0126	0.01097
Sb	121	3	He	0.023	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	0.006	0.0004	23.33	0.012	0.0003595
Sb	121	3	He	0.038	0.0008	43.33	0.012	0.0003595
Ba	137	3	He	64.461	0.2519	13306.19	0.0039	0.0003633
Ba	137	3	He	59.594	0.2329	12625.61	0.0039	0.0003633
Ba	137	3	He	62.632	0.2447	12995.79	0.0039	0.0003633
Tl	205	3	He	-0.021	0.0009	180.01	0.0189	0.001334
Tl	205	3	He	-0.035	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.032	0.0007	140.01	0.0189	0.001334
Pb	208	3	He	0.06	0.003	360.02	0.0252	0.001497
Pb	208	3	He	0.079	0.0035	390.02	0.0252	0.001497
Pb	208	3	He	0.051	0.0028	240.01	0.0252	0.001497
U	238	3	He	0.023	0.0007	130.01	0.0245	0.0001141
U	238	3	He	0.014	0.0005	90.00	0.0245	0.0001141
U	238	3	He	0.01	0.0004	70.00	0.0245	0.0001141
Sc	45	1	No Gas			1648766.69		
Sc	45	1	No Gas			1640017.48		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1655820.76		
Ge	72	1	No Gas			842164.13		
Ge	72	1	No Gas			852539.05		
Ge	72	1	No Gas			845015.30		
Sc	45	2	H2			131160.19		
Sc	45	2	H2			130283.89		
Sc	45	2	H2			130617.49		
Ge	72	2	H2			99325.11		
Ge	72	2	H2			99546.78		
Ge	72	2	H2			99577.42		
In	115	2	H2			247395.31		
In	115	2	H2			249698.34		
In	115	2	H2			248655.05		
Sc	45	3	He			38756.44		
Sc	45	3	He			39397.82		
Sc	45	3	He			39498.31		
Ge	72	3	He			66950.02		
Ge	72	3	He			66296.81		
Ge	72	3	He			69380.14		
In	115	3	He			52850.70		
In	115	3	He			54235.31		
In	115	3	He			53121.25		
Tb	159	3	He			192809.14		
Tb	159	3	He			191681.44		
Tb	159	3	He			190677.99		
Bi	209	3	He			145469.02		
Bi	209	3	He			144761.93		
Bi	209	3	He			141066.99		

Quantitation Report

Data File Name	228SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:20:40 PM
Sample Name	410-229106-G-4-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

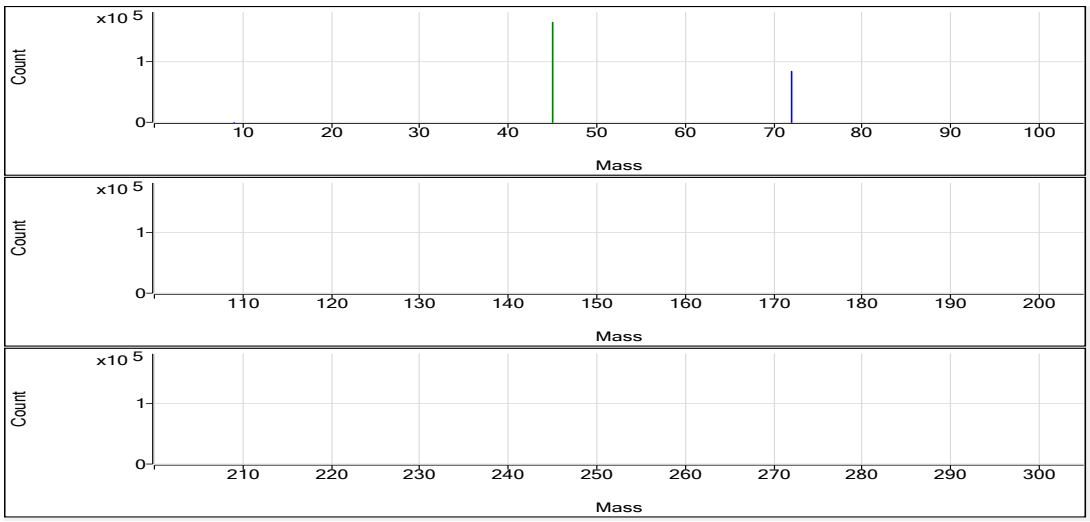
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.167	ppb	39.0	136.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.708	ppb	26.6	33.78	0.0003	Pulse	1.5000	3
Na	23	45	He	13609.777	ppb	2.1	1363443.73	34.6756	Analog	0.1000	3
Mg	24	45	He	21564.292	ppb	0.8	1027881.08	26.1378	Pulse	0.1000	3
Al	27	45	He	396.374	ppb	1.3	6087.96	0.1548	Pulse	0.1000	3
K	39	45	He	2370.258	ppb	4.5	113388.76	2.8842	Pulse	0.5000	3
Ca	44	45	He	63391.258	ppb	1.0	131394.21	3.3413	Pulse	0.5000	3
Ti	47	45	He	-0.484	ppb	N/A	10.00	0.0003	Pulse	0.5000	3
V	51	45	He	-0.167	ppb	N/A	910.70	0.0231	Pulse	0.5000	3
Cr	52	45	He	0.566	ppb	20.7	2473.61	0.0629	Pulse	0.1000	3
Mn	55	45	He	2323.025	ppb	0.8	833053.02	21.1840	Pulse	0.5000	3
Fe	57	45	He	3.292	ppb	172.7	383.35	0.0098	Pulse	0.1000	3
Co	59	45	He	15.812	ppb	0.9	25911.93	0.6589	Pulse	0.5000	3
Ni	60	45	He	9.166	ppb	1.8	4694.70	0.1194	Pulse	0.5000	3
Cu	63	72	He	-0.001	ppb	N/A	984.70	0.0144	Pulse	0.5000	3
Zn	66	72	He	6.354	ppb	5.1	1178.72	0.0172	Pulse	0.5000	3
As	75	72	He	1.196	ppb	7.2	237.33	0.0035	Pulse	0.5000	3
Sr	88	115	He	65.586	ppb	3.8	28075.47	0.5400	Pulse	0.1000	3
Mo	98	115	He	-0.041	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.148	ppb	17.9	34.00	0.0007	Pulse	0.5000	3
Sn	120	115	He	0.275	ppb	4.3	750.04	0.0144	Pulse	0.1000	3
Sb	121	115	He	0.022	ppb	29.3	32.22	0.0006	Pulse	0.3000	3
Ba	137	115	He	18.678	ppb	4.6	3807.28	0.0732	Pulse	0.1000	3
Tl	205	159	He	0.013	ppb	50.0	306.68	0.0016	Pulse	0.1000	3
Pb	208	159	He	-0.004	ppb	N/A	273.34	0.0014	Pulse	0.1000	3
U	238	159	He	0.054	ppb	26.4	280.01	0.0014	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1651935.13	0.9	96.7	Analog	0.1000	3
No Gas	Ge	72	842301.91	0.8	97.5	Pulse	0.1000	3
H2	Sc	45	131682.00	2.0	98.6	Pulse	0.1000	3
H2	Ge	72	100157.10	0.7	101.1	Pulse	0.1000	3
H2	In	115	245615.99	0.8	95.7	Pulse	0.1000	3
He	Sc	45	39327.85	1.5	99.6	Pulse	0.1000	3
He	Ge	72	68358.89	1.2	100.4	Pulse	0.1000	3
He	In	115	52002.44	1.3	93.9	Pulse	0.1000	3
He	Tb	159	194249.35	0.8	94.9	Pulse	0.1000	3
He	Bi	209	143257.72	1.2	94.7	Pulse	0.1000	3

No Gas



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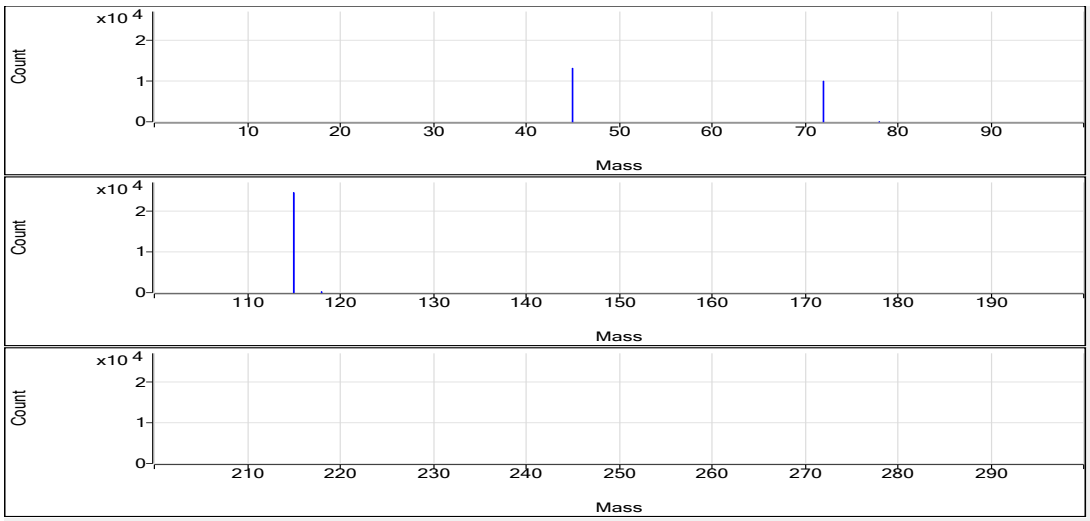
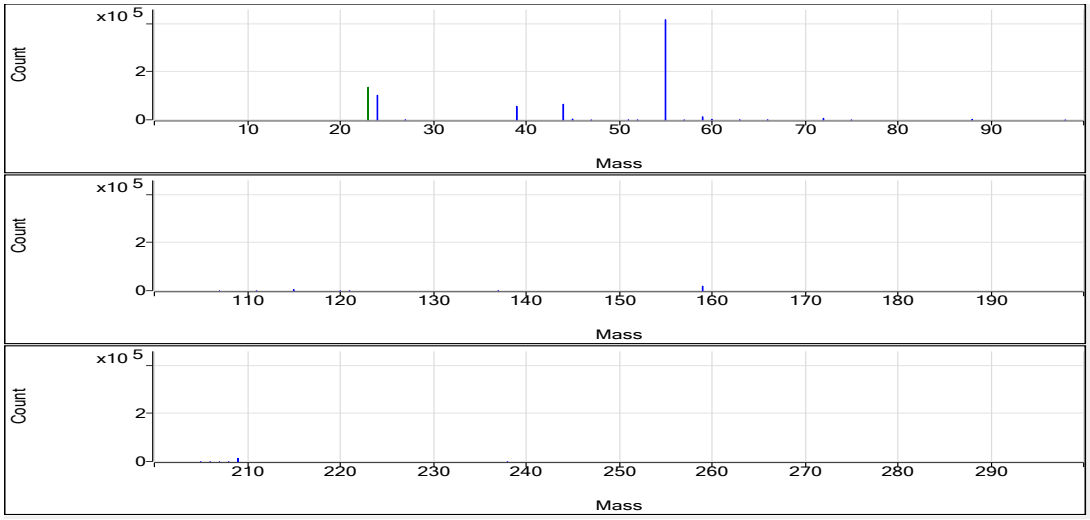


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.164	0.0001	134.00	0.0003	2.616E-05
Be	9	1	No Gas	0.104	0.0001	102.00	0.0003	2.616E-05
Be	9	1	No Gas	0.234	0.0001	172.00	0.0003	2.616E-05
Se	78	2	H2	0.537	0.0003	27.33	0.0004	6.3E-05
Se	78	2	H2	0.676	0.0003	32.67	0.0004	6.3E-05
Se	78	2	H2	0.91	0.0004	41.33	0.0004	6.3E-05
Na	23	3	He	13894.853	35.3862	1372154.35	0.0025	0.7502
Na	23	3	He	13605.806	34.6657	1361238.57	0.0025	0.7502
Na	23	3	He	13328.673	33.9749	1356938.26	0.0025	0.7502
Mg	24	3	He	21634.049	26.2223	1016809.91	0.0012	0.02618
Mg	24	3	He	21680.184	26.2782	1031880.53	0.0012	0.02618
Mg	24	3	He	21378.644	25.913	1034952.80	0.0012	0.02618
Al	27	3	He	400.383	0.1563	6061.33	0.0004	0.005329
Al	27	3	He	390.465	0.1526	5991.22	0.0004	0.005329
Al	27	3	He	398.274	0.1555	6211.34	0.0004	0.005329
K	39	3	He	2466.545	2.9798	115547.18	0.001	0.5307
K	39	3	He	2388.894	2.9027	113982.80	0.001	0.5307
K	39	3	He	2255.334	2.7701	110636.30	0.001	0.5307
Ca	44	3	He	63930.907	3.3697	130666.48	0.0001	0.004441
Ca	44	3	He	63554.654	3.3499	131543.53	0.0001	0.004441
Ca	44	3	He	62688.212	3.3043	131972.61	0.0001	0.004441
Ti	47	3	He	0.777	0.0008	30.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	-0.182	0.0229	888.03	0.0176	0.02609
V	51	3	He	-0.218	0.0223	874.03	0.0176	0.02609
V	51	3	He	-0.103	0.0243	970.04	0.0176	0.02609
Cr	52	3	He	0.698	0.0658	2550.27	0.0217	0.05061
Cr	52	3	He	0.472	0.0609	2390.28	0.0217	0.05061
Cr	52	3	He	0.529	0.0621	2480.28	0.0217	0.05061
Mn	55	3	He	2341.107	21.3488	827833.50	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2325.707	21.2085	832805.63	0.0091	0.01071
Mn	55	3	He	2302.262	20.9948	838519.94	0.0091	0.01071
Fe	57	3	He	9.833	0.0124	480.02	0.0004	0.008452
Fe	57	3	He	0.518	0.0087	340.02	0.0004	0.008452
Fe	57	3	He	-0.474	0.0083	330.02	0.0004	0.008452
Co	59	3	He	15.915	0.6631	25714.30	0.0413	0.006013
Co	59	3	He	15.64	0.6518	25594.05	0.0413	0.006013
Co	59	3	He	15.88	0.6617	26427.43	0.0413	0.006013
Ni	60	3	He	9.025	0.1177	4564.66	0.0117	0.01172
Ni	60	3	He	9.347	0.1215	4770.72	0.0117	0.01172
Ni	60	3	He	9.126	0.1189	4748.71	0.0117	0.01172
Cu	63	3	He	0.049	0.0154	1050.04	0.0196	0.01443
Cu	63	3	He	-0.062	0.0132	916.03	0.0196	0.01443
Cu	63	3	He	0.009	0.0146	988.04	0.0196	0.01443
Zn	66	3	He	6.329	0.0172	1172.05	0.0023	0.002807
Zn	66	3	He	6.045	0.0165	1146.05	0.0023	0.002807
Zn	66	3	He	6.688	0.018	1218.05	0.0023	0.002807
As	75	3	He	1.19	0.0035	236.00	0.0018	0.001271
As	75	3	He	1.114	0.0033	230.00	0.0018	0.001271
As	75	3	He	1.285	0.0036	246.00	0.0018	0.001271
Sr	88	3	He	64.242	0.529	27895.07	0.0082	0.00114
Sr	88	3	He	68.456	0.5636	28997.27	0.0082	0.00114
Sr	88	3	He	64.059	0.5275	27334.08	0.0082	0.00114
Mo	98	3	He	-0.053	0.0006	30.00	0.0177	0.001504
Mo	98	3	He	-0.008	0.0014	70.00	0.0177	0.001504
Mo	98	3	He	-0.063	0.0004	20.00	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.118	0.0005	28.00	0.0041	4.798E-05
Cd	111	3	He	0.159	0.0007	36.00	0.0041	4.798E-05
Cd	111	3	He	0.167	0.0007	38.00	0.0041	4.798E-05
Sn	120	3	He	0.274	0.0144	760.05	0.0126	0.01097
Sn	120	3	He	0.287	0.0146	750.04	0.0126	0.01097
Sn	120	3	He	0.263	0.0143	740.04	0.0126	0.01097
Sb	121	3	He	0.017	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.019	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	17.698	0.0694	3660.54	0.0039	0.0003633
Ba	137	3	He	18.989	0.0745	3830.64	0.0039	0.0003633
Ba	137	3	He	19.347	0.0758	3930.65	0.0039	0.0003633
Tl	205	3	He	0.019	0.0017	330.01	0.0189	0.001334
Tl	205	3	He	0.006	0.0015	280.01	0.0189	0.001334
Tl	205	3	He	0.013	0.0016	310.01	0.0189	0.001334
Pb	208	3	He	-0.012	0.0012	130.01	0.0252	0.001497
Pb	208	3	He	-0.008	0.0013	150.01	0.0252	0.001497
Pb	208	3	He	0.009	0.0017	200.01	0.0252	0.001497
U	238	3	He	0.044	0.0012	230.01	0.0245	0.0001141
U	238	3	He	0.048	0.0013	250.01	0.0245	0.0001141
U	238	3	He	0.07	0.0018	360.02	0.0245	0.0001141
Sc	45	1	No Gas			1649892.01		
Sc	45	1	No Gas			1667571.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1638341.85		
Ge	72	1	No Gas			844812.41		
Ge	72	1	No Gas			847217.17		
Ge	72	1	No Gas			834876.16		
Sc	45	2	H2			133338.54		
Sc	45	2	H2			133035.69		
Sc	45	2	H2			128671.78		
Ge	72	2	H2			100693.17		
Ge	72	2	H2			100432.44		
Ge	72	2	H2			99345.70		
In	115	2	H2			247425.37		
In	115	2	H2			243436.15		
In	115	2	H2			245986.44		
Sc	45	3	He			38776.52		
Sc	45	3	He			39267.59		
Sc	45	3	He			39939.45		
Ge	72	3	He			68174.34		
Ge	72	3	He			69259.96		
Ge	72	3	He			67642.38		
In	115	3	He			52740.02		
In	115	3	He			51456.04		
In	115	3	He			51827.00		
Tb	159	3	He			194357.97		
Tb	159	3	He			192574.29		
Tb	159	3	He			195815.78		
Bi	209	3	He			142016.83		
Bi	209	3	He			142570.95		
Bi	209	3	He			145185.37		

Quantitation Report

Data File Name	229SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:22:51 PM
Sample Name	410-229106-G-6-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

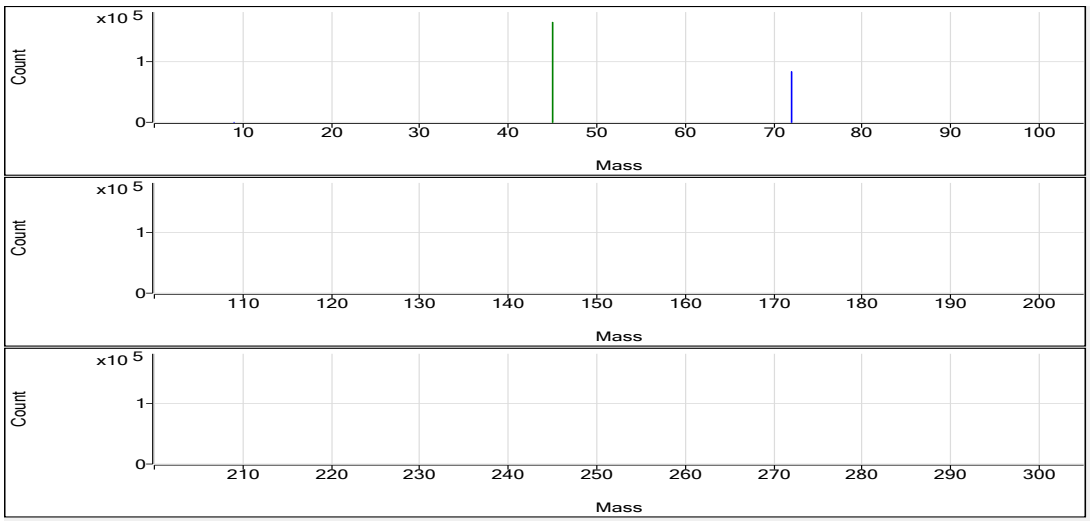
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.007	ppb	265.8	47.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.176	ppb	30.8	12.89	0.0001	Pulse	1.5000	3
Na	23	45	He	17904.696	ppb	1.2	1784889.14	45.3816	Analog	0.1000	3
Mg	24	45	He	32423.159	ppb	1.7	1545123.21	39.2866	Analog	0.1000	3
Al	27	45	He	17.572	ppb	41.4	470.02	0.0120	Pulse	0.1000	3
K	39	45	He	3635.988	ppb	1.0	162890.70	4.1410	Pulse	0.5000	3
Ca	44	45	He	113524.973	ppb	1.7	235198.66	5.9803	Pulse	0.5000	3
Ti	47	45	He	-0.868	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	0.005	ppb	1570.1	1030.04	0.0262	Pulse	0.5000	3
Cr	52	45	He	-0.555	ppb	N/A	1516.79	0.0386	Pulse	0.1000	3
Mn	55	45	He	2651.366	ppb	1.1	950886.56	24.1767	Pulse	0.5000	3
Fe	57	45	He	15.140	ppb	20.1	570.03	0.0145	Pulse	0.1000	3
Co	59	45	He	6.513	ppb	1.0	10814.30	0.2749	Pulse	0.5000	3
Ni	60	45	He	2.802	ppb	3.5	1755.44	0.0446	Pulse	0.5000	3
Cu	63	72	He	-0.260	ppb	N/A	628.02	0.0094	Pulse	0.5000	3
Zn	66	72	He	1.354	ppb	13.4	395.34	0.0059	Pulse	0.5000	3
As	75	72	He	1.322	ppb	17.3	248.67	0.0037	Pulse	0.5000	3
Sr	88	115	He	108.817	ppb	1.7	47010.27	0.8952	Pulse	0.1000	3
Mo	98	115	He	0.080	ppb	24.9	153.34	0.0029	Pulse	0.1000	3
Ag	107	115	He	-0.027	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Cd	111	115	He	0.185	ppb	39.2	42.67	0.0008	Pulse	0.5000	3
Sn	120	115	He	0.302	ppb	74.5	773.38	0.0148	Pulse	0.1000	3
Sb	121	115	He	0.016	ppb	74.8	28.89	0.0006	Pulse	0.3000	3
Ba	137	115	He	30.515	ppb	3.0	6271.49	0.1194	Pulse	0.1000	3
Tl	205	159	He	-0.028	ppb	N/A	156.67	0.0008	Pulse	0.1000	3
Pb	208	159	He	-0.016	ppb	N/A	213.34	0.0011	Pulse	0.1000	3
U	238	159	He	0.483	ppb	8.0	2333.60	0.0120	Pulse	0.1000	3

ISTD Table:

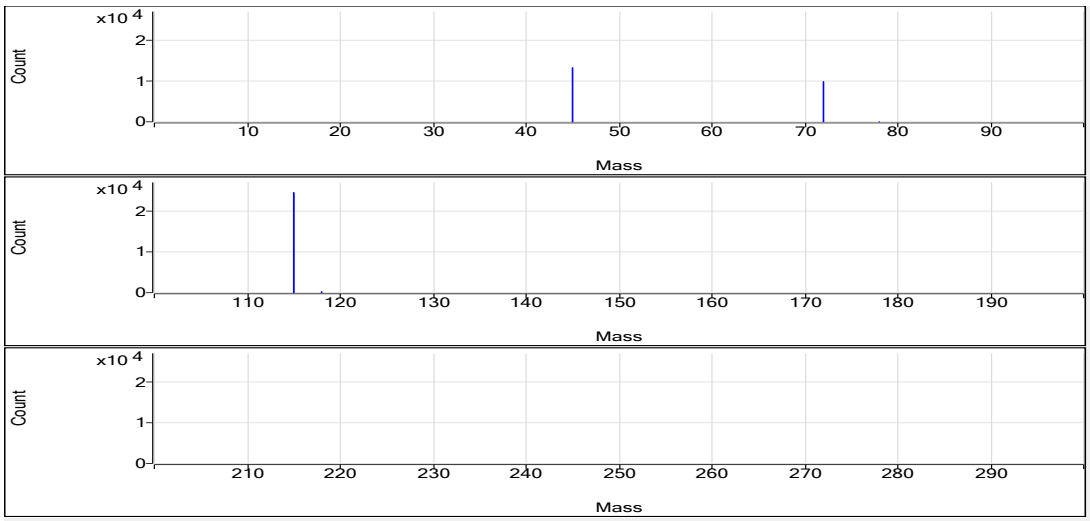
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1652103.31	0.5	96.7	Analog	0.1000	3
No Gas	Ge	72	836556.29	0.7	96.8	Pulse	0.1000	3
H2	Sc	45	132303.74	1.4	99.0	Pulse	0.1000	3
H2	Ge	72	98306.54	0.9	99.2	Pulse	0.1000	3
H2	In	115	244955.06	0.8	95.4	Pulse	0.1000	3
He	Sc	45	39334.46	1.3	99.7	Pulse	0.1000	3
He	Ge	72	67170.94	1.0	98.6	Pulse	0.1000	3
He	In	115	52527.06	2.3	94.8	Pulse	0.1000	3
He	Tb	159	195047.35	1.2	95.2	Pulse	0.1000	3
He	Bi	209	142426.87	1.3	94.2	Pulse	0.1000	3

No Gas

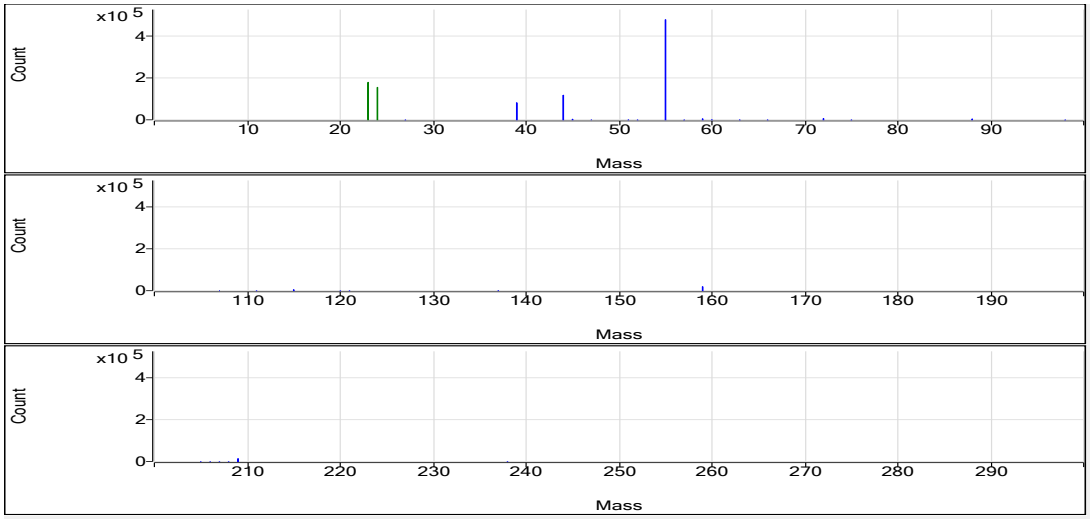


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.006	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.002	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	0.03	0	60.00	0.0003	2.616E-05
Se	78	2	H2	0.191	0.0001	13.33	0.0004	6.3E-05
Se	78	2	H2	0.221	0.0001	14.67	0.0004	6.3E-05
Se	78	2	H2	0.116	0.0001	10.67	0.0004	6.3E-05
Na	23	3	He	17672.94	44.8039	1788530.91	0.0025	0.7502
Na	23	3	He	18071.18	45.7966	1785474.35	0.0025	0.7502
Na	23	3	He	17969.968	45.5444	1780662.16	0.0025	0.7502
Mg	24	3	He	31917.422	38.6742	1543836.85	0.0012	0.02618
Mg	24	3	He	32988.288	39.9709	1558344.82	0.0012	0.02618
Mg	24	3	He	32363.767	39.2147	1533187.95	0.0012	0.02618
Al	27	3	He	14.434	0.0108	430.02	0.0004	0.005329
Al	27	3	He	12.396	0.01	390.02	0.0004	0.005329
Al	27	3	He	25.887	0.0151	590.03	0.0004	0.005329
K	39	3	He	3659.843	4.1647	166251.31	0.001	0.5307
K	39	3	He	3656.135	4.161	162226.09	0.001	0.5307
K	39	3	He	3591.985	4.0973	160194.69	0.001	0.5307
Ca	44	3	He	111321.381	5.8643	234099.00	0.0001	0.004441
Ca	44	3	He	115061.338	6.0612	236308.55	0.0001	0.004441
Ca	44	3	He	114192.2	6.0155	235188.42	0.0001	0.004441
Ti	47	3	He	-0.625	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.989	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.99	0.0001	2.00	0.0004	0.0004559
V	51	3	He	0.001	0.0261	1042.04	0.0176	0.02609
V	51	3	He	0.091	0.0277	1080.04	0.0176	0.02609
V	51	3	He	-0.076	0.0248	968.03	0.0176	0.02609
Cr	52	3	He	-0.554	0.0386	1540.12	0.0217	0.05061
Cr	52	3	He	-0.688	0.0357	1390.11	0.0217	0.05061
Cr	52	3	He	-0.422	0.0414	1620.13	0.0217	0.05061
Mn	55	3	He	2617.709	23.8699	952865.31	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2673.223	24.3759	950344.31	0.0091	0.01071
Mn	55	3	He	2663.168	24.2843	949450.06	0.0091	0.01071
Fe	57	3	He	12.71	0.0135	540.03	0.0004	0.008452
Fe	57	3	He	14.163	0.0141	550.03	0.0004	0.008452
Fe	57	3	He	18.547	0.0159	620.04	0.0004	0.008452
Co	59	3	He	6.478	0.2735	10917.71	0.0413	0.006013
Co	59	3	He	6.591	0.2781	10843.65	0.0413	0.006013
Co	59	3	He	6.471	0.2732	10681.54	0.0413	0.006013
Ni	60	3	He	2.855	0.0452	1806.11	0.0117	0.01172
Ni	60	3	He	2.864	0.0454	1768.11	0.0117	0.01172
Ni	60	3	He	2.687	0.0433	1692.10	0.0117	0.01172
Cu	63	3	He	-0.266	0.0092	626.02	0.0196	0.01443
Cu	63	3	He	-0.285	0.0089	596.02	0.0196	0.01443
Cu	63	3	He	-0.229	0.01	662.02	0.0196	0.01443
Zn	66	3	He	1.258	0.0057	384.01	0.0023	0.002807
Zn	66	3	He	1.564	0.0064	428.01	0.0023	0.002807
Zn	66	3	He	1.241	0.0056	374.01	0.0023	0.002807
As	75	3	He	1.153	0.0034	230.00	0.0018	0.001271
As	75	3	He	1.231	0.0035	238.00	0.0018	0.001271
As	75	3	He	1.582	0.0042	278.00	0.0018	0.001271
Sr	88	3	He	109.191	0.8983	46909.97	0.0082	0.00114
Sr	88	3	He	110.417	0.9083	46779.86	0.0082	0.00114
Sr	88	3	He	106.842	0.879	47340.99	0.0082	0.00114
Mo	98	3	He	0.077	0.0029	150.01	0.0177	0.001504
Mo	98	3	He	0.101	0.0033	170.01	0.0177	0.001504
Mo	98	3	He	0.062	0.0026	140.00	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Cd	111	3	He	0.138	0.0006	32.00	0.0041	4.798E-05
Cd	111	3	He	0.149	0.0007	34.00	0.0041	4.798E-05
Cd	111	3	He	0.269	0.0012	62.00	0.0041	4.798E-05
Sn	120	3	He	0.346	0.0153	800.05	0.0126	0.01097
Sn	120	3	He	0.502	0.0173	890.05	0.0126	0.01097
Sn	120	3	He	0.058	0.0117	630.04	0.0126	0.01097
Sb	121	3	He	0.013	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.006	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	29.705	0.1163	6071.38	0.0039	0.0003633
Ba	137	3	He	31.517	0.1233	6351.57	0.0039	0.0003633
Ba	137	3	He	30.323	0.1187	6391.52	0.0039	0.0003633
Tl	205	3	He	-0.033	0.0007	140.01	0.0189	0.001334
Tl	205	3	He	-0.016	0.001	200.01	0.0189	0.001334
Tl	205	3	He	-0.035	0.0007	130.00	0.0189	0.001334
Pb	208	3	He	-0.013	0.0012	120.00	0.0252	0.001497
Pb	208	3	He	-0.017	0.0011	80.00	0.0252	0.001497
Pb	208	3	He	-0.018	0.001	130.01	0.0252	0.001497
U	238	3	He	0.462	0.0115	2260.25	0.0245	0.0001141
U	238	3	He	0.527	0.0131	2550.31	0.0245	0.0001141
U	238	3	He	0.459	0.0114	2190.25	0.0245	0.0001141
Sc	45	1	No Gas			1657207.48		
Sc	45	1	No Gas			1643295.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1655807.16		
Ge	72	1	No Gas			842928.11		
Ge	72	1	No Gas			830867.96		
Ge	72	1	No Gas			835872.80		
Sc	45	2	H2			134053.79		
Sc	45	2	H2			130365.53		
Sc	45	2	H2			132491.90		
Ge	72	2	H2			97293.92		
Ge	72	2	H2			98722.45		
Ge	72	2	H2			98903.24		
In	115	2	H2			247202.01		
In	115	2	H2			243144.22		
In	115	2	H2			244518.94		
Sc	45	3	He			39919.05		
Sc	45	3	He			38987.01		
Sc	45	3	He			39097.32		
Ge	72	3	He			67773.70		
Ge	72	3	He			67281.02		
Ge	72	3	He			66458.09		
In	115	3	He			52227.80		
In	115	3	He			51506.11		
In	115	3	He			53863.52		
Tb	159	3	He			197322.95		
Tb	159	3	He			195274.72		
Tb	159	3	He			192544.37		
Bi	209	3	He			143279.98		
Bi	209	3	He			143742.06		
Bi	209	3	He			140258.56		

Quantitation Report

Data File Name	230SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:25:02 PM
Sample Name	410-229106-E-8-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

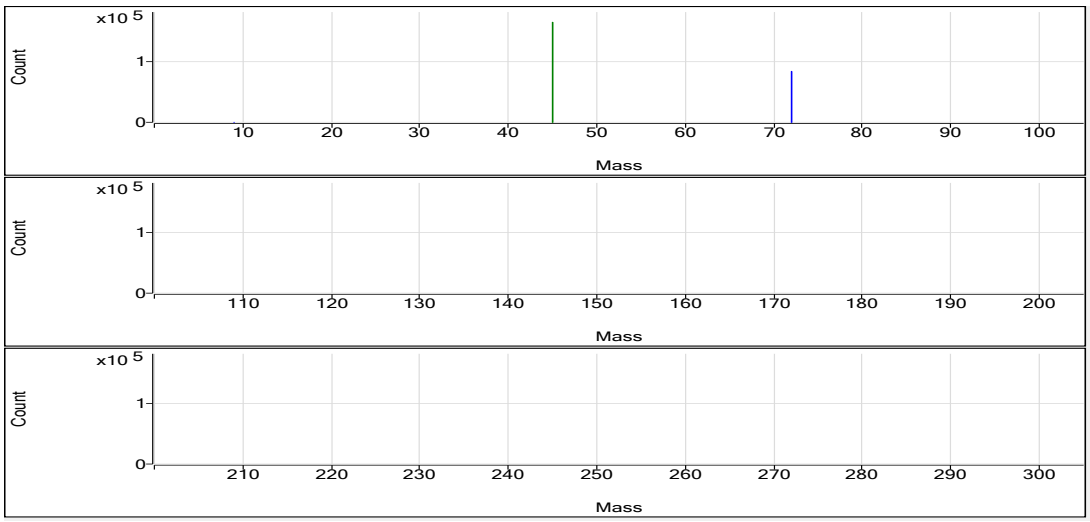
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.020	ppb	N/A	32.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.247	ppb	85.0	15.78	0.0002	Pulse	1.5000	3
Na	23	45	He	7473.732	ppb	0.8	768313.14	19.3801	Pulse	0.1000	3
Mg	24	45	He	25493.410	ppb	0.5	1224847.33	30.8955	Analog	0.1000	3
Al	27	45	He	1.472	ppb	181.1	233.34	0.0059	Pulse	0.1000	3
K	39	45	He	1907.874	ppb	2.4	96148.90	2.4251	Pulse	0.5000	3
Ca	44	45	He	56009.052	ppb	1.0	117058.24	2.9527	Pulse	0.5000	3
Ti	47	45	He	-0.746	ppb	N/A	6.00	0.0002	Pulse	0.5000	3
V	51	45	He	-0.075	ppb	N/A	982.03	0.0248	Pulse	0.5000	3
Cr	52	45	He	0.322	ppb	7.2	2283.57	0.0576	Pulse	0.1000	3
Mn	55	45	He	2.527	ppb	14.5	1338.06	0.0337	Pulse	0.5000	3
Fe	57	45	He	-0.749	ppb	N/A	323.35	0.0082	Pulse	0.1000	3
Co	59	45	He	-0.019	ppb	N/A	207.33	0.0052	Pulse	0.5000	3
Ni	60	45	He	0.002	ppb	3661.6	465.34	0.0117	Pulse	0.5000	3
Cu	63	72	He	-0.326	ppb	N/A	546.01	0.0081	Pulse	0.5000	3
Zn	66	72	He	1.556	ppb	18.2	430.01	0.0063	Pulse	0.5000	3
As	75	72	He	1.431	ppb	7.5	264.67	0.0039	Pulse	0.5000	3
Sr	88	115	He	64.120	ppb	1.6	27855.13	0.5280	Pulse	0.1000	3
Mo	98	115	He	0.011	ppb	339.0	90.00	0.0017	Pulse	0.1000	3
Ag	107	115	He	-0.012	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	288.1	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.344	ppb	26.5	806.71	0.0153	Pulse	0.1000	3
Sb	121	115	He	0.000	ppb	N/A	18.89	0.0004	Pulse	0.3000	3
Ba	137	115	He	54.567	ppb	0.3	11251.19	0.2133	Pulse	0.1000	3
Tl	205	159	He	-0.048	ppb	N/A	83.33	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.015	ppb	N/A	216.67	0.0011	Pulse	0.1000	3
U	238	159	He	0.118	ppb	8.5	580.03	0.0030	Pulse	0.1000	3

ISTD Table:

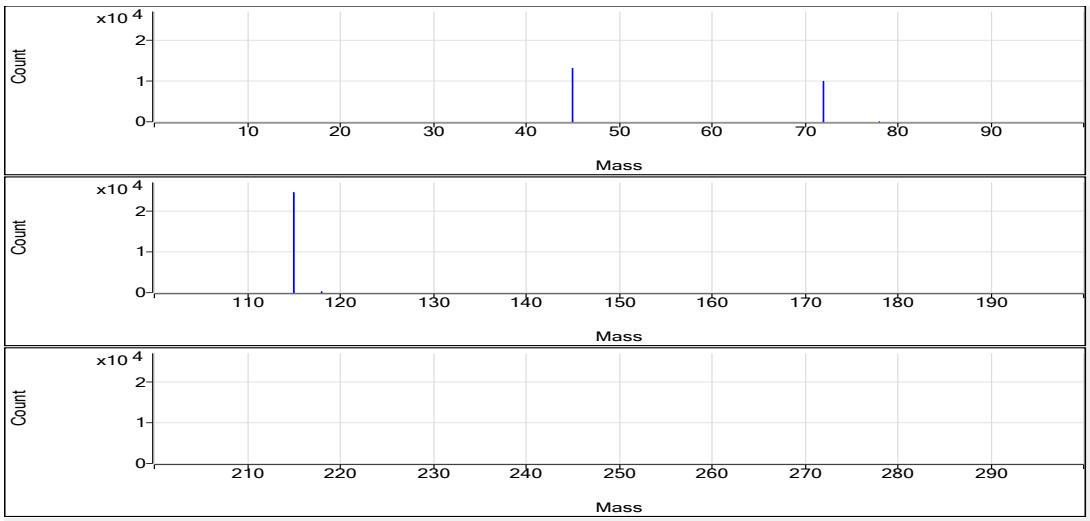
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1644825.39	2.3	96.3	Analog	0.1000	3
No Gas	Ge	72	837414.83	1.5	96.9	Pulse	0.1000	3
H2	Sc	45	131123.56	0.4	98.1	Pulse	0.1000	3
H2	Ge	72	99530.85	0.5	100.5	Pulse	0.1000	3
H2	In	115	245395.39	1.5	95.6	Pulse	0.1000	3
He	Sc	45	39645.36	0.5	100.4	Pulse	0.1000	3
He	Ge	72	67783.19	0.9	99.5	Pulse	0.1000	3
He	In	115	52757.49	0.7	95.2	Pulse	0.1000	3
He	Tb	159	193006.29	1.4	94.2	Pulse	0.1000	3
He	Bi	209	141787.00	1.1	93.7	Pulse	0.1000	3

No Gas

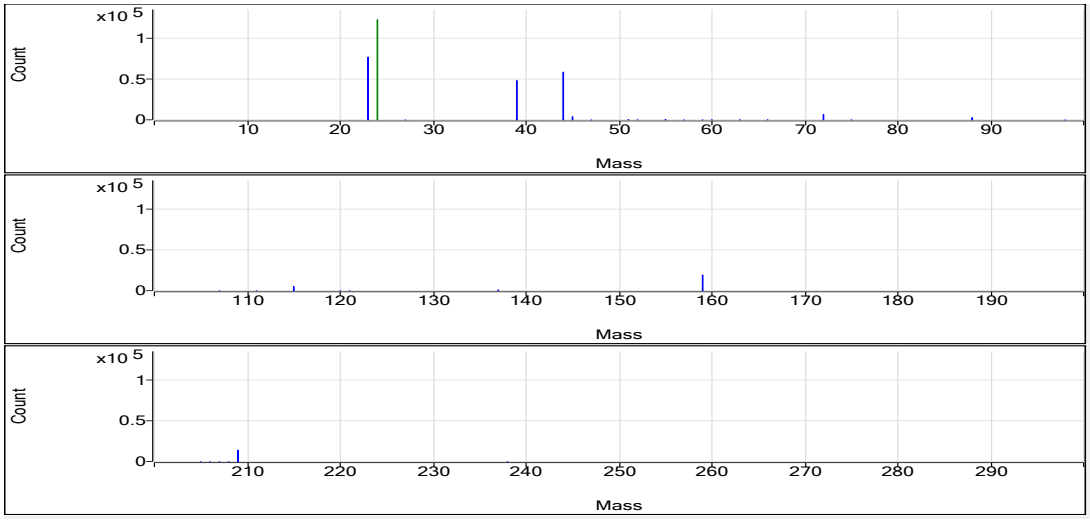


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.044	0	18.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Se	78	2	H2	0.026	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	0.27	0.0002	16.67	0.0004	6.3E-05
Se	78	2	H2	0.444	0.0002	23.33	0.0004	6.3E-05
Na	23	3	He	7417.206	19.2392	766667.64	0.0025	0.7502
Na	23	3	He	7466.895	19.3631	767331.08	0.0025	0.7502
Na	23	3	He	7537.095	19.5381	770940.69	0.0025	0.7502
Mg	24	3	He	25423.536	30.8109	1227789.28	0.0012	0.02618
Mg	24	3	He	25415.158	30.8008	1220589.12	0.0012	0.02618
Mg	24	3	He	25641.536	31.0749	1226163.58	0.0012	0.02618
Al	27	3	He	3.836	0.0068	270.01	0.0004	0.005329
Al	27	3	He	-1.418	0.0048	190.01	0.0004	0.005329
Al	27	3	He	1.997	0.0061	240.01	0.0004	0.005329
K	39	3	He	1959.728	2.4766	98689.63	0.001	0.5307
K	39	3	He	1883.793	2.4012	95155.19	0.001	0.5307
K	39	3	He	1880.1	2.3975	94601.88	0.001	0.5307
Ca	44	3	He	55377.291	2.9195	116338.64	0.0001	0.004441
Ca	44	3	He	56193.868	2.9625	117397.89	0.0001	0.004441
Ca	44	3	He	56455.998	2.9763	117438.20	0.0001	0.004441
Ti	47	3	He	-0.378	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.744	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	0.006	0.0262	1044.04	0.0176	0.02609
V	51	3	He	-0.149	0.0235	930.03	0.0176	0.02609
V	51	3	He	-0.083	0.0246	972.03	0.0176	0.02609
Cr	52	3	He	0.339	0.058	2310.24	0.0217	0.05061
Cr	52	3	He	0.331	0.0578	2290.25	0.0217	0.05061
Cr	52	3	He	0.295	0.057	2250.22	0.0217	0.05061
Mn	55	3	He	2.906	0.0372	1482.08	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2.502	0.0335	1328.06	0.0091	0.01071
Mn	55	3	He	2.173	0.0305	1204.05	0.0091	0.01071
Fe	57	3	He	2.086	0.0093	370.02	0.0004	0.008452
Fe	57	3	He	-2.208	0.0076	300.01	0.0004	0.008452
Fe	57	3	He	-2.126	0.0076	300.01	0.0004	0.008452
Co	59	3	He	-0.011	0.0056	222.00	0.0413	0.006013
Co	59	3	He	-0.014	0.0055	216.00	0.0413	0.006013
Co	59	3	He	-0.033	0.0047	184.00	0.0413	0.006013
Ni	60	3	He	0.002	0.0117	468.01	0.0117	0.01172
Ni	60	3	He	-0.069	0.0109	432.01	0.0117	0.01172
Ni	60	3	He	0.073	0.0126	496.01	0.0117	0.01172
Cu	63	3	He	-0.343	0.0077	522.01	0.0196	0.01443
Cu	63	3	He	-0.297	0.0086	580.01	0.0196	0.01443
Cu	63	3	He	-0.338	0.0078	536.01	0.0196	0.01443
Zn	66	3	He	1.863	0.007	476.01	0.0023	0.002807
Zn	66	3	He	1.303	0.0058	388.01	0.0023	0.002807
Zn	66	3	He	1.501	0.0062	426.01	0.0023	0.002807
As	75	3	He	1.431	0.0039	264.00	0.0018	0.001271
As	75	3	He	1.539	0.0041	276.00	0.0018	0.001271
As	75	3	He	1.324	0.0037	254.00	0.0018	0.001271
Sr	88	3	He	63.209	0.5205	27504.69	0.0082	0.00114
Sr	88	3	He	63.896	0.5261	27554.50	0.0082	0.00114
Sr	88	3	He	65.256	0.5373	28506.19	0.0082	0.00114
Mo	98	3	He	0.022	0.0019	100.00	0.0177	0.001504
Mo	98	3	He	-0.031	0.001	50.00	0.0177	0.001504
Mo	98	3	He	0.043	0.0023	120.00	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	0	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.241	0.014	740.04	0.0126	0.01097
Sn	120	3	He	0.373	0.0157	820.05	0.0126	0.01097
Sn	120	3	He	0.417	0.0162	860.05	0.0126	0.01097
Sb	121	3	He	-0.019	0.0001	6.67	0.012	0.0003595
Sb	121	3	He	0.012	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	54.736	0.2139	11304.62	0.0039	0.0003633
Ba	137	3	He	54.446	0.2128	11144.39	0.0039	0.0003633
Ba	137	3	He	54.519	0.2131	11304.55	0.0039	0.0003633
Tl	205	3	He	-0.044	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	-0.025	0.0009	80.00	0.0252	0.001497
Pb	208	3	He	-0.014	0.0012	140.01	0.0252	0.001497
Pb	208	3	He	-0.006	0.0014	170.01	0.0252	0.001497
U	238	3	He	0.114	0.0029	570.03	0.0245	0.0001141
U	238	3	He	0.11	0.0028	540.03	0.0245	0.0001141
U	238	3	He	0.129	0.0033	630.04	0.0245	0.0001141
Sc	45	1	No Gas			1679657.01		
Sc	45	1	No Gas			1605720.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1649098.88		
Ge	72	1	No Gas			851427.17		
Ge	72	1	No Gas			828387.64		
Ge	72	1	No Gas			832429.68		
Sc	45	2	H2			131149.84		
Sc	45	2	H2			130546.12		
Sc	45	2	H2			131674.71		
Ge	72	2	H2			100090.32		
Ge	72	2	H2			99357.38		
Ge	72	2	H2			99144.85		
In	115	2	H2			249234.45		
In	115	2	H2			241710.29		
In	115	2	H2			245241.44		
Sc	45	3	He			39849.18		
Sc	45	3	He			39628.54		
Sc	45	3	He			39458.36		
Ge	72	3	He			67602.51		
Ge	72	3	He			67251.08		
Ge	72	3	He			68495.97		
In	115	3	He			52850.07		
In	115	3	He			52378.41		
In	115	3	He			53060.94		
Tb	159	3	He			196059.49		
Tb	159	3	He			191197.05		
Tb	159	3	He			191762.34		
Bi	209	3	He			142903.07		
Bi	209	3	He			140088.45		
Bi	209	3	He			142369.47		

Quantitation Report

Data File Name	231SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:27:13 PM
Sample Name	410-229106-G-2-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

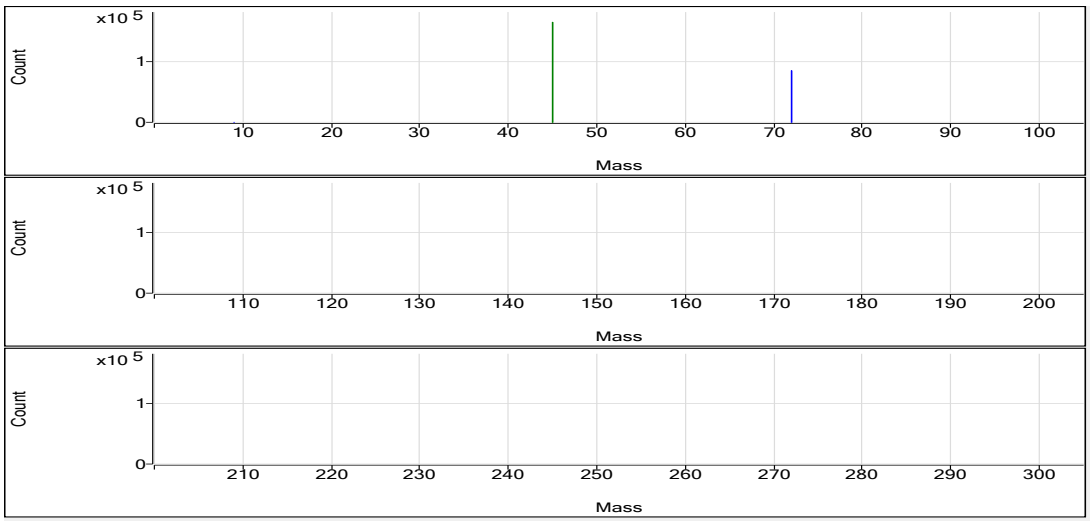
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.017	ppb	N/A	33.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.728	ppb	10.1	34.45	0.0003	Pulse	1.5000	3
Na	23	45	He	6967.761	ppb	2.6	717477.93	18.1189	Pulse	0.1000	3
Mg	24	45	He	12021.784	ppb	2.5	577460.42	14.5831	Pulse	0.1000	3
Al	27	45	He	12.808	ppb	35.9	403.35	0.0102	Pulse	0.1000	3
K	39	45	He	2089.102	ppb	2.0	103182.73	2.6050	Pulse	0.5000	3
Ca	44	45	He	28289.218	ppb	1.5	59150.78	1.4936	Pulse	0.5000	3
Ti	47	45	He	-0.617	ppb	N/A	8.00	0.0002	Pulse	0.5000	3
V	51	45	He	-0.233	ppb	N/A	870.69	0.0220	Pulse	0.5000	3
Cr	52	45	He	0.240	ppb	32.3	2210.23	0.0558	Pulse	0.1000	3
Mn	55	45	He	21.301	ppb	3.8	8114.05	0.2049	Pulse	0.5000	3
Fe	57	45	He	-7.930	ppb	N/A	210.01	0.0053	Pulse	0.1000	3
Co	59	45	He	0.058	ppb	26.6	332.01	0.0084	Pulse	0.5000	3
Ni	60	45	He	0.655	ppb	9.7	769.36	0.0194	Pulse	0.5000	3
Cu	63	72	He	2.388	ppb	3.4	4199.23	0.0611	Pulse	0.5000	3
Zn	66	72	He	22.718	ppb	1.8	3737.78	0.0544	Pulse	0.5000	3
As	75	72	He	1.482	ppb	2.3	274.67	0.0040	Pulse	0.5000	3
Sr	88	115	He	62.284	ppb	0.9	27774.84	0.5129	Pulse	0.1000	3
Mo	98	115	He	-0.023	ppb	N/A	60.00	0.0011	Pulse	0.1000	3
Ag	107	115	He	-0.019	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.012	ppb	152.1	5.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.625	ppb	14.6	1020.06	0.0188	Pulse	0.1000	3
Sb	121	115	He	0.016	ppb	115.1	30.00	0.0006	Pulse	0.3000	3
Ba	137	115	He	24.019	ppb	3.0	5094.35	0.0941	Pulse	0.1000	3
Tl	205	159	He	-0.046	ppb	N/A	90.00	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.096	ppb	4.1	753.37	0.0039	Pulse	0.1000	3
U	238	159	He	0.010	ppb	54.7	70.00	0.0004	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1642619.09	1.1	96.1	Analog	0.1000	3
No Gas	Ge	72	848198.76	0.9	98.2	Pulse	0.1000	3
H2	Sc	45	131144.30	1.6	98.1	Pulse	0.1000	3
H2	Ge	72	99654.46	1.4	100.6	Pulse	0.1000	3
H2	In	115	246079.38	0.9	95.9	Pulse	0.1000	3
He	Sc	45	39611.87	2.1	100.4	Pulse	0.1000	3
He	Ge	72	68670.52	1.3	100.8	Pulse	0.1000	3
He	In	115	54157.71	1.4	97.7	Pulse	0.1000	3
He	Tb	159	193002.38	0.7	94.2	Pulse	0.1000	3
He	Bi	209	145381.69	1.6	96.1	Pulse	0.1000	3

No Gas



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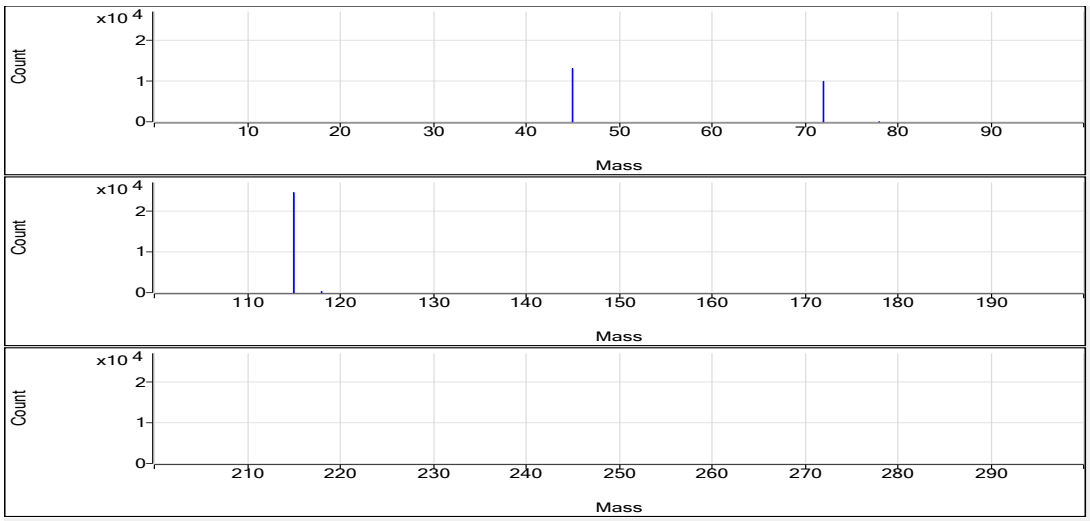
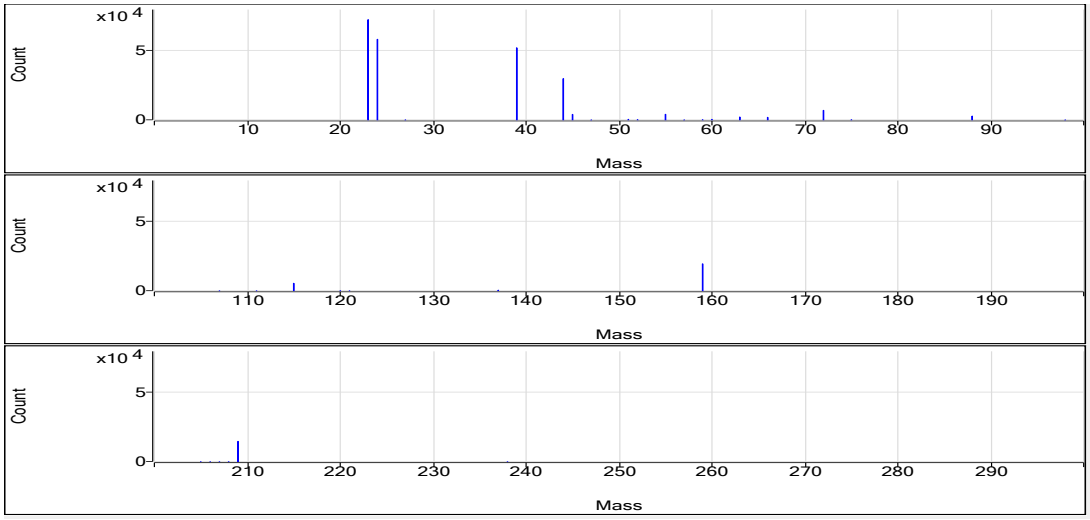


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.02	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.021	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.012	0	36.00	0.0003	2.616E-05
Se	78	2	H2	0.761	0.0004	36.00	0.0004	6.3E-05
Se	78	2	H2	0.644	0.0003	30.67	0.0004	6.3E-05
Se	78	2	H2	0.779	0.0004	36.67	0.0004	6.3E-05
Na	23	3	He	6777.736	17.6452	713584.60	0.0025	0.7502
Na	23	3	He	7137.881	18.543	719589.13	0.0025	0.7502
Na	23	3	He	6987.665	18.1685	719260.07	0.0025	0.7502
Mg	24	3	He	11719.301	14.2168	574936.94	0.0012	0.02618
Mg	24	3	He	12331.363	14.9579	580466.20	0.0012	0.02618
Mg	24	3	He	12014.686	14.5745	576978.12	0.0012	0.02618
Al	27	3	He	16.688	0.0116	470.02	0.0004	0.005329
Al	27	3	He	7.735	0.0082	320.01	0.0004	0.005329
Al	27	3	He	14.002	0.0106	420.02	0.0004	0.005329
K	39	3	He	2095.983	2.6119	105625.97	0.001	0.5307
K	39	3	He	2126.781	2.6425	102544.66	0.001	0.5307
K	39	3	He	2044.544	2.5608	101377.55	0.001	0.5307
Ca	44	3	He	27855.041	1.4707	59476.80	0.0001	0.004441
Ca	44	3	He	28716.926	1.5161	58834.14	0.0001	0.004441
Ca	44	3	He	28295.686	1.4939	59141.41	0.0001	0.004441
Ti	47	3	He	-0.752	0.0001	6.00	0.0004	0.0004559
Ti	47	3	He	-0.107	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	-0.991	0.0001	2.00	0.0004	0.0004559
V	51	3	He	-0.224	0.0222	896.03	0.0176	0.02609
V	51	3	He	-0.147	0.0235	912.03	0.0176	0.02609
V	51	3	He	-0.329	0.0203	804.02	0.0176	0.02609
Cr	52	3	He	0.209	0.0551	2230.23	0.0217	0.05061
Cr	52	3	He	0.328	0.0577	2240.24	0.0217	0.05061
Cr	52	3	He	0.182	0.0546	2160.21	0.0217	0.05061
Mn	55	3	He	21.593	0.2075	8392.20	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	21.918	0.2105	8168.08	0.0091	0.01071
Mn	55	3	He	20.392	0.1966	7781.88	0.0091	0.01071
Fe	57	3	He	-5.066	0.0064	260.01	0.0004	0.008452
Fe	57	3	He	-10.841	0.0041	160.00	0.0004	0.008452
Fe	57	3	He	-7.882	0.0053	210.01	0.0004	0.008452
Co	59	3	He	0.041	0.0077	312.00	0.0413	0.006013
Co	59	3	He	0.072	0.009	348.01	0.0413	0.006013
Co	59	3	He	0.06	0.0085	336.01	0.0413	0.006013
Ni	60	3	He	0.687	0.0198	800.03	0.0117	0.01172
Ni	60	3	He	0.582	0.0186	720.02	0.0117	0.01172
Ni	60	3	He	0.697	0.0199	788.02	0.0117	0.01172
Cu	63	3	He	2.463	0.0626	4306.59	0.0196	0.01443
Cu	63	3	He	2.396	0.0613	4262.58	0.0196	0.01443
Cu	63	3	He	2.303	0.0595	4028.52	0.0196	0.01443
Zn	66	3	He	22.698	0.0544	3740.46	0.0023	0.002807
Zn	66	3	He	22.311	0.0535	3720.44	0.0023	0.002807
Zn	66	3	He	23.145	0.0554	3752.45	0.0023	0.002807
As	75	3	He	1.521	0.0041	280.00	0.0018	0.001271
As	75	3	He	1.466	0.004	276.00	0.0018	0.001271
As	75	3	He	1.459	0.004	268.00	0.0018	0.001271
Sr	88	3	He	61.756	0.5085	27975.19	0.0082	0.00114
Sr	88	3	He	62.255	0.5126	27424.12	0.0082	0.00114
Sr	88	3	He	62.841	0.5175	27925.20	0.0082	0.00114
Mo	98	3	He	-0.013	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	-0.064	0.0004	20.00	0.0177	0.001504
Mo	98	3	He	0.009	0.0017	90.00	0.0177	0.001504
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.033	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.645	0.0191	1050.07	0.0126	0.01097
Sn	120	3	He	0.525	0.0176	940.05	0.0126	0.01097
Sn	120	3	He	0.704	0.0198	1070.07	0.0126	0.01097
Sb	121	3	He	0	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.012	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.037	0.0008	43.33	0.012	0.0003595
Ba	137	3	He	23.906	0.0936	5151.03	0.0039	0.0003633
Ba	137	3	He	24.778	0.097	5191.06	0.0039	0.0003633
Ba	137	3	He	23.373	0.0916	4940.97	0.0039	0.0003633
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.065	0.0001	20.00	0.0189	0.001334
Tl	205	3	He	-0.024	0.0009	170.01	0.0189	0.001334
Pb	208	3	He	0.092	0.0038	410.02	0.0252	0.001497
Pb	208	3	He	0.099	0.004	430.03	0.0252	0.001497
Pb	208	3	He	0.096	0.0039	480.02	0.0252	0.001497
U	238	3	He	0.014	0.0005	90.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.012	0.0004	80.00	0.0245	0.0001141
Sc	45	1	No Gas			1635924.04		
Sc	45	1	No Gas			1662900.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629032.48		
Ge	72	1	No Gas			844200.85		
Ge	72	1	No Gas			857295.30		
Ge	72	1	No Gas			843100.14		
Sc	45	2	H2			131594.23		
Sc	45	2	H2			128882.52		
Sc	45	2	H2			132956.15		
Ge	72	2	H2			100493.34		
Ge	72	2	H2			98067.21		
Ge	72	2	H2			100402.84		
In	115	2	H2			248544.78		
In	115	2	H2			244360.43		
In	115	2	H2			245332.93		
Sc	45	3	He			40440.70		
Sc	45	3	He			38806.61		
Sc	45	3	He			39588.29		
Ge	72	3	He			68767.45		
Ge	72	3	He			69521.54		
Ge	72	3	He			67722.57		
In	115	3	He			55018.29		
In	115	3	He			53502.54		
In	115	3	He			53973.72		
Tb	159	3	He			194517.75		
Tb	159	3	He			192502.52		
Tb	159	3	He			191986.87		
Bi	209	3	He			147407.36		
Bi	209	3	He			142743.16		
Bi	209	3	He			145994.54		

Quantitation Report

Data File Name	232SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:29:25 PM
Sample Name	410-229106-G-7-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

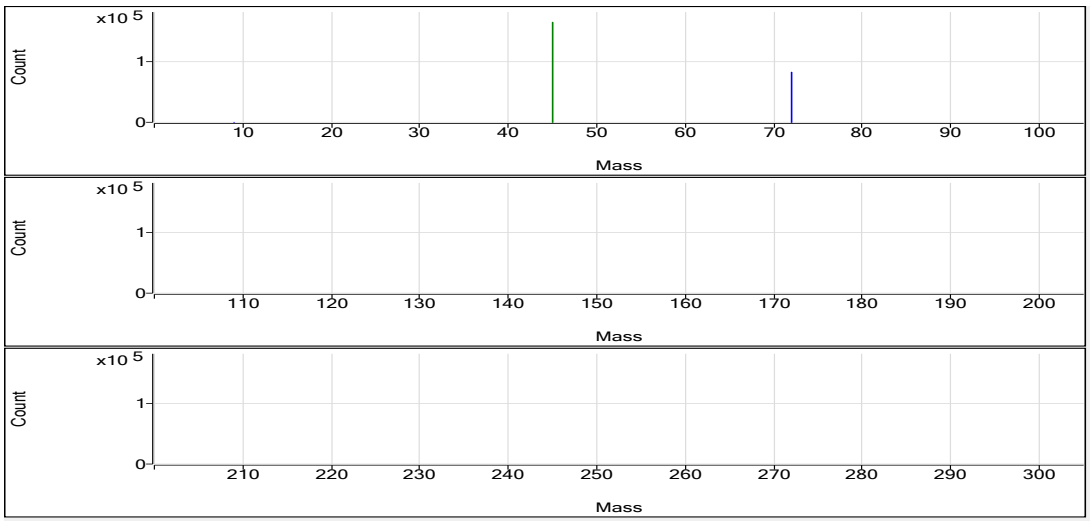
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.018	ppb	N/A	33.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.204	ppb	16.8	13.78	0.0001	Pulse	1.5000	3
Na	23	45	He	26160.896	ppb	1.6	2574374.39	65.9621	Analog	0.1000	3
Mg	24	45	He	47263.433	ppb	1.4	2234649.76	57.2563	Analog	0.1000	3
Al	27	45	He	-2.117	ppb	N/A	176.68	0.0045	Pulse	0.1000	3
K	39	45	He	3873.260	ppb	1.6	170818.19	4.3766	Pulse	0.5000	3
Ca	44	45	He	140200.266	ppb	0.9	288239.55	7.3845	Pulse	0.5000	3
Ti	47	45	He	-0.863	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	0.012	ppb	457.4	1026.71	0.0263	Pulse	0.5000	3
Cr	52	45	He	-0.463	ppb	N/A	1583.46	0.0406	Pulse	0.1000	3
Mn	55	45	He	873.475	ppb	1.0	311146.48	7.9720	Pulse	0.5000	3
Fe	57	45	He	-3.203	ppb	N/A	280.01	0.0072	Pulse	0.1000	3
Co	59	45	He	0.823	ppb	0.7	1561.42	0.0400	Pulse	0.5000	3
Ni	60	45	He	0.943	ppb	14.3	890.03	0.0228	Pulse	0.5000	3
Cu	63	72	He	-0.332	ppb	N/A	541.34	0.0079	Pulse	0.5000	3
Zn	66	72	He	0.834	ppb	23.9	320.68	0.0047	Pulse	0.5000	3
As	75	72	He	1.396	ppb	4.5	262.00	0.0038	Pulse	0.5000	3
Sr	88	115	He	110.775	ppb	2.3	47427.99	0.9113	Pulse	0.1000	3
Mo	98	115	He	0.132	ppb	33.6	200.01	0.0038	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.060	ppb	31.7	15.33	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.156	ppb	59.2	673.37	0.0129	Pulse	0.1000	3
Sb	121	115	He	0.000	ppb	11423.3	18.89	0.0004	Pulse	0.3000	3
Ba	137	115	He	23.757	ppb	6.3	4840.94	0.0931	Pulse	0.1000	3
Tl	205	159	He	0.004	ppb	414.2	273.34	0.0014	Pulse	0.1000	3
Pb	208	159	He	-0.024	ppb	N/A	176.67	0.0009	Pulse	0.1000	3
U	238	159	He	0.979	ppb	4.9	4704.28	0.0242	Pulse	0.1000	3

ISTD Table:

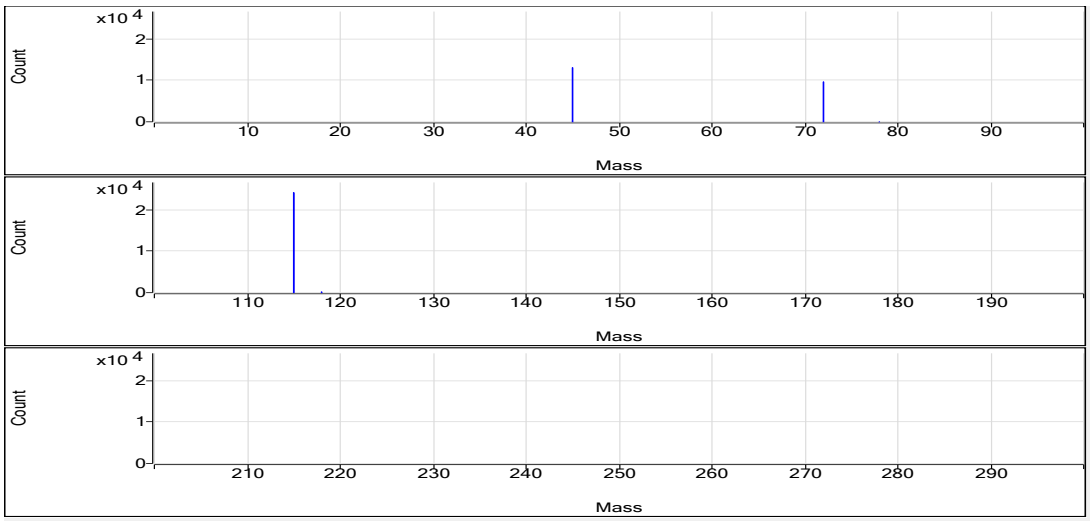
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1647146.64	0.9	96.4	Analog	0.1000	3
No Gas	Ge	72	826698.84	1.1	95.7	Pulse	0.1000	3
H2	Sc	45	131204.40	1.0	98.2	Pulse	0.1000	3
H2	Ge	72	96823.74	0.7	97.7	Pulse	0.1000	3
H2	In	115	242288.17	0.8	94.4	Pulse	0.1000	3
He	Sc	45	39033.98	1.6	98.9	Pulse	0.1000	3
He	Ge	72	68221.65	0.6	100.2	Pulse	0.1000	3
He	In	115	52059.66	1.9	94.0	Pulse	0.1000	3
He	Tb	159	194775.62	1.5	95.1	Pulse	0.1000	3
He	Bi	209	140646.25	1.7	93.0	Pulse	0.1000	3

No Gas

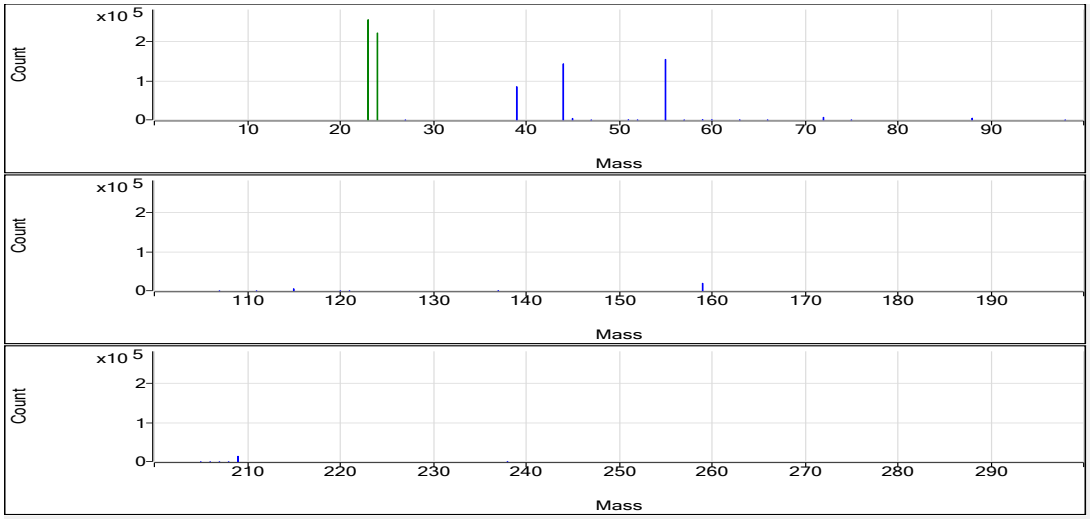


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.013	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.034	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.006	0	40.00	0.0003	2.616E-05
Se	78	2	H2	0.193	0.0001	13.33	0.0004	6.3E-05
Se	78	2	H2	0.243	0.0002	15.33	0.0004	6.3E-05
Se	78	2	H2	0.177	0.0001	12.67	0.0004	6.3E-05
Na	23	3	He	26078.587	65.7569	2553126.84	0.0025	0.7502
Na	23	3	He	25792.572	65.0439	2584781.37	0.0025	0.7502
Na	23	3	He	26611.529	67.0854	2585214.96	0.0025	0.7502
Mg	24	3	He	47124.759	57.0884	2216555.90	0.0012	0.02618
Mg	24	3	He	46697.443	56.5709	2248072.78	0.0012	0.02618
Mg	24	3	He	47968.097	58.1095	2239320.59	0.0012	0.02618
Al	27	3	He	0.894	0.0057	220.01	0.0004	0.005329
Al	27	3	He	-4.122	0.0038	150.01	0.0004	0.005329
Al	27	3	He	-3.122	0.0042	160.01	0.0004	0.005329
K	39	3	He	3932.37	4.4353	172208.97	0.001	0.5307
K	39	3	He	3811.547	4.3153	171487.55	0.001	0.5307
K	39	3	He	3875.864	4.3792	168758.05	0.001	0.5307
Ca	44	3	He	138967.622	7.3196	284197.34	0.0001	0.004441
Ca	44	3	He	140148.109	7.3818	293344.06	0.0001	0.004441
Ca	44	3	He	141485.067	7.4521	287177.25	0.0001	0.004441
Ti	47	3	He	-0.737	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.992	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.861	0.0001	4.00	0.0004	0.0004559
V	51	3	He	0.074	0.0274	1064.04	0.0176	0.02609
V	51	3	He	-0.013	0.0259	1028.04	0.0176	0.02609
V	51	3	He	-0.026	0.0256	988.04	0.0176	0.02609
Cr	52	3	He	-0.551	0.0386	1500.12	0.0217	0.05061
Cr	52	3	He	-0.372	0.0425	1690.13	0.0217	0.05061
Cr	52	3	He	-0.466	0.0405	1560.13	0.0217	0.05061
Mn	55	3	He	874.591	7.9822	309923.22	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	863.94	7.8851	313347.09	0.0091	0.01071
Mn	55	3	He	881.894	8.0488	310169.13	0.0091	0.01071
Fe	57	3	He	-6.976	0.0057	220.01	0.0004	0.008452
Fe	57	3	He	-2.261	0.0075	300.01	0.0004	0.008452
Fe	57	3	He	-0.371	0.0083	320.02	0.0004	0.008452
Co	59	3	He	0.82	0.0399	1548.08	0.0413	0.006013
Co	59	3	He	0.83	0.0403	1600.09	0.0413	0.006013
Co	59	3	He	0.82	0.0399	1536.08	0.0413	0.006013
Ni	60	3	He	1.029	0.0238	924.03	0.0117	0.01172
Ni	60	3	He	1.012	0.0236	938.03	0.0117	0.01172
Ni	60	3	He	0.788	0.021	808.03	0.0117	0.01172
Cu	63	3	He	-0.318	0.0082	562.01	0.0196	0.01443
Cu	63	3	He	-0.353	0.0075	510.01	0.0196	0.01443
Cu	63	3	He	-0.326	0.0081	552.01	0.0196	0.01443
Zn	66	3	He	0.733	0.0045	306.01	0.0023	0.002807
Zn	66	3	He	1.063	0.0052	354.01	0.0023	0.002807
Zn	66	3	He	0.706	0.0044	302.01	0.0023	0.002807
As	75	3	He	1.358	0.0038	258.00	0.0018	0.001271
As	75	3	He	1.362	0.0038	256.00	0.0018	0.001271
As	75	3	He	1.468	0.004	272.00	0.0018	0.001271
Sr	88	3	He	113.722	0.9355	47682.21	0.0082	0.00114
Sr	88	3	He	109.08	0.8974	47511.32	0.0082	0.00114
Sr	88	3	He	109.523	0.901	47090.43	0.0082	0.00114
Mo	98	3	He	0.137	0.0039	200.01	0.0177	0.001504
Mo	98	3	He	0.086	0.003	160.01	0.0177	0.001504
Mo	98	3	He	0.174	0.0046	240.01	0.0177	0.001504
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	0.046	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.053	0.0003	14.00	0.0041	4.798E-05
Cd	111	3	He	0.082	0.0004	20.00	0.0041	4.798E-05
Sn	120	3	He	0.142	0.0128	650.04	0.0126	0.01097
Sn	120	3	He	0.254	0.0142	750.05	0.0126	0.01097
Sn	120	3	He	0.071	0.0119	620.03	0.0126	0.01097
Sb	121	3	He	-0.008	0.0003	13.33	0.012	0.0003595
Sb	121	3	He	0.017	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	-0.009	0.0003	13.33	0.012	0.0003595
Ba	137	3	He	25.457	0.0997	5081.04	0.0039	0.0003633
Ba	137	3	He	23.099	0.0905	4790.89	0.0039	0.0003633
Ba	137	3	He	22.715	0.089	4650.88	0.0039	0.0003633
Tl	205	3	He	0.009	0.0015	290.01	0.0189	0.001334
Tl	205	3	He	0.015	0.0016	320.01	0.0189	0.001334
Tl	205	3	He	-0.013	0.0011	210.01	0.0189	0.001334
Pb	208	3	He	-0.035	0.0006	80.00	0.0252	0.001497
Pb	208	3	He	-0.009	0.0013	110.00	0.0252	0.001497
Pb	208	3	He	-0.027	0.0008	80.00	0.0252	0.001497
U	238	3	He	0.938	0.0231	4450.86	0.0245	0.0001141
U	238	3	He	0.969	0.0239	4730.96	0.0245	0.0001141
U	238	3	He	1.031	0.0254	4931.01	0.0245	0.0001141
Sc	45	1	No Gas			1655284.19		
Sc	45	1	No Gas			1630316.38		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1655839.35		
Ge	72	1	No Gas			821375.07		
Ge	72	1	No Gas			821756.24		
Ge	72	1	No Gas			836965.22		
Sc	45	2	H2			131623.86		
Sc	45	2	H2			129739.87		
Sc	45	2	H2			132249.48		
Ge	72	2	H2			96730.04		
Ge	72	2	H2			97504.74		
Ge	72	2	H2			96236.45		
In	115	2	H2			243222.36		
In	115	2	H2			239984.12		
In	115	2	H2			243658.02		
Sc	45	3	He			38826.75		
Sc	45	3	He			39739.00		
Sc	45	3	He			38536.19		
Ge	72	3	He			68425.25		
Ge	72	3	He			67772.91		
Ge	72	3	He			68466.78		
In	115	3	He			50973.95		
In	115	3	He			52950.41		
In	115	3	He			52268.76		
Tb	159	3	He			192432.65		
Tb	159	3	He			197952.87		
Tb	159	3	He			193941.34		
Bi	209	3	He			138361.53		
Bi	209	3	He			143127.26		
Bi	209	3	He			140449.96		

Quantitation Report

Data File Name	233SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:31:37 PM
Sample Name	410-229106-G-5-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

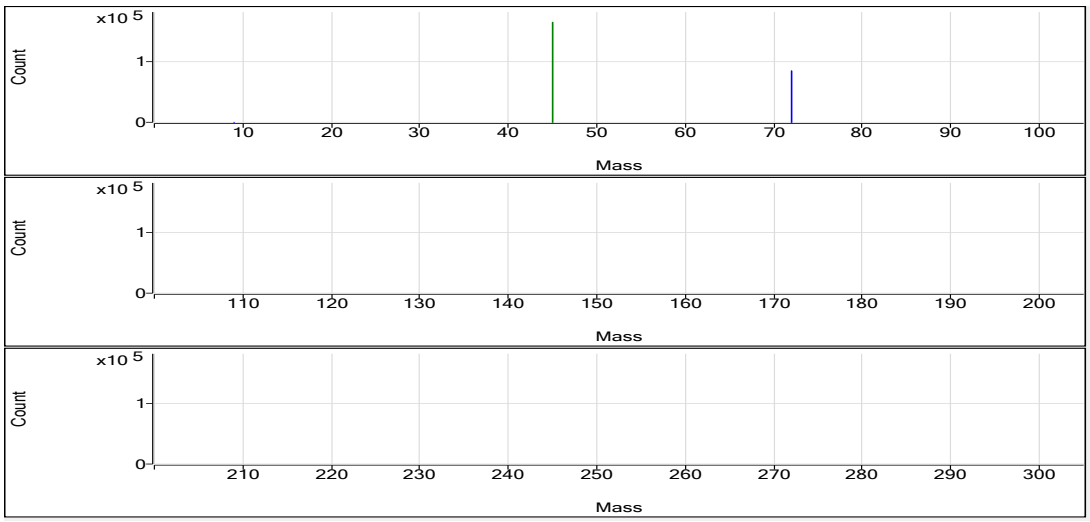
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.151	ppb	23.6	126.67	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.631	ppb	16.7	30.45	0.0003	Pulse	1.5000	3
Na	23	45	He	13661.065	ppb	2.0	1345350.71	34.8034	Analog	0.1000	3
Mg	24	45	He	21875.096	ppb	1.3	1024989.10	26.5142	Pulse	0.1000	3
Al	27	45	He	399.448	ppb	5.9	6031.30	0.1560	Pulse	0.1000	3
K	39	45	He	2375.685	ppb	3.3	111708.23	2.8896	Pulse	0.5000	3
Ca	44	45	He	63695.035	ppb	1.9	129779.14	3.3573	Pulse	0.5000	3
Ti	47	45	He	-0.860	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	-0.147	ppb	N/A	908.70	0.0235	Pulse	0.5000	3
Cr	52	45	He	0.433	ppb	1.7	2320.25	0.0600	Pulse	0.1000	3
Mn	55	45	He	2318.639	ppb	1.3	817389.90	21.1441	Pulse	0.5000	3
Fe	57	45	He	5.397	ppb	33.7	410.02	0.0106	Pulse	0.1000	3
Co	59	45	He	15.656	ppb	1.7	25220.19	0.6524	Pulse	0.5000	3
Ni	60	45	He	8.959	ppb	1.4	4520.65	0.1169	Pulse	0.5000	3
Cu	63	72	He	-0.016	ppb	N/A	964.70	0.0141	Pulse	0.5000	3
Zn	66	72	He	11.307	ppb	1.1	1945.46	0.0285	Pulse	0.5000	3
As	75	72	He	1.714	ppb	6.1	302.00	0.0044	Pulse	0.5000	3
Sr	88	115	He	64.175	ppb	3.3	27868.54	0.5284	Pulse	0.1000	3
Mo	98	115	He	-0.017	ppb	N/A	63.33	0.0012	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.142	ppb	39.4	33.33	0.0006	Pulse	0.5000	3
Sn	120	115	He	0.192	ppb	117.8	706.71	0.0134	Pulse	0.1000	3
Sb	121	115	He	-0.009	ppb	N/A	13.33	0.0003	Pulse	0.3000	3
Ba	137	115	He	17.259	ppb	6.6	3570.52	0.0677	Pulse	0.1000	3
Tl	205	159	He	-0.008	ppb	N/A	230.01	0.0012	Pulse	0.1000	3
Pb	208	159	He	-0.013	ppb	N/A	226.67	0.0012	Pulse	0.1000	3
U	238	159	He	0.045	ppb	22.8	236.68	0.0012	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1648230.13	1.1	96.5	Analog	0.1000	3
No Gas	Ge	72	848165.90	0.4	98.2	Pulse	0.1000	3
H2	Sc	45	129821.19	1.8	97.2	Pulse	0.1000	3
H2	Ge	72	98976.85	1.2	99.9	Pulse	0.1000	3
H2	In	115	241925.12	1.2	94.3	Pulse	0.1000	3
He	Sc	45	38662.87	1.5	98.0	Pulse	0.1000	3
He	Ge	72	68251.85	1.7	100.2	Pulse	0.1000	3
He	In	115	52741.81	0.8	95.2	Pulse	0.1000	3
He	Tb	159	193373.35	0.9	94.4	Pulse	0.1000	3
He	Bi	209	142147.01	1.3	94.0	Pulse	0.1000	3

No Gas



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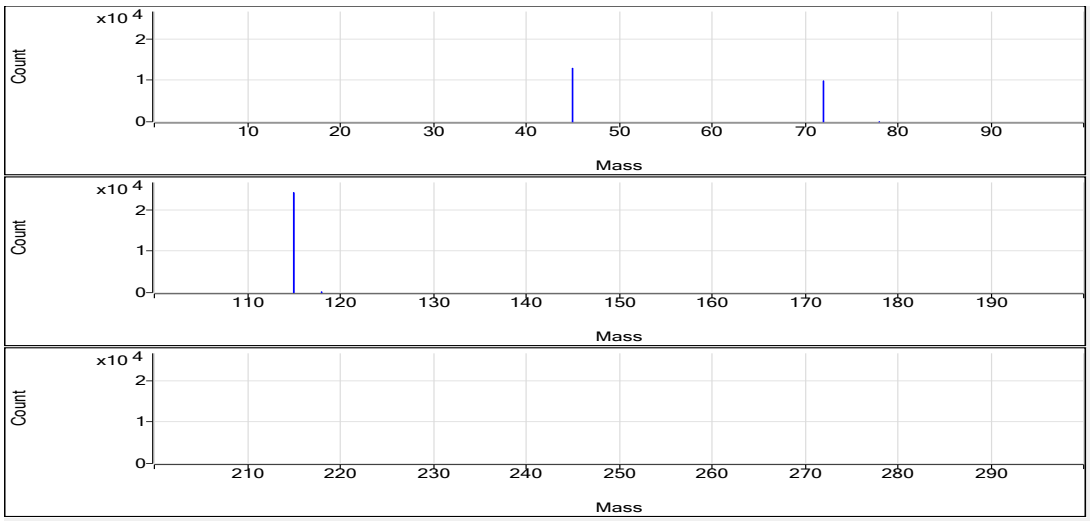
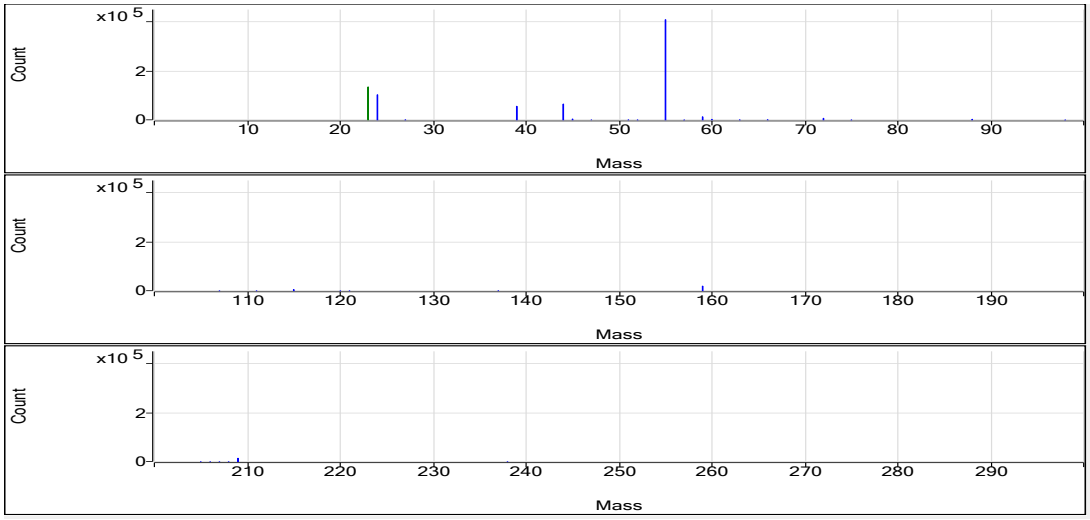


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.111	0.0001	104.00	0.0003	2.616E-05
Be	9	1	No Gas	0.161	0.0001	134.00	0.0003	2.616E-05
Be	9	1	No Gas	0.18	0.0001	142.00	0.0003	2.616E-05
Se	78	2	H2	0.683	0.0003	32.67	0.0004	6.3E-05
Se	78	2	H2	0.51	0.0003	26.00	0.0004	6.3E-05
Se	78	2	H2	0.701	0.0003	32.67	0.0004	6.3E-05
Na	23	3	He	13745.853	35.0148	1353538.10	0.0025	0.7502
Na	23	3	He	13350.827	34.0301	1334916.54	0.0025	0.7502
Na	23	3	He	13886.516	35.3654	1347597.48	0.0025	0.7502
Mg	24	3	He	21870.862	26.5091	1024738.73	0.0012	0.02618
Mg	24	3	He	21600.22	26.1813	1027029.05	0.0012	0.02618
Mg	24	3	He	22154.207	26.8522	1023199.52	0.0012	0.02618
Al	27	3	He	424.319	0.1653	6391.43	0.0004	0.005329
Al	27	3	He	396.968	0.155	6081.30	0.0004	0.005329
Al	27	3	He	377.057	0.1475	5621.17	0.0004	0.005329
K	39	3	He	2458.586	2.9719	114883.05	0.001	0.5307
K	39	3	He	2302.297	2.8167	110493.41	0.001	0.5307
K	39	3	He	2366.173	2.8802	109748.24	0.001	0.5307
Ca	44	3	He	63571.62	3.3508	129529.84	0.0001	0.004441
Ca	44	3	He	62520.528	3.2955	129273.88	0.0001	0.004441
Ca	44	3	He	64992.958	3.4256	130533.69	0.0001	0.004441
Ti	47	3	He	-0.862	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.99	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.73	0.0002	6.00	0.0004	0.0004559
V	51	3	He	-0.083	0.0246	952.03	0.0176	0.02609
V	51	3	He	-0.249	0.0217	852.03	0.0176	0.02609
V	51	3	He	-0.108	0.0242	922.03	0.0176	0.02609
Cr	52	3	He	0.433	0.06	2320.25	0.0217	0.05061
Cr	52	3	He	0.44	0.0602	2360.26	0.0217	0.05061
Cr	52	3	He	0.425	0.0598	2280.23	0.0217	0.05061
Mn	55	3	He	2317.141	21.1304	816820.38	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2290.067	20.8836	819212.75	0.0091	0.01071
Mn	55	3	He	2348.71	21.4181	816136.56	0.0091	0.01071
Fe	57	3	He	7.339	0.0114	440.02	0.0004	0.008452
Fe	57	3	He	3.732	0.0099	390.02	0.0004	0.008452
Fe	57	3	He	5.122	0.0105	400.01	0.0004	0.008452
Co	59	3	He	15.795	0.6582	25441.87	0.0413	0.006013
Co	59	3	He	15.344	0.6395	25087.31	0.0413	0.006013
Co	59	3	He	15.828	0.6595	25131.40	0.0413	0.006013
Ni	60	3	He	9.052	0.118	4562.66	0.0117	0.01172
Ni	60	3	He	8.819	0.1153	4522.65	0.0117	0.01172
Ni	60	3	He	9.005	0.1175	4476.64	0.0117	0.01172
Cu	63	3	He	-0.068	0.0131	894.03	0.0196	0.01443
Cu	63	3	He	-0.002	0.0144	966.03	0.0196	0.01443
Cu	63	3	He	0.023	0.0149	1034.04	0.0196	0.01443
Zn	66	3	He	11.439	0.0288	1964.13	0.0023	0.002807
Zn	66	3	He	11.29	0.0285	1910.12	0.0023	0.002807
Zn	66	3	He	11.192	0.0282	1962.13	0.0023	0.002807
As	75	3	He	1.779	0.0045	310.00	0.0018	0.001271
As	75	3	He	1.771	0.0045	304.00	0.0018	0.001271
As	75	3	He	1.593	0.0042	292.00	0.0018	0.001271
Sr	88	3	He	63.268	0.521	27264.05	0.0082	0.00114
Sr	88	3	He	66.625	0.5485	28917.06	0.0082	0.00114
Sr	88	3	He	62.632	0.5157	27424.52	0.0082	0.00114
Mo	98	3	He	0.023	0.0019	100.00	0.0177	0.001504
Mo	98	3	He	-0.01	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	-0.064	0.0004	20.00	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.081	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.192	0.0008	44.00	0.0041	4.798E-05
Cd	111	3	He	0.153	0.0007	36.00	0.0041	4.798E-05
Sn	120	3	He	0.131	0.0126	660.04	0.0126	0.01097
Sn	120	3	He	0.003	0.011	580.03	0.0126	0.01097
Sn	120	3	He	0.444	0.0165	880.05	0.0126	0.01097
Sb	121	3	He	-0.025	0.0001	3.33	0.012	0.0003595
Sb	121	3	He	0.017	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	-0.019	0.0001	6.67	0.012	0.0003595
Ba	137	3	He	18.03	0.0707	3700.56	0.0039	0.0003633
Ba	137	3	He	15.954	0.0626	3300.45	0.0039	0.0003633
Ba	137	3	He	17.792	0.0698	3710.55	0.0039	0.0003633
Tl	205	3	He	0.007	0.0015	280.01	0.0189	0.001334
Tl	205	3	He	-0.018	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.011	0.0011	220.01	0.0189	0.001334
Pb	208	3	He	-0.037	0.0006	60.00	0.0252	0.001497
Pb	208	3	He	-0.006	0.0013	140.00	0.0252	0.001497
Pb	208	3	He	0.004	0.0016	180.01	0.0252	0.001497
U	238	3	He	0.053	0.0014	270.01	0.0245	0.0001141
U	238	3	He	0.033	0.0009	180.01	0.0245	0.0001141
U	238	3	He	0.05	0.0013	260.01	0.0245	0.0001141
Sc	45	1	No Gas			1637517.79		
Sc	45	1	No Gas			1668716.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1638455.91		
Ge	72	1	No Gas			851836.39		
Ge	72	1	No Gas			846699.83		
Ge	72	1	No Gas			845961.47		
Sc	45	2	H2			131827.51		
Sc	45	2	H2			127332.97		
Sc	45	2	H2			130303.08		
Ge	72	2	H2			99587.74		
Ge	72	2	H2			99757.61		
Ge	72	2	H2			97585.21		
In	115	2	H2			244430.64		
In	115	2	H2			238823.41		
In	115	2	H2			242521.32		
Sc	45	3	He			38656.17		
Sc	45	3	He			39227.51		
Sc	45	3	He			38104.93		
Ge	72	3	He			68185.39		
Ge	72	3	He			67100.08		
Ge	72	3	He			69470.08		
In	115	3	He			52338.86		
In	115	3	He			52720.01		
In	115	3	He			53181.40		
Tb	159	3	He			192098.36		
Tb	159	3	He			192673.88		
Tb	159	3	He			195347.81		
Bi	209	3	He			142632.20		
Bi	209	3	He			140087.01		
Bi	209	3	He			143721.82		

Quantitation Report

Data File Name	234SMPL.d
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Acq Time	7/10/2025 6:33:49 PM
Sample Name	410-229713-M-1-A
Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

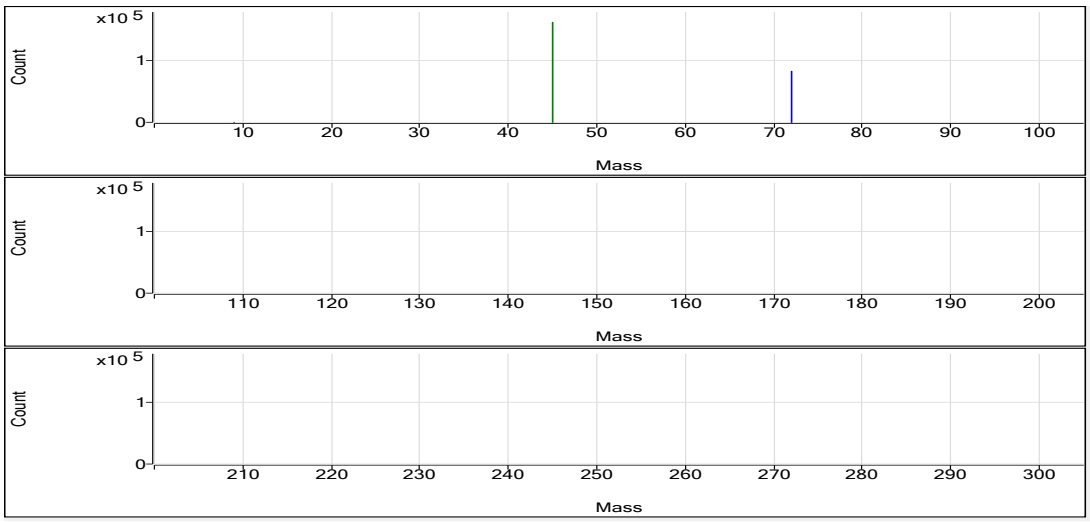
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.229	ppb	21.1	169.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.046	ppb	199.0	8.00	0.0001	Pulse	1.5000	3
Na	23	45	He	32167.850	ppb	1.3	3145196.62	80.9358	Analog	0.1000	3
Mg	24	45	He	8058.974	ppb	1.0	380245.18	9.7846	Pulse	0.1000	3
Al	27	45	He	658.398	ppb	0.8	9856.52	0.2536	Pulse	0.1000	3
K	39	45	He	2977.320	ppb	4.1	135470.56	3.4870	Pulse	0.5000	3
Ca	44	45	He	29144.476	ppb	1.4	59789.78	1.5386	Pulse	0.5000	3
Ti	47	45	He	-0.776	ppb	N/A	5.33	0.0001	Pulse	0.5000	3
V	51	45	He	-0.175	ppb	N/A	893.37	0.0230	Pulse	0.5000	3
Cr	52	45	He	2.526	ppb	7.2	4100.62	0.1055	Pulse	0.1000	3
Mn	55	45	He	11285.552	ppb	3.0	3996971.00	102.8734	Analog	0.5000	3
Fe	57	45	He	103330.051	ppb	3.1	1603487.22	41.2720	Analog	0.1000	3
Co	59	45	He	44.224	ppb	1.5	71194.47	1.8320	Pulse	0.5000	3
Ni	60	45	He	66.198	ppb	1.6	30668.13	0.7892	Pulse	0.5000	3
Cu	63	72	He	1.046	ppb	2.8	2371.52	0.0349	Pulse	0.5000	3
Zn	66	72	He	231.165	ppb	1.8	35879.59	0.5282	Pulse	0.5000	3
As	75	72	He	22.853	ppb	0.1	2944.29	0.0433	Pulse	0.5000	3
Sr	88	115	He	41.149	ppb	6.3	18080.86	0.3392	Pulse	0.1000	3
Mo	98	115	He	3.289	ppb	2.9	3187.10	0.0598	Pulse	0.1000	3
Ag	107	115	He	-0.009	ppb	N/A	53.33	0.0010	Pulse	0.1000	3
Cd	111	115	He	0.040	ppb	102.4	11.33	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.177	ppb	7.5	703.38	0.0132	Pulse	0.1000	3
Sb	121	115	He	0.027	ppb	59.5	36.67	0.0007	Pulse	0.3000	3
Ba	137	115	He	16.115	ppb	8.6	3370.48	0.0632	Pulse	0.1000	3
Tl	205	159	He	-0.030	ppb	N/A	146.68	0.0008	Pulse	0.1000	3
Pb	208	159	He	-0.009	ppb	N/A	246.67	0.0013	Pulse	0.1000	3
U	238	159	He	0.042	ppb	10.2	220.01	0.0011	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1636670.96	1.1	95.8	Analog	0.1000	3
No Gas	Ge	72	837091.26	0.4	96.9	Pulse	0.1000	3
H2	Sc	45	130767.41	0.2	97.9	Pulse	0.1000	3
H2	Ge	72	98875.95	0.5	99.8	Pulse	0.1000	3
H2	In	115	246651.04	0.9	96.1	Pulse	0.1000	3
He	Sc	45	38866.54	1.9	98.5	Pulse	0.1000	3
He	Ge	72	67937.50	1.0	99.7	Pulse	0.1000	3
He	In	115	53327.09	1.2	96.2	Pulse	0.1000	3
He	Tb	159	192298.85	0.9	93.9	Pulse	0.1000	3
He	Bi	209	145806.90	0.4	96.4	Pulse	0.1000	3

No Gas



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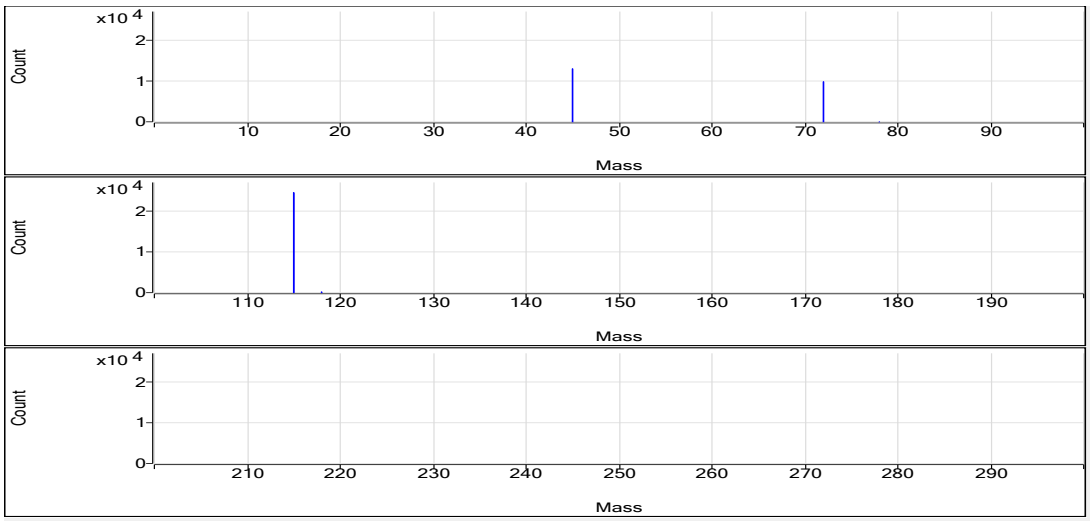
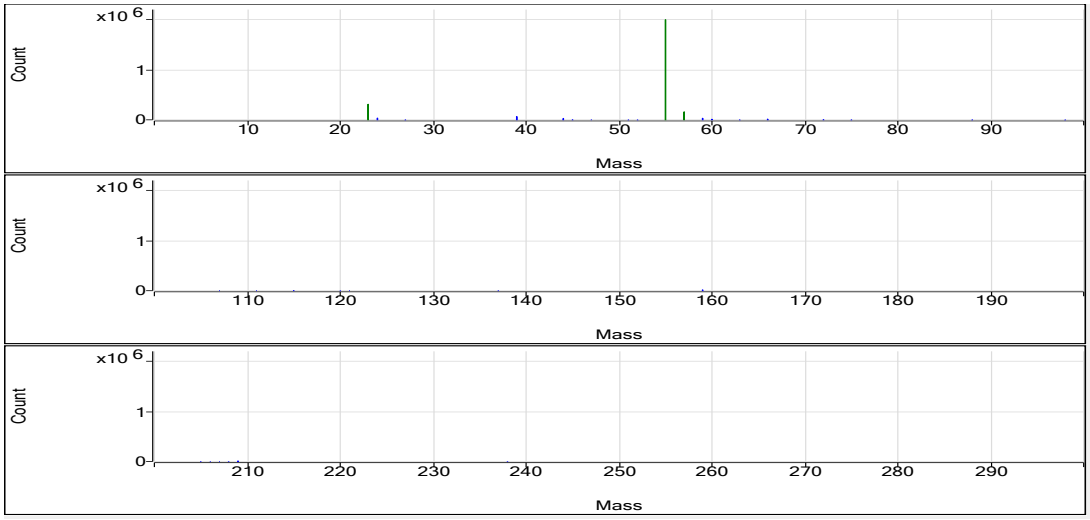


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.175	0.0001	138.00	0.0003	2.616E-05
Be	9	1	No Gas	0.266	0.0001	192.00	0.0003	2.616E-05
Be	9	1	No Gas	0.247	0.0001	178.00	0.0003	2.616E-05
Se	78	2	H2	0.115	0.0001	10.67	0.0004	6.3E-05
Se	78	2	H2	-0.058	0	4.00	0.0004	6.3E-05
Se	78	2	H2	0.082	0.0001	9.33	0.0004	6.3E-05
Na	23	3	He	32624.814	82.0748	3121692.77	0.0025	0.7502
Na	23	3	He	31832.127	80.0989	3156520.27	0.0025	0.7502
Na	23	3	He	32046.607	80.6335	3157376.83	0.0025	0.7502
Mg	24	3	He	8150.712	9.8957	376379.14	0.0012	0.02618
Mg	24	3	He	7994.809	9.7069	382527.30	0.0012	0.02618
Mg	24	3	He	8031.402	9.7512	381829.10	0.0012	0.02618
Al	27	3	He	662.376	0.2551	9703.12	0.0004	0.005329
Al	27	3	He	660.351	0.2543	10023.32	0.0004	0.005329
Al	27	3	He	652.465	0.2514	9843.11	0.0004	0.005329
K	39	3	He	3116.516	3.6252	137883.94	0.001	0.5307
K	39	3	He	2913.558	3.4237	134919.91	0.001	0.5307
K	39	3	He	2901.885	3.4121	133607.83	0.001	0.5307
Ca	44	3	He	29614.334	1.5633	59460.60	0.0001	0.004441
Ca	44	3	He	28985.913	1.5302	60303.57	0.0001	0.004441
Ca	44	3	He	28833.181	1.5222	59605.17	0.0001	0.004441
Ti	47	3	He	-0.472	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.742	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	-0.043	0.0253	964.04	0.0176	0.02609
V	51	3	He	-0.306	0.0207	816.03	0.0176	0.02609
V	51	3	He	-0.177	0.023	900.03	0.0176	0.02609
Cr	52	3	He	2.476	0.1044	3970.59	0.0217	0.05061
Cr	52	3	He	2.729	0.1099	4330.69	0.0217	0.05061
Cr	52	3	He	2.373	0.1022	4000.59	0.0217	0.05061
Mn	55	3	He	11660.683	106.2925	4042806.25	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	11176.68	101.8811	4014908.00	0.0091	0.01071
Mn	55	3	He	11019.294	100.4466	3933198.75	0.0091	0.01071
Fe	57	3	He	107037.493	42.7525	1626079.35	0.0004	0.008452
Fe	57	3	He	101581.116	40.5736	1598914.98	0.0004	0.008452
Fe	57	3	He	101371.543	40.4899	1585467.32	0.0004	0.008452
Co	59	3	He	44.753	1.8538	70509.37	0.0413	0.006013
Co	59	3	He	44.422	1.8402	72516.33	0.0413	0.006013
Co	59	3	He	43.496	1.8019	70557.72	0.0413	0.006013
Ni	60	3	He	67.444	0.8039	30574.57	0.0117	0.01172
Ni	60	3	He	65.536	0.7814	30795.07	0.0117	0.01172
Ni	60	3	He	65.614	0.7824	30634.76	0.0117	0.01172
Cu	63	3	He	1.08	0.0356	2442.20	0.0196	0.01443
Cu	63	3	He	1.026	0.0345	2326.18	0.0196	0.01443
Cu	63	3	He	1.033	0.0346	2346.18	0.0196	0.01443
Zn	66	3	He	227.263	0.5193	35665.16	0.0023	0.002807
Zn	66	3	He	235.687	0.5385	36298.50	0.0023	0.002807
Zn	66	3	He	230.544	0.5268	35675.11	0.0023	0.002807
As	75	3	He	22.821	0.0433	2972.29	0.0018	0.001271
As	75	3	He	22.876	0.0434	2924.28	0.0018	0.001271
As	75	3	He	22.863	0.0434	2936.29	0.0018	0.001271
Sr	88	3	He	38.947	0.3211	17289.86	0.0082	0.00114
Sr	88	3	He	40.488	0.3338	17880.65	0.0082	0.00114
Sr	88	3	He	44.013	0.3628	19072.07	0.0082	0.00114
Mo	98	3	He	3.366	0.0611	3290.46	0.0177	0.001504
Mo	98	3	He	3.32	0.0603	3230.45	0.0177	0.001504
Mo	98	3	He	3.18	0.0578	3040.38	0.0177	0.001504
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0011	60.00	0.0368	0.001325
Cd	111	3	He	0.079	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.043	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.162	0.013	700.04	0.0126	0.01097
Sn	120	3	He	0.182	0.0133	710.04	0.0126	0.01097
Sn	120	3	He	0.187	0.0133	700.05	0.0126	0.01097
Sb	121	3	He	0.011	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.027	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.044	0.0009	46.67	0.012	0.0003595
Ba	137	3	He	16.095	0.0632	3400.49	0.0039	0.0003633
Ba	137	3	He	14.742	0.0579	3100.42	0.0039	0.0003633
Ba	137	3	He	17.509	0.0687	3610.54	0.0039	0.0003633
Tl	205	3	He	-0.035	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.032	0.0007	140.01	0.0189	0.001334
Tl	205	3	He	-0.023	0.0009	170.01	0.0189	0.001334
Pb	208	3	He	-0.008	0.0013	170.01	0.0252	0.001497
Pb	208	3	He	0.01	0.0018	200.01	0.0252	0.001497
Pb	208	3	He	-0.028	0.0008	110.00	0.0252	0.001497
U	238	3	He	0.037	0.001	200.01	0.0245	0.0001141
U	238	3	He	0.046	0.0012	240.01	0.0245	0.0001141
U	238	3	He	0.042	0.0012	220.01	0.0245	0.0001141
Sc	45	1	No Gas			1624635.44		
Sc	45	1	No Gas			1658094.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1627282.63		
Ge	72	1	No Gas			833384.05		
Ge	72	1	No Gas			839068.58		
Ge	72	1	No Gas			838821.16		
Sc	45	2	H2			130646.08		
Sc	45	2	H2			130615.99		
Sc	45	2	H2			131040.16		
Ge	72	2	H2			99235.30		
Ge	72	2	H2			99063.23		
Ge	72	2	H2			98329.33		
In	115	2	H2			249193.34		
In	115	2	H2			244644.59		
In	115	2	H2			246115.19		
Sc	45	3	He			38034.71		
Sc	45	3	He			39407.79		
Sc	45	3	He			39157.12		
Ge	72	3	He			68677.14		
Ge	72	3	He			67411.42		
Ge	72	3	He			67723.95		
In	115	3	He			53843.95		
In	115	3	He			53572.51		
In	115	3	He			52579.58		
Tb	159	3	He			193527.54		
Tb	159	3	He			193061.42		
Tb	159	3	He			190307.59		
Bi	209	3	He			146499.56		
Bi	209	3	He			145471.47		
Bi	209	3	He			145449.68		

Quantitation Report

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Sample Type	Sample
Comment	MS F8
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

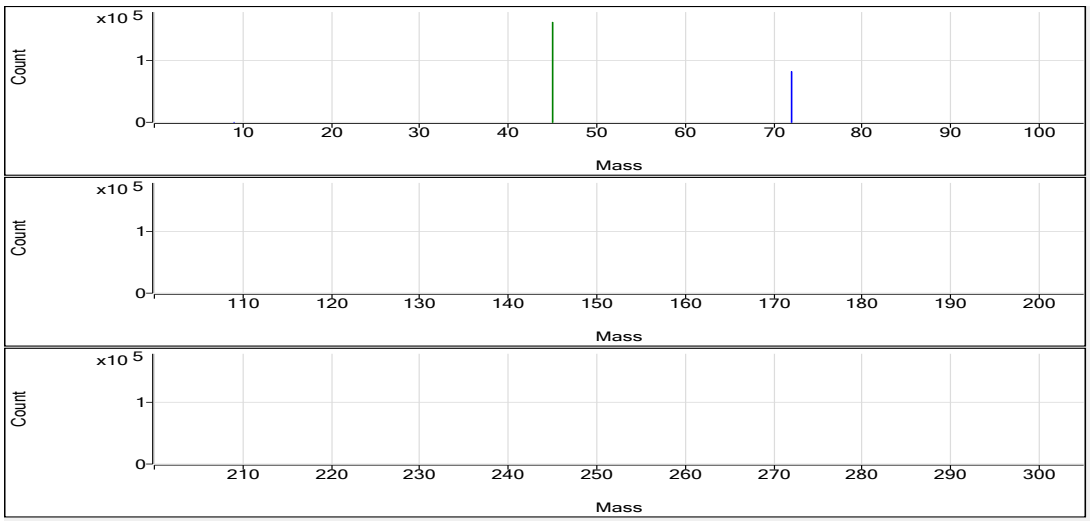
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.030	ppb	N/A	26.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.099	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	738.087	ppb	2.4	100390.83	2.5900	Pulse	0.1000	3
Mg	24	45	He	19.741	ppb	18.1	1940.17	0.0501	Pulse	0.1000	3
Al	27	45	He	33.134	ppb	21.6	690.04	0.0178	Pulse	0.1000	3
K	39	45	He	7.780	ppb	949.1	20854.67	0.5384	Pulse	0.5000	3
Ca	44	45	He	332.310	ppb	17.9	849.36	0.0219	Pulse	0.5000	3
Ti	47	45	He	-0.611	ppb	N/A	8.00	0.0002	Pulse	0.5000	3
V	51	45	He	-0.249	ppb	N/A	842.03	0.0217	Pulse	0.5000	3
Cr	52	45	He	-0.639	ppb	N/A	1423.45	0.0367	Pulse	0.1000	3
Mn	55	45	He	9.158	ppb	10.8	3649.76	0.0942	Pulse	0.5000	3
Fe	57	45	He	75.113	ppb	17.6	1490.11	0.0384	Pulse	0.1000	3
Co	59	45	He	-0.021	ppb	N/A	200.00	0.0052	Pulse	0.5000	3
Ni	60	45	He	-0.117	ppb	N/A	400.68	0.0103	Pulse	0.5000	3
Cu	63	72	He	-0.125	ppb	N/A	810.03	0.0120	Pulse	0.5000	3
Zn	66	72	He	1.209	ppb	23.4	375.34	0.0056	Pulse	0.5000	3
As	75	72	He	2.077	ppb	11.4	344.01	0.0051	Pulse	0.5000	3
Sr	88	115	He	0.734	ppb	28.6	380.02	0.0072	Pulse	0.1000	3
Mo	98	115	He	-0.028	ppb	N/A	53.33	0.0010	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	-0.009	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.417	ppb	32.0	860.06	0.0162	Pulse	0.1000	3
Sb	121	115	He	0.085	ppb	17.7	73.33	0.0014	Pulse	0.3000	3
Ba	137	115	He	1.275	ppb	14.5	283.35	0.0053	Pulse	0.1000	3
Tl	205	159	He	-0.054	ppb	N/A	60.00	0.0003	Pulse	0.1000	3
Pb	208	159	He	0.011	ppb	123.0	343.34	0.0018	Pulse	0.1000	3
U	238	159	He	-0.005	ppb	0.0	0.00	0.0000	Pulse	0.1000	3

ISTD Table:

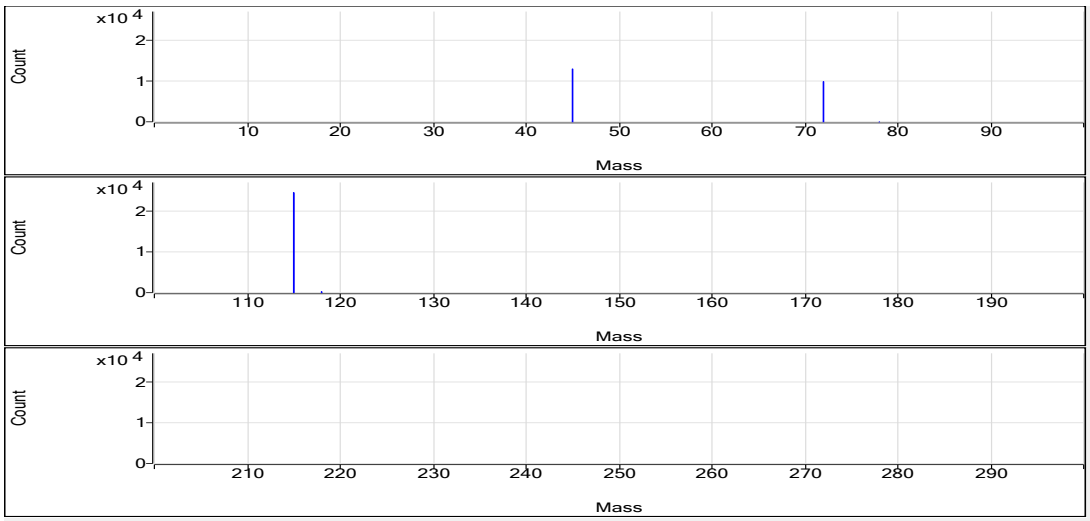
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1637227.84	0.3	95.8	Analog	0.1000	3
No Gas	Ge	72	830681.68	0.8	96.2	Pulse	0.1000	3
H2	Sc	45	130079.81	1.6	97.4	Pulse	0.1000	3
H2	Ge	72	98936.73	1.1	99.9	Pulse	0.1000	3
H2	In	115	246031.28	1.4	95.9	Pulse	0.1000	3
He	Sc	45	38766.49	1.5	98.2	Pulse	0.1000	3
He	Ge	72	67572.29	1.6	99.2	Pulse	0.1000	3
He	In	115	53081.80	1.1	95.8	Pulse	0.1000	3
He	Tb	159	193589.55	0.9	94.5	Pulse	0.1000	3
He	Bi	209	144529.72	0.6	95.5	Pulse	0.1000	3

No Gas

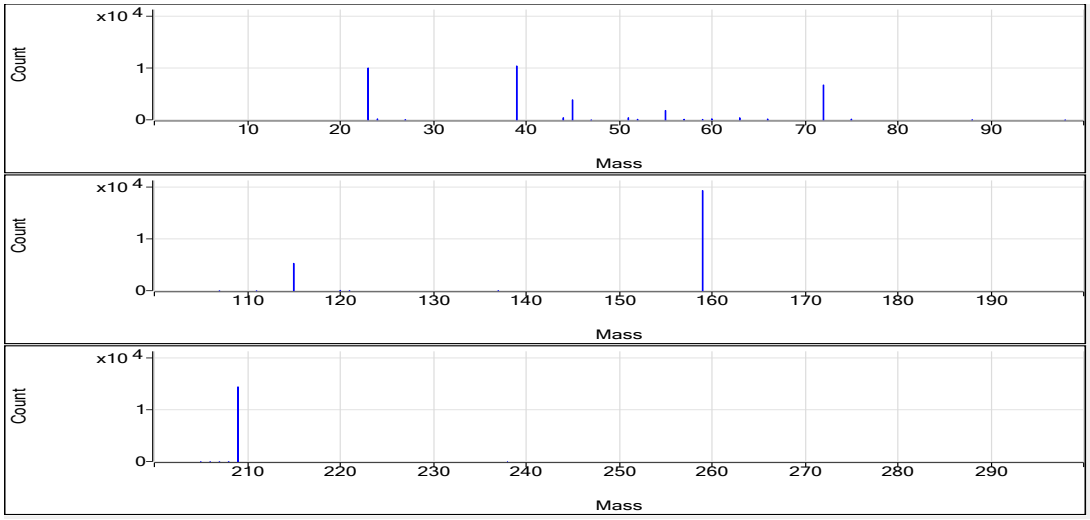


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.005	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.049	0	16.00	0.0003	2.616E-05
Se	78	2	H2	-0.127	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.076	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Na	23	3	He	756.781	2.6366	100944.68	0.0025	0.7502
Na	23	3	He	721.993	2.5499	100460.79	0.0025	0.7502
Na	23	3	He	735.487	2.5835	99767.03	0.0025	0.7502
Mg	24	3	He	23.681	0.0549	2100.20	0.0012	0.02618
Mg	24	3	He	16.741	0.0465	1830.15	0.0012	0.02618
Mg	24	3	He	18.801	0.0489	1890.16	0.0012	0.02618
Al	27	3	He	36.433	0.0191	730.04	0.0004	0.005329
Al	27	3	He	24.909	0.0147	580.03	0.0004	0.005329
Al	27	3	He	38.06	0.0197	760.04	0.0004	0.005329
K	39	3	He	91.714	0.6217	23803.21	0.001	0.5307
K	39	3	He	-21.234	0.5096	20076.21	0.001	0.5307
K	39	3	He	-47.141	0.4839	18684.60	0.001	0.5307
Ca	44	3	He	400.932	0.0255	978.03	0.0001	0.004441
Ca	44	3	He	293.682	0.0199	784.02	0.0001	0.004441
Ca	44	3	He	302.316	0.0204	786.02	0.0001	0.004441
Ti	47	3	He	-0.604	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.494	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.735	0.0002	6.00	0.0004	0.0004559
V	51	3	He	-0.242	0.0218	836.03	0.0176	0.02609
V	51	3	He	-0.251	0.0217	854.03	0.0176	0.02609
V	51	3	He	-0.253	0.0216	836.03	0.0176	0.02609
Cr	52	3	He	-0.49	0.04	1530.13	0.0217	0.05061
Cr	52	3	He	-0.659	0.0363	1430.11	0.0217	0.05061
Cr	52	3	He	-0.768	0.0339	1310.10	0.0217	0.05061
Mn	55	3	He	10.203	0.1037	3970.50	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	9.024	0.093	3662.43	0.0091	0.01071
Mn	55	3	He	8.247	0.0859	3316.36	0.0091	0.01071
Fe	57	3	He	87.419	0.0434	1660.13	0.0004	0.008452
Fe	57	3	He	76.725	0.0391	1540.12	0.0004	0.008452
Fe	57	3	He	61.196	0.0329	1270.09	0.0004	0.008452
Co	59	3	He	-0.033	0.0046	178.00	0.0413	0.006013
Co	59	3	He	-0.024	0.005	198.00	0.0413	0.006013
Co	59	3	He	-0.005	0.0058	224.00	0.0413	0.006013
Ni	60	3	He	-0.063	0.011	420.01	0.0117	0.01172
Ni	60	3	He	-0.159	0.0098	388.01	0.0117	0.01172
Ni	60	3	He	-0.129	0.0102	394.01	0.0117	0.01172
Cu	63	3	He	-0.119	0.0121	834.03	0.0196	0.01443
Cu	63	3	He	-0.174	0.011	740.02	0.0196	0.01443
Cu	63	3	He	-0.083	0.0128	856.03	0.0196	0.01443
Zn	66	3	He	1.257	0.0057	390.01	0.0023	0.002807
Zn	66	3	He	0.905	0.0049	326.01	0.0023	0.002807
Zn	66	3	He	1.464	0.0061	410.01	0.0023	0.002807
As	75	3	He	1.914	0.0048	330.01	0.0018	0.001271
As	75	3	He	1.968	0.0049	328.01	0.0018	0.001271
As	75	3	He	2.349	0.0056	374.01	0.0018	0.001271
Sr	88	3	He	0.588	0.006	320.01	0.0082	0.00114
Sr	88	3	He	0.639	0.0064	340.02	0.0082	0.00114
Sr	88	3	He	0.975	0.0091	480.03	0.0082	0.00114
Mo	98	3	He	-0.043	0.0007	40.00	0.0177	0.001504
Mo	98	3	He	0.011	0.0017	90.00	0.0177	0.001504
Mo	98	3	He	-0.053	0.0006	30.00	0.0177	0.001504
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	0.005	0.0015	80.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.286	0.0146	780.04	0.0126	0.01097
Sn	120	3	He	0.413	0.0162	860.06	0.0126	0.01097
Sn	120	3	He	0.552	0.0179	940.07	0.0126	0.01097
Sb	121	3	He	0.073	0.0012	66.67	0.012	0.0003595
Sb	121	3	He	0.079	0.0013	70.00	0.012	0.0003595
Sb	121	3	He	0.102	0.0016	83.33	0.012	0.0003595
Ba	137	3	He	1.391	0.0058	310.02	0.0039	0.0003633
Ba	137	3	He	1.063	0.0045	240.01	0.0039	0.0003633
Ba	137	3	He	1.373	0.0057	300.01	0.0039	0.0003633
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.059	0.0002	40.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	0.01	0.0017	210.01	0.0252	0.001497
Pb	208	3	He	-0.002	0.0015	170.01	0.0252	0.001497
Pb	208	3	He	0.025	0.0021	230.01	0.0252	0.001497
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
Sc	45	1	No Gas			1633654.98		
Sc	45	1	No Gas			1635649.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1642379.51		
Ge	72	1	No Gas			828140.53		
Ge	72	1	No Gas			837875.30		
Ge	72	1	No Gas			826029.21		
Sc	45	2	H2			129155.08		
Sc	45	2	H2			132502.23		
Sc	45	2	H2			128582.12		
Ge	72	2	H2			97756.40		
Ge	72	2	H2			99285.60		
Ge	72	2	H2			99768.20		
In	115	2	H2			246560.60		
In	115	2	H2			249192.83		
In	115	2	H2			242340.41		
Sc	45	3	He			38285.48		
Sc	45	3	He			39397.73		
Sc	45	3	He			38616.26		
Ge	72	3	He			68847.71		
Ge	72	3	He			67030.29		
Ge	72	3	He			66838.86		
In	115	3	He			53562.84		
In	115	3	He			53231.69		
In	115	3	He			52468.94		
Tb	159	3	He			195654.39		
Tb	159	3	He			192673.08		
Tb	159	3	He			192441.19		
Bi	209	3	He			145226.84		
Bi	209	3	He			144813.27		
Bi	209	3	He			143549.05		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
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Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

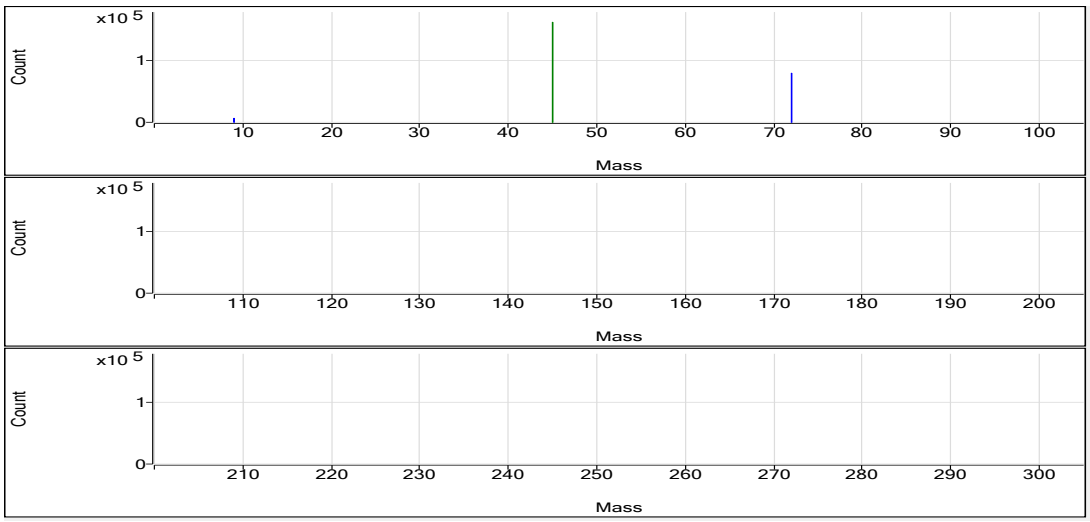
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.494	ppb	5.8	13540.11	0.0083	Pulse	0.5000	3
Se	78	72	H2	24.617	ppb	2.1	920.03	0.0096	Pulse	1.5000	3
Na	23	45	He	2479.168	ppb	1.6	269276.09	6.9301	Pulse	0.1000	3
Mg	24	45	He	2566.524	ppb	1.8	121768.09	3.1339	Pulse	0.1000	3
Al	27	45	He	2599.079	ppb	2.6	38288.19	0.9854	Pulse	0.1000	3
K	39	45	He	2596.352	ppb	1.5	120819.54	3.1087	Pulse	0.5000	3
Ca	44	45	He	2571.224	ppb	3.6	5430.26	0.1398	Pulse	0.5000	3
Ti	47	45	He	2562.671	ppb	2.0	40740.31	1.0485	Pulse	0.5000	3
V	51	45	He	260.385	ppb	2.0	178951.56	4.6059	Pulse	0.5000	3
Cr	52	45	He	256.953	ppb	2.8	218829.05	5.6328	Pulse	0.1000	3
Mn	55	45	He	259.418	ppb	1.8	92288.33	2.3752	Pulse	0.5000	3
Fe	57	45	He	2601.023	ppb	3.1	40681.55	1.0471	Pulse	0.1000	3
Co	59	45	He	256.252	ppb	2.3	411291.83	10.5863	Pulse	0.5000	3
Ni	60	45	He	255.137	ppb	2.0	116882.77	3.0083	Pulse	0.5000	3
Cu	63	72	He	255.295	ppb	0.4	326404.47	5.0085	Pulse	0.5000	3
Zn	66	72	He	254.898	ppb	0.8	37936.89	0.5821	Pulse	0.5000	3
As	75	72	He	255.167	ppb	1.6	30692.54	0.4710	Pulse	0.5000	3
Sr	88	115	He	24.264	ppb	3.3	10677.26	0.2005	Pulse	0.1000	3
Mo	98	115	He	24.643	ppb	3.0	23317.76	0.4380	Pulse	0.1000	3
Ag	107	115	He	24.972	ppb	3.7	48957.10	0.9196	Pulse	0.1000	3
Cd	111	115	He	25.027	ppb	3.6	5468.32	0.1027	Pulse	0.5000	3
Sn	120	115	He	25.316	ppb	2.5	17550.51	0.3296	Pulse	0.1000	3
Sb	121	115	He	24.867	ppb	1.5	15969.41	0.2999	Pulse	0.3000	3
Ba	137	115	He	247.368	ppb	2.0	51403.60	0.9655	Pulse	0.1000	3
Tl	205	159	He	24.701	ppb	1.1	89956.19	0.4692	Pulse	0.1000	3
Pb	208	159	He	25.401	ppb	0.4	122818.86	0.6405	Pulse	0.1000	3
U	238	159	He	25.588	ppb	0.5	120464.12	0.6283	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1637326.90	0.3	95.8	Analog	0.1000	3
No Gas	Ge	72	805561.50	0.1	93.2	Pulse	0.1000	3
H2	Sc	45	130641.30	0.1	97.8	Pulse	0.1000	3
H2	Ge	72	95757.16	1.5	96.7	Pulse	0.1000	3
H2	In	115	243468.60	1.2	94.9	Pulse	0.1000	3
He	Sc	45	38863.54	2.1	98.5	Pulse	0.1000	3
He	Ge	72	65169.46	0.2	95.7	Pulse	0.1000	3
He	In	115	53245.89	0.9	96.1	Pulse	0.1000	3
He	Tb	159	191747.28	0.6	93.6	Pulse	0.1000	3
He	Bi	209	141187.93	1.0	93.3	Pulse	0.1000	3

No Gas



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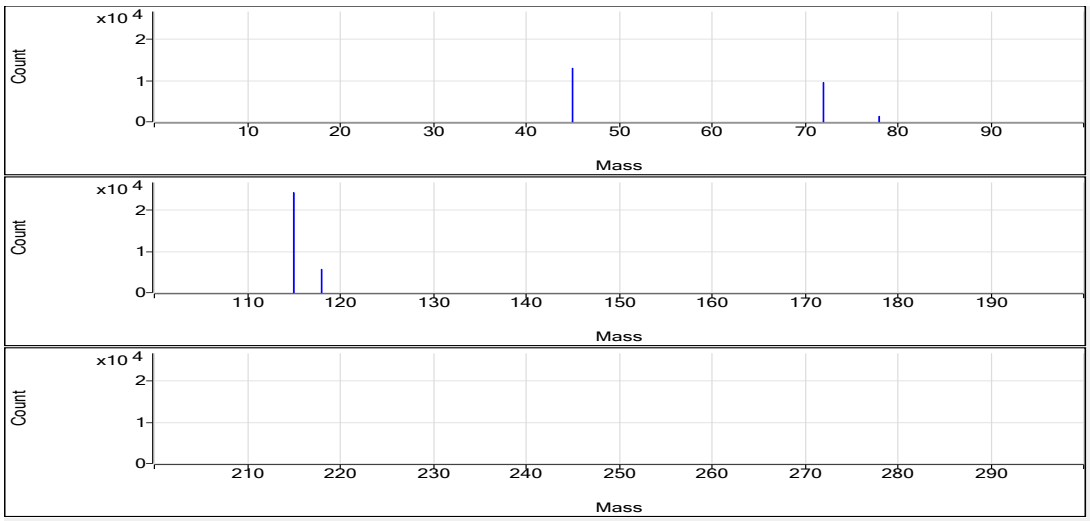
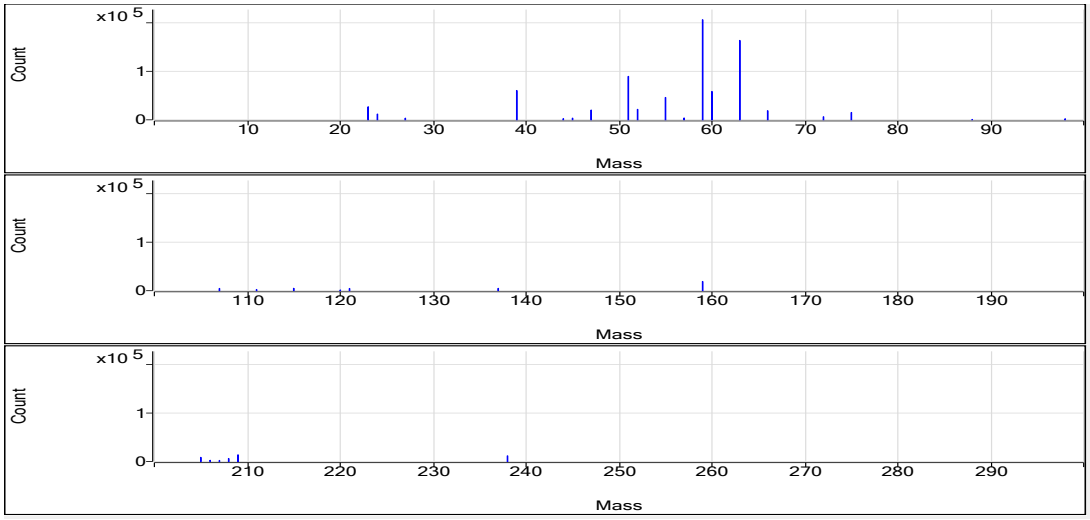


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	22.912	0.0077	12662.76	0.0003	2.616E-05
Be	9	1	No Gas	24.906	0.0084	13817.65	0.0003	2.616E-05
Be	9	1	No Gas	25.663	0.0087	14139.93	0.0003	2.616E-05
Se	78	2	H2	24.406	0.0095	912.03	0.0004	6.3E-05
Se	78	2	H2	25.212	0.0098	928.70	0.0004	6.3E-05
Se	78	2	H2	24.234	0.0095	919.36	0.0004	6.3E-05
Na	23	3	He	2437.024	6.825	270805.64	0.0025	0.7502
Na	23	3	He	2513.309	7.0152	267174.21	0.0025	0.7502
Na	23	3	He	2487.173	6.95	269848.41	0.0025	0.7502
Mg	24	3	He	2532.597	3.0928	122718.98	0.0012	0.02618
Mg	24	3	He	2618.457	3.1968	121751.05	0.0012	0.02618
Mg	24	3	He	2548.518	3.1121	120834.23	0.0012	0.02618
Al	27	3	He	2523.769	0.957	37974.05	0.0004	0.005329
Al	27	3	He	2616.688	0.9921	37783.78	0.0004	0.005329
Al	27	3	He	2656.781	1.0072	39106.73	0.0004	0.005329
K	39	3	He	2625	3.1372	124477.58	0.001	0.5307
K	39	3	He	2613.481	3.1257	119043.85	0.001	0.5307
K	39	3	He	2550.573	3.0633	118937.18	0.001	0.5307
Ca	44	3	He	2498.604	0.136	5394.92	0.0001	0.004441
Ca	44	3	He	2674.519	0.1452	5530.97	0.0001	0.004441
Ca	44	3	He	2540.551	0.1382	5364.89	0.0001	0.004441
Ti	47	3	He	2504.057	1.0245	40652.16	0.0004	0.0004559
Ti	47	3	He	2580.397	1.0558	40208.91	0.0004	0.0004559
Ti	47	3	He	2603.559	1.0652	41359.85	0.0004	0.0004559
V	51	3	He	254.602	4.5041	178717.44	0.0176	0.02609
V	51	3	He	264.911	4.6855	178447.02	0.0176	0.02609
V	51	3	He	261.642	4.628	179690.22	0.0176	0.02609
Cr	52	3	He	249.843	5.4784	217372.85	0.0217	0.05061
Cr	52	3	He	264.123	5.7886	220459.41	0.0217	0.05061
Cr	52	3	He	256.893	5.6315	218654.88	0.0217	0.05061
Mn	55	3	He	253.911	2.325	92252.15	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	261.934	2.3981	91332.91	0.0091	0.01071
Mn	55	3	He	262.409	2.4025	93279.93	0.0091	0.01071
Fe	57	3	He	2509.589	1.0106	40099.99	0.0004	0.008452
Fe	57	3	He	2637.208	1.0616	40430.79	0.0004	0.008452
Fe	57	3	He	2656.273	1.0692	41513.87	0.0004	0.008452
Co	59	3	He	250.042	10.3299	409874.19	0.0413	0.006013
Co	59	3	He	261.863	10.818	412004.03	0.0413	0.006013
Co	59	3	He	256.853	10.6111	411997.28	0.0413	0.006013
Ni	60	3	He	249.819	2.9459	116887.52	0.0117	0.01172
Ni	60	3	He	259.978	3.0652	116738.28	0.0117	0.01172
Ni	60	3	He	255.615	3.0139	117022.50	0.0117	0.01172
Cu	63	3	He	254.38	4.9906	325404.38	0.0196	0.01443
Cu	63	3	He	255.16	5.0059	325544.69	0.0196	0.01443
Cu	63	3	He	256.346	5.0291	328264.34	0.0196	0.01443
Zn	66	3	He	253.019	0.5779	37677.70	0.0023	0.002807
Zn	66	3	He	254.634	0.5815	37817.87	0.0023	0.002807
Zn	66	3	He	257.042	0.587	38315.11	0.0023	0.002807
As	75	3	He	250.948	0.4632	30202.32	0.0018	0.001271
As	75	3	He	259.124	0.4783	31101.99	0.0018	0.001271
As	75	3	He	255.43	0.4715	30773.31	0.0018	0.001271
Sr	88	3	He	23.654	0.1955	10303.58	0.0082	0.00114
Sr	88	3	He	25.171	0.208	11134.27	0.0082	0.00114
Sr	88	3	He	23.968	0.1981	10593.94	0.0082	0.00114
Mo	98	3	He	25.321	0.45	23718.52	0.0177	0.001504
Mo	98	3	He	24.746	0.4398	23548.00	0.0177	0.001504
Mo	98	3	He	23.862	0.4242	22686.76	0.0177	0.001504
Ag	107	3	He	25.688	0.946	49859.87	0.0368	0.001325
Ag	107	3	He	23.927	0.8812	47181.51	0.0368	0.001325
Ag	107	3	He	25.299	0.9316	49829.91	0.0368	0.001325
Cd	111	3	He	25.846	0.1061	5591.03	0.0041	4.798E-05
Cd	111	3	He	25.16	0.1033	5529.00	0.0041	4.798E-05
Cd	111	3	He	24.074	0.0988	5284.92	0.0041	4.798E-05
Sn	120	3	He	25.357	0.3301	17400.70	0.0126	0.01097
Sn	120	3	He	24.665	0.3214	17209.96	0.0126	0.01097
Sn	120	3	He	25.926	0.3373	18040.88	0.0126	0.01097
Sb	121	3	He	24.647	0.2973	15667.99	0.012	0.0003595
Sb	121	3	He	24.645	0.2972	15914.90	0.012	0.0003595
Sb	121	3	He	25.308	0.3052	16325.35	0.012	0.0003595
Ba	137	3	He	252.226	0.9844	51888.44	0.0039	0.0003633
Ba	137	3	He	247.717	0.9669	51767.99	0.0039	0.0003633
Ba	137	3	He	242.161	0.9452	50554.38	0.0039	0.0003633
Tl	205	3	He	24.762	0.4703	90439.37	0.0189	0.001334
Tl	205	3	He	24.941	0.4737	90207.23	0.0189	0.001334
Tl	205	3	He	24.398	0.4634	89221.98	0.0189	0.001334
Pb	208	3	He	25.283	0.6376	65969.19	0.0252	0.001497
Pb	208	3	He	25.451	0.6418	64473.25	0.0252	0.001497
Pb	208	3	He	25.47	0.6423	66401.16	0.0252	0.001497
U	238	3	He	25.592	0.6284	120827.12	0.0245	0.0001141
U	238	3	He	25.726	0.6316	120283.02	0.0245	0.0001141
U	238	3	He	25.446	0.6248	120282.21	0.0245	0.0001141
Sc	45	1	No Gas			1636539.98		
Sc	45	1	No Gas			1643272.94		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1632167.79		
Ge	72	1	No Gas			805894.68		
Ge	72	1	No Gas			804666.94		
Ge	72	1	No Gas			806122.88		
Sc	45	2	H2			130627.41		
Sc	45	2	H2			130457.05		
Sc	45	2	H2			130839.43		
Ge	72	2	H2			95722.86		
Ge	72	2	H2			94375.56		
Ge	72	2	H2			97173.06		
In	115	2	H2			246794.64		
In	115	2	H2			240885.70		
In	115	2	H2			242725.47		
Sc	45	3	He			39678.41		
Sc	45	3	He			38085.21		
Sc	45	3	He			38827.00		
Ge	72	3	He			65202.92		
Ge	72	3	He			65032.29		
Ge	72	3	He			65273.18		
In	115	3	He			52830.12		
In	115	3	He			53663.12		
In	115	3	He			53612.98		
Tb	159	3	He			192290.60		
Tb	159	3	He			190427.75		
Tb	159	3	He			192523.49		
Bi	209	3	He			140380.11		
Bi	209	3	He			140359.55		
Bi	209	3	He			142824.12		

Quantitation Report

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Sample Name	CCB 7996167
Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

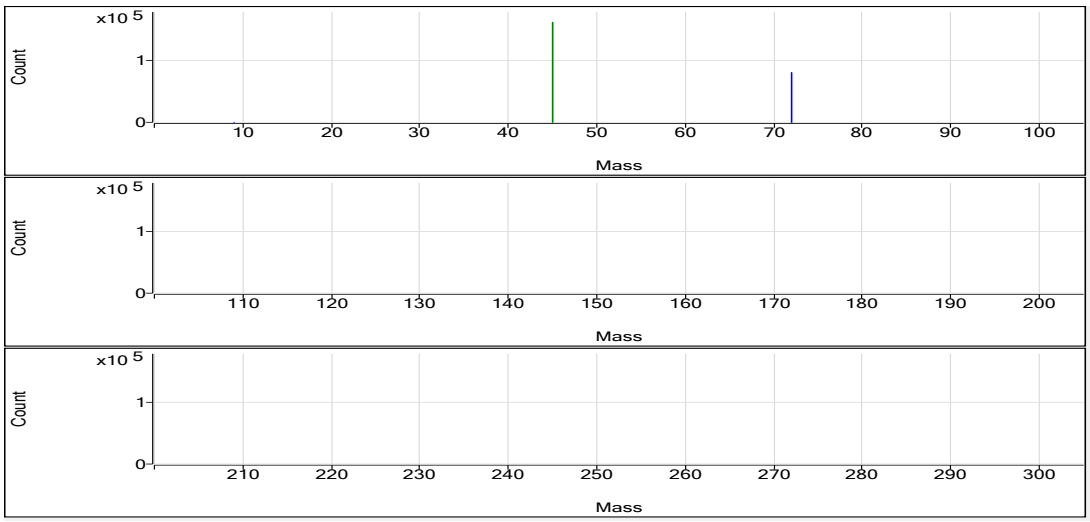
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.005	ppb	N/A	40.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.102	ppb	N/A	2.22	0.0000	Pulse	1.5000	3
Na	23	45	He	-101.804	ppb	N/A	19041.34	0.4964	Pulse	0.1000	3
Mg	24	45	He	-8.519	ppb	N/A	610.03	0.0159	Pulse	0.1000	3
Al	27	45	He	-3.993	ppb	N/A	146.67	0.0038	Pulse	0.1000	3
K	39	45	He	-2.412	ppb	N/A	20232.58	0.5283	Pulse	0.5000	3
Ca	44	45	He	-7.652	ppb	N/A	154.67	0.0040	Pulse	0.5000	3
Ti	47	45	He	0.204	ppb	255.8	20.67	0.0005	Pulse	0.5000	3
V	51	45	He	-0.063	ppb	N/A	958.03	0.0250	Pulse	0.5000	3
Cr	52	45	He	-0.220	ppb	N/A	1756.82	0.0458	Pulse	0.1000	3
Mn	55	45	He	-0.111	ppb	N/A	372.01	0.0097	Pulse	0.5000	3
Fe	57	45	He	-6.125	ppb	N/A	230.01	0.0060	Pulse	0.1000	3
Co	59	45	He	-0.020	ppb	N/A	199.33	0.0052	Pulse	0.5000	3
Ni	60	45	He	-0.136	ppb	N/A	388.01	0.0101	Pulse	0.5000	3
Cu	63	72	He	-0.326	ppb	N/A	530.01	0.0080	Pulse	0.5000	3
Zn	66	72	He	0.025	ppb	868.2	188.67	0.0029	Pulse	0.5000	3
As	75	72	He	1.057	ppb	7.6	212.00	0.0032	Pulse	0.5000	3
Sr	88	115	He	-0.085	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Mo	98	115	He	-0.020	ppb	N/A	60.00	0.0011	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	-0.009	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.215	ppb	N/A	433.35	0.0083	Pulse	0.1000	3
Sb	121	115	He	0.021	ppb	8.7	32.22	0.0006	Pulse	0.3000	3
Ba	137	115	He	0.069	ppb	159.0	33.33	0.0006	Pulse	0.1000	3
Tl	205	159	He	-0.040	ppb	N/A	110.00	0.0006	Pulse	0.1000	3
Pb	208	159	He	-0.009	ppb	N/A	243.34	0.0013	Pulse	0.1000	3
U	238	159	He	0.003	ppb	138.2	36.67	0.0002	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1625808.31	1.7	95.2	Analog	0.1000	3
No Gas	Ge	72	807743.27	1.9	93.5	Pulse	0.1000	3
H2	Sc	45	128013.22	2.1	95.8	Pulse	0.1000	3
H2	Ge	72	95143.94	1.7	96.0	Pulse	0.1000	3
H2	In	115	240433.60	1.0	93.7	Pulse	0.1000	3
He	Sc	45	38365.55	1.8	97.2	Pulse	0.1000	3
He	Ge	72	65875.41	0.7	96.7	Pulse	0.1000	3
He	In	115	52345.34	2.4	94.5	Pulse	0.1000	3
He	Tb	159	189859.34	0.6	92.7	Pulse	0.1000	3
He	Bi	209	139748.42	1.0	92.4	Pulse	0.1000	3

No Gas



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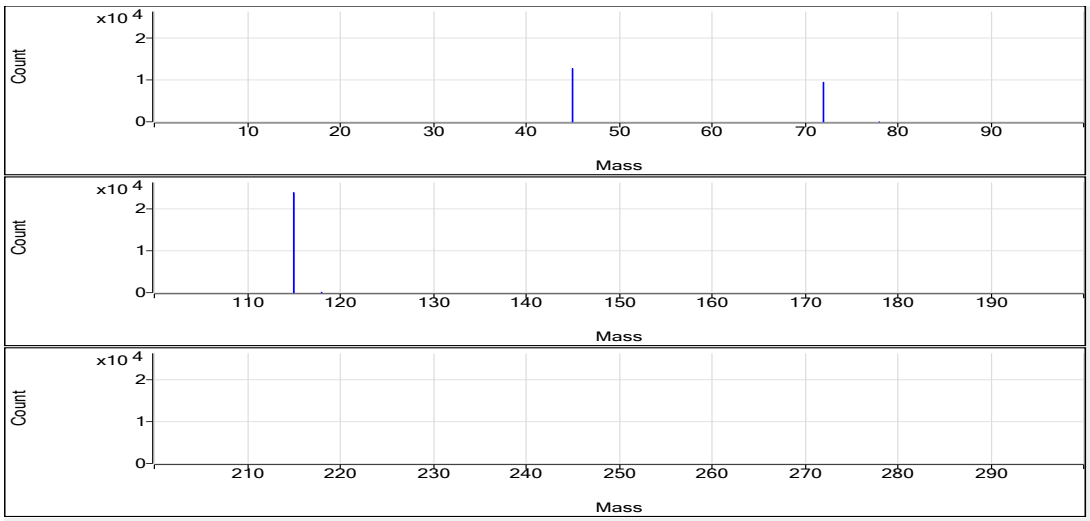
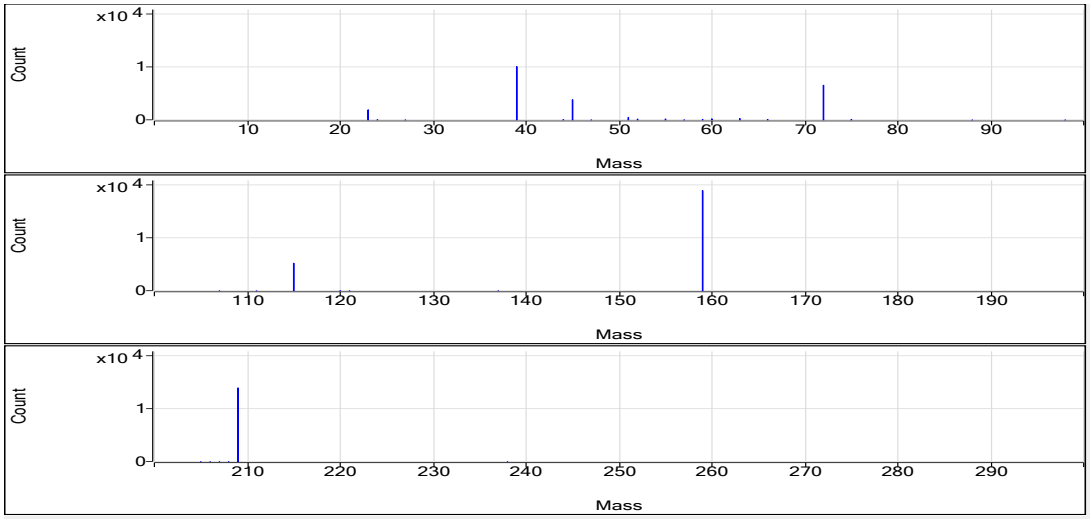


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.002	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	0.004	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Se	78	2	H2	-0.107	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.091	0	2.67	0.0004	6.3E-05
Na	23	3	He	-104.095	0.4907	18540.84	0.0025	0.7502
Na	23	3	He	-93.697	0.5166	19722.02	0.0025	0.7502
Na	23	3	He	-107.619	0.4819	18861.17	0.0025	0.7502
Mg	24	3	He	-10.475	0.0135	510.03	0.0012	0.02618
Mg	24	3	He	-9.075	0.0152	580.03	0.0012	0.02618
Mg	24	3	He	-6.007	0.0189	740.04	0.0012	0.02618
Al	27	3	He	-0.095	0.0053	200.01	0.0004	0.005329
Al	27	3	He	-9.27	0.0018	70.00	0.0004	0.005329
Al	27	3	He	-2.613	0.0043	170.01	0.0004	0.005329
K	39	3	He	85.236	0.6153	23248.49	0.001	0.5307
K	39	3	He	-16.787	0.514	19621.64	0.001	0.5307
K	39	3	He	-75.684	0.4555	17827.61	0.001	0.5307
Ca	44	3	He	-3.919	0.0042	160.00	0.0001	0.004441
Ca	44	3	He	2.225	0.0046	174.00	0.0001	0.004441
Ca	44	3	He	-21.263	0.0033	130.00	0.0001	0.004441
Ti	47	3	He	-0.079	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.807	0.0008	30.00	0.0004	0.0004559
Ti	47	3	He	-0.115	0.0004	16.00	0.0004	0.0004559
V	51	3	He	-0.066	0.0249	942.03	0.0176	0.02609
V	51	3	He	0	0.0261	996.04	0.0176	0.02609
V	51	3	He	-0.124	0.0239	936.03	0.0176	0.02609
Cr	52	3	He	-0.149	0.0474	1790.16	0.0217	0.05061
Cr	52	3	He	-0.111	0.0482	1840.17	0.0217	0.05061
Cr	52	3	He	-0.401	0.0419	1640.13	0.0217	0.05061
Mn	55	3	He	-0.066	0.0101	382.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.112	0.0097	370.01	0.0091	0.01071
Mn	55	3	He	-0.155	0.0093	364.01	0.0091	0.01071
Fe	57	3	He	-3.271	0.0071	270.01	0.0004	0.008452
Fe	57	3	He	-6.734	0.0058	220.01	0.0004	0.008452
Fe	57	3	He	-8.369	0.0051	200.01	0.0004	0.008452
Co	59	3	He	-0.011	0.0056	210.00	0.0413	0.006013
Co	59	3	He	-0.005	0.0058	222.00	0.0413	0.006013
Co	59	3	He	-0.043	0.0042	166.00	0.0413	0.006013
Ni	60	3	He	-0.105	0.0105	396.01	0.0117	0.01172
Ni	60	3	He	-0.123	0.0103	392.01	0.0117	0.01172
Ni	60	3	He	-0.18	0.0096	376.01	0.0117	0.01172
Cu	63	3	He	-0.288	0.0088	576.01	0.0196	0.01443
Cu	63	3	He	-0.346	0.0077	506.01	0.0196	0.01443
Cu	63	3	He	-0.346	0.0077	508.01	0.0196	0.01443
Zn	66	3	He	0.232	0.0033	218.00	0.0023	0.002807
Zn	66	3	He	-0.208	0.0023	154.00	0.0023	0.002807
Zn	66	3	He	0.053	0.0029	194.00	0.0023	0.002807
As	75	3	He	0.988	0.0031	202.00	0.0018	0.001271
As	75	3	He	1.038	0.0032	210.00	0.0018	0.001271
As	75	3	He	1.146	0.0034	224.00	0.0018	0.001271
Sr	88	3	He	-0.047	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.116	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	-0.091	0.0004	20.00	0.0082	0.00114
Mo	98	3	He	0	0.0015	80.00	0.0177	0.001504
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.018	0.0012	60.00	0.0177	0.001504
Ag	107	3	He	-0.01	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.155	0.009	480.02	0.0126	0.01097
Sn	120	3	He	-0.136	0.0093	490.02	0.0126	0.01097
Sn	120	3	He	-0.356	0.0065	330.01	0.0126	0.01097
Sb	121	3	He	0.022	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	0.022	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	0.019	0.0006	30.00	0.012	0.0003595
Ba	137	3	He	0.196	0.0011	60.00	0.0039	0.0003633
Ba	137	3	He	0.004	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.008	0.0004	20.00	0.0039	0.0003633
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	-0.001	0.0015	150.01	0.0252	0.001497
Pb	208	3	He	-0.018	0.001	110.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	150.01	0.0252	0.001497
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1650423.73		
Sc	45	1	No Gas			1595399.66		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1631601.54		
Ge	72	1	No Gas			824098.58		
Ge	72	1	No Gas			793316.16		
Ge	72	1	No Gas			805815.07		
Sc	45	2	H2			124973.30		
Sc	45	2	H2			130203.06		
Sc	45	2	H2			128863.31		
Ge	72	2	H2			93401.30		
Ge	72	2	H2			95431.62		
Ge	72	2	H2			96598.89		
In	115	2	H2			238186.01		
In	115	2	H2			242765.93		
In	115	2	H2			240348.86		
Sc	45	3	He			37784.17		
Sc	45	3	He			38174.87		
Sc	45	3	He			39137.60		
Ge	72	3	He			65384.04		
Ge	72	3	He			65985.61		
Ge	72	3	He			66256.59		
In	115	3	He			53221.38		
In	115	3	He			52930.24		
In	115	3	He			50893.51		
Tb	159	3	He			190457.99		
Tb	159	3	He			190567.07		
Tb	159	3	He			188552.95		
Bi	209	3	He			140371.18		
Bi	209	3	He			140765.12		
Bi	209	3	He			138108.96		

Quantitation Report

Data File Name	240SMPL.d
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Sample Type	Sample
Comment	F8 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

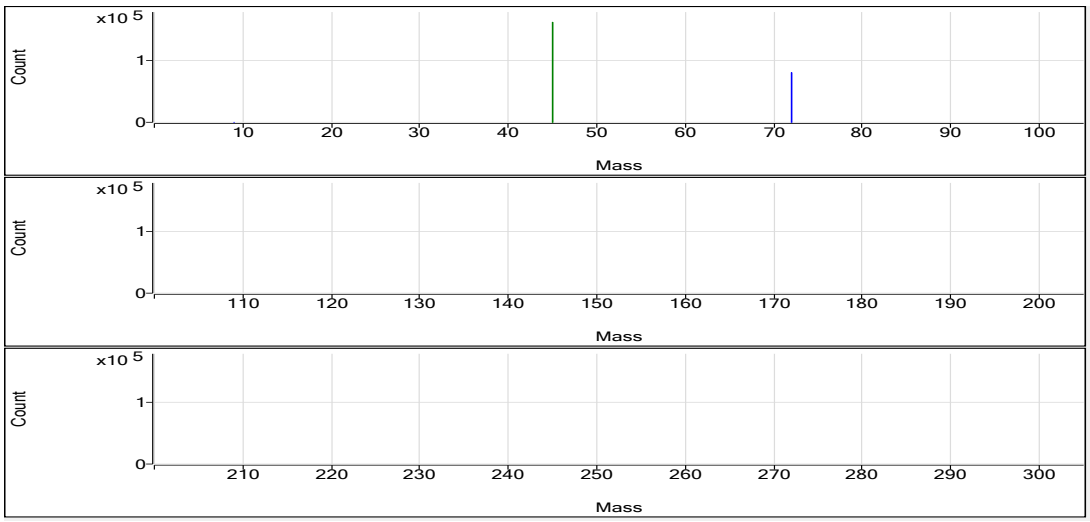
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.019	ppb	N/A	32.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.103	ppb	N/A	2.22	0.0000	Pulse	1.5000	3
Na	23	45	He	-102.736	ppb	N/A	19191.64	0.4941	Pulse	0.1000	3
Mg	24	45	He	-7.672	ppb	N/A	656.70	0.0169	Pulse	0.1000	3
Al	27	45	He	-4.289	ppb	N/A	143.34	0.0037	Pulse	0.1000	3
K	39	45	He	-16.844	ppb	N/A	19939.52	0.5139	Pulse	0.5000	3
Ca	44	45	He	0.909	ppb	1237.0	174.67	0.0045	Pulse	0.5000	3
Ti	47	45	He	-0.356	ppb	N/A	12.00	0.0003	Pulse	0.5000	3
V	51	45	He	-0.193	ppb	N/A	882.03	0.0227	Pulse	0.5000	3
Cr	52	45	He	-0.472	ppb	N/A	1570.13	0.0404	Pulse	0.1000	3
Mn	55	45	He	-0.175	ppb	N/A	354.01	0.0091	Pulse	0.5000	3
Fe	57	45	He	-7.201	ppb	N/A	216.68	0.0056	Pulse	0.1000	3
Co	59	45	He	-0.061	ppb	N/A	135.33	0.0035	Pulse	0.5000	3
Ni	60	45	He	-0.247	ppb	N/A	342.67	0.0088	Pulse	0.5000	3
Cu	63	72	He	-0.331	ppb	N/A	522.68	0.0080	Pulse	0.5000	3
Zn	66	72	He	0.575	ppb	14.5	270.00	0.0041	Pulse	0.5000	3
As	75	72	He	1.296	ppb	20.0	240.00	0.0037	Pulse	0.5000	3
Sr	88	115	He	-0.062	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Mo	98	115	He	-0.032	ppb	N/A	50.00	0.0009	Pulse	0.1000	3
Ag	107	115	He	-0.014	ppb	N/A	43.33	0.0008	Pulse	0.1000	3
Cd	111	115	He	-0.009	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.166	ppb	74.5	696.71	0.0131	Pulse	0.1000	3
Sb	121	115	He	0.001	ppb	403.8	20.00	0.0004	Pulse	0.3000	3
Ba	137	115	He	0.051	ppb	95.6	30.00	0.0006	Pulse	0.1000	3
Tl	205	159	He	-0.052	ppb	N/A	66.67	0.0003	Pulse	0.1000	3
Pb	208	159	He	-0.013	ppb	N/A	223.34	0.0012	Pulse	0.1000	3
U	238	159	He	0.000	ppb	N/A	20.00	0.0001	Pulse	0.1000	3

ISTD Table:

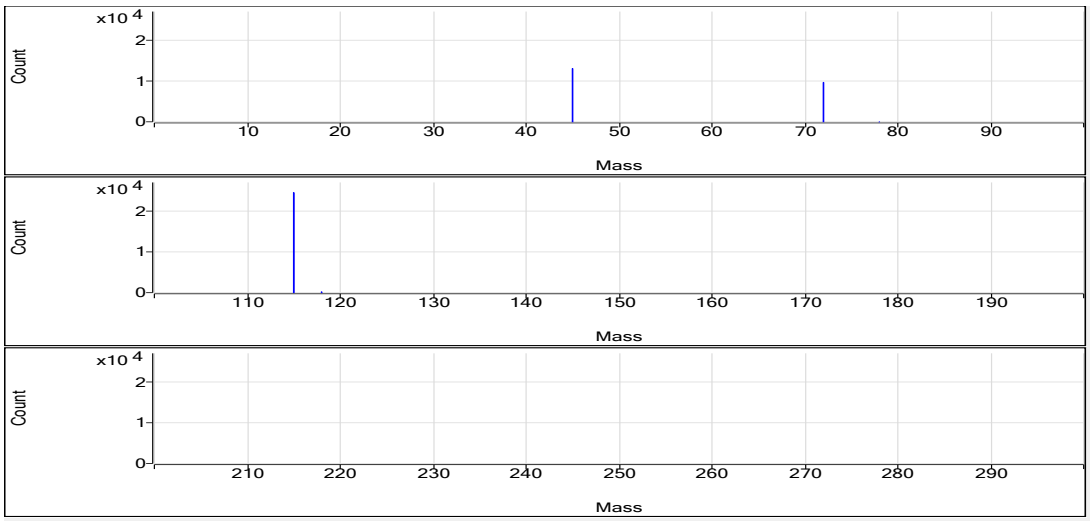
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1621343.15	0.8	94.9	Analog	0.1000	3
No Gas	Ge	72	805715.17	0.3	93.3	Pulse	0.1000	3
H2	Sc	45	130671.03	1.5	97.8	Pulse	0.1000	3
H2	Ge	72	96699.74	0.3	97.6	Pulse	0.1000	3
H2	In	115	245305.00	1.3	95.6	Pulse	0.1000	3
He	Sc	45	38856.83	2.1	98.4	Pulse	0.1000	3
He	Ge	72	65644.45	1.3	96.4	Pulse	0.1000	3
He	In	115	53337.10	1.1	96.3	Pulse	0.1000	3
He	Tb	159	192584.02	0.7	94.0	Pulse	0.1000	3
He	Bi	209	142504.60	0.9	94.2	Pulse	0.1000	3

No Gas

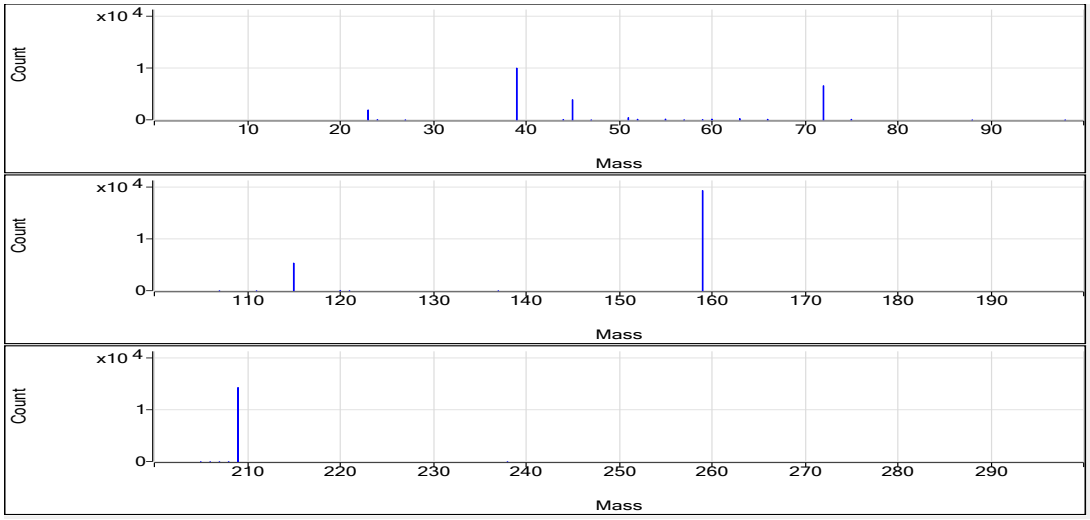


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.023	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.001	0	42.00	0.0003	2.616E-05
Se	78	2	H2	-0.073	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.127	0	1.33	0.0004	6.3E-05
Na	23	3	He	-98.132	0.5056	19411.81	0.0025	0.7502
Na	23	3	He	-101.111	0.4981	19121.61	0.0025	0.7502
Na	23	3	He	-108.965	0.4786	19041.50	0.0025	0.7502
Mg	24	3	He	-11.083	0.0128	490.02	0.0012	0.02618
Mg	24	3	He	-4.84	0.0203	780.04	0.0012	0.02618
Mg	24	3	He	-7.093	0.0176	700.03	0.0012	0.02618
Al	27	3	He	1.062	0.0057	220.01	0.0004	0.005329
Al	27	3	He	-4.461	0.0036	140.00	0.0004	0.005329
Al	27	3	He	-9.467	0.0018	70.00	0.0004	0.005329
K	39	3	He	62.334	0.5926	22751.75	0.001	0.5307
K	39	3	He	-29.929	0.5009	19229.18	0.001	0.5307
K	39	3	He	-82.937	0.4483	17837.62	0.001	0.5307
Ca	44	3	He	-11.138	0.0039	148.00	0.0001	0.004441
Ca	44	3	He	2.738	0.0046	176.00	0.0001	0.004441
Ca	44	3	He	11.126	0.005	200.00	0.0001	0.004441
Ti	47	3	He	-0.223	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.223	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.623	0.0002	8.00	0.0004	0.0004559
V	51	3	He	-0.175	0.023	884.03	0.0176	0.02609
V	51	3	He	-0.177	0.023	882.03	0.0176	0.02609
V	51	3	He	-0.226	0.0221	880.03	0.0176	0.02609
Cr	52	3	He	-0.663	0.0362	1390.11	0.0217	0.05061
Cr	52	3	He	-0.447	0.0409	1570.12	0.0217	0.05061
Cr	52	3	He	-0.305	0.044	1750.17	0.0217	0.05061
Mn	55	3	He	-0.169	0.0092	352.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.135	0.0095	364.01	0.0091	0.01071
Mn	55	3	He	-0.221	0.0087	346.01	0.0091	0.01071
Fe	57	3	He	-7.469	0.0055	210.01	0.0004	0.008452
Fe	57	3	He	-6.813	0.0057	220.01	0.0004	0.008452
Fe	57	3	He	-7.319	0.0055	220.01	0.0004	0.008452
Co	59	3	He	-0.046	0.0041	158.00	0.0413	0.006013
Co	59	3	He	-0.066	0.0033	126.00	0.0413	0.006013
Co	59	3	He	-0.071	0.0031	122.00	0.0413	0.006013
Ni	60	3	He	-0.332	0.0078	300.00	0.0117	0.01172
Ni	60	3	He	-0.177	0.0096	370.01	0.0117	0.01172
Ni	60	3	He	-0.231	0.009	358.01	0.0117	0.01172
Cu	63	3	He	-0.328	0.008	522.01	0.0196	0.01443
Cu	63	3	He	-0.34	0.0078	508.01	0.0196	0.01443
Cu	63	3	He	-0.325	0.0081	538.01	0.0196	0.01443
Zn	66	3	He	0.604	0.0042	272.00	0.0023	0.002807
Zn	66	3	He	0.64	0.0043	278.00	0.0023	0.002807
Zn	66	3	He	0.481	0.0039	260.00	0.0023	0.002807
As	75	3	He	1.063	0.0032	210.00	0.0018	0.001271
As	75	3	He	1.575	0.0042	272.00	0.0018	0.001271
As	75	3	He	1.25	0.0036	238.00	0.0018	0.001271
Sr	88	3	He	-0.07	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.094	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.024	0.0009	50.00	0.0082	0.00114
Mo	98	3	He	0.021	0.0019	100.00	0.0177	0.001504
Mo	98	3	He	-0.043	0.0007	40.00	0.0177	0.001504
Mo	98	3	He	-0.074	0.0002	10.00	0.0177	0.001504
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.001	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.116	0.0124	660.03	0.0126	0.01097
Sn	120	3	He	0.306	0.0148	800.06	0.0126	0.01097
Sn	120	3	He	0.075	0.0119	630.03	0.0126	0.01097
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Sb	121	3	He	0.001	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	-0.004	0.0003	16.67	0.012	0.0003595
Ba	137	3	He	0.1	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.002	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.052	0.0006	30.00	0.0039	0.0003633
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.062	0.0002	30.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Pb	208	3	He	-0.024	0.0009	110.01	0.0252	0.001497
Pb	208	3	He	-0.008	0.0013	160.01	0.0252	0.001497
Pb	208	3	He	-0.008	0.0013	140.01	0.0252	0.001497
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	-0.003	0.0001	10.00	0.0245	0.0001141
Sc	45	1	No Gas			1620096.07		
Sc	45	1	No Gas			1608729.35		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1635204.04		
Ge	72	1	No Gas			804286.71		
Ge	72	1	No Gas			804424.75		
Ge	72	1	No Gas			808434.05		
Sc	45	2	H2			132190.63		
Sc	45	2	H2			128408.79		
Sc	45	2	H2			131413.68		
Ge	72	2	H2			96366.81		
Ge	72	2	H2			96911.22		
Ge	72	2	H2			96821.18		
In	115	2	H2			242389.63		
In	115	2	H2			245018.98		
In	115	2	H2			248506.38		
Sc	45	3	He			38395.92		
Sc	45	3	He			38385.90		
Sc	45	3	He			39788.67		
Ge	72	3	He			65072.32		
Ge	72	3	He			65222.82		
Ge	72	3	He			66638.21		
In	115	3	He			53111.18		
In	115	3	He			53994.23		
In	115	3	He			52920.53		
Tb	159	3	He			191216.29		
Tb	159	3	He			192594.49		
Tb	159	3	He			193941.27		
Bi	209	3	He			143895.01		
Bi	209	3	He			141420.52		
Bi	209	3	He			142198.26		

Quantitation Report

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Sample Type	Sample
Comment	F8 RR
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

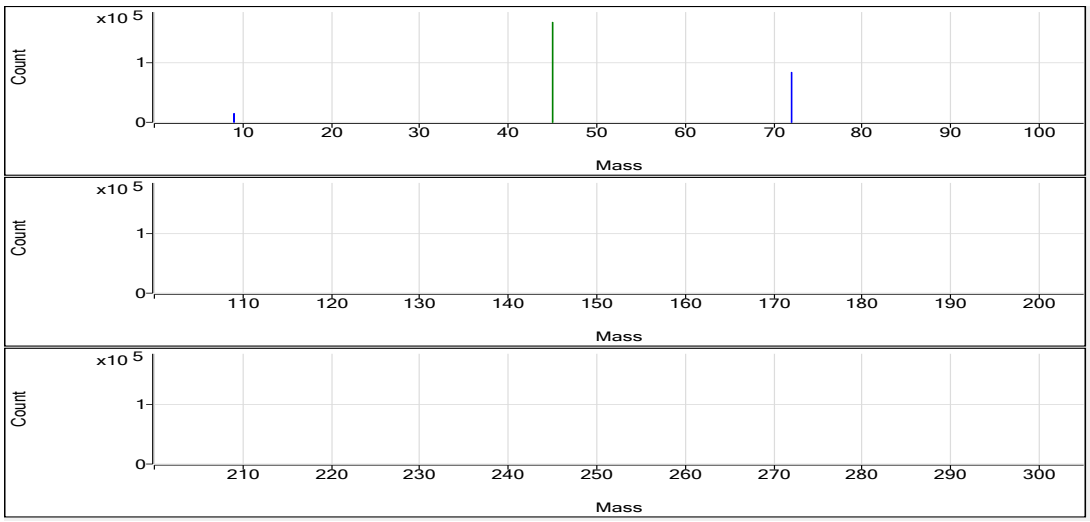
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	52.903	ppb	5.7	29800.23	0.0178	Pulse	0.5000	3
Se	78	72	H2	104.313	ppb	1.0	3971.16	0.0405	Pulse	1.5000	3
Na	23	45	He	5141.074	ppb	0.7	544775.14	13.5655	Pulse	0.1000	3
Mg	24	45	He	5275.552	ppb	1.4	257596.65	6.4142	Pulse	0.1000	3
Al	27	45	He	5371.718	ppb	0.7	81566.31	2.0310	Pulse	0.1000	3
K	39	45	He	5299.950	ppb	1.4	232649.00	5.7933	Pulse	0.5000	3
Ca	44	45	He	5348.772	ppb	0.9	11485.38	0.2860	Pulse	0.5000	3
Ti	47	45	He	550.150	ppb	1.7	9053.86	0.2255	Pulse	0.5000	3
V	51	45	He	530.197	ppb	0.3	375553.68	9.3514	Pulse	0.5000	3
Cr	52	45	He	536.036	ppb	0.4	469697.49	11.6958	Pulse	0.1000	3
Mn	55	45	He	533.841	ppb	0.4	195835.89	4.8764	Pulse	0.5000	3
Fe	57	45	He	5349.694	ppb	1.1	86131.46	2.1448	Pulse	0.1000	3
Co	59	45	He	527.892	ppb	0.4	875558.19	21.8019	Pulse	0.5000	3
Ni	60	45	He	529.389	ppb	0.1	250173.23	6.2295	Pulse	0.5000	3
Cu	63	72	He	524.389	ppb	1.2	695768.85	10.2726	Pulse	0.5000	3
Zn	66	72	He	524.713	ppb	1.4	80960.57	1.1953	Pulse	0.5000	3
As	75	72	He	519.412	ppb	1.3	64843.57	0.9574	Pulse	0.5000	3
Sr	88	115	He	52.417	ppb	3.0	22947.13	0.4318	Pulse	0.1000	3
Mo	98	115	He	53.086	ppb	2.9	50043.54	0.9418	Pulse	0.1000	3
Ag	107	115	He	53.400	ppb	2.7	104419.95	1.9650	Pulse	0.1000	3
Cd	111	115	He	54.613	ppb	1.7	11910.56	0.2241	Pulse	0.5000	3
Sn	120	115	He	108.136	ppb	1.7	72918.31	1.3721	Pulse	0.1000	3
Sb	121	115	He	107.911	ppb	1.7	69101.47	1.3003	Pulse	0.3000	3
Ba	137	115	He	535.463	ppb	3.0	111030.73	2.0895	Pulse	0.1000	3
Tl	205	159	He	102.611	ppb	1.4	380250.35	1.9448	Pulse	0.1000	3
Pb	208	159	He	52.407	ppb	1.7	258068.16	1.3199	Pulse	0.1000	3
U	238	159	He	53.674	ppb	1.2	257656.11	1.3177	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1670964.71	1.7	97.8	Analog	0.1000	3
No Gas	Ge	72	835904.47	1.1	96.8	Pulse	0.1000	3
H2	Sc	45	132074.71	0.7	98.8	Pulse	0.1000	3
H2	Ge	72	98017.49	0.6	98.9	Pulse	0.1000	3
H2	In	115	245937.70	0.9	95.8	Pulse	0.1000	3
He	Sc	45	40159.72	0.4	101.7	Pulse	0.1000	3
He	Ge	72	67736.28	1.1	99.5	Pulse	0.1000	3
He	In	115	53152.73	1.5	95.9	Pulse	0.1000	3
He	Tb	159	195549.00	1.3	95.5	Pulse	0.1000	3
He	Bi	209	142968.22	0.7	94.5	Pulse	0.1000	3

No Gas



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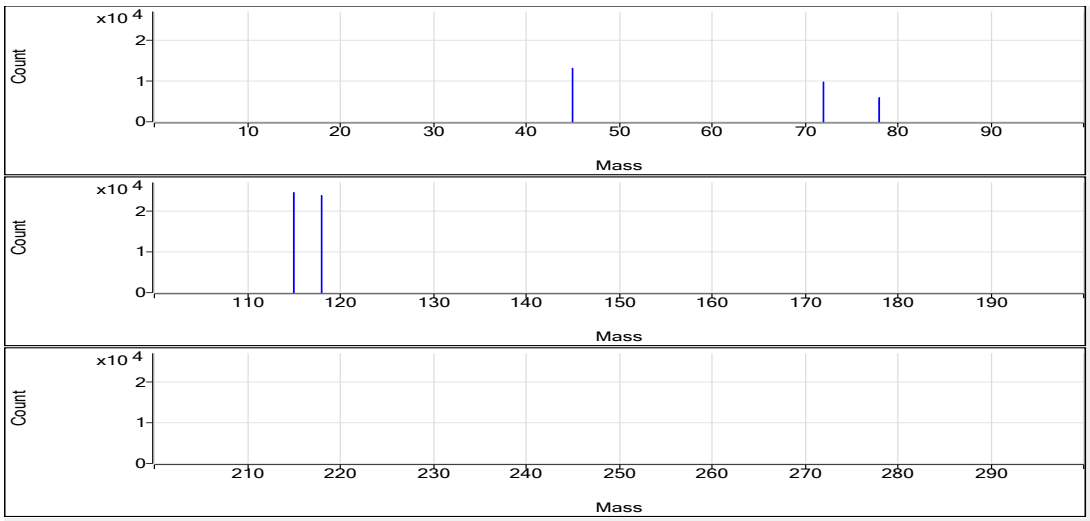
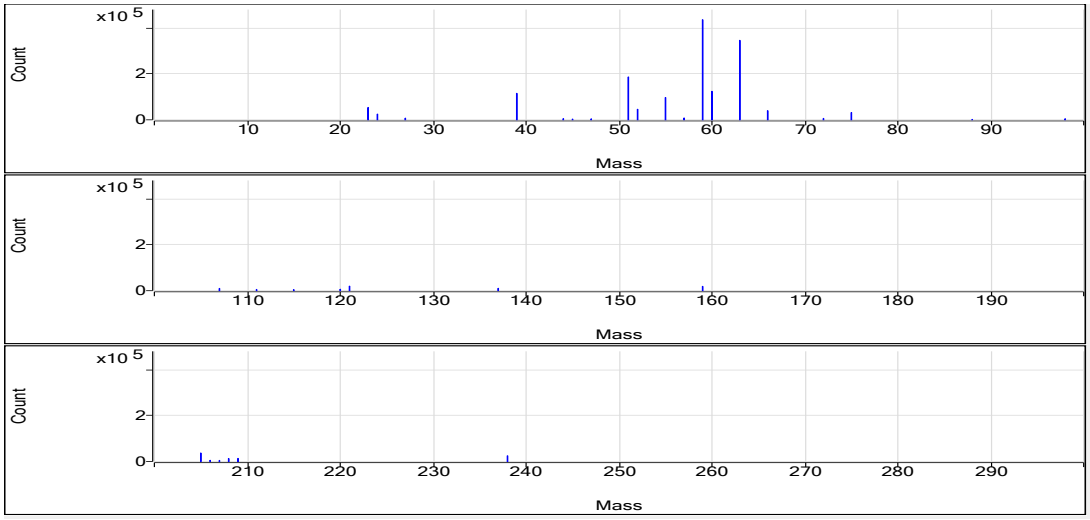


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	49.591	0.0167	27965.07	0.0003	2.616E-05
Be	9	1	No Gas	53.578	0.0181	29635.84	0.0003	2.616E-05
Be	9	1	No Gas	55.539	0.0187	31799.77	0.0003	2.616E-05
Se	78	2	H2	104.055	0.0404	3955.83	0.0004	6.3E-05
Se	78	2	H2	103.387	0.0402	3963.16	0.0004	6.3E-05
Se	78	2	H2	105.497	0.041	3994.50	0.0004	6.3E-05
Na	23	3	He	5176.191	13.653	545837.49	0.0025	0.7502
Na	23	3	He	5145.007	13.5753	545587.65	0.0025	0.7502
Na	23	3	He	5102.024	13.4681	542900.27	0.0025	0.7502
Mg	24	3	He	5276.378	6.4152	256475.93	0.0012	0.02618
Mg	24	3	He	5199.961	6.3227	254107.63	0.0012	0.02618
Mg	24	3	He	5350.315	6.5047	262206.38	0.0012	0.02618
Al	27	3	He	5336.375	2.0177	80665.57	0.0004	0.005329
Al	27	3	He	5369.987	2.0304	81599.74	0.0004	0.005329
Al	27	3	He	5408.791	2.045	82433.62	0.0004	0.005329
K	39	3	He	5381.626	5.8744	234852.83	0.001	0.5307
K	39	3	He	5242.743	5.7365	230547.16	0.001	0.5307
K	39	3	He	5275.482	5.769	232547.02	0.001	0.5307
Ca	44	3	He	5372.557	0.2872	11484.04	0.0001	0.004441
Ca	44	3	He	5378.039	0.2875	11556.11	0.0001	0.004441
Ca	44	3	He	5295.722	0.2832	11416.00	0.0001	0.004441
Ti	47	3	He	557.93	0.2286	9140.58	0.0004	0.0004559
Ti	47	3	He	539.661	0.2212	8888.43	0.0004	0.0004559
Ti	47	3	He	552.858	0.2266	9132.58	0.0004	0.0004559
V	51	3	He	529.244	9.3347	373194.09	0.0176	0.02609
V	51	3	He	529.382	9.3371	375256.97	0.0176	0.02609
V	51	3	He	531.965	9.3825	378209.97	0.0176	0.02609
Cr	52	3	He	536.8	11.7124	468253.82	0.0217	0.05061
Cr	52	3	He	537.611	11.73	471428.08	0.0217	0.05061
Cr	52	3	He	533.697	11.645	469410.58	0.0217	0.05061
Mn	55	3	He	532.983	4.8686	194643.72	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	536.186	4.8978	196841.78	0.0091	0.01071
Mn	55	3	He	532.353	4.8629	196022.17	0.0091	0.01071
Fe	57	3	He	5402.529	2.1659	86590.52	0.0004	0.008452
Fe	57	3	He	5359.105	2.1485	86349.57	0.0004	0.008452
Fe	57	3	He	5287.447	2.1199	85454.29	0.0004	0.008452
Co	59	3	He	527.42	21.7824	870847.31	0.0413	0.006013
Co	59	3	He	530.071	21.8919	879831.75	0.0413	0.006013
Co	59	3	He	526.185	21.7315	875995.50	0.0413	0.006013
Ni	60	3	He	529.055	6.2255	248892.47	0.0117	0.01172
Ni	60	3	He	530.154	6.2384	250721.66	0.0117	0.01172
Ni	60	3	He	528.958	6.2244	250905.56	0.0117	0.01172
Cu	63	3	He	518.536	10.1581	694972.06	0.0196	0.01443
Cu	63	3	He	523.884	10.2627	695843.50	0.0196	0.01443
Cu	63	3	He	530.748	10.397	696491.00	0.0196	0.01443
Zn	66	3	He	516.715	1.1772	80536.57	0.0023	0.002807
Zn	66	3	He	526.779	1.2	81366.37	0.0023	0.002807
Zn	66	3	He	530.644	1.2088	80978.77	0.0023	0.002807
As	75	3	He	512.988	0.9456	64690.98	0.0018	0.001271
As	75	3	He	519.11	0.9568	64875.71	0.0018	0.001271
As	75	3	He	526.137	0.9698	64964.02	0.0018	0.001271
Sr	88	3	He	51.62	0.4253	22486.39	0.0082	0.00114
Sr	88	3	He	54.242	0.4468	23477.90	0.0082	0.00114
Sr	88	3	He	51.39	0.4234	22877.10	0.0082	0.00114
Mo	98	3	He	53.496	0.949	50180.68	0.0177	0.001504
Mo	98	3	He	54.371	0.9645	50682.40	0.0177	0.001504
Mo	98	3	He	51.392	0.9118	49267.53	0.0177	0.001504
Ag	107	3	He	53.07	1.9528	103258.51	0.0368	0.001325
Ag	107	3	He	54.956	2.0222	106259.73	0.0368	0.001325
Ag	107	3	He	52.174	1.9199	103741.62	0.0368	0.001325
Cd	111	3	He	53.642	0.2201	11638.38	0.0041	4.798E-05
Cd	111	3	He	55.483	0.2277	11962.60	0.0041	4.798E-05
Cd	111	3	He	54.713	0.2245	12130.71	0.0041	4.798E-05
Sn	120	3	He	107.653	1.366	72228.50	0.0126	0.01097
Sn	120	3	He	110.217	1.3983	73473.90	0.0126	0.01097
Sn	120	3	He	106.537	1.3519	73052.54	0.0126	0.01097
Sb	121	3	He	107.699	1.2977	68617.10	0.012	0.0003595
Sb	121	3	He	109.866	1.3238	69561.27	0.012	0.0003595
Sb	121	3	He	106.17	1.2793	69126.05	0.012	0.0003595
Ba	137	3	He	540.347	2.1086	111493.63	0.0039	0.0003633
Ba	137	3	He	548.751	2.1414	112521.92	0.0039	0.0003633
Ba	137	3	He	517.291	2.0186	109076.65	0.0039	0.0003633
Tl	205	3	He	101.122	1.9166	380107.38	0.0189	0.001334
Tl	205	3	He	104.009	1.9712	380924.68	0.0189	0.001334
Tl	205	3	He	102.704	1.9465	379718.98	0.0189	0.001334
Pb	208	3	He	51.503	1.2972	138472.59	0.0252	0.001497
Pb	208	3	He	53.235	1.3407	139319.00	0.0252	0.001497
Pb	208	3	He	52.482	1.3218	139108.38	0.0252	0.001497
U	238	3	He	52.954	1.3001	257839.16	0.0245	0.0001141
U	238	3	He	54.144	1.3293	256869.14	0.0245	0.0001141
U	238	3	He	53.925	1.3239	258260.04	0.0245	0.0001141
Sc	45	1	No Gas			1672900.44		
Sc	45	1	No Gas			1641125.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1698868.41		
Ge	72	1	No Gas			827270.46		
Ge	72	1	No Gas			835148.35		
Ge	72	1	No Gas			845294.60		
Sc	45	2	H2			131865.47		
Sc	45	2	H2			133034.85		
Sc	45	2	H2			131323.82		
Ge	72	2	H2			97877.00		
Ge	72	2	H2			98691.09		
Ge	72	2	H2			97484.37		
In	115	2	H2			247813.10		
In	115	2	H2			246319.02		
In	115	2	H2			243680.97		
Sc	45	3	He			39979.31		
Sc	45	3	He			40189.83		
Sc	45	3	He			40310.02		
Ge	72	3	He			68415.79		
Ge	72	3	He			67803.19		
Ge	72	3	He			66989.85		
In	115	3	He			53381.81		
In	115	3	He			53061.09		
In	115	3	He			54546.59		
Tb	159	3	He			198328.38		
Tb	159	3	He			193241.79		
Tb	159	3	He			195076.83		
Bi	209	3	He			144066.70		
Bi	209	3	He			142013.68		
Bi	209	3	He			142824.28		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 6:51:40 PM
Sample Name	180-192445-F-4-A
Sample Type	Sample
Comment	F8 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

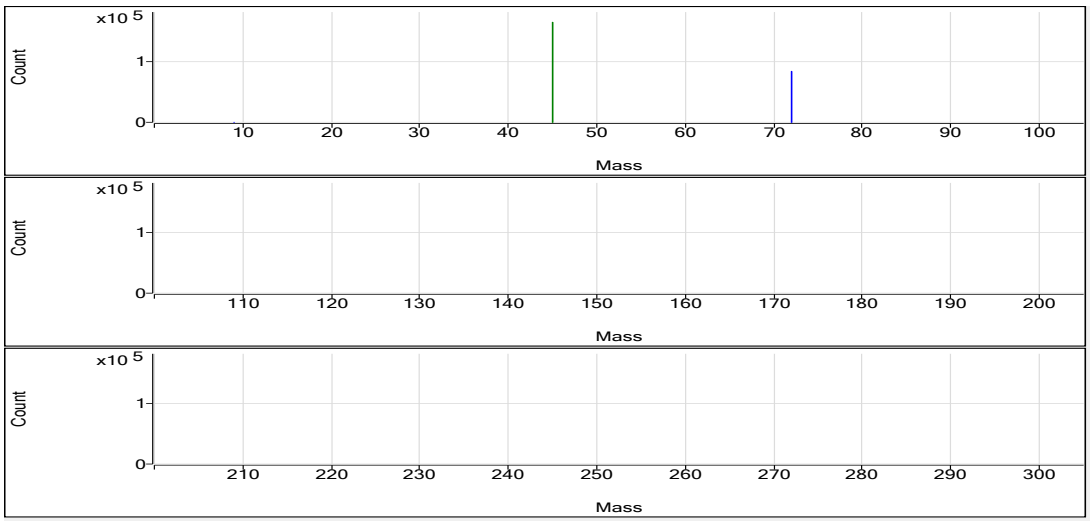
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.109	ppb	13.0	104.67	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.436	ppb	27.9	23.11	0.0002	Pulse	1.5000	3
Na	23	45	He	18191.541	ppb	3.1	1829813.30	46.0967	Analog	0.1000	3
Mg	24	45	He	19560.197	ppb	2.5	941265.06	23.7111	Pulse	0.1000	3
Al	27	45	He	2.065	ppb	168.2	243.34	0.0061	Pulse	0.1000	3
K	39	45	He	2790.962	ppb	3.4	131079.69	3.3020	Pulse	0.5000	3
Ca	44	45	He	51847.872	ppb	2.7	108513.86	2.7337	Pulse	0.5000	3
Ti	47	45	He	0.028	ppb	1615.6	18.67	0.0005	Pulse	0.5000	3
V	51	45	He	0.595	ppb	7.4	1451.40	0.0366	Pulse	0.5000	3
Cr	52	45	He	-0.125	ppb	N/A	1900.17	0.0479	Pulse	0.1000	3
Mn	55	45	He	236.210	ppb	2.5	85889.77	2.1637	Pulse	0.5000	3
Fe	57	45	He	56.098	ppb	15.9	1226.75	0.0309	Pulse	0.1000	3
Co	59	45	He	0.439	ppb	9.4	957.37	0.0241	Pulse	0.5000	3
Ni	60	45	He	0.533	ppb	18.0	713.35	0.0180	Pulse	0.5000	3
Cu	63	72	He	0.450	ppb	12.7	1573.42	0.0232	Pulse	0.5000	3
Zn	66	72	He	1.559	ppb	2.6	430.01	0.0064	Pulse	0.5000	3
As	75	72	He	15.017	ppb	3.1	1958.13	0.0289	Pulse	0.5000	3
Sr	88	115	He	144.241	ppb	0.5	63222.98	1.1863	Pulse	0.1000	3
Mo	98	115	He	2.280	ppb	5.0	2233.58	0.0419	Pulse	0.1000	3
Ag	107	115	He	0.035	ppb	45.8	140.00	0.0026	Pulse	0.1000	3
Cd	111	115	He	0.019	ppb	109.6	6.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.276	ppb	15.9	770.04	0.0144	Pulse	0.1000	3
Sb	121	115	He	0.316	ppb	20.4	222.23	0.0042	Pulse	0.3000	3
Ba	137	115	He	27.950	ppb	4.8	5827.96	0.1094	Pulse	0.1000	3
Tl	205	159	He	0.200	ppb	24.5	986.73	0.0051	Pulse	0.1000	3
Pb	208	159	He	0.028	ppb	27.9	423.35	0.0022	Pulse	0.1000	3
U	238	159	He	0.161	ppb	15.9	780.05	0.0041	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1663221.28	0.2	97.3	Analog	0.1000	3
No Gas	Ge	72	847496.50	0.5	98.1	Pulse	0.1000	3
H2	Sc	45	132357.22	1.3	99.1	Pulse	0.1000	3
H2	Ge	72	99661.24	1.1	100.6	Pulse	0.1000	3
H2	In	115	243544.16	0.9	94.9	Pulse	0.1000	3
He	Sc	45	39712.25	2.4	100.6	Pulse	0.1000	3
He	Ge	72	67719.65	0.6	99.4	Pulse	0.1000	3
He	In	115	53299.81	2.0	96.2	Pulse	0.1000	3
He	Tb	159	192152.77	0.9	93.8	Pulse	0.1000	3
He	Bi	209	141487.76	0.7	93.5	Pulse	0.1000	3

No Gas



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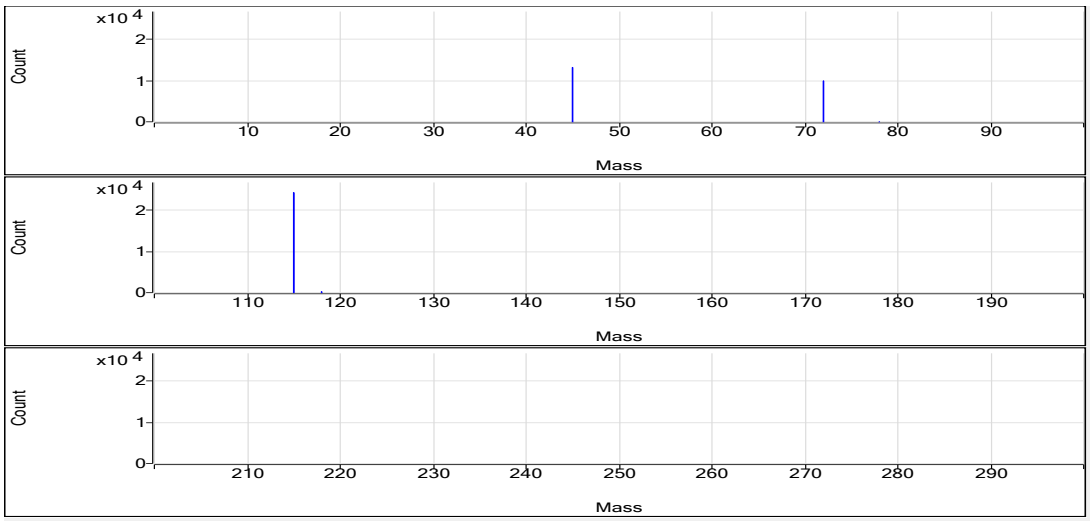
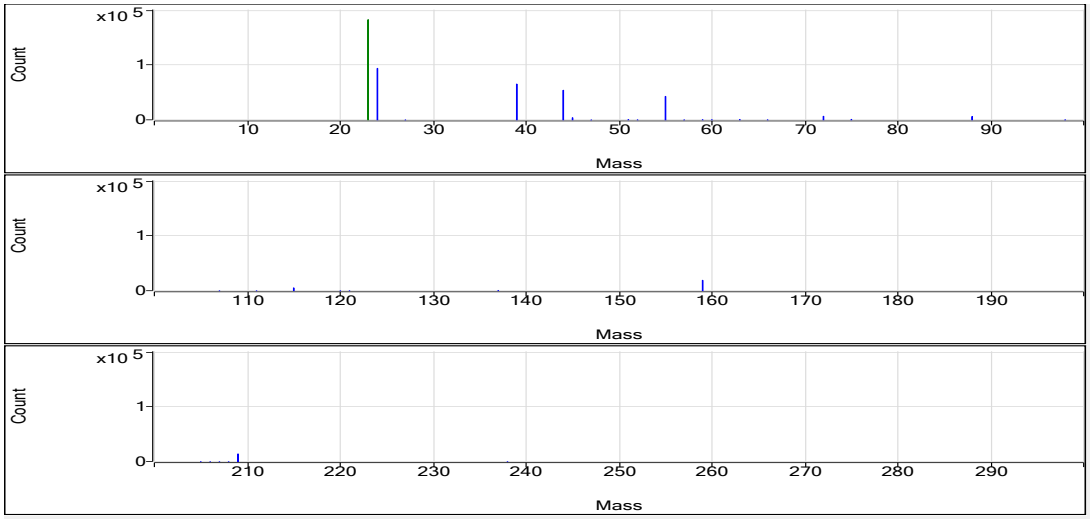


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.094	0.0001	96.00	0.0003	2.616E-05
Be	9	1	No Gas	0.111	0.0001	106.00	0.0003	2.616E-05
Be	9	1	No Gas	0.122	0.0001	112.00	0.0003	2.616E-05
Se	78	2	H2	0.528	0.0003	26.67	0.0004	6.3E-05
Se	78	2	H2	0.482	0.0003	24.67	0.0004	6.3E-05
Se	78	2	H2	0.298	0.0002	18.00	0.0004	6.3E-05
Na	23	3	He	17654.59	44.7582	1798853.25	0.0025	0.7502
Na	23	3	He	18785.546	47.5774	1836768.88	0.0025	0.7502
Na	23	3	He	18134.486	45.9545	1853817.78	0.0025	0.7502
Mg	24	3	He	19158.027	23.2242	933389.75	0.0012	0.02618
Mg	24	3	He	20105.416	24.3713	940877.95	0.0012	0.02618
Mg	24	3	He	19417.149	23.5379	949527.49	0.0012	0.02618
Al	27	3	He	5.003	0.0072	290.01	0.0004	0.005329
Al	27	3	He	-1.768	0.0047	180.01	0.0004	0.005329
Al	27	3	He	2.959	0.0064	260.01	0.0004	0.005329
K	39	3	He	2812.414	3.3233	133563.17	0.001	0.5307
K	39	3	He	2873.267	3.3837	130630.09	0.001	0.5307
K	39	3	He	2687.205	3.1989	129045.81	0.001	0.5307
Ca	44	3	He	51261.068	2.7028	108626.72	0.0001	0.004441
Ca	44	3	He	53442.693	2.8176	108777.55	0.0001	0.004441
Ca	44	3	He	50839.856	2.6806	108137.32	0.0001	0.004441
Ti	47	3	He	0.224	0.0005	22.00	0.0004	0.0004559
Ti	47	3	He	-0.481	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	0.34	0.0006	24.00	0.0004	0.0004559
V	51	3	He	0.573	0.0362	1454.07	0.0176	0.02609
V	51	3	He	0.646	0.0375	1446.07	0.0176	0.02609
V	51	3	He	0.566	0.036	1454.07	0.0176	0.02609
Cr	52	3	He	-0.176	0.0468	1880.19	0.0217	0.05061
Cr	52	3	He	0.02	0.051	1970.18	0.0217	0.05061
Cr	52	3	He	-0.218	0.0459	1850.15	0.0217	0.05061
Mn	55	3	He	234.314	2.1464	86263.65	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	242.825	2.2239	85857.68	0.0091	0.01071
Mn	55	3	He	231.492	2.1207	85547.98	0.0091	0.01071
Fe	57	3	He	51.738	0.0291	1170.08	0.0004	0.008452
Fe	57	3	He	50.189	0.0285	1100.07	0.0004	0.008452
Fe	57	3	He	66.367	0.035	1410.11	0.0004	0.008452
Co	59	3	He	0.463	0.0251	1010.04	0.0413	0.006013
Co	59	3	He	0.462	0.0251	968.03	0.0413	0.006013
Co	59	3	He	0.391	0.0222	894.03	0.0413	0.006013
Ni	60	3	He	0.443	0.0169	680.02	0.0117	0.01172
Ni	60	3	He	0.635	0.0192	740.02	0.0117	0.01172
Ni	60	3	He	0.522	0.0178	720.02	0.0117	0.01172
Cu	63	3	He	0.5	0.0242	1650.09	0.0196	0.01443
Cu	63	3	He	0.462	0.0235	1584.09	0.0196	0.01443
Cu	63	3	He	0.387	0.022	1486.08	0.0196	0.01443
Zn	66	3	He	1.515	0.0063	426.01	0.0023	0.002807
Zn	66	3	He	1.594	0.0064	434.01	0.0023	0.002807
Zn	66	3	He	1.567	0.0064	430.01	0.0023	0.002807
As	75	3	He	15.38	0.0296	2016.14	0.0018	0.001271
As	75	3	He	14.491	0.0279	1886.12	0.0018	0.001271
As	75	3	He	15.179	0.0292	1972.13	0.0018	0.001271
Sr	88	3	He	144.702	1.19	62362.68	0.0082	0.00114
Sr	88	3	He	144.585	1.1891	63015.83	0.0082	0.00114
Sr	88	3	He	143.435	1.1796	64290.44	0.0082	0.00114
Mo	98	3	He	2.221	0.0408	2140.24	0.0177	0.001504
Mo	98	3	He	2.206	0.0406	2150.22	0.0177	0.001504
Mo	98	3	He	2.412	0.0442	2410.28	0.0177	0.001504
Ag	107	3	He	0.026	0.0023	120.00	0.0368	0.001325
Ag	107	3	He	0.026	0.0023	120.00	0.0368	0.001325
Ag	107	3	He	0.054	0.0033	180.01	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.042	0.0002	12.00	0.0041	4.798E-05
Sn	120	3	He	0.266	0.0143	750.04	0.0126	0.01097
Sn	120	3	He	0.238	0.014	740.04	0.0126	0.01097
Sn	120	3	He	0.324	0.015	820.05	0.0126	0.01097
Sb	121	3	He	0.356	0.0046	243.34	0.012	0.0003595
Sb	121	3	He	0.242	0.0033	173.34	0.012	0.0003595
Sb	121	3	He	0.351	0.0046	250.00	0.012	0.0003595
Ba	137	3	He	29.211	0.1143	5991.36	0.0039	0.0003633
Ba	137	3	He	28.109	0.11	5831.29	0.0039	0.0003633
Ba	137	3	He	26.531	0.1039	5661.24	0.0039	0.0003633
Tl	205	3	He	0.253	0.0061	1190.08	0.0189	0.001334
Tl	205	3	He	0.156	0.0043	820.05	0.0189	0.001334
Tl	205	3	He	0.192	0.005	950.06	0.0189	0.001334
Pb	208	3	He	0.037	0.0024	230.01	0.0252	0.001497
Pb	208	3	He	0.026	0.0021	200.01	0.0252	0.001497
Pb	208	3	He	0.022	0.002	220.01	0.0252	0.001497
U	238	3	He	0.188	0.0047	920.06	0.0245	0.0001141
U	238	3	He	0.155	0.0039	750.05	0.0245	0.0001141
U	238	3	He	0.138	0.0035	670.04	0.0245	0.0001141
Sc	45	1	No Gas			1660206.54		
Sc	45	1	No Gas			1665707.63		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1663749.66		
Ge	72	1	No Gas			844599.60		
Ge	72	1	No Gas			845262.57		
Ge	72	1	No Gas			852627.33		
Sc	45	2	H2			130445.83		
Sc	45	2	H2			133781.20		
Sc	45	2	H2			132844.64		
Ge	72	2	H2			99577.35		
Ge	72	2	H2			98652.08		
Ge	72	2	H2			100754.28		
In	115	2	H2			241719.74		
In	115	2	H2			242787.91		
In	115	2	H2			246124.84		
Sc	45	3	He			40190.47		
Sc	45	3	He			38605.94		
Sc	45	3	He			40340.33		
Ge	72	3	He			68154.99		
Ge	72	3	He			67492.09		
Ge	72	3	He			67511.88		
In	115	3	He			52408.89		
In	115	3	He			53000.53		
In	115	3	He			54506.17		
Tb	159	3	He			194145.00		
Tb	159	3	He			191074.51		
Tb	159	3	He			191238.79		
Bi	209	3	He			142570.52		
Bi	209	3	He			141279.66		
Bi	209	3	He			140613.11		

Quantitation Report

Data File Name	243SMPL.d
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Sample Type	Sample
Comment	F8 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

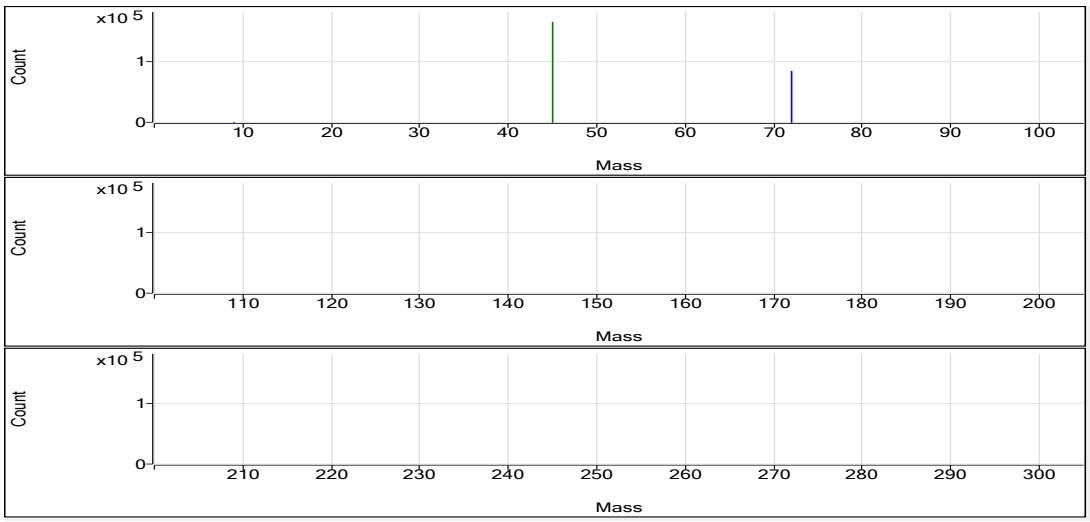
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.001	ppb	N/A	42.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.316	ppb	42.3	18.67	0.0002	Pulse	1.5000	3
Na	23	45	He	19266.399	ppb	3.1	1944871.79	48.7760	Analog	0.1000	3
Mg	24	45	He	20271.412	ppb	1.4	979986.97	24.5723	Pulse	0.1000	3
Al	27	45	He	3.112	ppb	122.2	260.01	0.0065	Pulse	0.1000	3
K	39	45	He	3000.720	ppb	1.1	140018.82	3.5102	Pulse	0.5000	3
Ca	44	45	He	47335.488	ppb	2.0	99543.23	2.4962	Pulse	0.5000	3
Ti	47	45	He	-0.298	ppb	N/A	13.33	0.0003	Pulse	0.5000	3
V	51	45	He	0.361	ppb	34.5	1294.06	0.0324	Pulse	0.5000	3
Cr	52	45	He	0.326	ppb	45.4	2300.24	0.0577	Pulse	0.1000	3
Mn	55	45	He	393.750	ppb	1.7	143550.05	3.5996	Pulse	0.5000	3
Fe	57	45	He	449.821	ppb	0.5	7501.97	0.1881	Pulse	0.1000	3
Co	59	45	He	0.242	ppb	10.7	639.35	0.0160	Pulse	0.5000	3
Ni	60	45	He	3.236	ppb	6.7	1982.13	0.0497	Pulse	0.5000	3
Cu	63	72	He	0.148	ppb	40.7	1177.38	0.0173	Pulse	0.5000	3
Zn	66	72	He	8.201	ppb	2.3	1457.41	0.0214	Pulse	0.5000	3
As	75	72	He	10.012	ppb	2.8	1338.73	0.0197	Pulse	0.5000	3
Sr	88	115	He	152.876	ppb	2.5	66559.70	1.2572	Pulse	0.1000	3
Mo	98	115	He	2.623	ppb	7.8	2540.29	0.0480	Pulse	0.1000	3
Ag	107	115	He	-0.010	ppb	N/A	50.00	0.0009	Pulse	0.1000	3
Cd	111	115	He	0.016	ppb	1.2	6.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.389	ppb	66.3	840.05	0.0159	Pulse	0.1000	3
Sb	121	115	He	0.223	ppb	4.5	161.12	0.0030	Pulse	0.3000	3
Ba	137	115	He	34.237	ppb	1.1	7091.88	0.1339	Pulse	0.1000	3
Tl	205	159	He	0.018	ppb	69.2	323.35	0.0017	Pulse	0.1000	3
Pb	208	159	He	0.067	ppb	15.3	616.70	0.0032	Pulse	0.1000	3
U	238	159	He	0.128	ppb	11.7	630.04	0.0032	Pulse	0.1000	3

ISTD Table:

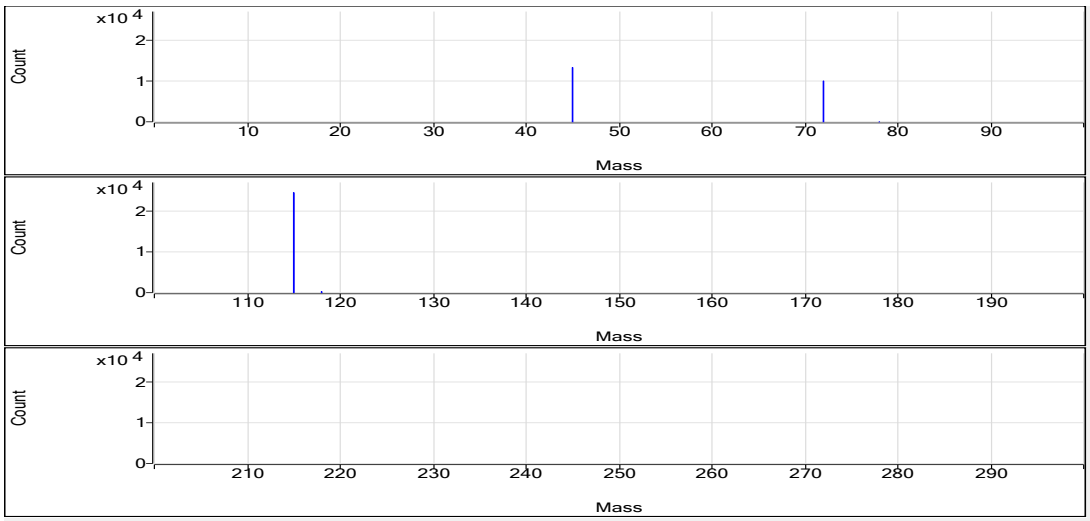
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1645906.90	1.4	96.3	Analog	0.1000	3
No Gas	Ge	72	839889.75	1.3	97.2	Pulse	0.1000	3
H2	Sc	45	133603.26	1.8	100.0	Pulse	0.1000	3
H2	Ge	72	100604.45	1.5	101.6	Pulse	0.1000	3
H2	In	115	246025.13	0.3	95.9	Pulse	0.1000	3
He	Sc	45	39889.07	2.1	101.1	Pulse	0.1000	3
He	Ge	72	67971.14	1.9	99.8	Pulse	0.1000	3
He	In	115	52948.49	0.7	95.6	Pulse	0.1000	3
He	Tb	159	193772.76	1.5	94.6	Pulse	0.1000	3
He	Bi	209	141820.72	0.4	93.8	Pulse	0.1000	3

No Gas

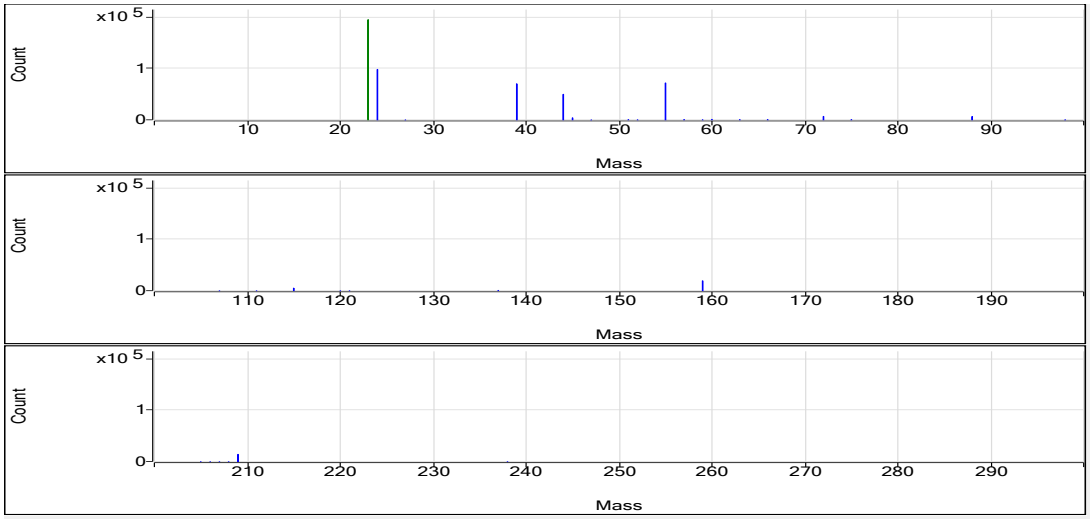


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.006	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	0.013	0	50.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.021	0	32.00	0.0003	2.616E-05
Se	78	2	H2	0.394	0.0002	22.00	0.0004	6.3E-05
Se	78	2	H2	0.162	0.0001	12.67	0.0004	6.3E-05
Se	78	2	H2	0.393	0.0002	21.33	0.0004	6.3E-05
Na	23	3	He	18582.361	47.0709	1916291.38	0.0025	0.7502
Na	23	3	He	19691.806	49.8364	1946972.94	0.0025	0.7502
Na	23	3	He	19525.031	49.4207	1971351.06	0.0025	0.7502
Mg	24	3	He	19962.354	24.1981	985122.88	0.0012	0.02618
Mg	24	3	He	20505.922	24.8563	971067.33	0.0012	0.02618
Mg	24	3	He	20345.96	24.6626	983770.69	0.0012	0.02618
Al	27	3	He	4.758	0.0071	290.01	0.0004	0.005329
Al	27	3	He	-1.235	0.0049	190.01	0.0004	0.005329
Al	27	3	He	5.812	0.0075	300.01	0.0004	0.005329
K	39	3	He	3018.09	3.5275	143606.45	0.001	0.5307
K	39	3	He	3022.206	3.5316	137968.72	0.001	0.5307
K	39	3	He	2961.863	3.4717	138481.30	0.001	0.5307
Ca	44	3	He	46304.508	2.4419	99411.08	0.0001	0.004441
Ca	44	3	He	48119.062	2.5374	99129.46	0.0001	0.004441
Ca	44	3	He	47582.893	2.5092	100089.16	0.0001	0.004441
Ti	47	3	He	-0.034	0.0004	18.00	0.0004	0.0004559
Ti	47	3	He	-0.113	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	-0.747	0.0002	6.00	0.0004	0.0004559
V	51	3	He	0.304	0.0314	1280.06	0.0176	0.02609
V	51	3	He	0.274	0.0309	1208.05	0.0176	0.02609
V	51	3	He	0.503	0.0349	1394.07	0.0176	0.02609
Cr	52	3	He	0.169	0.0543	2210.22	0.0217	0.05061
Cr	52	3	He	0.345	0.0581	2270.24	0.0217	0.05061
Cr	52	3	He	0.463	0.0607	2420.26	0.0217	0.05061
Mn	55	3	He	387.286	3.5406	144142.42	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	400.626	3.6622	143073.31	0.0091	0.01071
Mn	55	3	He	393.34	3.5958	143434.42	0.0091	0.01071
Fe	57	3	He	447.672	0.1872	7622.05	0.0004	0.008452
Fe	57	3	He	452.001	0.189	7381.88	0.0004	0.008452
Fe	57	3	He	449.791	0.1881	7501.98	0.0004	0.008452
Co	59	3	He	0.271	0.0172	700.02	0.0413	0.006013
Co	59	3	He	0.236	0.0158	616.02	0.0413	0.006013
Co	59	3	He	0.22	0.0151	602.01	0.0413	0.006013
Ni	60	3	He	3.001	0.047	1912.12	0.0117	0.01172
Ni	60	3	He	3.431	0.052	2032.14	0.0117	0.01172
Ni	60	3	He	3.276	0.0502	2002.13	0.0117	0.01172
Cu	63	3	He	0.204	0.0184	1226.05	0.0196	0.01443
Cu	63	3	He	0.157	0.0175	1194.05	0.0196	0.01443
Cu	63	3	He	0.084	0.0161	1112.05	0.0196	0.01443
Zn	66	3	He	8.42	0.0219	1460.08	0.0023	0.002807
Zn	66	3	He	8.091	0.0212	1446.07	0.0023	0.002807
Zn	66	3	He	8.093	0.0212	1466.08	0.0023	0.002807
As	75	3	He	10.332	0.0203	1350.06	0.0018	0.001271
As	75	3	He	9.805	0.0193	1318.06	0.0018	0.001271
As	75	3	He	9.9	0.0195	1348.07	0.0018	0.001271
Sr	88	3	He	148.564	1.2218	65213.83	0.0082	0.00114
Sr	88	3	He	155.904	1.2821	67724.48	0.0082	0.00114
Sr	88	3	He	154.16	1.2678	66740.79	0.0082	0.00114
Mo	98	3	He	2.856	0.0521	2780.32	0.0177	0.001504
Mo	98	3	He	2.545	0.0466	2460.29	0.0177	0.001504
Mo	98	3	He	2.468	0.0452	2380.26	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	0.01	0.0017	90.00	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Sn	120	3	He	0.439	0.0165	880.06	0.0126	0.01097
Sn	120	3	He	0.618	0.0187	990.07	0.0126	0.01097
Sn	120	3	He	0.11	0.0123	650.03	0.0126	0.01097
Sb	121	3	He	0.229	0.0031	166.67	0.012	0.0003595
Sb	121	3	He	0.211	0.0029	153.34	0.012	0.0003595
Sb	121	3	He	0.228	0.0031	163.34	0.012	0.0003595
Ba	137	3	He	34.009	0.1331	7101.90	0.0039	0.0003633
Ba	137	3	He	34.657	0.1356	7161.88	0.0039	0.0003633
Ba	137	3	He	34.045	0.1332	7011.87	0.0039	0.0003633
Tl	205	3	He	0.011	0.0015	300.01	0.0189	0.001334
Tl	205	3	He	0.032	0.0019	380.02	0.0189	0.001334
Tl	205	3	He	0.01	0.0015	290.01	0.0189	0.001334
Pb	208	3	He	0.058	0.0029	350.01	0.0252	0.001497
Pb	208	3	He	0.066	0.0032	280.01	0.0252	0.001497
Pb	208	3	He	0.078	0.0035	370.02	0.0252	0.001497
U	238	3	He	0.134	0.0034	660.04	0.0245	0.0001141
U	238	3	He	0.138	0.0035	690.04	0.0245	0.0001141
U	238	3	He	0.111	0.0028	540.03	0.0245	0.0001141
Sc	45	1	No Gas			1625452.16		
Sc	45	1	No Gas			1640987.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1671280.76		
Ge	72	1	No Gas			833572.33		
Ge	72	1	No Gas			833390.14		
Ge	72	1	No Gas			852706.78		
Sc	45	2	H2			135958.78		
Sc	45	2	H2			133791.55		
Sc	45	2	H2			131059.45		
Ge	72	2	H2			102012.94		
Ge	72	2	H2			100784.71		
Ge	72	2	H2			99015.70		
In	115	2	H2			245557.79		
In	115	2	H2			245546.72		
In	115	2	H2			246970.88		
Sc	45	3	He			40710.76		
Sc	45	3	He			39067.27		
Sc	45	3	He			39889.18		
Ge	72	3	He			66538.18		
Ge	72	3	He			68225.00		
Ge	72	3	He			69150.24		
In	115	3	He			53382.63		
In	115	3	He			52830.86		
In	115	3	He			52649.61		
Tb	159	3	He			193608.24		
Tb	159	3	He			196716.93		
Tb	159	3	He			190993.10		
Bi	209	3	He			142398.61		
Bi	209	3	He			141894.91		
Bi	209	3	He			141168.64		

Quantitation Report

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Sample Type	Sample
Comment	T30 RR
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

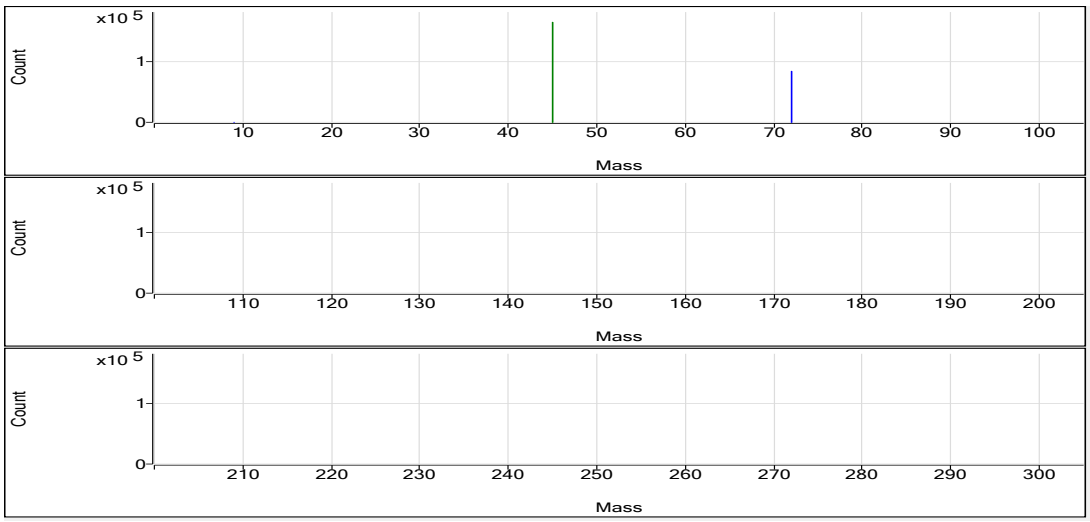
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.013	ppb	68.1	50.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.134	ppb	6.0	11.55	0.0001	Pulse	1.5000	3
Na	23	45	He	61858.607	ppb	0.5	6069202.41	154.9466	Analog	0.1000	3
Mg	24	45	He	3159.729	ppb	1.8	150877.98	3.8522	Pulse	0.1000	3
Al	27	45	He	149.912	ppb	4.0	2423.59	0.0619	Pulse	0.1000	3
K	39	45	He	7870.582	ppb	0.9	326894.14	8.3458	Pulse	0.5000	3
Ca	44	45	He	11900.885	ppb	0.5	24712.52	0.6309	Pulse	0.5000	3
Ti	47	45	He	1.510	ppb	89.7	42.00	0.0011	Pulse	0.5000	3
V	51	45	He	0.311	ppb	32.1	1236.06	0.0316	Pulse	0.5000	3
Cr	52	45	He	-0.316	ppb	N/A	1713.49	0.0438	Pulse	0.1000	3
Mn	55	45	He	35.536	ppb	1.8	13105.29	0.3346	Pulse	0.5000	3
Fe	57	45	He	804.217	ppb	2.4	12912.16	0.3296	Pulse	0.1000	3
Co	59	45	He	0.186	ppb	17.9	536.68	0.0137	Pulse	0.5000	3
Ni	60	45	He	1.126	ppb	6.8	976.70	0.0249	Pulse	0.5000	3
Cu	63	72	He	23.833	ppb	1.2	32707.47	0.4807	Pulse	0.5000	3
Zn	66	72	He	179.727	ppb	0.6	27986.10	0.4113	Pulse	0.5000	3
As	75	72	He	1.588	ppb	9.3	285.33	0.0042	Pulse	0.5000	3
Sr	88	115	He	58.131	ppb	2.2	26038.64	0.4788	Pulse	0.1000	3
Mo	98	115	He	0.480	ppb	34.7	543.36	0.0100	Pulse	0.1000	3
Ag	107	115	He	0.014	ppb	38.8	100.00	0.0018	Pulse	0.1000	3
Cd	111	115	He	0.123	ppb	18.5	30.00	0.0006	Pulse	0.5000	3
Sn	120	115	He	0.324	ppb	119.1	816.76	0.0150	Pulse	0.1000	3
Sb	121	115	He	0.192	ppb	43.5	145.56	0.0027	Pulse	0.3000	3
Ba	137	115	He	25.569	ppb	5.5	5444.48	0.1001	Pulse	0.1000	3
Tl	205	159	He	0.006	ppb	213.3	283.35	0.0014	Pulse	0.1000	3
Pb	208	159	He	0.548	ppb	11.2	2993.56	0.0153	Pulse	0.1000	3
U	238	159	He	0.027	ppb	25.7	153.34	0.0008	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1639218.51	1.7	95.9	Analog	0.1000	3
No Gas	Ge	72	837233.92	0.6	96.9	Pulse	0.1000	3
H2	Sc	45	132739.60	0.5	99.3	Pulse	0.1000	3
H2	Ge	72	100593.78	1.3	101.5	Pulse	0.1000	3
H2	In	115	250955.80	1.6	97.8	Pulse	0.1000	3
He	Sc	45	39170.74	0.9	99.2	Pulse	0.1000	3
He	Ge	72	68047.44	0.5	99.9	Pulse	0.1000	3
He	In	115	54393.21	0.8	98.2	Pulse	0.1000	3
He	Tb	159	195987.06	1.0	95.7	Pulse	0.1000	3
He	Bi	209	148240.68	1.5	98.0	Pulse	0.1000	3

No Gas



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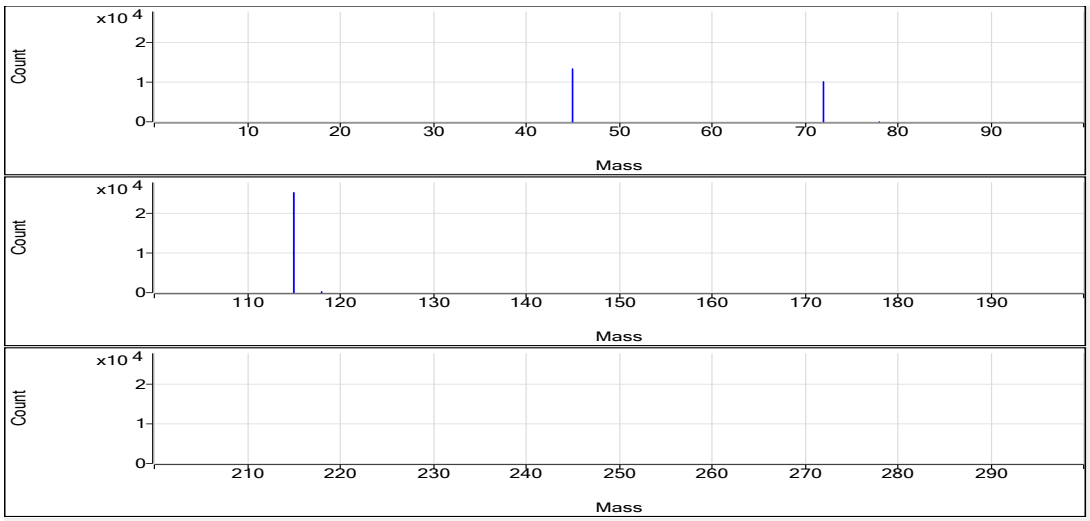
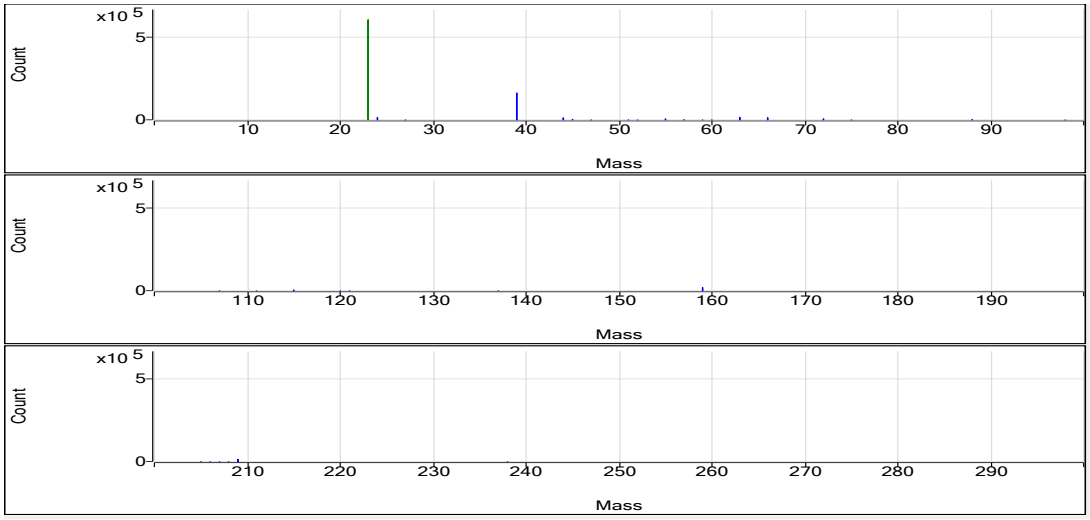


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.018	0	52.00	0.0003	2.616E-05
Be	9	1	No Gas	0.003	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.018	0	54.00	0.0003	2.616E-05
Se	78	2	H2	0.127	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.132	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.142	0.0001	12.00	0.0004	6.3E-05
Na	23	3	He	61832.454	154.8814	6063188.03	0.0025	0.7502
Na	23	3	He	61588.138	154.2724	6101251.78	0.0025	0.7502
Na	23	3	He	62155.229	155.686	6043167.41	0.0025	0.7502
Mg	24	3	He	3155.135	3.8467	150586.18	0.0012	0.02618
Mg	24	3	He	3106.662	3.788	149808.41	0.0012	0.02618
Mg	24	3	He	3217.39	3.922	152239.36	0.0012	0.02618
Al	27	3	He	153.879	0.0634	2480.27	0.0004	0.005329
Al	27	3	He	152.844	0.063	2490.25	0.0004	0.005329
Al	27	3	He	143.012	0.0593	2300.24	0.0004	0.005329
K	39	3	He	7914.56	8.3894	328423.91	0.001	0.5307
K	39	3	He	7784.508	8.2603	326683.22	0.001	0.5307
K	39	3	He	7912.679	8.3876	325575.28	0.001	0.5307
Ca	44	3	He	11966.281	0.6343	24832.69	0.0001	0.004441
Ca	44	3	He	11855.56	0.6285	24856.73	0.0001	0.004441
Ca	44	3	He	11880.815	0.6298	24448.15	0.0001	0.004441
Ti	47	3	He	3.008	0.0017	66.00	0.0004	0.0004559
Ti	47	3	He	0.369	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	1.153	0.0009	36.00	0.0004	0.0004559
V	51	3	He	0.32	0.0317	1242.06	0.0176	0.02609
V	51	3	He	0.207	0.0297	1176.05	0.0176	0.02609
V	51	3	He	0.406	0.0332	1290.06	0.0176	0.02609
Cr	52	3	He	-0.131	0.0478	1870.18	0.0217	0.05061
Cr	52	3	He	-0.444	0.041	1620.13	0.0217	0.05061
Cr	52	3	He	-0.373	0.0425	1650.15	0.0217	0.05061
Mn	55	3	He	35.818	0.3372	13199.35	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	34.798	0.3279	12967.17	0.0091	0.01071
Mn	55	3	He	35.992	0.3388	13149.34	0.0091	0.01071
Fe	57	3	He	819.727	0.3358	13145.66	0.0004	0.008452
Fe	57	3	He	809.928	0.3319	13125.65	0.0004	0.008452
Fe	57	3	He	782.995	0.3211	12465.16	0.0004	0.008452
Co	59	3	He	0.186	0.0137	536.01	0.0413	0.006013
Co	59	3	He	0.153	0.0123	488.01	0.0413	0.006013
Co	59	3	He	0.22	0.0151	586.01	0.0413	0.006013
Ni	60	3	He	1.212	0.026	1016.04	0.0117	0.01172
Ni	60	3	He	1.069	0.0243	960.03	0.0117	0.01172
Ni	60	3	He	1.095	0.0246	954.03	0.0117	0.01172
Cu	63	3	He	23.658	0.4772	32334.10	0.0196	0.01443
Cu	63	3	He	24.161	0.4871	33113.61	0.0196	0.01443
Cu	63	3	He	23.68	0.4777	32674.70	0.0196	0.01443
Zn	66	3	He	180.224	0.4124	27942.03	0.0023	0.002807
Zn	66	3	He	180.489	0.413	28078.27	0.0023	0.002807
Zn	66	3	He	178.469	0.4084	27938.01	0.0023	0.002807
As	75	3	He	1.731	0.0045	302.00	0.0018	0.001271
As	75	3	He	1.435	0.0039	266.00	0.0018	0.001271
As	75	3	He	1.597	0.0042	288.00	0.0018	0.001271
Sr	88	3	He	58.795	0.4842	26112.02	0.0082	0.00114
Sr	88	3	He	56.633	0.4664	25581.15	0.0082	0.00114
Sr	88	3	He	58.967	0.4856	26422.76	0.0082	0.00114
Mo	98	3	He	0.522	0.0108	580.03	0.0177	0.001504
Mo	98	3	He	0.296	0.0067	370.01	0.0177	0.001504
Mo	98	3	He	0.621	0.0125	680.04	0.0177	0.001504
Ag	107	3	He	0.019	0.002	110.01	0.0368	0.001325
Ag	107	3	He	0.009	0.0016	90.00	0.0368	0.001325
Ag	107	3	He	0.014	0.0018	100.00	0.0368	0.001325
Cd	111	3	He	0.097	0.0004	24.00	0.0041	4.798E-05
Cd	111	3	He	0.139	0.0006	34.00	0.0041	4.798E-05
Cd	111	3	He	0.132	0.0006	32.00	0.0041	4.798E-05
Sn	120	3	He	0.75	0.0204	1100.19	0.0126	0.01097
Sn	120	3	He	-0.002	0.0109	600.04	0.0126	0.01097
Sn	120	3	He	0.224	0.0138	750.05	0.0126	0.01097
Sb	121	3	He	0.119	0.0018	96.67	0.012	0.0003595
Sb	121	3	He	0.283	0.0038	206.67	0.012	0.0003595
Sb	121	3	He	0.174	0.0025	133.34	0.012	0.0003595
Ba	137	3	He	26.671	0.1044	5631.21	0.0039	0.0003633
Ba	137	3	He	23.98	0.0939	5151.04	0.0039	0.0003633
Ba	137	3	He	26.056	0.102	5551.20	0.0039	0.0003633
Tl	205	3	He	0.004	0.0014	280.01	0.0189	0.001334
Tl	205	3	He	0.019	0.0017	330.02	0.0189	0.001334
Tl	205	3	He	-0.006	0.0012	240.01	0.0189	0.001334
Pb	208	3	He	0.529	0.0148	1600.15	0.0252	0.001497
Pb	208	3	He	0.617	0.017	1890.17	0.0252	0.001497
Pb	208	3	He	0.498	0.014	1450.12	0.0252	0.001497
U	238	3	He	0.022	0.0007	130.01	0.0245	0.0001141
U	238	3	He	0.035	0.001	190.01	0.0245	0.0001141
U	238	3	He	0.024	0.0007	140.00	0.0245	0.0001141
Sc	45	1	No Gas			1621319.19		
Sc	45	1	No Gas			1624646.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1671689.66		
Ge	72	1	No Gas			836193.89		
Ge	72	1	No Gas			832501.16		
Ge	72	1	No Gas			843006.71		
Sc	45	2	H2			132027.14		
Sc	45	2	H2			132712.37		
Sc	45	2	H2			133479.28		
Ge	72	2	H2			101097.07		
Ge	72	2	H2			99144.86		
Ge	72	2	H2			101539.42		
In	115	2	H2			253190.52		
In	115	2	H2			246236.42		
In	115	2	H2			253440.46		
Sc	45	3	He			39147.29		
Sc	45	3	He			39548.56		
Sc	45	3	He			38816.38		
Ge	72	3	He			67753.06		
Ge	72	3	He			67984.20		
Ge	72	3	He			68405.05		
In	115	3	He			53934.40		
In	115	3	He			54847.01		
In	115	3	He			54415.38		
Tb	159	3	He			197801.62		
Tb	159	3	He			194001.60		
Tb	159	3	He			196157.97		
Bi	209	3	He			149297.79		
Bi	209	3	He			149753.09		
Bi	209	3	He			145671.17		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 7:00:29 PM
Sample Name	CCV 8028071
Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

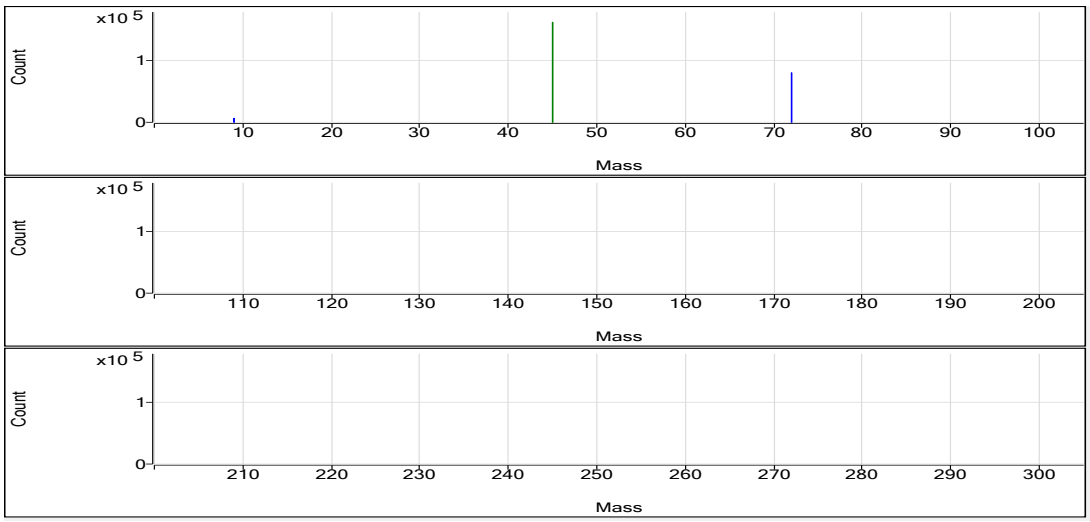
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	25.133	ppb	4.4	13734.29	0.0085	Pulse	0.5000	3
Se	78	72	H2	25.779	ppb	5.6	950.70	0.0101	Pulse	1.5000	3
Na	23	45	He	2584.338	ppb	1.6	271160.20	7.1922	Pulse	0.1000	3
Mg	24	45	He	2686.710	ppb	1.9	123635.05	3.2795	Pulse	0.1000	3
Al	27	45	He	2736.011	ppb	1.1	39106.64	1.0371	Pulse	0.1000	3
K	39	45	He	2698.223	ppb	3.4	121004.78	3.2099	Pulse	0.5000	3
Ca	44	45	He	2662.458	ppb	2.5	5450.93	0.1446	Pulse	0.5000	3
Ti	47	45	He	2672.117	ppb	1.7	41217.47	1.0933	Pulse	0.5000	3
V	51	45	He	269.080	ppb	1.2	179421.02	4.7588	Pulse	0.5000	3
Cr	52	45	He	269.949	ppb	1.1	223031.46	5.9152	Pulse	0.1000	3
Mn	55	45	He	270.887	ppb	1.2	93492.44	2.4797	Pulse	0.5000	3
Fe	57	45	He	2700.764	ppb	2.4	40979.06	1.0870	Pulse	0.1000	3
Co	59	45	He	268.206	ppb	1.2	417741.41	11.0799	Pulse	0.5000	3
Ni	60	45	He	267.428	ppb	1.8	118860.19	3.1527	Pulse	0.5000	3
Cu	63	72	He	265.129	ppb	1.2	329843.18	5.2009	Pulse	0.5000	3
Zn	66	72	He	265.803	ppb	1.4	38489.51	0.6069	Pulse	0.5000	3
As	75	72	He	264.103	ppb	1.2	30912.28	0.4874	Pulse	0.5000	3
Sr	88	115	He	25.776	ppb	3.9	11057.48	0.2129	Pulse	0.1000	3
Mo	98	115	He	26.054	ppb	2.6	24052.23	0.4630	Pulse	0.1000	3
Ag	107	115	He	25.222	ppb	1.1	48245.09	0.9288	Pulse	0.1000	3
Cd	111	115	He	26.113	ppb	5.5	5565.01	0.1072	Pulse	0.5000	3
Sn	120	115	He	26.288	ppb	3.3	17757.24	0.3419	Pulse	0.1000	3
Sb	121	115	He	26.170	ppb	1.7	16392.06	0.3156	Pulse	0.3000	3
Ba	137	115	He	257.072	ppb	2.0	52119.33	1.0034	Pulse	0.1000	3
Tl	205	159	He	24.993	ppb	1.2	90834.89	0.4747	Pulse	0.1000	3
Pb	208	159	He	25.465	ppb	1.2	122876.70	0.6421	Pulse	0.1000	3
U	238	159	He	25.977	ppb	0.3	122054.93	0.6378	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1618852.63	0.4	94.8	Analog	0.1000	3
No Gas	Ge	72	801281.86	1.1	92.8	Pulse	0.1000	3
H2	Sc	45	128953.64	2.8	96.5	Pulse	0.1000	3
H2	Ge	72	94470.10	1.3	95.4	Pulse	0.1000	3
H2	In	115	239524.64	1.3	93.3	Pulse	0.1000	3
He	Sc	45	37707.43	1.6	95.5	Pulse	0.1000	3
He	Ge	72	63428.66	1.6	93.1	Pulse	0.1000	3
He	In	115	51946.59	1.1	93.8	Pulse	0.1000	3
He	Tb	159	191365.20	0.5	93.4	Pulse	0.1000	3
He	Bi	209	140643.16	0.4	93.0	Pulse	0.1000	3

No Gas



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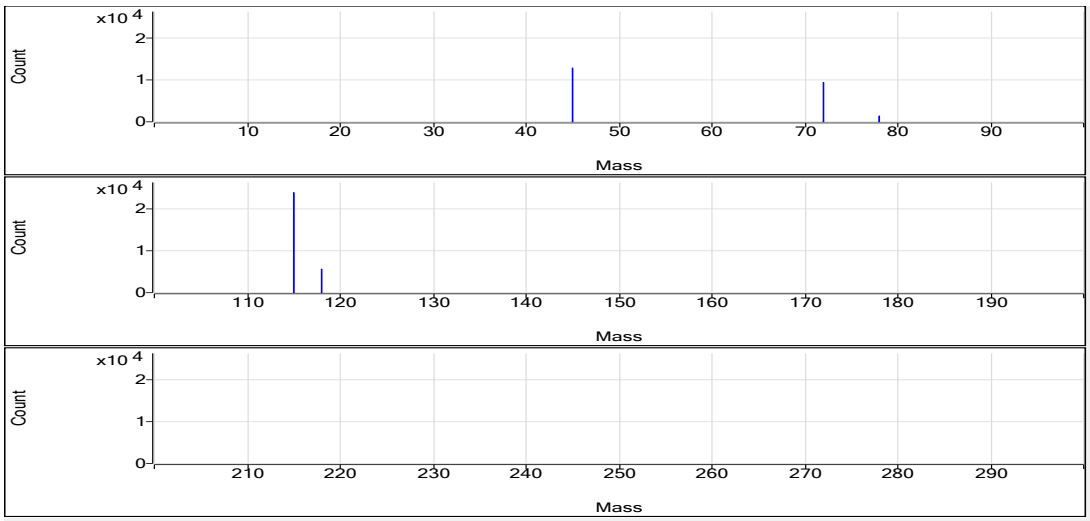
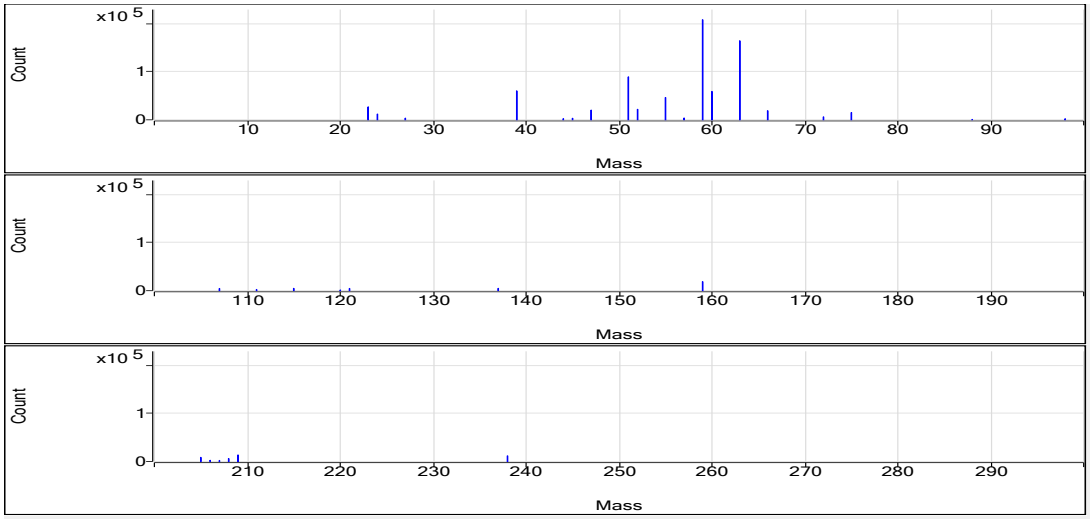


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.951	0.0081	13135.13	0.0003	2.616E-05
Be	9	1	No Gas	25.335	0.0086	13859.71	0.0003	2.616E-05
Be	9	1	No Gas	26.113	0.0088	14208.02	0.0003	2.616E-05
Se	78	2	H2	26.3	0.0103	962.03	0.0004	6.3E-05
Se	78	2	H2	26.883	0.0105	1005.37	0.0004	6.3E-05
Se	78	2	H2	24.155	0.0094	884.69	0.0004	6.3E-05
Na	23	3	He	2626.725	7.2979	271282.96	0.0025	0.7502
Na	23	3	He	2543.251	7.0898	271790.99	0.0025	0.7502
Na	23	3	He	2583.038	7.189	270406.64	0.0025	0.7502
Mg	24	3	He	2730.715	3.3327	123887.22	0.0012	0.02618
Mg	24	3	He	2629.005	3.2096	123040.63	0.0012	0.02618
Mg	24	3	He	2700.409	3.296	123977.30	0.0012	0.02618
Al	27	3	He	2751.319	1.0429	38765.87	0.0004	0.005329
Al	27	3	He	2755.519	1.0444	40039.04	0.0004	0.005329
Al	27	3	He	2701.195	1.024	38515.00	0.0004	0.005329
K	39	3	He	2804.108	3.315	123228.16	0.001	0.5307
K	39	3	He	2632.631	3.1447	120554.98	0.001	0.5307
K	39	3	He	2657.931	3.1699	119231.20	0.001	0.5307
Ca	44	3	He	2696.214	0.1464	5440.92	0.0001	0.004441
Ca	44	3	He	2585.116	0.1405	5386.90	0.0001	0.004441
Ca	44	3	He	2706.044	0.1469	5524.96	0.0001	0.004441
Ti	47	3	He	2718.147	1.1121	41339.80	0.0004	0.0004559
Ti	47	3	He	2628.768	1.0755	41231.46	0.0004	0.0004559
Ti	47	3	He	2669.437	1.0922	41081.15	0.0004	0.0004559
V	51	3	He	271.202	4.7961	178285.11	0.0176	0.02609
V	51	3	He	265.371	4.6936	179929.89	0.0176	0.02609
V	51	3	He	270.668	4.7867	180048.05	0.0176	0.02609
Cr	52	3	He	269.646	5.9086	219638.92	0.0217	0.05061
Cr	52	3	He	267.083	5.8529	224373.77	0.0217	0.05061
Cr	52	3	He	273.117	5.984	225081.70	0.0217	0.05061
Mn	55	3	He	273.694	2.5053	93129.17	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	267.417	2.4481	93848.86	0.0091	0.01071
Mn	55	3	He	271.549	2.4858	93499.30	0.0091	0.01071
Fe	57	3	He	2774.743	1.1165	41503.85	0.0004	0.008452
Fe	57	3	He	2665.69	1.073	41132.47	0.0004	0.008452
Fe	57	3	He	2661.86	1.0714	40300.87	0.0004	0.008452
Co	59	3	He	270.492	11.1742	415378.03	0.0413	0.006013
Co	59	3	He	264.395	10.9225	418719.38	0.0413	0.006013
Co	59	3	He	269.731	11.1428	419126.81	0.0413	0.006013
Ni	60	3	He	269.71	3.1795	118190.52	0.0117	0.01172
Ni	60	3	He	261.809	3.0867	118329.84	0.0117	0.01172
Ni	60	3	He	270.766	3.1919	120060.21	0.0117	0.01172
Cu	63	3	He	267.547	5.2482	328971.63	0.0196	0.01443
Cu	63	3	He	266.285	5.2235	328995.47	0.0196	0.01443
Cu	63	3	He	261.554	5.131	331562.44	0.0196	0.01443
Zn	66	3	He	267.955	0.6118	38349.14	0.0023	0.002807
Zn	66	3	He	268.014	0.6119	38541.65	0.0023	0.002807
Zn	66	3	He	261.442	0.597	38577.73	0.0023	0.002807
As	75	3	He	266.015	0.4909	30773.37	0.0018	0.001271
As	75	3	He	265.967	0.4909	30915.58	0.0018	0.001271
As	75	3	He	260.328	0.4805	31047.88	0.0018	0.001271
Sr	88	3	He	26.194	0.2164	11174.28	0.0082	0.00114
Sr	88	3	He	26.499	0.2189	11284.29	0.0082	0.00114
Sr	88	3	He	24.636	0.2036	10713.87	0.0082	0.00114
Mo	98	3	He	25.296	0.4495	23217.63	0.0177	0.001504
Mo	98	3	He	26.326	0.4678	24118.89	0.0177	0.001504
Mo	98	3	He	26.539	0.4716	24820.17	0.0177	0.001504
Ag	107	3	He	25.309	0.932	48134.61	0.0368	0.001325
Ag	107	3	He	25.447	0.9371	48315.23	0.0368	0.001325
Ag	107	3	He	24.911	0.9174	48285.44	0.0368	0.001325
Cd	111	3	He	27.142	0.1114	5753.08	0.0041	4.798E-05
Cd	111	3	He	26.734	0.1097	5657.05	0.0041	4.798E-05
Cd	111	3	He	24.464	0.1004	5284.91	0.0041	4.798E-05
Sn	120	3	He	25.464	0.3315	17119.96	0.0126	0.01097
Sn	120	3	He	27.206	0.3534	18221.05	0.0126	0.01097
Sn	120	3	He	26.194	0.3407	17930.72	0.0126	0.01097
Sb	121	3	He	26.291	0.3171	16375.33	0.012	0.0003595
Sb	121	3	He	26.541	0.3201	16502.18	0.012	0.0003595
Sb	121	3	He	25.677	0.3097	16298.67	0.012	0.0003595
Ba	137	3	He	262.792	1.0257	52972.68	0.0039	0.0003633
Ba	137	3	He	252.863	0.9869	50884.87	0.0039	0.0003633
Ba	137	3	He	255.56	0.9975	52500.45	0.0039	0.0003633
Tl	205	3	He	25.336	0.4812	91636.16	0.0189	0.001334
Tl	205	3	He	24.899	0.4729	90449.90	0.0189	0.001334
Tl	205	3	He	24.742	0.4699	90418.61	0.0189	0.001334
Pb	208	3	He	25.817	0.651	66190.73	0.0252	0.001497
Pb	208	3	He	25.23	0.6362	65467.08	0.0252	0.001497
Pb	208	3	He	25.347	0.6392	65939.45	0.0252	0.001497
U	238	3	He	26.051	0.6396	121806.30	0.0245	0.0001141
U	238	3	He	25.915	0.6363	121695.21	0.0245	0.0001141
U	238	3	He	25.966	0.6375	122663.28	0.0245	0.0001141
Sc	45	1	No Gas			1624225.29		
Sc	45	1	No Gas			1620492.63		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1611839.98		
Ge	72	1	No Gas			798563.35		
Ge	72	1	No Gas			811079.44		
Ge	72	1	No Gas			794202.80		
Sc	45	2	H2			130132.89		
Sc	45	2	H2			131795.03		
Sc	45	2	H2			124932.99		
Ge	72	2	H2			93742.51		
Ge	72	2	H2			95854.72		
Ge	72	2	H2			93813.08		
In	115	2	H2			237617.71		
In	115	2	H2			243015.70		
In	115	2	H2			237940.50		
Sc	45	3	He			37172.82		
Sc	45	3	He			38335.45		
Sc	45	3	He			37614.02		
Ge	72	3	He			62682.68		
Ge	72	3	He			62983.59		
Ge	72	3	He			64619.72		
In	115	3	He			51766.72		
In	115	3	He			51686.11		
In	115	3	He			52759.86		
Tb	159	3	He			190436.07		
Tb	159	3	He			191258.06		
Tb	159	3	He			192401.48		
Bi	209	3	He			140722.26		
Bi	209	3	He			140048.38		
Bi	209	3	He			141158.85		

Quantitation Report

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Sample Type	CCB
Comment	---
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

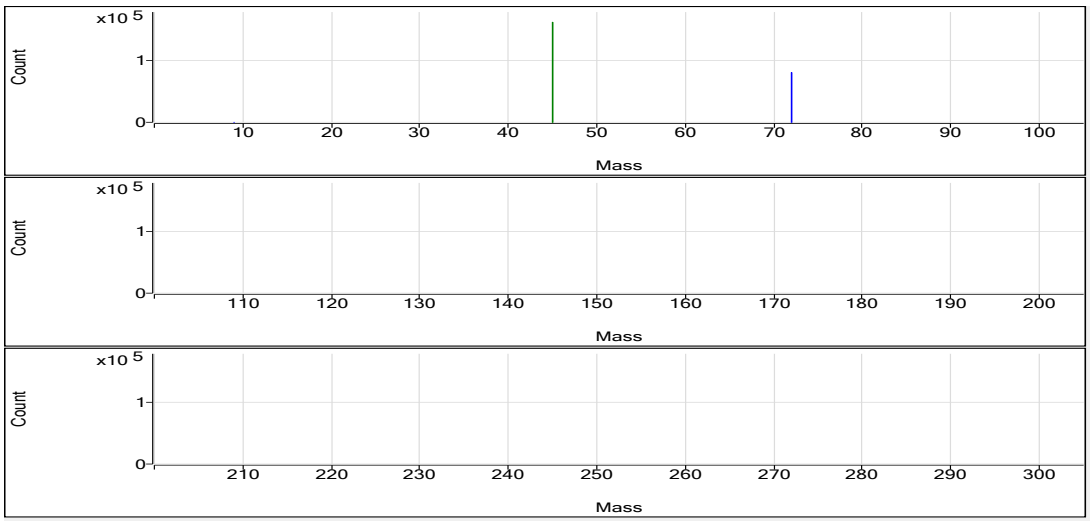
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.001	ppb	1727.9	43.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.101	ppb	N/A	2.22	0.0000	Pulse	1.5000	3
Na	23	45	He	-105.928	ppb	N/A	18720.97	0.4861	Pulse	0.1000	3
Mg	24	45	He	-10.391	ppb	N/A	523.36	0.0136	Pulse	0.1000	3
Al	27	45	He	-4.960	ppb	N/A	133.34	0.0035	Pulse	0.1000	3
K	39	45	He	0.937	ppb	7315.7	20477.54	0.5316	Pulse	0.5000	3
Ca	44	45	He	-14.624	ppb	N/A	141.33	0.0037	Pulse	0.5000	3
Ti	47	45	He	-0.226	ppb	N/A	14.00	0.0004	Pulse	0.5000	3
V	51	45	He	-0.007	ppb	N/A	1000.04	0.0260	Pulse	0.5000	3
Cr	52	45	He	-0.345	ppb	N/A	1660.13	0.0431	Pulse	0.1000	3
Mn	55	45	He	-0.311	ppb	N/A	303.34	0.0079	Pulse	0.5000	3
Fe	57	45	He	-8.593	ppb	N/A	193.34	0.0050	Pulse	0.1000	3
Co	59	45	He	-0.009	ppb	N/A	216.67	0.0056	Pulse	0.5000	3
Ni	60	45	He	-0.095	ppb	N/A	408.01	0.0106	Pulse	0.5000	3
Cu	63	72	He	-0.296	ppb	N/A	564.68	0.0086	Pulse	0.5000	3
Zn	66	72	He	-0.131	ppb	N/A	164.00	0.0025	Pulse	0.5000	3
As	75	72	He	0.868	ppb	18.4	187.33	0.0029	Pulse	0.5000	3
Sr	88	115	He	-0.085	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Mo	98	115	He	-0.024	ppb	N/A	56.67	0.0011	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	-0.002	ppb	N/A	2.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.135	ppb	N/A	483.36	0.0093	Pulse	0.1000	3
Sb	121	115	He	0.046	ppb	54.4	47.78	0.0009	Pulse	0.3000	3
Ba	137	115	He	0.087	ppb	88.8	36.67	0.0007	Pulse	0.1000	3
Tl	205	159	He	-0.019	ppb	N/A	183.34	0.0010	Pulse	0.1000	3
Pb	208	159	He	0.002	ppb	148.3	290.01	0.0015	Pulse	0.1000	3
U	238	159	He	0.003	ppb	99.4	33.33	0.0002	Pulse	0.1000	3

ISTD Table:

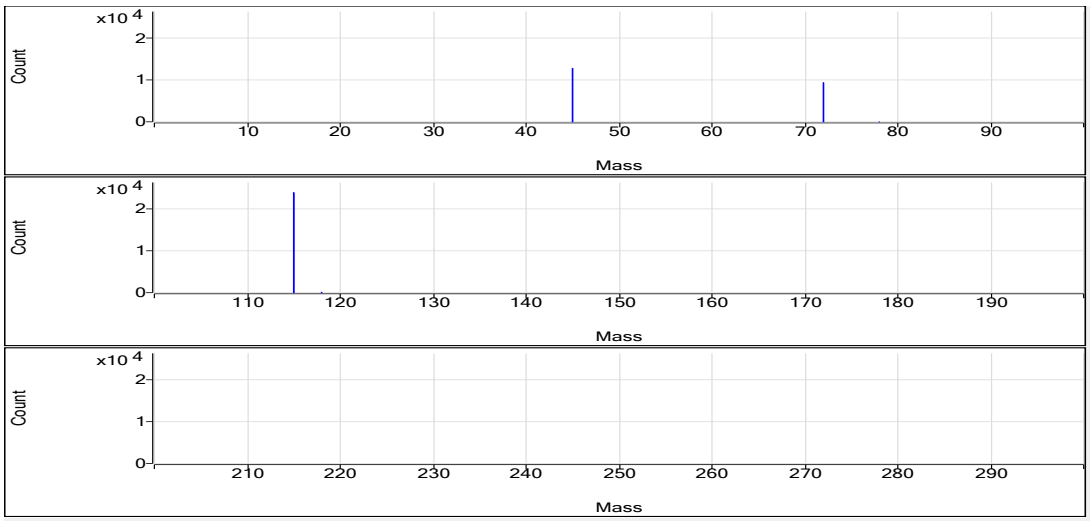
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1631091.75	0.9	95.5	Analog	0.1000	3
No Gas	Ge	72	811857.28	0.7	94.0	Pulse	0.1000	3
H2	Sc	45	128573.60	0.5	96.2	Pulse	0.1000	3
H2	Ge	72	93873.49	0.3	94.8	Pulse	0.1000	3
H2	In	115	239944.74	1.7	93.5	Pulse	0.1000	3
He	Sc	45	38509.36	0.5	97.6	Pulse	0.1000	3
He	Ge	72	65343.10	1.0	95.9	Pulse	0.1000	3
He	In	115	52315.05	1.8	94.4	Pulse	0.1000	3
He	Tb	159	188303.57	1.6	92.0	Pulse	0.1000	3
He	Bi	209	139948.90	1.0	92.5	Pulse	0.1000	3

No Gas

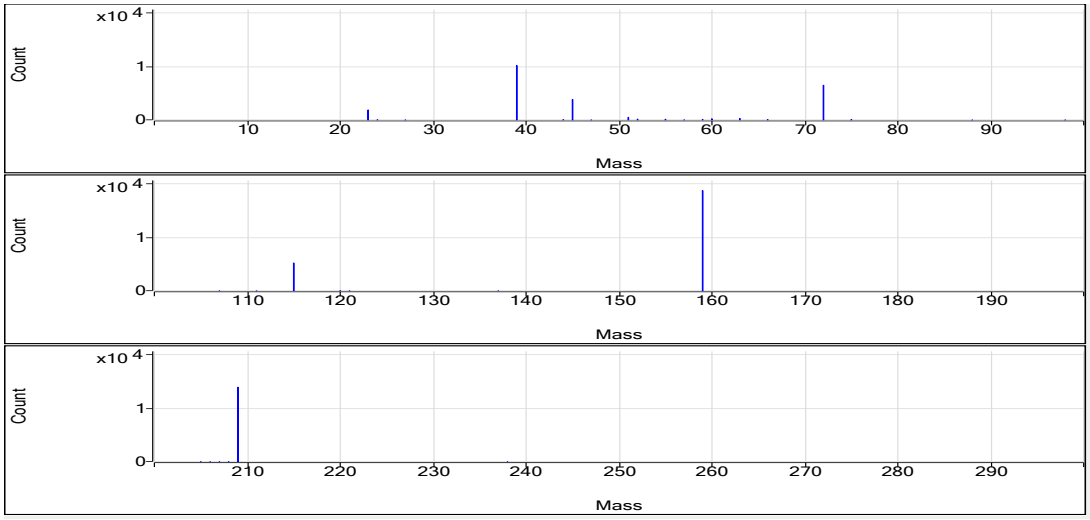


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.023	0	56.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.012	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Se	78	2	H2	-0.126	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.089	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.089	0	2.67	0.0004	6.3E-05
Na	23	3	He	-103.701	0.4917	19031.37	0.0025	0.7502
Na	23	3	He	-104.835	0.4889	18730.91	0.0025	0.7502
Na	23	3	He	-109.247	0.4779	18400.64	0.0025	0.7502
Mg	24	3	He	-13.088	0.0103	400.02	0.0012	0.02618
Mg	24	3	He	-8.258	0.0162	620.03	0.0012	0.02618
Mg	24	3	He	-9.826	0.0143	550.03	0.0012	0.02618
Al	27	3	He	-1.8	0.0047	180.01	0.0004	0.005329
Al	27	3	He	-7.212	0.0026	100.00	0.0004	0.005329
Al	27	3	He	-5.868	0.0031	120.00	0.0004	0.005329
K	39	3	He	77.038	0.6072	23500.79	0.001	0.5307
K	39	3	He	-18.16	0.5126	19641.69	0.001	0.5307
K	39	3	He	-56.066	0.475	18290.14	0.001	0.5307
Ca	44	3	He	-22.523	0.0033	126.00	0.0001	0.004441
Ca	44	3	He	-11.976	0.0038	146.00	0.0001	0.004441
Ca	44	3	He	-9.374	0.0039	152.00	0.0001	0.004441
Ti	47	3	He	-0.104	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.034	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	-0.607	0.0002	8.00	0.0004	0.0004559
V	51	3	He	-0.091	0.0245	948.03	0.0176	0.02609
V	51	3	He	0.149	0.0287	1100.05	0.0176	0.02609
V	51	3	He	-0.078	0.0247	952.03	0.0176	0.02609
Cr	52	3	He	-0.605	0.0375	1450.10	0.0217	0.05061
Cr	52	3	He	-0.275	0.0446	1710.14	0.0217	0.05061
Cr	52	3	He	-0.154	0.0473	1820.16	0.0217	0.05061
Mn	55	3	He	-0.149	0.0094	362.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.327	0.0077	296.00	0.0091	0.01071
Mn	55	3	He	-0.457	0.0065	252.00	0.0091	0.01071
Fe	57	3	He	-8.226	0.0052	200.01	0.0004	0.008452
Fe	57	3	He	-8.094	0.0052	200.01	0.0004	0.008452
Fe	57	3	He	-9.46	0.0047	180.01	0.0004	0.008452
Co	59	3	He	-0.007	0.0057	222.00	0.0413	0.006013
Co	59	3	He	-0.009	0.0056	216.00	0.0413	0.006013
Co	59	3	He	-0.012	0.0055	212.00	0.0413	0.006013
Ni	60	3	He	-0.144	0.01	388.01	0.0117	0.01172
Ni	60	3	He	-0.158	0.0099	378.01	0.0117	0.01172
Ni	60	3	He	0.015	0.0119	458.01	0.0117	0.01172
Cu	63	3	He	-0.311	0.0084	540.01	0.0196	0.01443
Cu	63	3	He	-0.271	0.0091	602.02	0.0196	0.01443
Cu	63	3	He	-0.306	0.0084	552.01	0.0196	0.01443
Zn	66	3	He	-0.16	0.0024	158.00	0.0023	0.002807
Zn	66	3	He	-0.101	0.0026	170.00	0.0023	0.002807
Zn	66	3	He	-0.132	0.0025	164.00	0.0023	0.002807
As	75	3	He	1.041	0.0032	206.00	0.0018	0.001271
As	75	3	He	0.726	0.0026	172.00	0.0018	0.001271
As	75	3	He	0.838	0.0028	184.00	0.0018	0.001271
Sr	88	3	He	-0.115	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	-0.068	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.07	0.0006	30.00	0.0082	0.00114
Mo	98	3	He	-0.009	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	-0.03	0.001	50.00	0.0177	0.001504
Mo	98	3	He	-0.032	0.0009	50.00	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0011	60.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.078	0.01	520.02	0.0126	0.01097
Sn	120	3	He	0.008	0.0111	570.03	0.0126	0.01097
Sn	120	3	He	-0.335	0.0067	360.02	0.0126	0.01097
Sb	121	3	He	0.045	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.072	0.0012	63.33	0.012	0.0003595
Sb	121	3	He	0.022	0.0006	33.33	0.012	0.0003595
Ba	137	3	He	0.104	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.156	0.001	50.00	0.0039	0.0003633
Ba	137	3	He	0.003	0.0004	20.00	0.0039	0.0003633
Tl	205	3	He	-0.012	0.0011	210.01	0.0189	0.001334
Tl	205	3	He	-0.034	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.01	0.0011	210.01	0.0189	0.001334
Pb	208	3	He	-0.001	0.0015	170.01	0.0252	0.001497
Pb	208	3	He	0.004	0.0016	150.01	0.0252	0.001497
Pb	208	3	He	0.003	0.0016	160.01	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
Sc	45	1	No Gas			1646595.60		
Sc	45	1	No Gas			1627993.88		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1618685.76		
Ge	72	1	No Gas			805829.21		
Ge	72	1	No Gas			816403.82		
Ge	72	1	No Gas			813338.82		
Sc	45	2	H2			127785.18		
Sc	45	2	H2			128922.48		
Sc	45	2	H2			129013.13		
Ge	72	2	H2			93672.07		
Ge	72	2	H2			94145.40		
Ge	72	2	H2			93803.00		
In	115	2	H2			239870.00		
In	115	2	H2			235798.82		
In	115	2	H2			244165.41		
Sc	45	3	He			38706.31		
Sc	45	3	He			38315.52		
Sc	45	3	He			38506.25		
Ge	72	3	He			64649.93		
Ge	72	3	He			65975.36		
Ge	72	3	He			65404.01		
In	115	3	He			52077.43		
In	115	3	He			51505.69		
In	115	3	He			53372.19		
Tb	159	3	He			190820.04		
Tb	159	3	He			189192.34		
Tb	159	3	He			184898.32		
Bi	209	3	He			141468.93		
Bi	209	3	He			138543.15		
Bi	209	3	He			139834.63		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

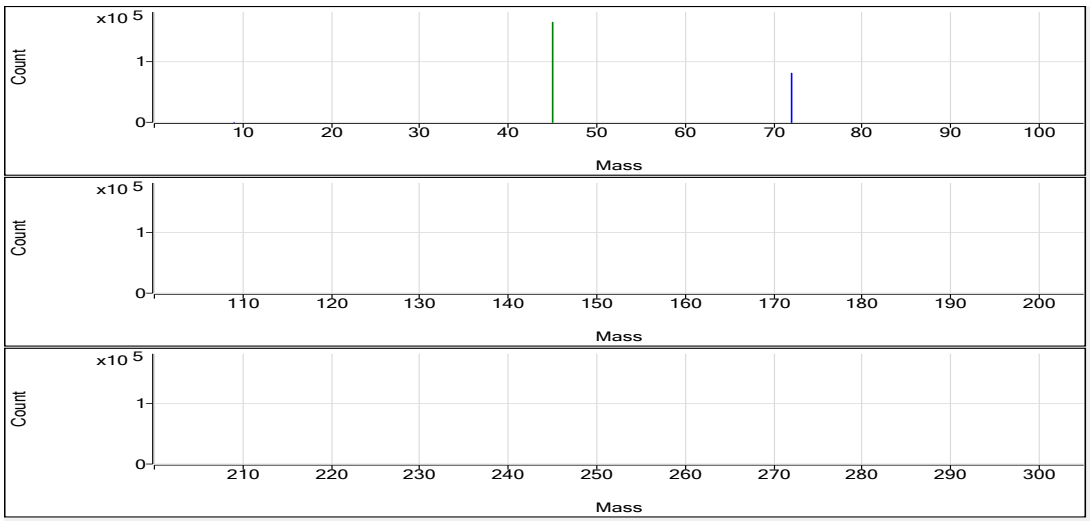
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.037	ppb	N/A	22.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.096	ppb	N/A	2.45	0.0000	Pulse	1.5000	3
Na	23	45	He	-110.912	ppb	N/A	18567.42	0.4737	Pulse	0.1000	3
Mg	24	45	He	-11.349	ppb	N/A	486.69	0.0124	Pulse	0.1000	3
Al	27	45	He	-3.382	ppb	N/A	160.00	0.0041	Pulse	0.1000	3
K	39	45	He	-15.414	ppb	N/A	20163.15	0.5154	Pulse	0.5000	3
Ca	44	45	He	-10.233	ppb	N/A	152.67	0.0039	Pulse	0.5000	3
Ti	47	45	He	-1.072	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
V	51	45	He	-0.242	ppb	N/A	855.36	0.0218	Pulse	0.5000	3
Cr	52	45	He	-0.592	ppb	N/A	1476.79	0.0377	Pulse	0.1000	3
Mn	55	45	He	-0.222	ppb	N/A	340.68	0.0087	Pulse	0.5000	3
Fe	57	45	He	-12.210	ppb	N/A	140.01	0.0036	Pulse	0.1000	3
Co	59	45	He	-0.052	ppb	N/A	152.00	0.0039	Pulse	0.5000	3
Ni	60	45	He	-0.309	ppb	N/A	316.67	0.0081	Pulse	0.5000	3
Cu	63	72	He	-0.343	ppb	N/A	506.68	0.0077	Pulse	0.5000	3
Zn	66	72	He	0.759	ppb	5.8	297.33	0.0045	Pulse	0.5000	3
As	75	72	He	0.966	ppb	30.8	200.00	0.0030	Pulse	0.5000	3
Sr	88	115	He	-0.045	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Mo	98	115	He	-0.067	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Ag	107	115	He	-0.024	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	145.5	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.274	ppb	29.8	756.71	0.0144	Pulse	0.1000	3
Sb	121	115	He	-0.004	ppb	N/A	16.67	0.0003	Pulse	0.3000	3
Ba	137	115	He	0.003	ppb	2351.4	20.00	0.0004	Pulse	0.1000	3
Tl	205	159	He	-0.043	ppb	N/A	100.00	0.0005	Pulse	0.1000	3
Pb	208	159	He	-0.007	ppb	N/A	250.00	0.0013	Pulse	0.1000	3
U	238	159	He	-0.004	ppb	N/A	3.33	0.0000	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1652091.38	1.6	96.7	Analog	0.1000	3
No Gas	Ge	72	812735.46	1.9	94.1	Pulse	0.1000	3
H2	Sc	45	128986.76	1.2	96.5	Pulse	0.1000	3
H2	Ge	72	95774.39	1.7	96.7	Pulse	0.1000	3
H2	In	115	244632.59	1.5	95.3	Pulse	0.1000	3
He	Sc	45	39207.55	2.8	99.3	Pulse	0.1000	3
He	Ge	72	65617.84	0.7	96.3	Pulse	0.1000	3
He	In	115	52564.35	2.1	94.9	Pulse	0.1000	3
He	Tb	159	189728.72	1.1	92.6	Pulse	0.1000	3
He	Bi	209	140407.00	1.3	92.8	Pulse	0.1000	3

No Gas



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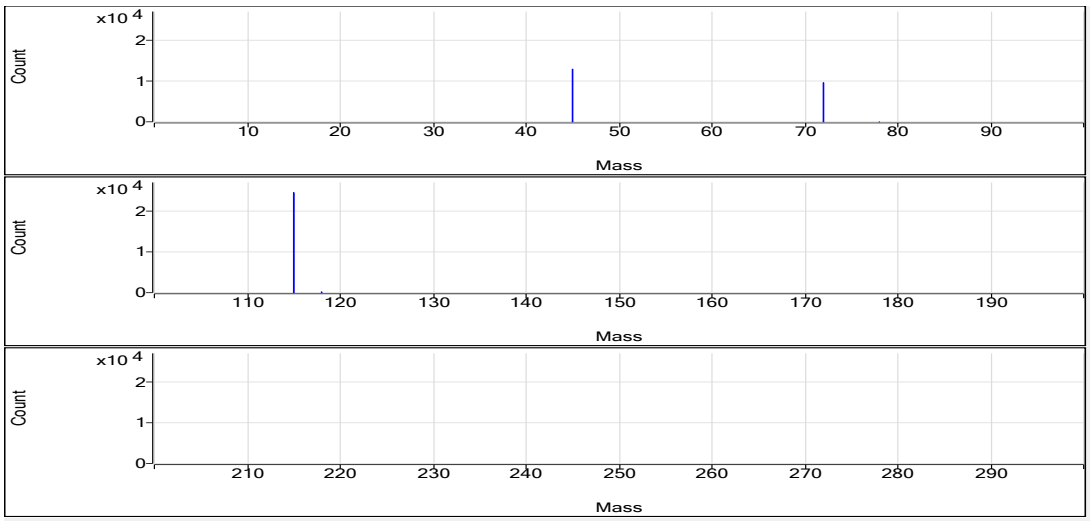
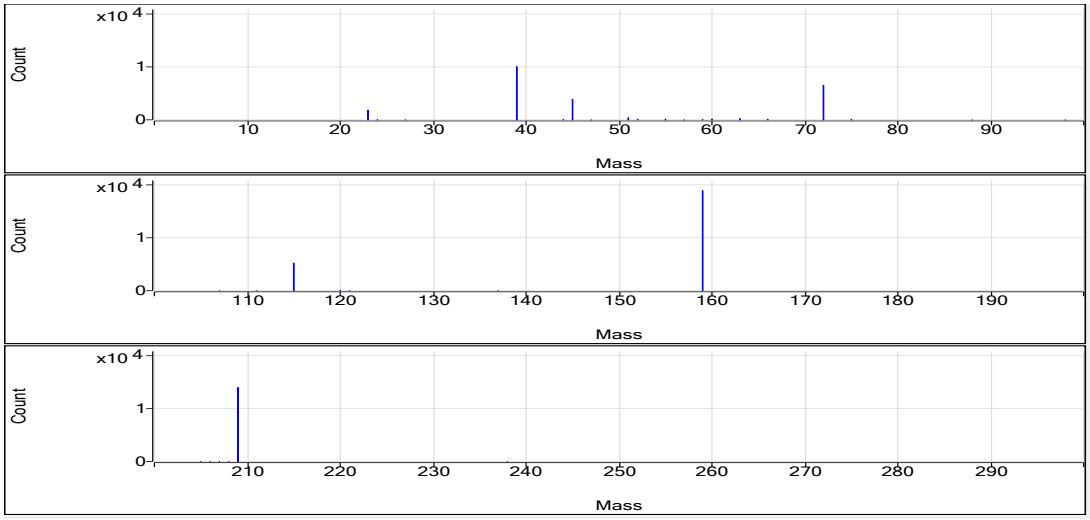


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.049	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.042	0	20.00	0.0003	2.616E-05
Se	78	2	H2	-0.09	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.09	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.11	0	2.00	0.0004	6.3E-05
Na	23	3	He	-110.095	0.4757	18390.65	0.0025	0.7502
Na	23	3	He	-108.262	0.4803	18480.64	0.0025	0.7502
Na	23	3	He	-114.378	0.4651	18830.96	0.0025	0.7502
Mg	24	3	He	-10.94	0.0129	500.04	0.0012	0.02618
Mg	24	3	He	-10.461	0.0135	520.02	0.0012	0.02618
Mg	24	3	He	-12.648	0.0109	440.02	0.0012	0.02618
Al	27	3	He	-5.215	0.0034	130.00	0.0004	0.005329
Al	27	3	He	-5.862	0.0031	120.00	0.0004	0.005329
Al	27	3	He	0.931	0.0057	230.01	0.0004	0.005329
K	39	3	He	70.783	0.6009	23230.38	0.001	0.5307
K	39	3	He	-29.85	0.501	19277.26	0.001	0.5307
K	39	3	He	-87.177	0.4441	17981.81	0.001	0.5307
Ca	44	3	He	1.146	0.0045	174.00	0.0001	0.004441
Ca	44	3	He	-11.29	0.0038	148.00	0.0001	0.004441
Ca	44	3	He	-20.556	0.0034	136.00	0.0001	0.004441
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.988	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	-0.219	0.0222	860.03	0.0176	0.02609
V	51	3	He	-0.174	0.023	886.03	0.0176	0.02609
V	51	3	He	-0.332	0.0203	820.03	0.0176	0.02609
Cr	52	3	He	-0.722	0.0349	1350.11	0.0217	0.05061
Cr	52	3	He	-0.26	0.045	1730.15	0.0217	0.05061
Cr	52	3	He	-0.795	0.0333	1350.10	0.0217	0.05061
Mn	55	3	He	-0.227	0.0086	334.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.217	0.0087	336.01	0.0091	0.01071
Mn	55	3	He	-0.221	0.0087	352.01	0.0091	0.01071
Fe	57	3	He	-10.801	0.0041	160.01	0.0004	0.008452
Fe	57	3	He	-12.705	0.0034	130.00	0.0004	0.008452
Fe	57	3	He	-13.125	0.0032	130.01	0.0004	0.008452
Co	59	3	He	-0.057	0.0037	142.00	0.0413	0.006013
Co	59	3	He	-0.059	0.0036	138.00	0.0413	0.006013
Co	59	3	He	-0.04	0.0043	176.00	0.0413	0.006013
Ni	60	3	He	-0.319	0.008	308.01	0.0117	0.01172
Ni	60	3	He	-0.241	0.0089	342.01	0.0117	0.01172
Ni	60	3	He	-0.367	0.0074	300.00	0.0117	0.01172
Cu	63	3	He	-0.29	0.0088	572.01	0.0196	0.01443
Cu	63	3	He	-0.387	0.0069	454.01	0.0196	0.01443
Cu	63	3	He	-0.352	0.0075	494.01	0.0196	0.01443
Zn	66	3	He	0.788	0.0046	300.00	0.0023	0.002807
Zn	66	3	He	0.708	0.0044	292.00	0.0023	0.002807
Zn	66	3	He	0.781	0.0046	300.00	0.0023	0.002807
As	75	3	He	0.991	0.0031	202.00	0.0018	0.001271
As	75	3	He	0.657	0.0025	164.00	0.0018	0.001271
As	75	3	He	1.251	0.0036	234.00	0.0018	0.001271
Sr	88	3	He	-0.07	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	0.027	0.0014	70.00	0.0082	0.00114
Sr	88	3	He	-0.093	0.0004	20.00	0.0082	0.00114
Mo	98	3	He	-0.074	0.0002	10.00	0.0177	0.001504
Mo	98	3	He	-0.052	0.0006	30.00	0.0177	0.001504
Mo	98	3	He	-0.074	0.0002	10.00	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0007	40.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.244	0.014	740.04	0.0126	0.01097
Sn	120	3	He	0.366	0.0156	800.05	0.0126	0.01097
Sn	120	3	He	0.211	0.0136	730.04	0.0126	0.01097
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	-0.019	0.0001	6.67	0.012	0.0003595
Sb	121	3	He	0.006	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	-0.045	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	-0.043	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.098	0.0007	40.00	0.0039	0.0003633
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	0.007	0.0017	130.00	0.0252	0.001497
Pb	208	3	He	-0.018	0.0011	80.00	0.0252	0.001497
Pb	208	3	He	-0.011	0.0012	190.01	0.0252	0.001497
U	238	3	He	-0.003	0.0001	10.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
Sc	45	1	No Gas			1626002.48		
Sc	45	1	No Gas			1678621.07		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1651650.60		
Ge	72	1	No Gas			816238.89		
Ge	72	1	No Gas			826291.24		
Ge	72	1	No Gas			795676.24		
Sc	45	2	H2			128810.77		
Sc	45	2	H2			130617.31		
Sc	45	2	H2			127532.19		
Ge	72	2	H2			94496.31		
Ge	72	2	H2			95201.43		
Ge	72	2	H2			97625.44		
In	115	2	H2			245240.50		
In	115	2	H2			247954.33		
In	115	2	H2			240702.95		
Sc	45	3	He			38656.33		
Sc	45	3	He			38475.82		
Sc	45	3	He			40490.49		
Ge	72	3	He			65243.39		
Ge	72	3	He			66126.37		
Ge	72	3	He			65483.76		
In	115	3	He			52740.44		
In	115	3	He			51385.29		
In	115	3	He			53583.20		
Tb	159	3	He			191875.21		
Tb	159	3	He			189375.08		
Tb	159	3	He			187935.88		
Bi	209	3	He			142541.10		
Bi	209	3	He			139199.10		
Bi	209	3	He			139480.79		

Quantitation Report

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Sample Name	LCS 410-665138/2-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

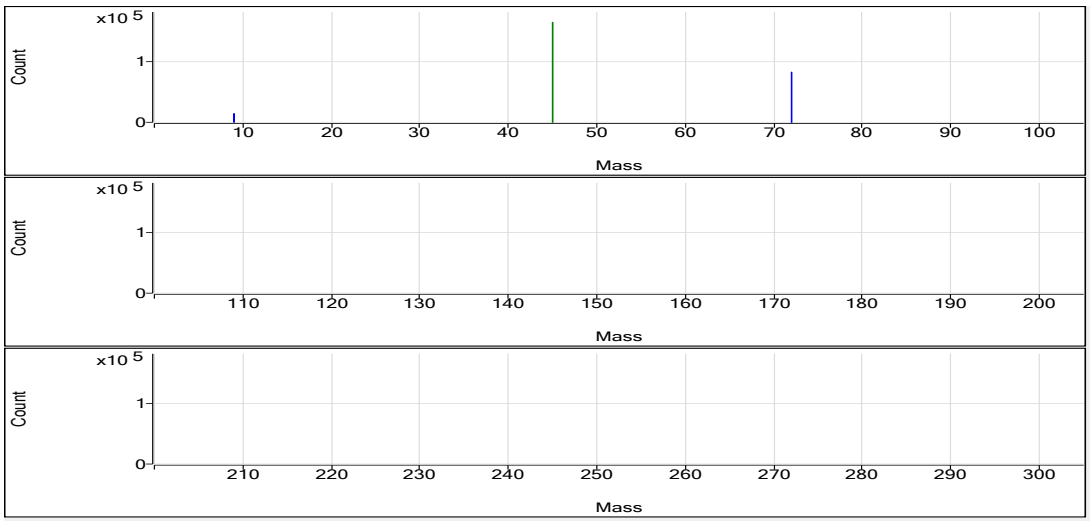
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	52.192	ppb	2.7	29066.24	0.0176	Pulse	0.5000	3
Se	78	72	H2	100.918	ppb	0.7	3808.46	0.0392	Pulse	1.5000	3
Na	23	45	He	5144.306	ppb	1.1	534392.49	13.5735	Pulse	0.1000	3
Mg	24	45	He	5195.938	ppb	0.9	248732.54	6.3178	Pulse	0.1000	3
Al	27	45	He	5292.525	ppb	1.9	78786.54	2.0011	Pulse	0.1000	3
K	39	45	He	5300.663	ppb	1.6	228104.42	5.7940	Pulse	0.5000	3
Ca	44	45	He	5224.447	ppb	3.2	11003.05	0.2795	Pulse	0.5000	3
Ti	47	45	He	543.793	ppb	1.0	8773.71	0.2229	Pulse	0.5000	3
V	51	45	He	522.278	ppb	0.8	362682.48	9.2122	Pulse	0.5000	3
Cr	52	45	He	531.412	ppb	0.6	456518.20	11.5954	Pulse	0.1000	3
Mn	55	45	He	527.079	ppb	0.3	189565.98	4.8148	Pulse	0.5000	3
Fe	57	45	He	5286.322	ppb	0.8	83444.11	2.1195	Pulse	0.1000	3
Co	59	45	He	521.899	ppb	0.9	848600.31	21.5545	Pulse	0.5000	3
Ni	60	45	He	519.928	ppb	0.5	240883.32	6.1183	Pulse	0.5000	3
Cu	63	72	He	504.726	ppb	1.2	673260.95	9.8879	Pulse	0.5000	3
Zn	66	72	He	511.355	ppb	1.0	79323.76	1.1650	Pulse	0.5000	3
As	75	72	He	504.558	ppb	1.8	63323.07	0.9300	Pulse	0.5000	3
Sr	88	115	He	51.450	ppb	5.0	22196.07	0.4239	Pulse	0.1000	3
Mo	98	115	He	52.324	ppb	2.7	48605.54	0.9283	Pulse	0.1000	3
Ag	107	115	He	53.047	ppb	1.2	102218.86	1.9520	Pulse	0.1000	3
Cd	111	115	He	53.171	ppb	1.9	11424.19	0.2182	Pulse	0.5000	3
Sn	120	115	He	106.199	ppb	2.2	70567.49	1.3477	Pulse	0.1000	3
Sb	121	115	He	105.137	ppb	0.9	66339.53	1.2668	Pulse	0.3000	3
Ba	137	115	He	525.907	ppb	2.3	107461.44	2.0522	Pulse	0.1000	3
Tl	205	159	He	101.696	ppb	1.1	372662.38	1.9274	Pulse	0.1000	3
Pb	208	159	He	52.128	ppb	1.0	253843.37	1.3129	Pulse	0.1000	3
U	238	159	He	52.377	ppb	1.0	248619.06	1.2859	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1652142.58	0.7	96.7	Analog	0.1000	3
No Gas	Ge	72	830145.87	0.3	96.1	Pulse	0.1000	3
H2	Sc	45	129998.73	1.6	97.3	Pulse	0.1000	3
H2	Ge	72	97156.13	0.4	98.1	Pulse	0.1000	3
H2	In	115	244418.75	0.2	95.2	Pulse	0.1000	3
He	Sc	45	39371.24	0.6	99.7	Pulse	0.1000	3
He	Ge	72	68094.79	1.0	100.0	Pulse	0.1000	3
He	In	115	52369.89	1.1	94.5	Pulse	0.1000	3
He	Tb	159	193357.12	1.0	94.4	Pulse	0.1000	3
He	Bi	209	142772.89	0.5	94.4	Pulse	0.1000	3

No Gas



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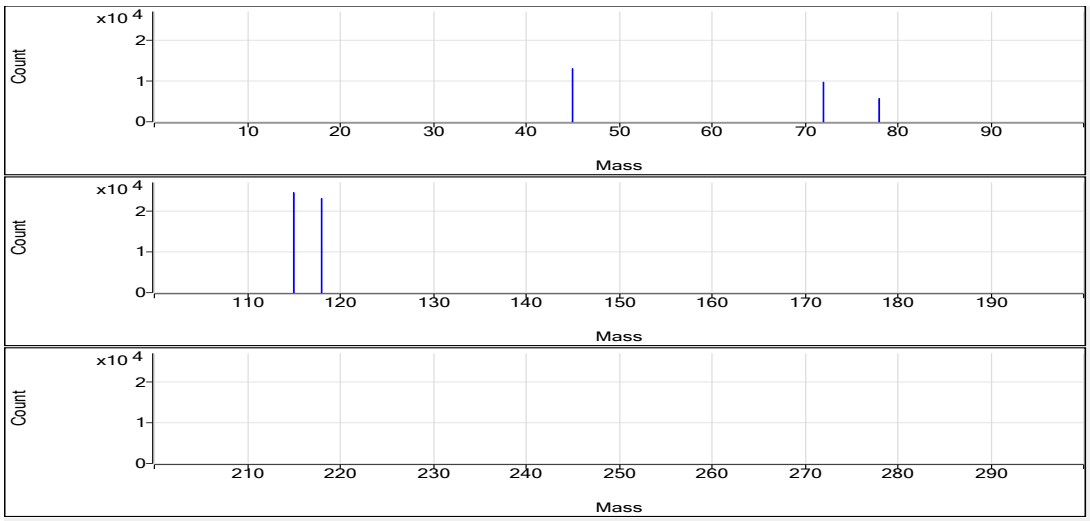
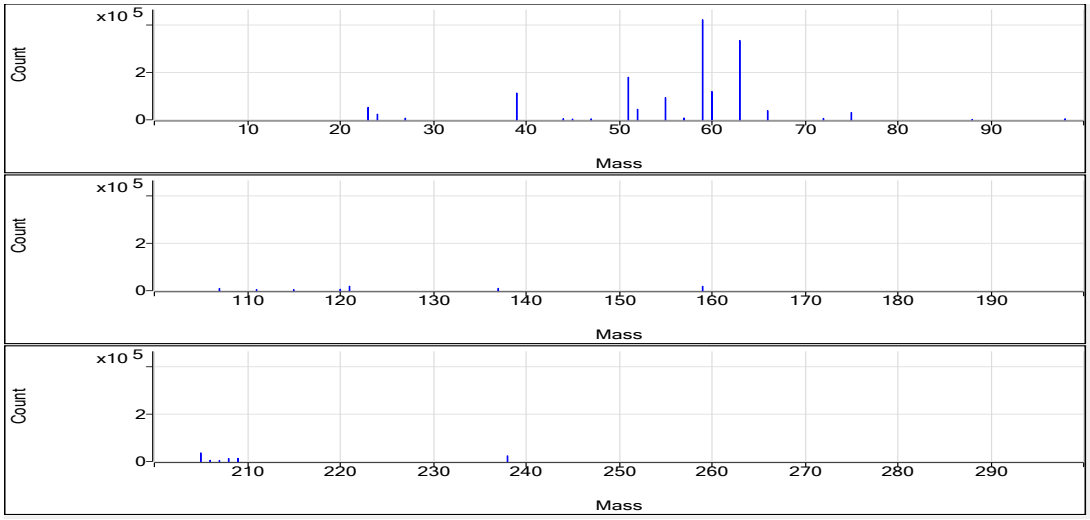


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	50.636	0.0171	28139.30	0.0003	2.616E-05
Be	9	1	No Gas	52.619	0.0177	29143.07	0.0003	2.616E-05
Be	9	1	No Gas	53.322	0.018	29916.35	0.0003	2.616E-05
Se	78	2	H2	101.669	0.0395	3823.13	0.0004	6.3E-05
Se	78	2	H2	100.438	0.039	3804.46	0.0004	6.3E-05
Se	78	2	H2	100.648	0.0391	3797.79	0.0004	6.3E-05
Na	23	3	He	5121.236	13.516	530201.95	0.0025	0.7502
Na	23	3	He	5206.041	13.7274	538491.79	0.0025	0.7502
Na	23	3	He	5105.641	13.4771	534483.74	0.0025	0.7502
Mg	24	3	He	5247.667	6.3805	250290.33	0.0012	0.02618
Mg	24	3	He	5187.94	6.3081	247452.03	0.0012	0.02618
Mg	24	3	He	5152.206	6.2649	248455.25	0.0012	0.02618
Al	27	3	He	5204.525	1.968	77198.60	0.0004	0.005329
Al	27	3	He	5400.941	2.042	80103.74	0.0004	0.005329
Al	27	3	He	5272.11	1.9934	79057.27	0.0004	0.005329
K	39	3	He	5391.689	5.8844	230829.52	0.001	0.5307
K	39	3	He	5288.657	5.782	226815.16	0.001	0.5307
K	39	3	He	5221.642	5.7155	226668.58	0.001	0.5307
Ca	44	3	He	5334.644	0.2853	11189.85	0.0001	0.004441
Ca	44	3	He	5030.33	0.2692	10561.41	0.0001	0.004441
Ca	44	3	He	5308.367	0.2839	11257.90	0.0001	0.004441
Ti	47	3	He	549.807	0.2253	8838.41	0.0004	0.0004559
Ti	47	3	He	541.328	0.2218	8702.34	0.0004	0.0004559
Ti	47	3	He	540.243	0.2214	8780.38	0.0004	0.0004559
V	51	3	He	523.454	9.2328	362182.97	0.0176	0.02609
V	51	3	He	525.78	9.2737	363785.72	0.0176	0.02609
V	51	3	He	517.601	9.1299	362078.75	0.0176	0.02609
Cr	52	3	He	529.464	11.553	453198.63	0.0217	0.05061
Cr	52	3	He	535.033	11.674	457942.77	0.0217	0.05061
Cr	52	3	He	529.738	11.559	458413.20	0.0217	0.05061
Mn	55	3	He	525.353	4.7991	188256.33	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	527.755	4.821	189113.95	0.0091	0.01071
Mn	55	3	He	528.13	4.8244	191327.67	0.0091	0.01071
Fe	57	3	He	5288.902	2.1205	83182.63	0.0004	0.008452
Fe	57	3	He	5324.873	2.1349	83745.69	0.0004	0.008452
Fe	57	3	He	5245.19	2.1031	83404.00	0.0004	0.008452
Co	59	3	He	521.428	21.535	844769.56	0.0413	0.006013
Co	59	3	He	526.894	21.7607	853618.50	0.0413	0.006013
Co	59	3	He	517.375	21.3677	847412.88	0.0413	0.006013
Ni	60	3	He	518.681	6.1037	239433.41	0.0117	0.01172
Ni	60	3	He	523.054	6.155	241446.95	0.0117	0.01172
Ni	60	3	He	518.05	6.0963	241769.59	0.0117	0.01172
Cu	63	3	He	498.078	9.7579	672293.63	0.0196	0.01443
Cu	63	3	He	509.684	9.9849	674413.63	0.0196	0.01443
Cu	63	3	He	506.417	9.921	673075.63	0.0196	0.01443
Zn	66	3	He	505.378	1.1514	79328.63	0.0023	0.002807
Zn	66	3	He	514.815	1.1728	79217.88	0.0023	0.002807
Zn	66	3	He	513.873	1.1707	79424.78	0.0023	0.002807
As	75	3	He	494.483	0.9115	62799.69	0.0018	0.001271
As	75	3	He	510.986	0.9419	63617.02	0.0018	0.001271
As	75	3	He	508.205	0.9368	63552.50	0.0018	0.001271
Sr	88	3	He	50.452	0.4157	22035.97	0.0082	0.00114
Sr	88	3	He	49.512	0.4079	21204.64	0.0082	0.00114
Sr	88	3	He	54.387	0.448	23347.61	0.0082	0.00114
Mo	98	3	He	51.07	0.9061	48033.72	0.0177	0.001504
Mo	98	3	He	53.842	0.9552	49648.74	0.0177	0.001504
Mo	98	3	He	52.06	0.9236	48134.15	0.0177	0.001504
Ag	107	3	He	52.353	1.9265	102131.78	0.0368	0.001325
Ag	107	3	He	53.185	1.9571	101729.28	0.0368	0.001325
Ag	107	3	He	53.603	1.9724	102795.51	0.0368	0.001325
Cd	111	3	He	52.067	0.2136	11326.14	0.0041	4.798E-05
Cd	111	3	He	53.976	0.2215	11512.25	0.0041	4.798E-05
Cd	111	3	He	53.47	0.2194	11434.19	0.0041	4.798E-05
Sn	120	3	He	103.728	1.3166	69797.40	0.0126	0.01097
Sn	120	3	He	108.265	1.3737	71404.21	0.0126	0.01097
Sn	120	3	He	106.603	1.3528	70500.85	0.0126	0.01097
Sb	121	3	He	104.1	1.2543	66498.06	0.012	0.0003595
Sb	121	3	He	105.942	1.2765	66353.96	0.012	0.0003595
Sb	121	3	He	105.367	1.2696	66166.57	0.012	0.0003595
Ba	137	3	He	513.769	2.0049	106286.95	0.0039	0.0003633
Ba	137	3	He	525.53	2.0508	106598.35	0.0039	0.0003633
Ba	137	3	He	538.423	2.1011	109499.01	0.0039	0.0003633
Tl	205	3	He	101.555	1.9248	369957.22	0.0189	0.001334
Tl	205	3	He	102.843	1.9492	374822.77	0.0189	0.001334
Tl	205	3	He	100.691	1.9084	373207.14	0.0189	0.001334
Pb	208	3	He	52.259	1.3162	137451.79	0.0252	0.001497
Pb	208	3	He	52.564	1.3239	137482.93	0.0252	0.001497
Pb	208	3	He	51.562	1.2987	135535.18	0.0252	0.001497
U	238	3	He	52.582	1.2909	248130.70	0.0245	0.0001141
U	238	3	He	52.754	1.2951	249056.25	0.0245	0.0001141
U	238	3	He	51.794	1.2716	248670.23	0.0245	0.0001141
Sc	45	1	No Gas			1648632.94		
Sc	45	1	No Gas			1643207.32		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1664587.48		
Ge	72	1	No Gas			832799.13		
Ge	72	1	No Gas			828312.49		
Ge	72	1	No Gas			829326.00		
Sc	45	2	H2			127775.54		
Sc	45	2	H2			130495.17		
Sc	45	2	H2			131725.48		
Ge	72	2	H2			96810.04		
Ge	72	2	H2			97516.32		
Ge	72	2	H2			97142.02		
In	115	2	H2			244609.76		
In	115	2	H2			244727.93		
In	115	2	H2			243918.57		
Sc	45	3	He			39227.69		
Sc	45	3	He			39227.49		
Sc	45	3	He			39658.55		
Ge	72	3	He			68897.59		
Ge	72	3	He			67543.25		
Ge	72	3	He			67843.52		
In	115	3	He			53502.65		
In	115	3	He			52479.59		
In	115	3	He			52609.36		
Tb	159	3	He			192209.63		
Tb	159	3	He			192300.41		
Tb	159	3	He			195561.31		
Bi	209	3	He			143570.36		
Bi	209	3	He			142166.96		
Bi	209	3	He			142581.36		

Quantitation Report

Data File Name	251SMPL.d
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Sample Name	410-228777-J-7-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

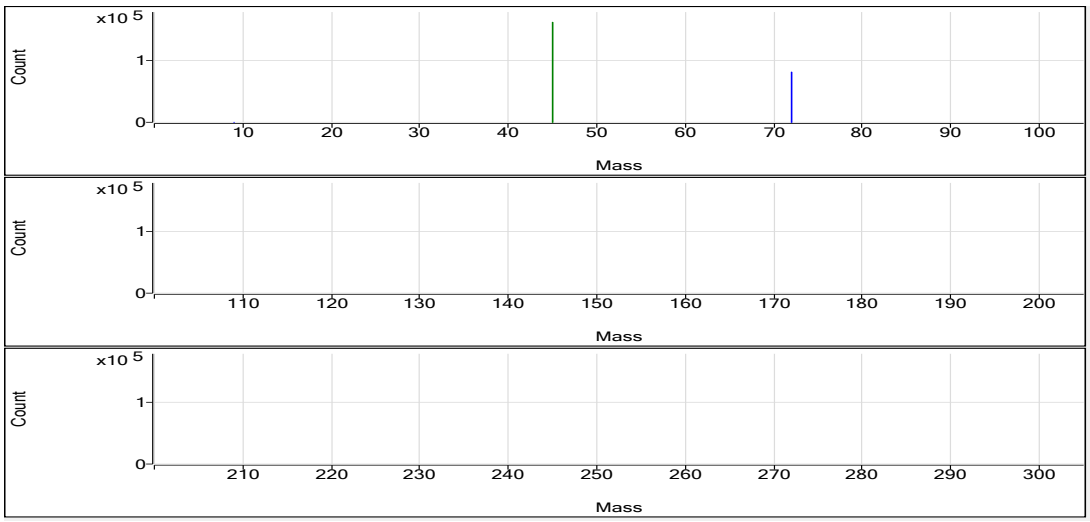
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.101	ppb	23.5	97.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.334	ppb	6.7	18.44	0.0002	Pulse	1.5000	3
Na	23	45	He	256911.663	ppb	3.3	24849162.96	641.1600	Analog	0.1000	3
Mg	24	45	He	77635.751	ppb	2.7	3644792.55	94.0334	Analog	0.1000	3
Al	27	45	He	3.268	ppb	128.0	253.34	0.0066	Pulse	0.1000	3
K	39	45	He	4066.870	ppb	3.8	177086.85	4.5689	Pulse	0.5000	3
Ca	44	45	He	126950.730	ppb	2.7	259195.46	6.6871	Pulse	0.5000	3
Ti	47	45	He	0.022	ppb	1586.7	18.00	0.0005	Pulse	0.5000	3
V	51	45	He	1.207	ppb	5.8	1834.12	0.0473	Pulse	0.5000	3
Cr	52	45	He	-0.054	ppb	N/A	1913.52	0.0494	Pulse	0.1000	3
Mn	55	45	He	20.947	ppb	6.0	7811.90	0.2016	Pulse	0.5000	3
Fe	57	45	He	4.501	ppb	82.6	396.69	0.0102	Pulse	0.1000	3
Co	59	45	He	0.397	ppb	16.2	868.70	0.0224	Pulse	0.5000	3
Ni	60	45	He	1.147	ppb	14.5	976.03	0.0252	Pulse	0.5000	3
Cu	63	72	He	1.528	ppb	1.8	2937.62	0.0443	Pulse	0.5000	3
Zn	66	72	He	2.260	ppb	17.2	526.01	0.0079	Pulse	0.5000	3
As	75	72	He	2.272	ppb	7.8	361.34	0.0055	Pulse	0.5000	3
Sr	88	115	He	1092.615	ppb	1.4	476343.77	8.9783	Pulse	0.1000	3
Mo	98	115	He	1.114	ppb	11.1	1126.75	0.0212	Pulse	0.1000	3
Ag	107	115	He	0.020	ppb	63.8	110.00	0.0021	Pulse	0.1000	3
Cd	111	115	He	0.034	ppb	28.3	10.00	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.431	ppb	18.4	870.06	0.0164	Pulse	0.1000	3
Sb	121	115	He	0.330	ppb	4.2	230.00	0.0043	Pulse	0.3000	3
Ba	137	115	He	75.849	ppb	2.5	15718.46	0.2963	Pulse	0.1000	3
Tl	205	159	He	0.242	ppb	1.7	1133.41	0.0059	Pulse	0.1000	3
Pb	208	159	He	0.030	ppb	25.3	430.01	0.0022	Pulse	0.1000	3
U	238	159	He	4.088	ppb	1.5	19246.86	0.1005	Pulse	0.1000	3

ISTD Table:

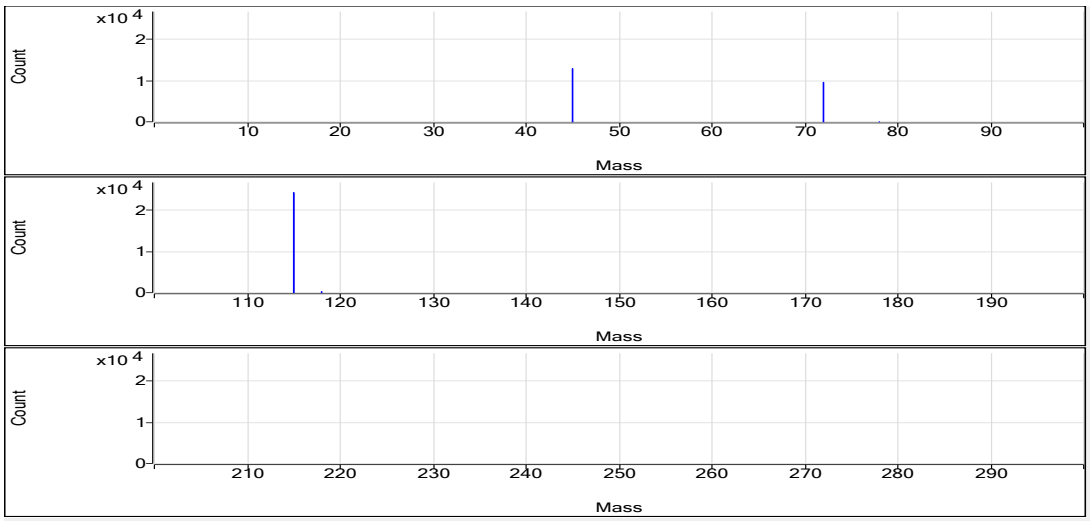
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1620875.08	0.9	94.9	Analog	0.1000	3
No Gas	Ge	72	814774.65	0.8	94.3	Pulse	0.1000	3
H2	Sc	45	128902.84	1.8	96.5	Pulse	0.1000	3
H2	Ge	72	95888.11	0.8	96.8	Pulse	0.1000	3
H2	In	115	242526.49	1.6	94.5	Pulse	0.1000	3
He	Sc	45	38780.07	2.8	98.2	Pulse	0.1000	3
He	Ge	72	66260.42	1.4	97.3	Pulse	0.1000	3
He	In	115	53061.64	1.3	95.8	Pulse	0.1000	3
He	Tb	159	191555.36	0.0	93.5	Pulse	0.1000	3
He	Bi	209	137338.72	1.0	90.8	Pulse	0.1000	3

No Gas

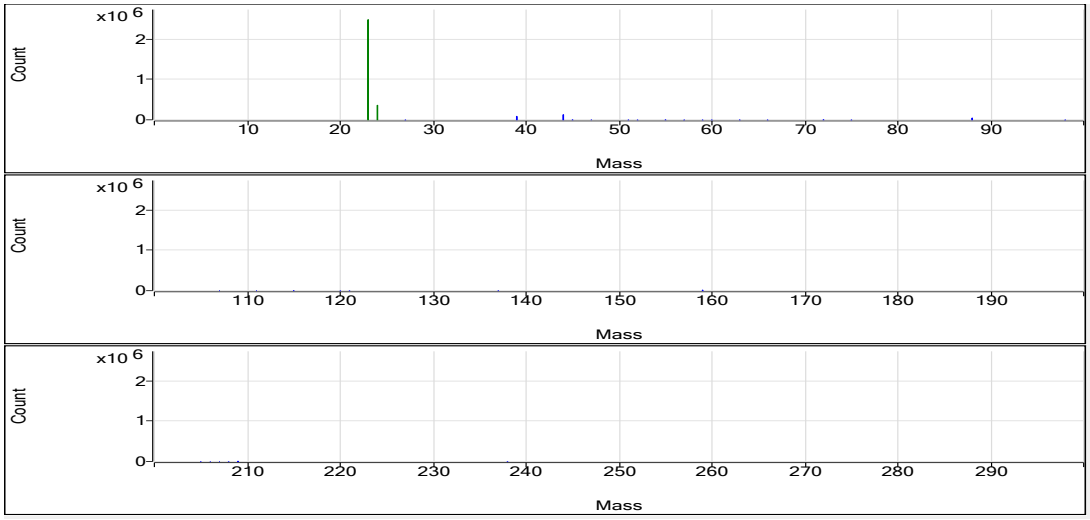


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.122	0.0001	108.00	0.0003	2.616E-05
Be	9	1	No Gas	0.075	0.0001	84.00	0.0003	2.616E-05
Be	9	1	No Gas	0.105	0.0001	100.00	0.0003	2.616E-05
Se	78	2	H2	0.359	0.0002	19.33	0.0004	6.3E-05
Se	78	2	H2	0.325	0.0002	18.00	0.0004	6.3E-05
Se	78	2	H2	0.317	0.0002	18.00	0.0004	6.3E-05
Na	23	3	He	260428.144	649.9257	24954324.63	0.0025	0.7502
Na	23	3	He	247237.83	617.0458	24675379.63	0.0025	0.7502
Na	23	3	He	263069.014	656.5086	24917784.63	0.0025	0.7502
Mg	24	3	He	78438.059	95.0049	3647774.32	0.0012	0.02618
Mg	24	3	He	75236.403	91.1281	3644169.01	0.0012	0.02618
Mg	24	3	He	79232.79	95.9672	3642434.32	0.0012	0.02618
Al	27	3	He	5.206	0.0073	280.01	0.0004	0.005329
Al	27	3	He	-1.532	0.0048	190.01	0.0004	0.005329
Al	27	3	He	6.13	0.0076	290.01	0.0004	0.005329
K	39	3	He	4197.562	4.6986	180407.39	0.001	0.5307
K	39	3	He	3898.639	4.4018	176026.94	0.001	0.5307
K	39	3	He	4104.41	4.6061	174826.22	0.001	0.5307
Ca	44	3	He	128336.431	6.76	259554.92	0.0001	0.004441
Ca	44	3	He	123027.779	6.4806	259154.69	0.0001	0.004441
Ca	44	3	He	129487.979	6.8206	258876.77	0.0001	0.004441
Ti	47	3	He	0.414	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	-0.136	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	-0.213	0.0004	14.00	0.0004	0.0004559
V	51	3	He	1.235	0.0478	1836.11	0.0176	0.02609
V	51	3	He	1.127	0.0459	1836.12	0.0176	0.02609
V	51	3	He	1.258	0.0482	1830.12	0.0176	0.02609
Cr	52	3	He	0.092	0.0526	2020.20	0.0217	0.05061
Cr	52	3	He	-0.327	0.0435	1740.16	0.0217	0.05061
Cr	52	3	He	0.072	0.0522	1980.19	0.0217	0.05061
Mn	55	3	He	21.931	0.2106	8086.03	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	19.538	0.1888	7549.78	0.0091	0.01071
Mn	55	3	He	21.372	0.2055	7799.90	0.0091	0.01071
Fe	57	3	He	8.184	0.0117	450.02	0.0004	0.008452
Fe	57	3	He	0.752	0.0088	350.02	0.0004	0.008452
Fe	57	3	He	4.566	0.0103	390.02	0.0004	0.008452
Co	59	3	He	0.466	0.0253	970.04	0.0413	0.006013
Co	59	3	He	0.385	0.0219	876.03	0.0413	0.006013
Co	59	3	He	0.339	0.02	760.02	0.0413	0.006013
Ni	60	3	He	1.322	0.0272	1046.04	0.0117	0.01172
Ni	60	3	He	0.991	0.0234	934.03	0.0117	0.01172
Ni	60	3	He	1.129	0.025	948.03	0.0117	0.01172
Cu	63	3	He	1.548	0.0447	3006.30	0.0196	0.01443
Cu	63	3	He	1.496	0.0437	2894.28	0.0196	0.01443
Cu	63	3	He	1.541	0.0446	2912.27	0.0196	0.01443
Zn	66	3	He	1.841	0.007	470.01	0.0023	0.002807
Zn	66	3	He	2.605	0.0087	578.01	0.0023	0.002807
Zn	66	3	He	2.334	0.0081	530.01	0.0023	0.002807
As	75	3	He	2.154	0.0052	352.01	0.0018	0.001271
As	75	3	He	2.476	0.0058	386.01	0.0018	0.001271
As	75	3	He	2.187	0.0053	346.01	0.0018	0.001271
Sr	88	3	He	1078.26	8.8603	474879.49	0.0082	0.00114
Sr	88	3	He	1090.136	8.9579	477603.31	0.0082	0.00114
Sr	88	3	He	1109.448	9.1166	476548.51	0.0082	0.00114
Mo	98	3	He	1.232	0.0233	1250.10	0.0177	0.001504
Mo	98	3	He	0.985	0.0189	1010.07	0.0177	0.001504
Mo	98	3	He	1.125	0.0214	1120.08	0.0177	0.001504
Ag	107	3	He	0.03	0.0024	130.00	0.0368	0.001325
Ag	107	3	He	0.025	0.0023	120.00	0.0368	0.001325
Ag	107	3	He	0.006	0.0015	80.00	0.0368	0.001325
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.025	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Sn	120	3	He	0.522	0.0175	940.08	0.0126	0.01097
Sn	120	3	He	0.381	0.0158	840.05	0.0126	0.01097
Sn	120	3	He	0.39	0.0159	830.05	0.0126	0.01097
Sb	121	3	He	0.321	0.0042	226.67	0.012	0.0003595
Sb	121	3	He	0.323	0.0043	226.67	0.012	0.0003595
Sb	121	3	He	0.346	0.0045	236.67	0.012	0.0003595
Ba	137	3	He	74.31	0.2903	15558.35	0.0039	0.0003633
Ba	137	3	He	75.229	0.2939	15668.36	0.0039	0.0003633
Ba	137	3	He	78.009	0.3047	15928.67	0.0039	0.0003633
Tl	205	3	He	0.246	0.006	1150.08	0.0189	0.001334
Tl	205	3	He	0.238	0.0058	1120.08	0.0189	0.001334
Tl	205	3	He	0.241	0.0059	1130.08	0.0189	0.001334
Pb	208	3	He	0.023	0.0021	230.01	0.0252	0.001497
Pb	208	3	He	0.038	0.0025	190.01	0.0252	0.001497
Pb	208	3	He	0.028	0.0022	220.01	0.0252	0.001497
U	238	3	He	4.126	0.1014	19433.83	0.0245	0.0001141
U	238	3	He	4.017	0.0987	18903.10	0.0245	0.0001141
U	238	3	He	4.122	0.1013	19403.64	0.0245	0.0001141
Sc	45	1	No Gas			1603969.19		
Sc	45	1	No Gas			1629486.07		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629169.98		
Ge	72	1	No Gas			808225.93		
Ge	72	1	No Gas			815730.38		
Ge	72	1	No Gas			820367.64		
Sc	45	2	H2			130646.38		
Sc	45	2	H2			126303.01		
Sc	45	2	H2			129759.13		
Ge	72	2	H2			95572.89		
Ge	72	2	H2			95281.72		
Ge	72	2	H2			96809.73		
In	115	2	H2			244693.18		
In	115	2	H2			237968.86		
In	115	2	H2			244917.44		
Sc	45	3	He			38395.66		
Sc	45	3	He			39989.54		
Sc	45	3	He			37955.00		
Ge	72	3	He			67231.08		
Ge	72	3	He			66217.25		
Ge	72	3	He			65332.94		
In	115	3	He			53602.60		
In	115	3	He			53322.17		
In	115	3	He			52278.43		
Tb	159	3	He			191644.10		
Tb	159	3	He			191490.33		
Tb	159	3	He			191531.66		
Bi	209	3	He			138462.32		
Bi	209	3	He			137827.56		
Bi	209	3	He			135726.28		

Quantitation Report

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Sample Name	410-228777-B-7-A DU
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

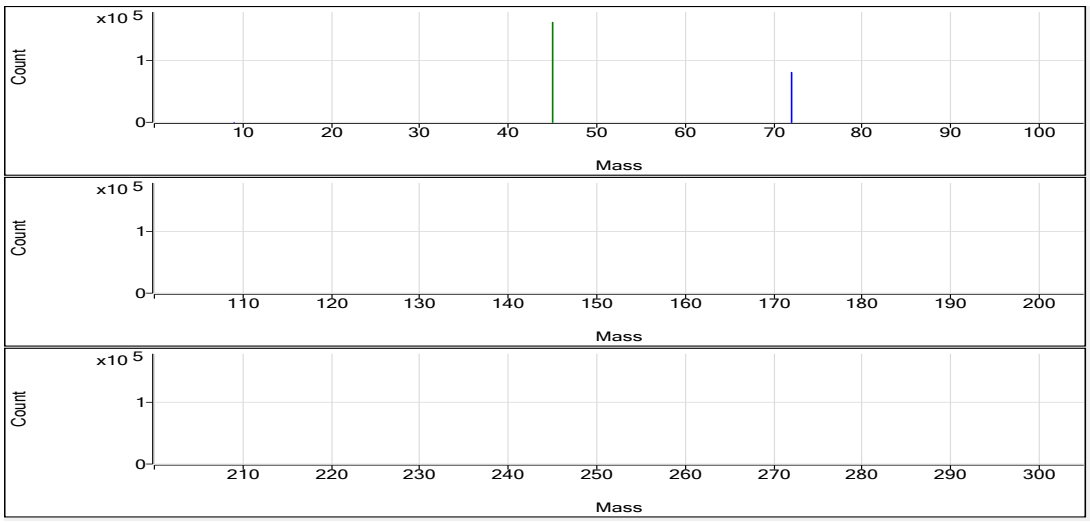
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.015	ppb	N/A	34.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.184	ppb	47.7	12.89	0.0001	Pulse	1.5000	3
Na	23	45	He	266709.957	ppb	3.9	25556876.29	665.5845	Analog	0.1000	3
Mg	24	45	He	79995.669	ppb	2.7	3721479.94	96.8909	Analog	0.1000	3
Al	27	45	He	-0.287	ppb	N/A	200.01	0.0052	Pulse	0.1000	3
K	39	45	He	4209.925	ppb	5.3	180852.98	4.7109	Pulse	0.5000	3
Ca	44	45	He	130768.498	ppb	3.0	264538.26	6.8880	Pulse	0.5000	3
Ti	47	45	He	-0.396	ppb	N/A	11.33	0.0003	Pulse	0.5000	3
V	51	45	He	0.846	ppb	18.3	1572.75	0.0410	Pulse	0.5000	3
Cr	52	45	He	-0.380	ppb	N/A	1626.80	0.0423	Pulse	0.1000	3
Mn	55	45	He	21.611	ppb	4.9	7973.32	0.2077	Pulse	0.5000	3
Fe	57	45	He	2.073	ppb	22.3	356.68	0.0093	Pulse	0.1000	3
Co	59	45	He	0.131	ppb	19.0	437.34	0.0114	Pulse	0.5000	3
Ni	60	45	He	0.824	ppb	16.8	821.36	0.0214	Pulse	0.5000	3
Cu	63	72	He	1.347	ppb	5.2	2647.56	0.0408	Pulse	0.5000	3
Zn	66	72	He	2.067	ppb	11.4	487.34	0.0075	Pulse	0.5000	3
As	75	72	He	2.003	ppb	8.5	322.00	0.0050	Pulse	0.5000	3
Sr	88	115	He	1144.597	ppb	0.4	490414.54	9.4054	Pulse	0.1000	3
Mo	98	115	He	1.142	ppb	14.5	1133.42	0.0217	Pulse	0.1000	3
Ag	107	115	He	0.002	ppb	544.9	73.33	0.0014	Pulse	0.1000	3
Cd	111	115	He	0.020	ppb	100.3	6.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.281	ppb	78.3	756.71	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.186	ppb	18.6	135.56	0.0026	Pulse	0.3000	3
Ba	137	115	He	79.691	ppb	3.6	16229.06	0.3113	Pulse	0.1000	3
Tl	205	159	He	0.046	ppb	78.8	420.02	0.0022	Pulse	0.1000	3
Pb	208	159	He	0.009	ppb	82.9	330.01	0.0017	Pulse	0.1000	3
U	238	159	He	4.222	ppb	2.7	19754.24	0.1038	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1616514.09	1.2	94.6	Analog	0.1000	3
No Gas	Ge	72	807533.76	0.1	93.5	Pulse	0.1000	3
H2	Sc	45	130343.98	0.7	97.6	Pulse	0.1000	3
H2	Ge	72	95680.21	1.5	96.6	Pulse	0.1000	3
H2	In	115	239496.00	1.1	93.3	Pulse	0.1000	3
He	Sc	45	38432.37	3.5	97.4	Pulse	0.1000	3
He	Ge	72	64931.53	0.9	95.3	Pulse	0.1000	3
He	In	115	52142.62	0.6	94.1	Pulse	0.1000	3
He	Tb	159	190437.96	1.7	93.0	Pulse	0.1000	3
He	Bi	209	137136.70	0.2	90.7	Pulse	0.1000	3

No Gas



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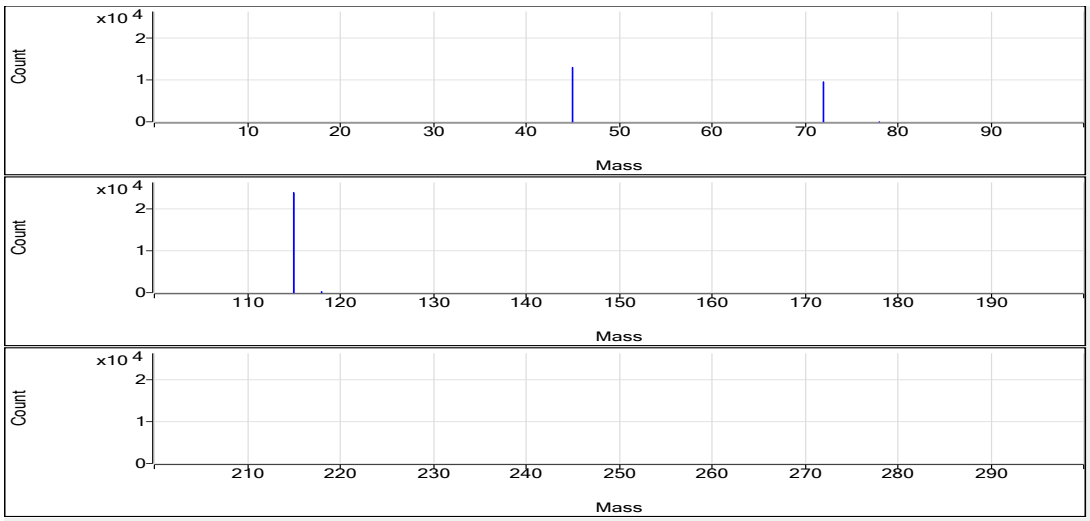
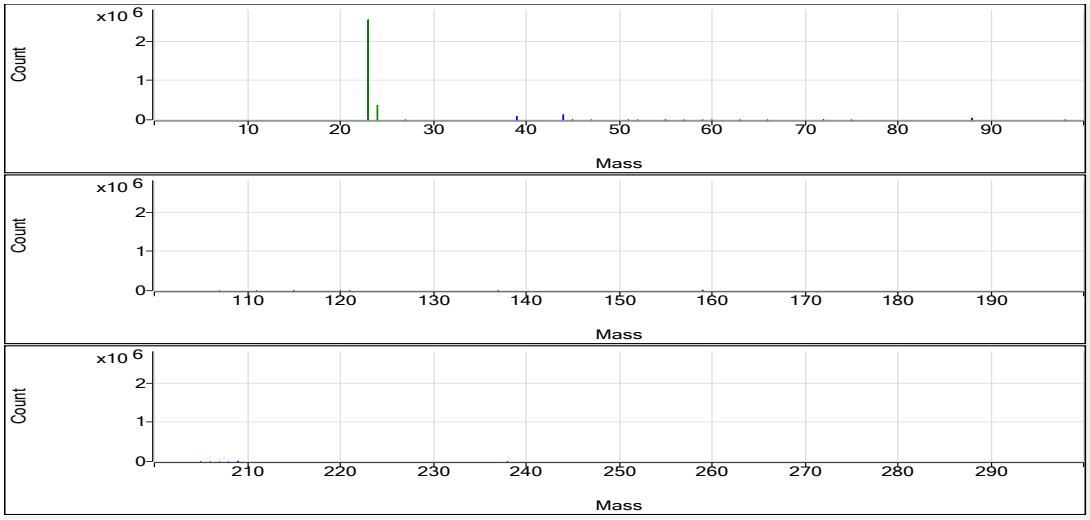


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.003	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.012	0	36.00	0.0003	2.616E-05
Se	78	2	H2	0.28	0.0002	16.67	0.0004	6.3E-05
Se	78	2	H2	0.166	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.107	0.0001	10.00	0.0004	6.3E-05
Na	23	3	He	278723.464	695.5308	25666409.62	0.0025	0.7502
Na	23	3	He	261301.163	652.1019	25430192.12	0.0025	0.7502
Na	23	3	He	260105.243	649.1208	25574027.12	0.0025	0.7502
Mg	24	3	He	82488.353	99.9093	3686841.51	0.0012	0.02618
Mg	24	3	He	78494.352	95.073	3707588.38	0.0012	0.02618
Mg	24	3	He	79004.302	95.6905	3770009.94	0.0012	0.02618
Al	27	3	He	2.396	0.0062	230.01	0.0004	0.005329
Al	27	3	He	-3.932	0.0038	150.01	0.0004	0.005329
Al	27	3	He	0.676	0.0056	220.01	0.0004	0.005329
K	39	3	He	4463.345	4.9626	183127.53	0.001	0.5307
K	39	3	He	4129.567	4.6311	180601.23	0.001	0.5307
K	39	3	He	4036.862	4.5391	178830.19	0.001	0.5307
Ca	44	3	He	135155.893	7.119	262703.88	0.0001	0.004441
Ca	44	3	He	129759.598	6.8349	266543.28	0.0001	0.004441
Ca	44	3	He	127390.003	6.7102	264367.63	0.0001	0.004441
Ti	47	3	He	-0.452	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.613	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.122	0.0004	16.00	0.0004	0.0004559
V	51	3	He	1.006	0.0438	1616.09	0.0176	0.02609
V	51	3	He	0.698	0.0384	1496.08	0.0176	0.02609
V	51	3	He	0.834	0.0408	1606.09	0.0176	0.02609
Cr	52	3	He	-0.321	0.0436	1610.14	0.0217	0.05061
Cr	52	3	He	-0.512	0.0395	1540.13	0.0217	0.05061
Cr	52	3	He	-0.308	0.0439	1730.14	0.0217	0.05061
Mn	55	3	He	22.836	0.2189	8076.05	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	20.972	0.2019	7871.94	0.0091	0.01071
Mn	55	3	He	21.025	0.2023	7971.97	0.0091	0.01071
Fe	57	3	He	1.907	0.0092	340.01	0.0004	0.008452
Fe	57	3	He	2.594	0.0095	370.02	0.0004	0.008452
Fe	57	3	He	1.717	0.0091	360.02	0.0004	0.008452
Co	59	3	He	0.159	0.0126	464.01	0.0413	0.006013
Co	59	3	He	0.113	0.0107	416.01	0.0413	0.006013
Co	59	3	He	0.12	0.011	432.01	0.0413	0.006013
Ni	60	3	He	0.941	0.0228	840.03	0.0117	0.01172
Ni	60	3	He	0.671	0.0196	764.02	0.0117	0.01172
Ni	60	3	He	0.861	0.0218	860.03	0.0117	0.01172
Cu	63	3	He	1.397	0.0418	2684.24	0.0196	0.01443
Cu	63	3	He	1.377	0.0414	2694.23	0.0196	0.01443
Cu	63	3	He	1.266	0.0392	2564.21	0.0196	0.01443
Zn	66	3	He	2.037	0.0074	478.01	0.0023	0.002807
Zn	66	3	He	1.846	0.007	456.01	0.0023	0.002807
Zn	66	3	He	2.316	0.0081	528.01	0.0023	0.002807
As	75	3	He	1.896	0.0048	306.00	0.0018	0.001271
As	75	3	He	1.913	0.0048	312.00	0.0018	0.001271
As	75	3	He	2.2	0.0053	348.01	0.0018	0.001271
Sr	88	3	He	1149.732	9.4476	489120.27	0.0082	0.00114
Sr	88	3	He	1143.345	9.3951	492236.20	0.0082	0.00114
Sr	88	3	He	1140.715	9.3735	489887.14	0.0082	0.00114
Mo	98	3	He	1.147	0.0218	1130.08	0.0177	0.001504
Mo	98	3	He	1.305	0.0246	1290.10	0.0177	0.001504
Mo	98	3	He	0.974	0.0188	980.07	0.0177	0.001504
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	0.016	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0011	60.00	0.0368	0.001325
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.096	0.0122	630.03	0.0126	0.01097
Sn	120	3	He	0.524	0.0176	920.06	0.0126	0.01097
Sn	120	3	He	0.223	0.0138	720.04	0.0126	0.01097
Sb	121	3	He	0.157	0.0023	116.67	0.012	0.0003595
Sb	121	3	He	0.176	0.0025	130.00	0.012	0.0003595
Sb	121	3	He	0.224	0.0031	160.00	0.012	0.0003595
Ba	137	3	He	82.928	0.3239	16769.67	0.0039	0.0003633
Ba	137	3	He	78.809	0.3078	16128.88	0.0039	0.0003633
Ba	137	3	He	77.337	0.3021	15788.63	0.0039	0.0003633
Tl	205	3	He	0.059	0.0024	460.02	0.0189	0.001334
Tl	205	3	He	0.074	0.0027	530.03	0.0189	0.001334
Tl	205	3	He	0.005	0.0014	270.01	0.0189	0.001334
Pb	208	3	He	0.006	0.0016	160.01	0.0252	0.001497
Pb	208	3	He	0.004	0.0016	140.01	0.0252	0.001497
Pb	208	3	He	0.018	0.002	180.01	0.0252	0.001497
U	238	3	He	4.326	0.1063	20014.76	0.0245	0.0001141
U	238	3	He	4.1	0.1008	19563.92	0.0245	0.0001141
U	238	3	He	4.24	0.1042	19684.04	0.0245	0.0001141
Sc	45	1	No Gas			1627237.94		
Sc	45	1	No Gas			1594641.23		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1627663.10		
Ge	72	1	No Gas			807906.00		
Ge	72	1	No Gas			807927.18		
Ge	72	1	No Gas			806768.11		
Sc	45	2	H2			131260.92		
Sc	45	2	H2			130383.79		
Sc	45	2	H2			129387.23		
Ge	72	2	H2			97132.76		
Ge	72	2	H2			94325.32		
Ge	72	2	H2			95582.55		
In	115	2	H2			242471.21		
In	115	2	H2			237038.24		
In	115	2	H2			238978.55		
Sc	45	3	He			36901.90		
Sc	45	3	He			38997.27		
Sc	45	3	He			39397.95		
Ge	72	3	He			64268.33		
Ge	72	3	He			65112.81		
Ge	72	3	He			65413.44		
In	115	3	He			51776.42		
In	115	3	He			52399.29		
In	115	3	He			52268.05		
Tb	159	3	He			188271.68		
Tb	159	3	He			194154.08		
Tb	159	3	He			188888.12		
Bi	209	3	He			136948.42		
Bi	209	3	He			136949.40		
Bi	209	3	He			137512.28		

Quantitation Report

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Sample Name	410-228777-H-7-D MS
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

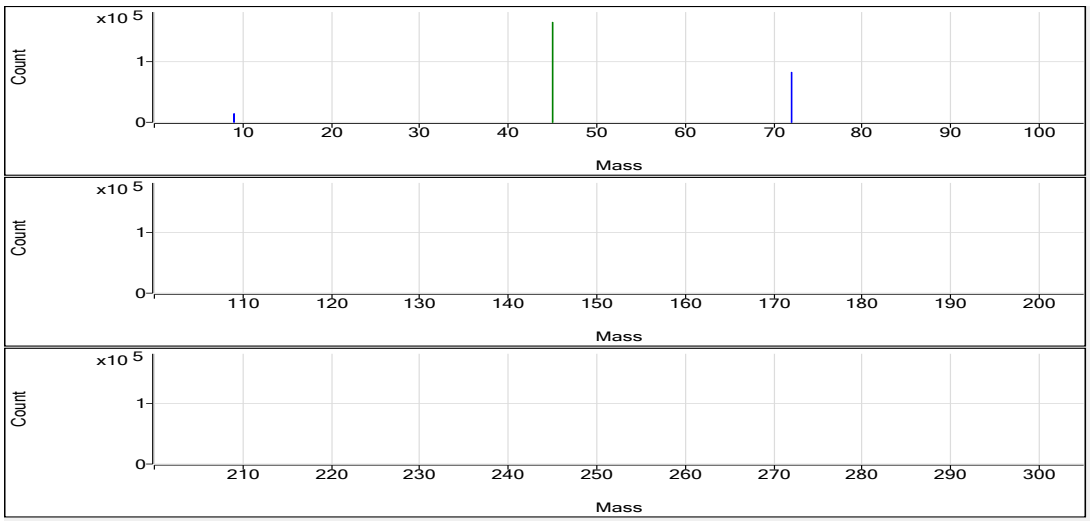
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	51.624	ppb	5.1	28672.95	0.0174	Pulse	0.5000	3
Se	78	72	H2	102.571	ppb	3.0	3827.57	0.0398	Pulse	1.5000	3
Na	23	45	He	264876.490	ppb	0.2	25739872.95	661.0142	Analog	0.1000	3
Mg	24	45	He	82694.926	ppb	0.6	3900166.40	100.1594	Analog	0.1000	3
Al	27	45	He	5341.731	ppb	2.0	78642.76	2.0197	Pulse	0.1000	3
K	39	45	He	9310.666	ppb	0.7	380656.83	9.7757	Pulse	0.5000	3
Ca	44	45	He	132519.704	ppb	0.7	271802.36	6.9802	Pulse	0.5000	3
Ti	47	45	He	546.292	ppb	4.7	8716.36	0.2239	Pulse	0.5000	3
V	51	45	He	532.177	ppb	1.1	365478.65	9.3863	Pulse	0.5000	3
Cr	52	45	He	525.990	ppb	1.1	446906.62	11.4776	Pulse	0.1000	3
Mn	55	45	He	547.106	ppb	0.8	194588.50	4.9973	Pulse	0.5000	3
Fe	57	45	He	5322.605	ppb	1.4	83099.22	2.1340	Pulse	0.1000	3
Co	59	45	He	510.832	ppb	1.2	821482.75	21.0976	Pulse	0.5000	3
Ni	60	45	He	509.699	ppb	0.8	233558.71	5.9982	Pulse	0.5000	3
Cu	63	72	He	504.635	ppb	1.9	657176.71	9.8861	Pulse	0.5000	3
Zn	66	72	He	513.436	ppb	1.9	77755.60	1.1697	Pulse	0.5000	3
As	75	72	He	519.331	ppb	1.9	63631.58	0.9572	Pulse	0.5000	3
Sr	88	115	He	1197.149	ppb	0.5	506951.40	9.8372	Pulse	0.1000	3
Mo	98	115	He	54.823	ppb	2.1	50117.05	0.9725	Pulse	0.1000	3
Ag	107	115	He	51.923	ppb	0.4	98464.65	1.9107	Pulse	0.1000	3
Cd	111	115	He	53.210	ppb	1.3	11251.42	0.2183	Pulse	0.5000	3
Sn	120	115	He	107.720	ppb	0.8	70440.46	1.3668	Pulse	0.1000	3
Sb	121	115	He	108.207	ppb	0.4	67191.09	1.3038	Pulse	0.3000	3
Ba	137	115	He	608.992	ppb	0.5	122466.11	2.3764	Pulse	0.1000	3
Tl	205	159	He	100.521	ppb	0.6	363321.53	1.9052	Pulse	0.1000	3
Pb	208	159	He	51.500	ppb	1.3	247352.15	1.2971	Pulse	0.1000	3
U	238	159	He	58.165	ppb	0.7	272325.09	1.4280	Pulse	0.1000	3

ISTD Table:

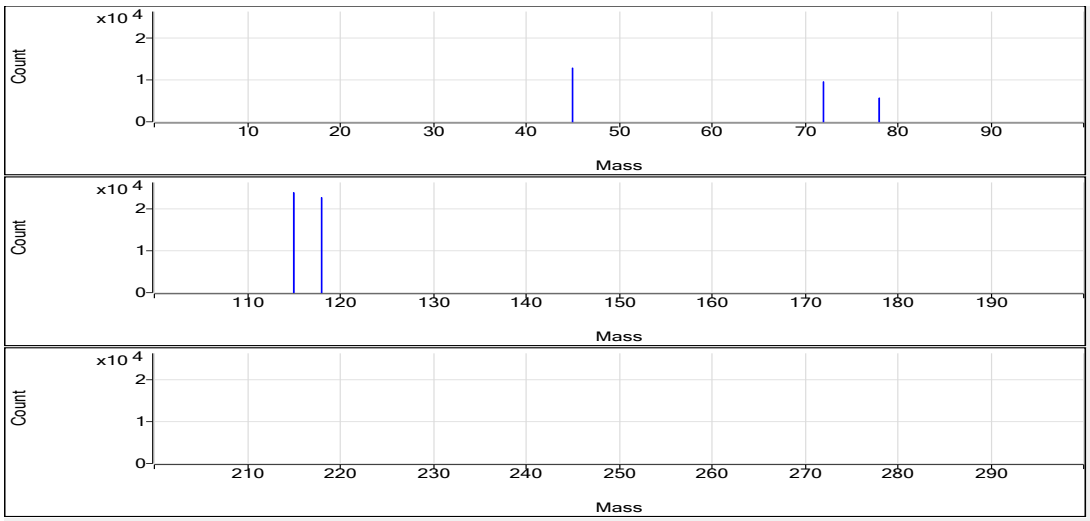
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1646956.59	1.9	96.4	Analog	0.1000	3
No Gas	Ge	72	824970.09	1.3	95.5	Pulse	0.1000	3
H2	Sc	45	129172.17	0.8	96.7	Pulse	0.1000	3
H2	Ge	72	96113.25	2.2	97.0	Pulse	0.1000	3
H2	In	115	239961.64	0.4	93.5	Pulse	0.1000	3
He	Sc	45	38940.58	1.1	98.7	Pulse	0.1000	3
He	Ge	72	66494.58	2.4	97.6	Pulse	0.1000	3
He	In	115	51534.68	0.3	93.0	Pulse	0.1000	3
He	Tb	159	190704.16	0.5	93.1	Pulse	0.1000	3
He	Bi	209	137429.32	1.3	90.9	Pulse	0.1000	3

No Gas

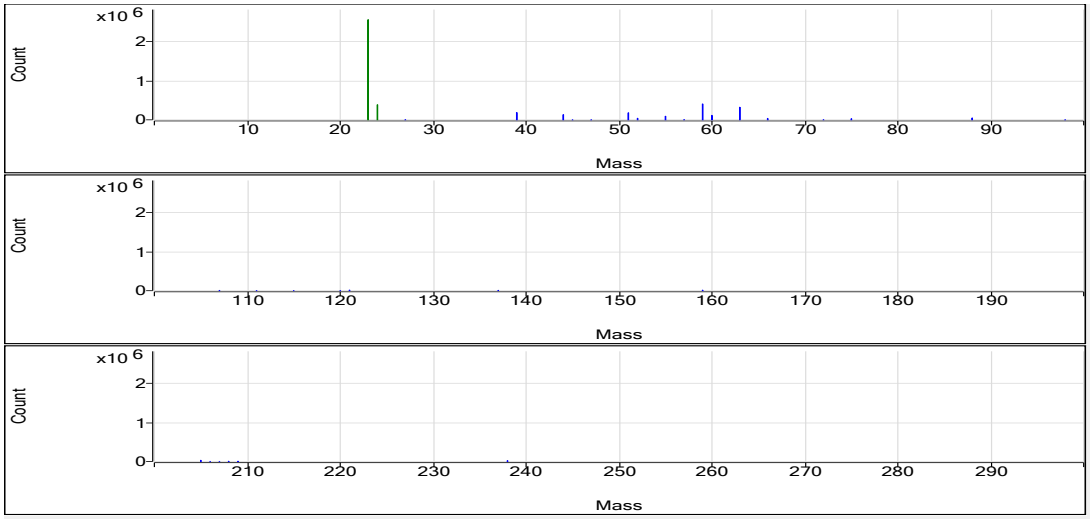


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	48.762	0.0164	26741.07	0.0003	2.616E-05
Be	9	1	No Gas	52.192	0.0176	28708.31	0.0003	2.616E-05
Be	9	1	No Gas	53.919	0.0182	30569.48	0.0003	2.616E-05
Se	78	2	H2	105.955	0.0412	3857.80	0.0004	6.3E-05
Se	78	2	H2	101.642	0.0395	3817.79	0.0004	6.3E-05
Se	78	2	H2	100.117	0.0389	3807.12	0.0004	6.3E-05
Na	23	3	He	264683.387	660.5328	25712659.62	0.0025	0.7502
Na	23	3	He	265535.332	662.6565	25523062.12	0.0025	0.7502
Na	23	3	He	264410.75	659.8532	25983897.11	0.0025	0.7502
Mg	24	3	He	82219.012	99.5831	3876487.13	0.0012	0.02618
Mg	24	3	He	83226.118	100.8026	3882541.19	0.0012	0.02618
Mg	24	3	He	82639.648	100.0925	3941470.88	0.0012	0.02618
Al	27	3	He	5234.61	1.9793	77048.79	0.0004	0.005329
Al	27	3	He	5449.689	2.0604	79359.47	0.0004	0.005329
Al	27	3	He	5340.894	2.0194	79520.03	0.0004	0.005329
K	39	3	He	9364.404	9.8291	382617.59	0.001	0.5307
K	39	3	He	9334.764	9.7996	377445.56	0.001	0.5307
K	39	3	He	9232.83	9.6984	381907.34	0.001	0.5307
Ca	44	3	He	131859.834	6.9455	270367.63	0.0001	0.004441
Ca	44	3	He	133600.315	7.0371	271042.72	0.0001	0.004441
Ca	44	3	He	132098.962	6.9581	273996.75	0.0001	0.004441
Ti	47	3	He	520.249	0.2132	8300.14	0.0004	0.0004559
Ti	47	3	He	571.797	0.2343	9024.52	0.0004	0.0004559
Ti	47	3	He	546.83	0.2241	8824.41	0.0004	0.0004559
V	51	3	He	530.389	9.3548	364156.16	0.0176	0.02609
V	51	3	He	538.651	9.5001	365910.13	0.0176	0.02609
V	51	3	He	527.491	9.3038	366369.66	0.0176	0.02609
Cr	52	3	He	524.478	11.4447	445509.95	0.0217	0.05061
Cr	52	3	He	532.581	11.6208	447588.08	0.0217	0.05061
Cr	52	3	He	520.911	11.3672	447621.83	0.0217	0.05061
Mn	55	3	He	545.643	4.984	194012.81	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	551.819	5.0403	194133.28	0.0091	0.01071
Mn	55	3	He	543.854	4.9677	195619.41	0.0091	0.01071
Fe	57	3	He	5237.437	2.1	81745.30	0.0004	0.008452
Fe	57	3	He	5355.626	2.1472	82700.36	0.0004	0.008452
Fe	57	3	He	5374.751	2.1548	84851.99	0.0004	0.008452
Co	59	3	He	509.51	21.043	819142.19	0.0413	0.006013
Co	59	3	He	517.324	21.3656	822923.63	0.0413	0.006013
Co	59	3	He	505.664	20.8842	822382.44	0.0413	0.006013
Ni	60	3	He	510.009	6.0018	233634.17	0.0117	0.01172
Ni	60	3	He	513.77	6.046	232869.81	0.0117	0.01172
Ni	60	3	He	505.317	5.9467	234172.14	0.0117	0.01172
Cu	63	3	He	512.177	10.0337	653913.69	0.0196	0.01443
Cu	63	3	He	507.751	9.9471	656870.63	0.0196	0.01443
Cu	63	3	He	493.977	9.6777	660745.81	0.0196	0.01443
Zn	66	3	He	522.344	1.19	77551.89	0.0023	0.002807
Zn	66	3	He	515.157	1.1736	77501.87	0.0023	0.002807
Zn	66	3	He	502.805	1.1456	78213.04	0.0023	0.002807
As	75	3	He	526.055	0.9696	63191.22	0.0018	0.001271
As	75	3	He	523.916	0.9657	63769.48	0.0018	0.001271
As	75	3	He	508.022	0.9364	63934.05	0.0018	0.001271
Sr	88	3	He	1203.647	9.8906	508069.91	0.0082	0.00114
Sr	88	3	He	1191.319	9.7893	505061.87	0.0082	0.00114
Sr	88	3	He	1196.482	9.8317	507722.41	0.0082	0.00114
Mo	98	3	He	55.872	0.9911	50912.88	0.0177	0.001504
Mo	98	3	He	54.97	0.9751	50310.64	0.0177	0.001504
Mo	98	3	He	53.626	0.9513	49127.63	0.0177	0.001504
Ag	107	3	He	52.14	1.9186	98559.14	0.0368	0.001325
Ag	107	3	He	51.907	1.9101	98548.48	0.0368	0.001325
Ag	107	3	He	51.721	1.9032	98286.33	0.0368	0.001325
Cd	111	3	He	53.972	0.2215	11376.16	0.0041	4.798E-05
Cd	111	3	He	52.934	0.2172	11206.06	0.0041	4.798E-05
Cd	111	3	He	52.724	0.2163	11172.03	0.0041	4.798E-05
Sn	120	3	He	106.798	1.3552	69616.74	0.0126	0.01097
Sn	120	3	He	107.985	1.3702	70691.53	0.0126	0.01097
Sn	120	3	He	108.378	1.3751	71013.11	0.0126	0.01097
Sb	121	3	He	108.625	1.3089	67234.59	0.012	0.0003595
Sb	121	3	He	108.25	1.3043	67294.90	0.012	0.0003595
Sb	121	3	He	107.745	1.2983	67043.77	0.012	0.0003595
Ba	137	3	He	612.311	2.3893	122738.97	0.0039	0.0003633
Ba	137	3	He	606.037	2.3649	122011.80	0.0039	0.0003633
Ba	137	3	He	608.628	2.375	122647.55	0.0039	0.0003633
Tl	205	3	He	100.192	1.8989	364050.23	0.0189	0.001334
Tl	205	3	He	101.165	1.9174	364226.24	0.0189	0.001334
Tl	205	3	He	100.207	1.8992	361688.12	0.0189	0.001334
Pb	208	3	He	50.793	1.2793	130570.53	0.0252	0.001497
Pb	208	3	He	51.643	1.3007	133486.49	0.0252	0.001497
Pb	208	3	He	52.064	1.3113	133313.92	0.0252	0.001497
U	238	3	He	58.271	1.4306	274258.69	0.0245	0.0001141
U	238	3	He	57.734	1.4174	269253.51	0.0245	0.0001141
U	238	3	He	58.49	1.436	273463.08	0.0245	0.0001141
Sc	45	1	No Gas			1626830.29		
Sc	45	1	No Gas			1631923.73		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1682115.76		
Ge	72	1	No Gas			813516.63		
Ge	72	1	No Gas			826328.27		
Ge	72	1	No Gas			835065.38		
Sc	45	2	H2			128761.33		
Sc	45	2	H2			130315.20		
Sc	45	2	H2			128439.97		
Ge	72	2	H2			93742.39		
Ge	72	2	H2			96700.79		
Ge	72	2	H2			97896.58		
In	115	2	H2			240317.54		
In	115	2	H2			240700.72		
In	115	2	H2			238866.66		
Sc	45	3	He			38927.15		
Sc	45	3	He			38516.28		
Sc	45	3	He			39378.30		
Ge	72	3	He			65171.91		
Ge	72	3	He			66036.42		
Ge	72	3	He			68275.42		
In	115	3	He			51856.52		
In	115	3	He			52088.26		
In	115	3	He			52138.52		
Tb	159	3	He			191711.74		
Tb	159	3	He			189961.77		
Tb	159	3	He			190438.98		
Bi	209	3	He			137999.15		
Bi	209	3	He			135473.60		
Bi	209	3	He			138815.21		

Quantitation Report

Data File Name	254SMPL.d
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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

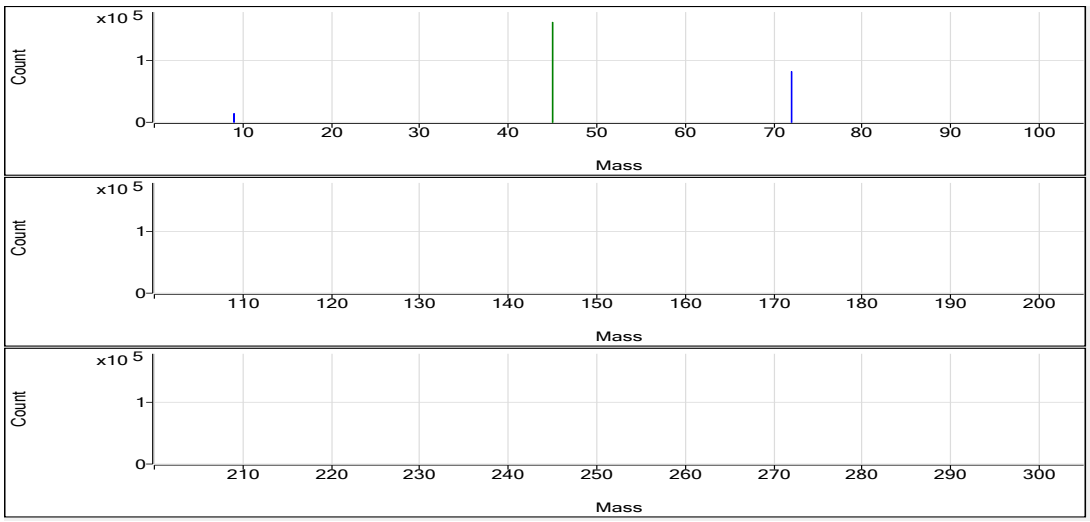
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	52.700	ppb	4.0	28823.17	0.0178	Pulse	0.5000	3
Se	78	72	H2	101.219	ppb	3.1	3814.01	0.0393	Pulse	1.5000	3
Na	23	45	He	263256.667	ppb	2.8	25785692.95	656.9764	Analog	0.1000	3
Mg	24	45	He	82538.070	ppb	2.8	3923739.73	99.9695	Analog	0.1000	3
Al	27	45	He	5193.817	ppb	3.4	77071.78	1.9639	Pulse	0.1000	3
K	39	45	He	9292.139	ppb	3.4	382927.24	9.7573	Pulse	0.5000	3
Ca	44	45	He	132124.712	ppb	2.1	273187.43	6.9594	Pulse	0.5000	3
Ti	47	45	He	536.136	ppb	3.9	8622.30	0.2197	Pulse	0.5000	3
V	51	45	He	525.322	ppb	3.1	363644.12	9.2657	Pulse	0.5000	3
Cr	52	45	He	524.441	ppb	2.2	449212.60	11.4439	Pulse	0.1000	3
Mn	55	45	He	536.755	ppb	2.7	192441.61	4.9030	Pulse	0.5000	3
Fe	57	45	He	5150.102	ppb	1.4	81075.23	2.0651	Pulse	0.1000	3
Co	59	45	He	503.490	ppb	2.8	816162.73	20.7944	Pulse	0.5000	3
Ni	60	45	He	500.109	ppb	2.7	231005.82	5.8856	Pulse	0.5000	3
Cu	63	72	He	498.778	ppb	1.0	655054.10	9.7716	Pulse	0.5000	3
Zn	66	72	He	502.831	ppb	1.5	76793.82	1.1456	Pulse	0.5000	3
As	75	72	He	509.689	ppb	2.1	62975.00	0.9395	Pulse	0.5000	3
Sr	88	115	He	1170.773	ppb	0.7	504595.41	9.6205	Pulse	0.1000	3
Mo	98	115	He	51.941	ppb	1.3	48331.35	0.9215	Pulse	0.1000	3
Ag	107	115	He	50.440	ppb	1.3	97351.50	1.8561	Pulse	0.1000	3
Cd	111	115	He	53.239	ppb	1.5	11456.90	0.2184	Pulse	0.5000	3
Sn	120	115	He	103.981	ppb	0.8	69221.20	1.3198	Pulse	0.1000	3
Sb	121	115	He	104.900	ppb	2.5	66286.02	1.2640	Pulse	0.3000	3
Ba	137	115	He	593.167	ppb	2.3	121388.16	2.3147	Pulse	0.1000	3
Tl	205	159	He	100.056	ppb	0.7	361657.05	1.8964	Pulse	0.1000	3
Pb	208	159	He	51.121	ppb	0.7	245553.14	1.2876	Pulse	0.1000	3
U	238	159	He	57.553	ppb	1.1	269459.06	1.4130	Pulse	0.1000	3

ISTD Table:

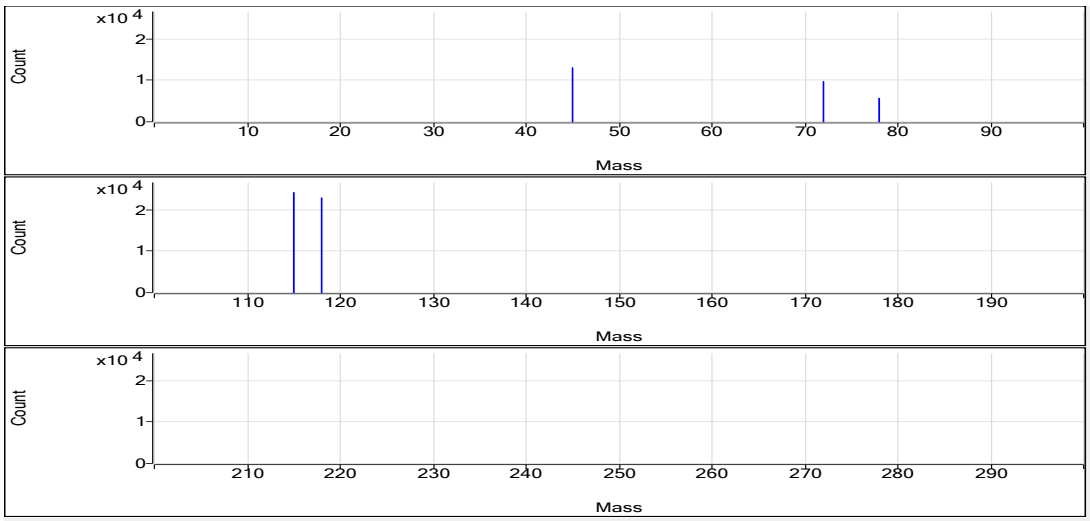
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1622717.06	0.2	95.0	Analog	0.1000	3
No Gas	Ge	72	823629.05	0.7	95.3	Pulse	0.1000	3
H2	Sc	45	129964.53	1.3	97.3	Pulse	0.1000	3
H2	Ge	72	97024.84	1.3	97.9	Pulse	0.1000	3
H2	In	115	240825.35	1.3	93.8	Pulse	0.1000	3
He	Sc	45	39271.08	3.1	99.5	Pulse	0.1000	3
He	Ge	72	67043.57	1.6	98.4	Pulse	0.1000	3
He	In	115	52452.71	1.2	94.7	Pulse	0.1000	3
He	Tb	159	190719.95	1.0	93.1	Pulse	0.1000	3
He	Bi	209	136935.68	1.9	90.5	Pulse	0.1000	3

No Gas

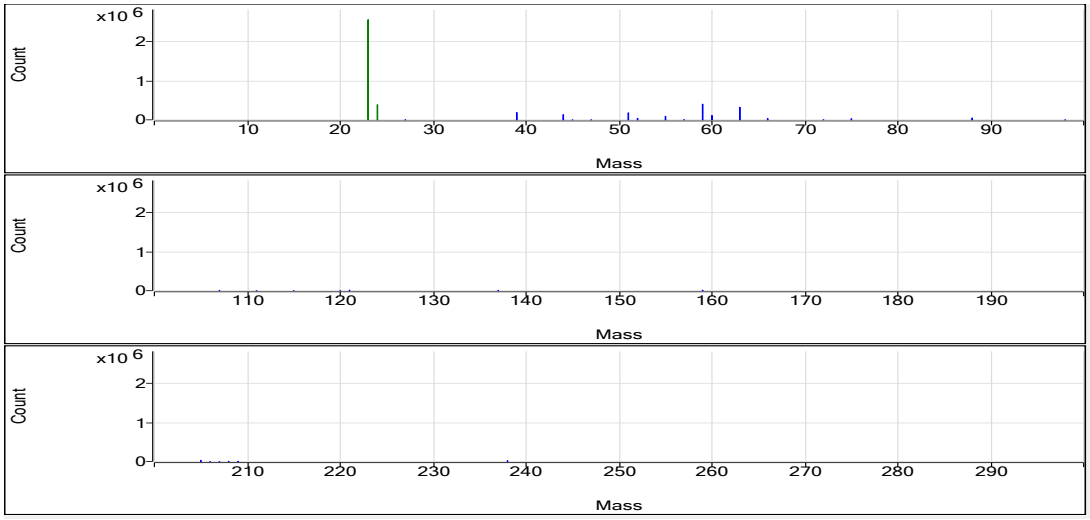


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	50.403	0.017	27568.41	0.0003	2.616E-05
Be	9	1	No Gas	53.102	0.0179	29114.98	0.0003	2.616E-05
Be	9	1	No Gas	54.594	0.0184	29786.13	0.0003	2.616E-05
Se	78	2	H2	99.305	0.0386	3727.77	0.0004	6.3E-05
Se	78	2	H2	99.489	0.0386	3803.12	0.0004	6.3E-05
Se	78	2	H2	104.864	0.0407	3911.15	0.0004	6.3E-05
Na	23	3	He	270564.258	675.1922	25741682.12	0.0025	0.7502
Na	23	3	He	263198.214	656.8307	25726652.12	0.0025	0.7502
Na	23	3	He	256007.528	638.9063	25888744.61	0.0025	0.7502
Mg	24	3	He	84975.201	102.9205	3923841.82	0.0012	0.02618
Mg	24	3	He	82194.777	99.5538	3899308.38	0.0012	0.02618
Mg	24	3	He	80444.231	97.4341	3948069.00	0.0012	0.02618
Al	27	3	He	5377.87	2.0333	77520.67	0.0004	0.005329
Al	27	3	He	5183.279	1.96	76767.05	0.0004	0.005329
Al	27	3	He	5020.3	1.8985	76927.62	0.0004	0.005329
K	39	3	He	9584.432	10.0475	383062.34	0.001	0.5307
K	39	3	He	9339.49	9.8043	384014.63	0.001	0.5307
K	39	3	He	8952.494	9.4201	381704.75	0.001	0.5307
Ca	44	3	He	134659.53	7.0929	270414.75	0.0001	0.004441
Ca	44	3	He	132544.682	6.9815	273451.47	0.0001	0.004441
Ca	44	3	He	129169.923	6.8039	275696.06	0.0001	0.004441
Ti	47	3	He	549.443	0.2252	8584.28	0.0004	0.0004559
Ti	47	3	He	546.901	0.2241	8778.38	0.0004	0.0004559
Ti	47	3	He	512.065	0.2099	8504.23	0.0004	0.0004559
V	51	3	He	541.44	9.5492	364062.50	0.0176	0.02609
V	51	3	He	525.792	9.274	363241.41	0.0176	0.02609
V	51	3	He	508.735	8.974	363628.44	0.0176	0.02609
Cr	52	3	He	535.981	11.6946	445856.79	0.0217	0.05061
Cr	52	3	He	524.681	11.4491	448438.24	0.0217	0.05061
Cr	52	3	He	512.661	11.188	453342.77	0.0217	0.05061
Mn	55	3	He	550.614	5.0293	191742.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	537.509	4.9099	192308.75	0.0091	0.01071
Mn	55	3	He	522.142	4.7698	193274.06	0.0091	0.01071
Fe	57	3	He	5202.876	2.0862	79534.58	0.0004	0.008452
Fe	57	3	He	5182.635	2.0781	81393.61	0.0004	0.008452
Fe	57	3	He	5064.795	2.031	82297.50	0.0004	0.008452
Co	59	3	He	517.476	21.3719	814801.69	0.0413	0.006013
Co	59	3	He	503.275	20.7855	814124.13	0.0413	0.006013
Co	59	3	He	489.721	20.2259	819562.38	0.0413	0.006013
Ni	60	3	He	513.238	6.0398	230265.72	0.0117	0.01172
Ni	60	3	He	500.692	5.8924	230792.67	0.0117	0.01172
Ni	60	3	He	486.396	5.7245	231959.06	0.0117	0.01172
Cu	63	3	He	503.332	9.8606	650166.56	0.0196	0.01443
Cu	63	3	He	493.477	9.6679	657654.25	0.0196	0.01443
Cu	63	3	He	499.524	9.7862	657341.50	0.0196	0.01443
Zn	66	3	He	511.065	1.1643	76770.32	0.0023	0.002807
Zn	66	3	He	496.281	1.1307	76917.20	0.0023	0.002807
Zn	66	3	He	501.146	1.1418	76693.94	0.0023	0.002807
As	75	3	He	516.05	0.9512	62717.34	0.0018	0.001271
As	75	3	He	497.421	0.9169	62371.96	0.0018	0.001271
As	75	3	He	515.595	0.9504	63835.71	0.0018	0.001271
Sr	88	3	He	1180.152	9.6975	504614.41	0.0082	0.00114
Sr	88	3	He	1168.742	9.6038	500798.82	0.0082	0.00114
Sr	88	3	He	1163.424	9.5601	508373.00	0.0082	0.00114
Mo	98	3	He	51.782	0.9187	47802.99	0.0177	0.001504
Mo	98	3	He	52.682	0.9346	48735.73	0.0177	0.001504
Mo	98	3	He	51.361	0.9112	48455.34	0.0177	0.001504
Ag	107	3	He	50.436	1.856	96576.83	0.0368	0.001325
Ag	107	3	He	51.105	1.8806	98065.91	0.0368	0.001325
Ag	107	3	He	49.779	1.8319	97411.77	0.0368	0.001325
Cd	111	3	He	53.722	0.2204	11470.24	0.0041	4.798E-05
Cd	111	3	He	53.673	0.2202	11484.26	0.0041	4.798E-05
Cd	111	3	He	52.321	0.2147	11416.20	0.0041	4.798E-05
Sn	120	3	He	104.544	1.3269	69043.55	0.0126	0.01097
Sn	120	3	He	104.382	1.3248	69083.99	0.0126	0.01097
Sn	120	3	He	103.018	1.3076	69536.06	0.0126	0.01097
Sb	121	3	He	106.694	1.2856	66896.38	0.012	0.0003595
Sb	121	3	He	106.105	1.2785	66668.72	0.012	0.0003595
Sb	121	3	He	101.901	1.2278	65292.97	0.012	0.0003595
Ba	137	3	He	598.56	2.3357	121539.13	0.0039	0.0003633
Ba	137	3	He	603.585	2.3553	122819.98	0.0039	0.0003633
Ba	137	3	He	577.355	2.253	119805.37	0.0039	0.0003633
Tl	205	3	He	99.217	1.8805	362914.25	0.0189	0.001334
Tl	205	3	He	100.57	1.9061	361058.28	0.0189	0.001334
Tl	205	3	He	100.381	1.9025	360998.63	0.0189	0.001334
Pb	208	3	He	50.796	1.2794	133265.06	0.0252	0.001497
Pb	208	3	He	51.478	1.2965	131590.03	0.0252	0.001497
Pb	208	3	He	51.089	1.2867	131367.22	0.0252	0.001497
U	238	3	He	56.897	1.3969	269579.25	0.0245	0.0001141
U	238	3	He	58.113	1.4267	270251.38	0.0245	0.0001141
U	238	3	He	57.648	1.4153	268546.56	0.0245	0.0001141
Sc	45	1	No Gas			1622635.29		
Sc	45	1	No Gas			1626712.48		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1618803.41		
Ge	72	1	No Gas			824529.75		
Ge	72	1	No Gas			828727.96		
Ge	72	1	No Gas			817629.44		
Sc	45	2	H2			128176.79		
Sc	45	2	H2			131372.01		
Sc	45	2	H2			130344.78		
Ge	72	2	H2			96638.85		
Ge	72	2	H2			98410.09		
Ge	72	2	H2			96025.58		
In	115	2	H2			237819.00		
In	115	2	H2			243849.92		
In	115	2	H2			240807.13		
Sc	45	3	He			38124.97		
Sc	45	3	He			39167.86		
Sc	45	3	He			40520.41		
Ge	72	3	He			65935.52		
Ge	72	3	He			68024.71		
Ge	72	3	He			67170.47		
In	115	3	He			52518.72		
In	115	3	He			52629.64		
In	115	3	He			53663.42		
Tb	159	3	He			192989.84		
Tb	159	3	He			189422.81		
Tb	159	3	He			189747.20		
Bi	209	3	He			140008.31		
Bi	209	3	He			135313.50		
Bi	209	3	He			135485.22		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

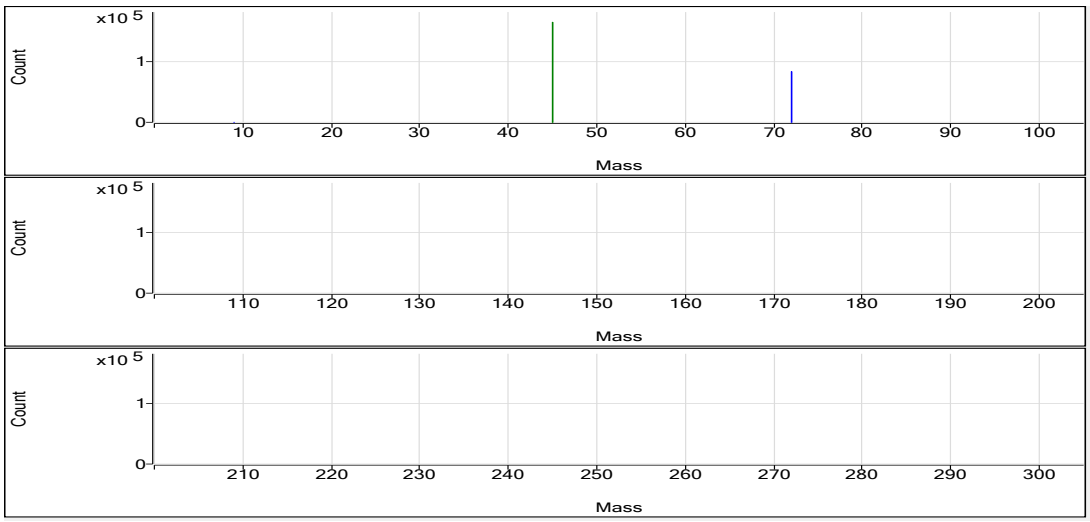
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.179	ppb	8.9	143.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.329	ppb	25.9	18.89	0.0002	Pulse	1.5000	3
Na	23	45	He	6846.996	ppb	1.8	687631.89	17.8179	Pulse	0.1000	3
Mg	24	45	He	11192.166	ppb	1.6	524051.59	13.5785	Pulse	0.1000	3
Al	27	45	He	40.431	ppb	14.1	793.38	0.0206	Pulse	0.1000	3
K	39	45	He	647.233	ppb	11.8	45270.46	1.1733	Pulse	0.5000	3
Ca	44	45	He	24583.760	ppb	2.3	50111.76	1.2985	Pulse	0.5000	3
Ti	47	45	He	1.628	ppb	78.5	43.33	0.0011	Pulse	0.5000	3
V	51	45	He	0.578	ppb	25.5	1398.73	0.0363	Pulse	0.5000	3
Cr	52	45	He	0.541	ppb	23.6	2406.92	0.0624	Pulse	0.1000	3
Mn	55	45	He	1.395	ppb	3.9	904.03	0.0234	Pulse	0.5000	3
Fe	57	45	He	36.586	ppb	11.4	890.05	0.0231	Pulse	0.1000	3
Co	59	45	He	0.497	ppb	17.5	1023.37	0.0265	Pulse	0.5000	3
Ni	60	45	He	0.324	ppb	18.9	598.68	0.0155	Pulse	0.5000	3
Cu	63	72	He	0.958	ppb	8.3	2242.17	0.0332	Pulse	0.5000	3
Zn	66	72	He	4.848	ppb	5.0	934.03	0.0138	Pulse	0.5000	3
As	75	72	He	2.296	ppb	6.4	371.34	0.0055	Pulse	0.5000	3
Sr	88	115	He	50.386	ppb	2.7	22152.74	0.4151	Pulse	0.1000	3
Mo	98	115	He	0.201	ppb	92.2	270.01	0.0051	Pulse	0.1000	3
Ag	107	115	He	0.052	ppb	12.7	173.34	0.0032	Pulse	0.1000	3
Cd	111	115	He	0.052	ppb	46.6	14.00	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.459	ppb	6.8	893.39	0.0167	Pulse	0.1000	3
Sb	121	115	He	0.217	ppb	9.5	158.89	0.0030	Pulse	0.3000	3
Ba	137	115	He	7.959	ppb	1.3	1676.80	0.0314	Pulse	0.1000	3
Tl	205	159	He	0.270	ppb	25.2	1233.42	0.0065	Pulse	0.1000	3
Pb	208	159	He	0.103	ppb	22.3	780.04	0.0041	Pulse	0.1000	3
U	238	159	He	0.139	ppb	7.4	676.71	0.0035	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1655683.57	1.6	96.9	Analog	0.1000	3
No Gas	Ge	72	839573.17	1.2	97.2	Pulse	0.1000	3
H2	Sc	45	131832.18	1.0	98.7	Pulse	0.1000	3
H2	Ge	72	99057.23	1.1	100.0	Pulse	0.1000	3
H2	In	115	245068.99	0.7	95.5	Pulse	0.1000	3
He	Sc	45	38599.49	1.6	97.8	Pulse	0.1000	3
He	Ge	72	67579.09	1.7	99.2	Pulse	0.1000	3
He	In	115	53372.99	1.0	96.3	Pulse	0.1000	3
He	Tb	159	191258.24	1.0	93.4	Pulse	0.1000	3
He	Bi	209	141784.46	0.6	93.7	Pulse	0.1000	3

No Gas



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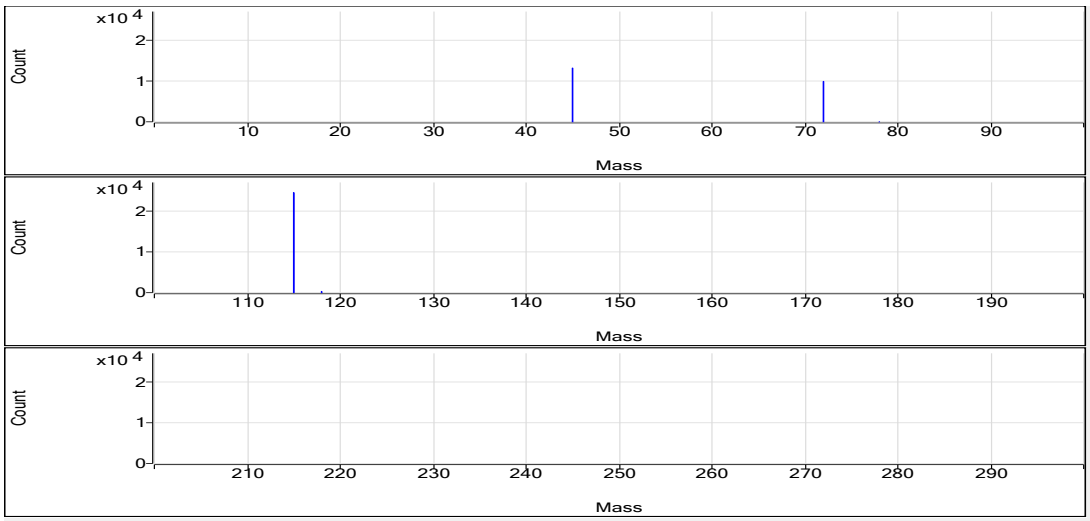
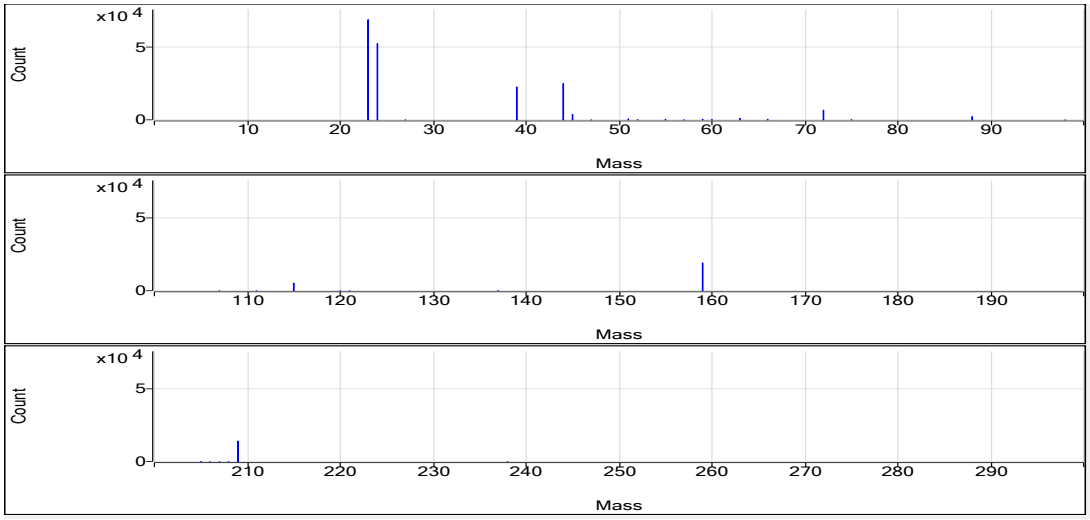


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.17	0.0001	138.00	0.0003	2.616E-05
Be	9	1	No Gas	0.17	0.0001	136.00	0.0003	2.616E-05
Be	9	1	No Gas	0.198	0.0001	156.00	0.0003	2.616E-05
Se	78	2	H2	0.335	0.0002	19.33	0.0004	6.3E-05
Se	78	2	H2	0.241	0.0002	15.33	0.0004	6.3E-05
Se	78	2	H2	0.411	0.0002	22.00	0.0004	6.3E-05
Na	23	3	He	6886.774	17.917	688290.61	0.0025	0.7502
Na	23	3	He	6945.351	18.063	687930.93	0.0025	0.7502
Na	23	3	He	6708.864	17.4735	686674.13	0.0025	0.7502
Mg	24	3	He	11110.397	13.4795	517820.81	0.0012	0.02618
Mg	24	3	He	11397.478	13.8271	526605.62	0.0012	0.02618
Mg	24	3	He	11068.622	13.4289	527728.35	0.0012	0.02618
Al	27	3	He	39.713	0.0203	780.04	0.0004	0.005329
Al	27	3	He	46.448	0.0228	870.05	0.0004	0.005329
Al	27	3	He	35.131	0.0186	730.05	0.0004	0.005329
K	39	3	He	728.339	1.2539	48167.92	0.001	0.5307
K	39	3	He	637.093	1.1633	44302.96	0.001	0.5307
K	39	3	He	576.268	1.1029	43340.50	0.001	0.5307
Ca	44	3	He	24356.498	1.2866	49423.62	0.0001	0.004441
Ca	44	3	He	25236.023	1.3329	50761.73	0.0001	0.004441
Ca	44	3	He	24158.758	1.2761	50149.93	0.0001	0.004441
Ti	47	3	He	0.158	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	2.481	0.0015	56.00	0.0004	0.0004559
Ti	47	3	He	2.245	0.0014	54.00	0.0004	0.0004559
V	51	3	He	0.63	0.0372	1428.07	0.0176	0.02609
V	51	3	He	0.693	0.0383	1458.07	0.0176	0.02609
V	51	3	He	0.412	0.0333	1310.06	0.0176	0.02609
Cr	52	3	He	0.678	0.0653	2510.27	0.0217	0.05061
Cr	52	3	He	0.426	0.0599	2280.22	0.0217	0.05061
Cr	52	3	He	0.517	0.0618	2430.26	0.0217	0.05061
Mn	55	3	He	1.338	0.0229	880.03	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.447	0.0239	910.03	0.0091	0.01071
Mn	55	3	He	1.399	0.0235	922.03	0.0091	0.01071
Fe	57	3	He	32.29	0.0213	820.05	0.0004	0.008452
Fe	57	3	He	40.644	0.0247	940.05	0.0004	0.008452
Fe	57	3	He	36.825	0.0232	910.06	0.0004	0.008452
Co	59	3	He	0.578	0.0299	1148.05	0.0413	0.006013
Co	59	3	He	0.508	0.027	1028.04	0.0413	0.006013
Co	59	3	He	0.405	0.0228	894.03	0.0413	0.006013
Ni	60	3	He	0.381	0.0162	622.02	0.0117	0.01172
Ni	60	3	He	0.33	0.0156	594.01	0.0117	0.01172
Ni	60	3	He	0.259	0.0148	580.01	0.0117	0.01172
Cu	63	3	He	1.039	0.0348	2322.18	0.0196	0.01443
Cu	63	3	He	0.955	0.0331	2282.17	0.0196	0.01443
Cu	63	3	He	0.88	0.0317	2122.15	0.0196	0.01443
Zn	66	3	He	5.129	0.0145	966.03	0.0023	0.002807
Zn	66	3	He	4.691	0.0135	928.03	0.0023	0.002807
Zn	66	3	He	4.724	0.0135	908.03	0.0023	0.002807
As	75	3	He	2.466	0.0058	388.01	0.0018	0.001271
As	75	3	He	2.195	0.0053	366.01	0.0018	0.001271
As	75	3	He	2.227	0.0054	360.01	0.0018	0.001271
Sr	88	3	He	50.967	0.4199	22366.34	0.0082	0.00114
Sr	88	3	He	51.343	0.423	22386.38	0.0082	0.00114
Sr	88	3	He	48.848	0.4025	21705.50	0.0082	0.00114
Mo	98	3	He	0.413	0.0088	470.02	0.0177	0.001504
Mo	98	3	He	0.075	0.0028	150.00	0.0177	0.001504
Mo	98	3	He	0.114	0.0035	190.01	0.0177	0.001504
Ag	107	3	He	0.056	0.0034	180.01	0.0368	0.001325
Ag	107	3	He	0.056	0.0034	180.01	0.0368	0.001325
Ag	107	3	He	0.045	0.003	160.01	0.0368	0.001325
Cd	111	3	He	0.08	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.441	0.0165	880.06	0.0126	0.01097
Sn	120	3	He	0.495	0.0172	910.05	0.0126	0.01097
Sn	120	3	He	0.44	0.0165	890.06	0.0126	0.01097
Sb	121	3	He	0.24	0.0033	173.34	0.012	0.0003595
Sb	121	3	He	0.2	0.0028	146.67	0.012	0.0003595
Sb	121	3	He	0.211	0.0029	156.67	0.012	0.0003595
Ba	137	3	He	7.895	0.0312	1660.14	0.0039	0.0003633
Ba	137	3	He	7.898	0.0312	1650.13	0.0039	0.0003633
Ba	137	3	He	8.082	0.0319	1720.14	0.0039	0.0003633
Tl	205	3	He	0.348	0.0079	1510.11	0.0189	0.001334
Tl	205	3	He	0.219	0.0055	1060.07	0.0189	0.001334
Tl	205	3	He	0.244	0.006	1130.08	0.0189	0.001334
Pb	208	3	He	0.091	0.0038	350.02	0.0252	0.001497
Pb	208	3	He	0.088	0.0037	390.02	0.0252	0.001497
Pb	208	3	He	0.129	0.0047	460.02	0.0252	0.001497
U	238	3	He	0.134	0.0034	650.04	0.0245	0.0001141
U	238	3	He	0.151	0.0038	740.05	0.0245	0.0001141
U	238	3	He	0.133	0.0034	640.04	0.0245	0.0001141
Sc	45	1	No Gas			1652756.07		
Sc	45	1	No Gas			1631353.57		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1682941.07		
Ge	72	1	No Gas			830117.49		
Ge	72	1	No Gas			838863.82		
Ge	72	1	No Gas			849738.19		
Sc	45	2	H2			131633.33		
Sc	45	2	H2			133226.28		
Sc	45	2	H2			130636.94		
Ge	72	2	H2			100180.13		
Ge	72	2	H2			98008.43		
Ge	72	2	H2			98983.12		
In	115	2	H2			246571.70		
In	115	2	H2			245416.44		
In	115	2	H2			243218.84		
Sc	45	3	He			38415.48		
Sc	45	3	He			38085.03		
Sc	45	3	He			39297.96		
Ge	72	3	He			66788.90		
Ge	72	3	He			68907.89		
Ge	72	3	He			67040.49		
In	115	3	He			53272.07		
In	115	3	He			52931.31		
In	115	3	He			53934.34		
Tb	159	3	He			190711.75		
Tb	159	3	He			193375.43		
Tb	159	3	He			189687.54		
Bi	209	3	He			140834.26		
Bi	209	3	He			141926.48		
Bi	209	3	He			142592.65		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

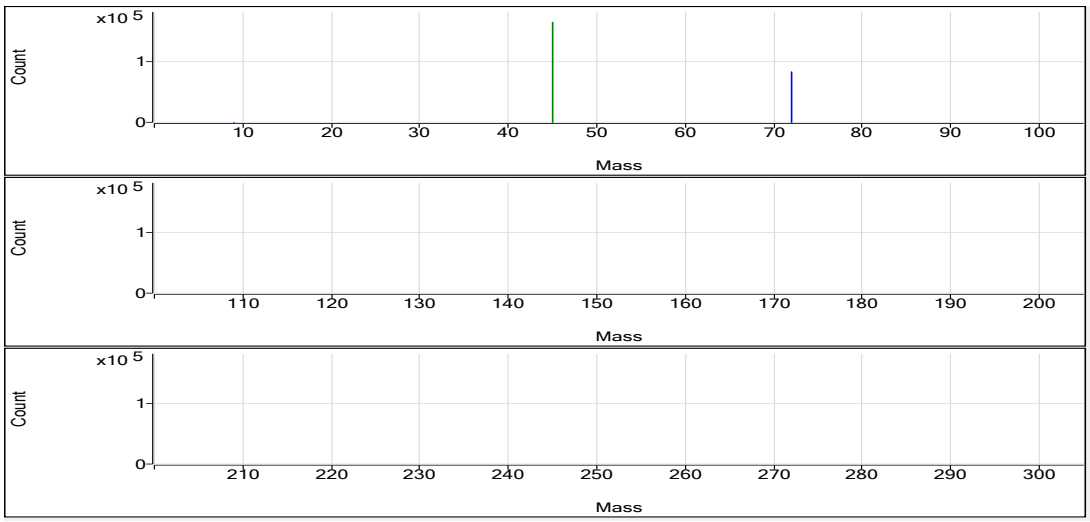
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.031	ppb	60.3	60.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.053	ppb	45.3	8.22	0.0001	Pulse	1.5000	3
Na	23	45	He	999.838	ppb	2.4	128380.68	3.2425	Pulse	0.1000	3
Mg	24	45	He	134.427	ppb	3.9	7485.23	0.1890	Pulse	0.1000	3
Al	27	45	He	59.171	ppb	13.8	1093.41	0.0276	Pulse	0.1000	3
K	39	45	He	16.042	ppb	352.1	21667.72	0.5466	Pulse	0.5000	3
Ca	44	45	He	594.932	ppb	3.8	1415.40	0.0358	Pulse	0.5000	3
Ti	47	45	He	3.825	ppb	19.9	80.00	0.0020	Pulse	0.5000	3
V	51	45	He	0.004	ppb	1085.5	1036.04	0.0262	Pulse	0.5000	3
Cr	52	45	He	-0.108	ppb	N/A	1910.17	0.0483	Pulse	0.1000	3
Mn	55	45	He	0.566	ppb	20.7	628.02	0.0159	Pulse	0.5000	3
Fe	57	45	He	25.226	ppb	7.0	733.37	0.0185	Pulse	0.1000	3
Co	59	45	He	0.079	ppb	21.8	368.01	0.0093	Pulse	0.5000	3
Ni	60	45	He	-0.104	ppb	N/A	415.34	0.0105	Pulse	0.5000	3
Cu	63	72	He	-0.179	ppb	N/A	740.02	0.0109	Pulse	0.5000	3
Zn	66	72	He	0.666	ppb	10.5	292.67	0.0043	Pulse	0.5000	3
As	75	72	He	1.647	ppb	8.1	291.33	0.0043	Pulse	0.5000	3
Sr	88	115	He	1.172	ppb	3.3	580.03	0.0108	Pulse	0.1000	3
Mo	98	115	He	0.009	ppb	288.6	90.00	0.0017	Pulse	0.1000	3
Ag	107	115	He	-0.006	ppb	N/A	60.00	0.0011	Pulse	0.1000	3
Cd	111	115	He	0.012	ppb	110.8	5.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	1.444	ppb	10.2	1570.16	0.0291	Pulse	0.1000	3
Sb	121	115	He	0.167	ppb	16.4	127.78	0.0024	Pulse	0.3000	3
Ba	137	115	He	2.603	ppb	14.5	566.69	0.0105	Pulse	0.1000	3
Tl	205	159	He	0.038	ppb	45.9	393.35	0.0020	Pulse	0.1000	3
Pb	208	159	He	0.331	ppb	5.7	1890.12	0.0098	Pulse	0.1000	3
U	238	159	He	0.021	ppb	30.3	120.00	0.0006	Pulse	0.1000	3

ISTD Table:

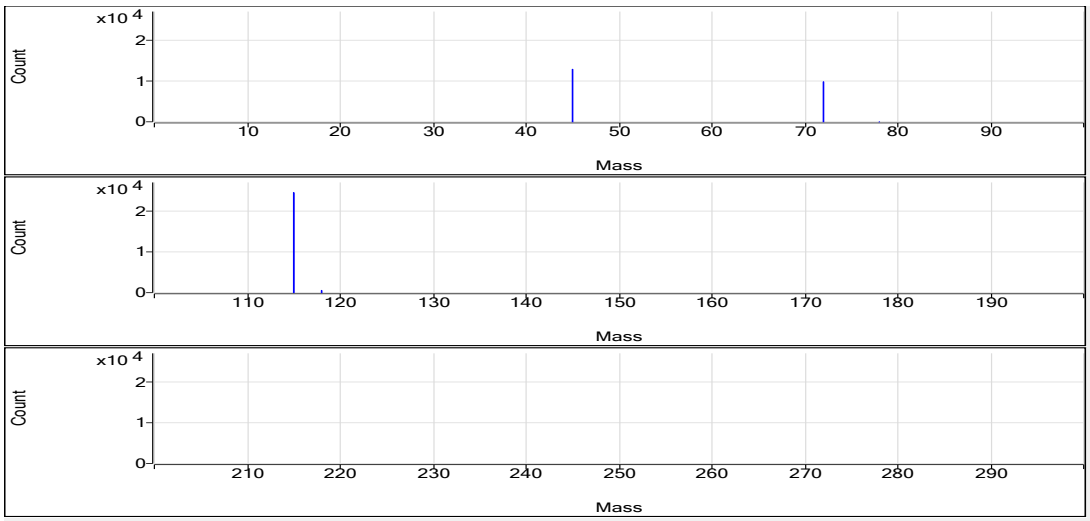
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1643661.80	0.3	96.2	Analog	0.1000	3
No Gas	Ge	72	829136.03	0.5	96.0	Pulse	0.1000	3
H2	Sc	45	129030.16	1.1	96.6	Pulse	0.1000	3
H2	Ge	72	98196.17	1.3	99.1	Pulse	0.1000	3
H2	In	115	245401.98	1.6	95.6	Pulse	0.1000	3
He	Sc	45	39598.38	1.7	100.3	Pulse	0.1000	3
He	Ge	72	67716.25	1.4	99.4	Pulse	0.1000	3
He	In	115	53859.42	1.2	97.2	Pulse	0.1000	3
He	Tb	159	192274.10	0.4	93.9	Pulse	0.1000	3
He	Bi	209	144988.63	0.7	95.8	Pulse	0.1000	3

No Gas

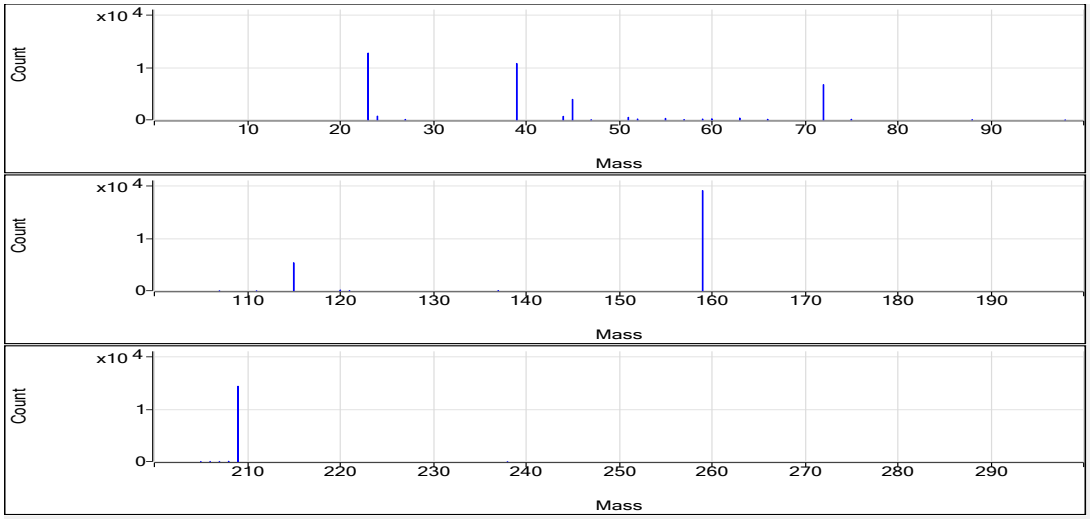


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.02	0	54.00	0.0003	2.616E-05
Be	9	1	No Gas	0.02	0	54.00	0.0003	2.616E-05
Be	9	1	No Gas	0.052	0	72.00	0.0003	2.616E-05
Se	78	2	H2	0.079	0.0001	9.33	0.0004	6.3E-05
Se	78	2	H2	0.05	0.0001	8.00	0.0004	6.3E-05
Se	78	2	H2	0.031	0.0001	7.33	0.0004	6.3E-05
Na	23	3	He	997.798	3.2374	130306.05	0.0025	0.7502
Na	23	3	He	977.083	3.1858	126375.25	0.0025	0.7502
Na	23	3	He	1024.634	3.3043	128460.73	0.0025	0.7502
Mg	24	3	He	140.103	0.1958	7882.14	0.0012	0.02618
Mg	24	3	He	133.516	0.1879	7451.85	0.0012	0.02618
Mg	24	3	He	129.662	0.1832	7121.69	0.0012	0.02618
Al	27	3	He	49.778	0.0241	970.06	0.0004	0.005329
Al	27	3	He	63.419	0.0292	1160.09	0.0004	0.005329
Al	27	3	He	64.316	0.0296	1150.09	0.0004	0.005329
K	39	3	He	79.949	0.61	24554.38	0.001	0.5307
K	39	3	He	-4.656	0.526	20867.18	0.001	0.5307
K	39	3	He	-27.168	0.5037	19581.60	0.001	0.5307
Ca	44	3	He	574.552	0.0347	1396.07	0.0001	0.004441
Ca	44	3	He	590.915	0.0355	1410.07	0.0001	0.004441
Ca	44	3	He	619.329	0.037	1440.07	0.0001	0.004441
Ti	47	3	He	4.353	0.0022	90.00	0.0004	0.0004559
Ti	47	3	He	2.954	0.0017	66.00	0.0004	0.0004559
Ti	47	3	He	4.169	0.0022	84.00	0.0004	0.0004559
V	51	3	He	0.039	0.0268	1078.04	0.0176	0.02609
V	51	3	He	-0.042	0.0254	1006.04	0.0176	0.02609
V	51	3	He	0.014	0.0263	1024.04	0.0176	0.02609
Cr	52	3	He	-0.237	0.0455	1830.16	0.0217	0.05061
Cr	52	3	He	-0.078	0.0489	1940.17	0.0217	0.05061
Cr	52	3	He	-0.009	0.0504	1960.17	0.0217	0.05061
Mn	55	3	He	0.433	0.0147	590.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.656	0.0167	662.02	0.0091	0.01071
Mn	55	3	He	0.609	0.0163	632.02	0.0091	0.01071
Fe	57	3	He	24.876	0.0184	740.04	0.0004	0.008452
Fe	57	3	He	23.657	0.0179	710.04	0.0004	0.008452
Fe	57	3	He	27.146	0.0193	750.04	0.0004	0.008452
Co	59	3	He	0.09	0.0097	392.01	0.0413	0.006013
Co	59	3	He	0.06	0.0085	336.01	0.0413	0.006013
Co	59	3	He	0.089	0.0097	376.01	0.0413	0.006013
Ni	60	3	He	-0.134	0.0101	408.01	0.0117	0.01172
Ni	60	3	He	-0.053	0.0111	440.01	0.0117	0.01172
Ni	60	3	He	-0.126	0.0102	398.01	0.0117	0.01172
Cu	63	3	He	-0.181	0.0109	728.02	0.0196	0.01443
Cu	63	3	He	-0.177	0.011	754.02	0.0196	0.01443
Cu	63	3	He	-0.18	0.0109	738.02	0.0196	0.01443
Zn	66	3	He	0.714	0.0044	296.00	0.0023	0.002807
Zn	66	3	He	0.699	0.0044	302.01	0.0023	0.002807
Zn	66	3	He	0.586	0.0041	280.00	0.0023	0.002807
As	75	3	He	1.554	0.0041	276.00	0.0018	0.001271
As	75	3	He	1.587	0.0042	288.00	0.0018	0.001271
As	75	3	He	1.799	0.0046	310.00	0.0018	0.001271
Sr	88	3	He	1.167	0.0107	570.03	0.0082	0.00114
Sr	88	3	He	1.136	0.0105	570.03	0.0082	0.00114
Sr	88	3	He	1.214	0.0111	600.03	0.0082	0.00114
Mo	98	3	He	-0.011	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	0.04	0.0022	120.00	0.0177	0.001504
Mo	98	3	He	-0.001	0.0015	80.00	0.0177	0.001504
Ag	107	3	He	0.005	0.0015	80.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Ag	107	3	He	-0.011	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.015	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.024	0.0001	8.00	0.0041	4.798E-05
Sn	120	3	He	1.327	0.0277	1470.13	0.0126	0.01097
Sn	120	3	He	1.61	0.0312	1700.22	0.0126	0.01097
Sn	120	3	He	1.395	0.0285	1540.13	0.0126	0.01097
Sb	121	3	He	0.194	0.0027	143.34	0.012	0.0003595
Sb	121	3	He	0.168	0.0024	130.00	0.012	0.0003595
Sb	121	3	He	0.139	0.002	110.00	0.012	0.0003595
Ba	137	3	He	2.367	0.0096	510.02	0.0039	0.0003633
Ba	137	3	He	2.402	0.0097	530.02	0.0039	0.0003633
Ba	137	3	He	3.039	0.0122	660.03	0.0039	0.0003633
Tl	205	3	He	0.034	0.002	380.02	0.0189	0.001334
Tl	205	3	He	0.023	0.0018	340.01	0.0189	0.001334
Tl	205	3	He	0.056	0.0024	460.02	0.0189	0.001334
Pb	208	3	He	0.352	0.0103	970.07	0.0252	0.001497
Pb	208	3	He	0.328	0.0097	980.07	0.0252	0.001497
Pb	208	3	He	0.314	0.0094	950.07	0.0252	0.001497
U	238	3	He	0.027	0.0008	150.01	0.0245	0.0001141
U	238	3	He	0.021	0.0006	120.00	0.0245	0.0001141
U	238	3	He	0.015	0.0005	90.00	0.0245	0.0001141
Sc	45	1	No Gas			1638014.82		
Sc	45	1	No Gas			1644970.91		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1647999.66		
Ge	72	1	No Gas			826709.13		
Ge	72	1	No Gas			833769.91		
Ge	72	1	No Gas			826929.05		
Sc	45	2	H2			130715.06		
Sc	45	2	H2			128410.32		
Sc	45	2	H2			127965.09		
Ge	72	2	H2			99658.45		
Ge	72	2	H2			97324.57		
Ge	72	2	H2			97605.49		
In	115	2	H2			244642.30		
In	115	2	H2			249672.22		
In	115	2	H2			241891.42		
Sc	45	3	He			40249.96		
Sc	45	3	He			39668.52		
Sc	45	3	He			38876.66		
Ge	72	3	He			66799.52		
Ge	72	3	He			68696.80		
Ge	72	3	He			67652.43		
In	115	3	He			53141.19		
In	115	3	He			54456.05		
In	115	3	He			54014.00		
Tb	159	3	He			192461.15		
Tb	159	3	He			192970.47		
Tb	159	3	He			191390.68		
Bi	209	3	He			145955.27		
Bi	209	3	He			143934.28		
Bi	209	3	He			145076.33		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

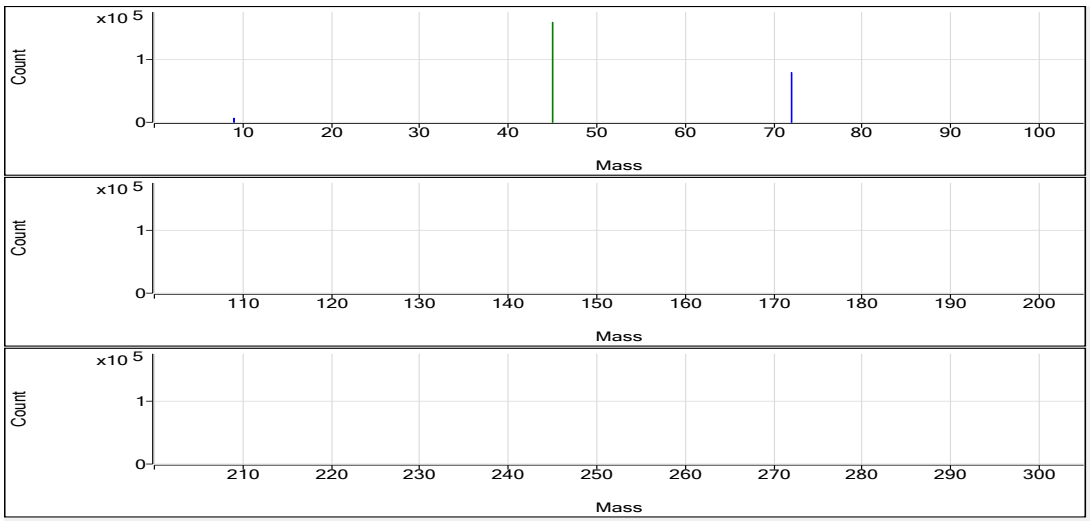
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	25.592	ppb	5.1	13829.68	0.0086	Pulse	0.5000	3
Se	78	72	H2	25.720	ppb	4.8	931.36	0.0100	Pulse	1.5000	3
Na	23	45	He	2554.326	ppb	2.5	269114.10	7.1174	Pulse	0.1000	3
Mg	24	45	He	2644.758	ppb	1.7	122084.08	3.2287	Pulse	0.1000	3
Al	27	45	He	2621.473	ppb	2.0	37579.88	0.9939	Pulse	0.1000	3
K	39	45	He	2653.724	ppb	4.6	119668.48	3.1657	Pulse	0.5000	3
Ca	44	45	He	2633.689	ppb	3.7	5408.92	0.1431	Pulse	0.5000	3
Ti	47	45	He	2662.410	ppb	1.3	41191.34	1.0893	Pulse	0.5000	3
V	51	45	He	266.805	ppb	1.6	178433.67	4.7188	Pulse	0.5000	3
Cr	52	45	He	268.857	ppb	0.4	222812.07	5.8914	Pulse	0.1000	3
Mn	55	45	He	265.943	ppb	1.8	92059.61	2.4347	Pulse	0.5000	3
Fe	57	45	He	2682.645	ppb	3.2	40825.29	1.0797	Pulse	0.1000	3
Co	59	45	He	265.743	ppb	1.8	415108.18	10.9782	Pulse	0.5000	3
Ni	60	45	He	264.276	ppb	2.1	117806.06	3.1157	Pulse	0.5000	3
Cu	63	72	He	260.023	ppb	1.8	327248.27	5.1010	Pulse	0.5000	3
Zn	66	72	He	261.475	ppb	1.1	38307.79	0.5971	Pulse	0.5000	3
As	75	72	He	259.374	ppb	0.9	30713.88	0.4787	Pulse	0.5000	3
Sr	88	115	He	25.153	ppb	1.1	10777.24	0.2078	Pulse	0.1000	3
Mo	98	115	He	26.203	ppb	1.6	24149.05	0.4656	Pulse	0.1000	3
Ag	107	115	He	25.378	ppb	1.7	48462.40	0.9345	Pulse	0.1000	3
Cd	111	115	He	26.213	ppb	2.5	5578.36	0.1076	Pulse	0.5000	3
Sn	120	115	He	25.559	ppb	1.2	17253.35	0.3327	Pulse	0.1000	3
Sb	121	115	He	25.834	ppb	0.3	16157.41	0.3116	Pulse	0.3000	3
Ba	137	115	He	257.418	ppb	1.6	52098.83	1.0047	Pulse	0.1000	3
Tl	205	159	He	25.521	ppb	2.2	91676.76	0.4847	Pulse	0.1000	3
Pb	208	159	He	25.700	ppb	1.2	122572.46	0.6480	Pulse	0.1000	3
U	238	159	He	25.706	ppb	0.8	119382.10	0.6312	Pulse	0.1000	3

ISTD Table:

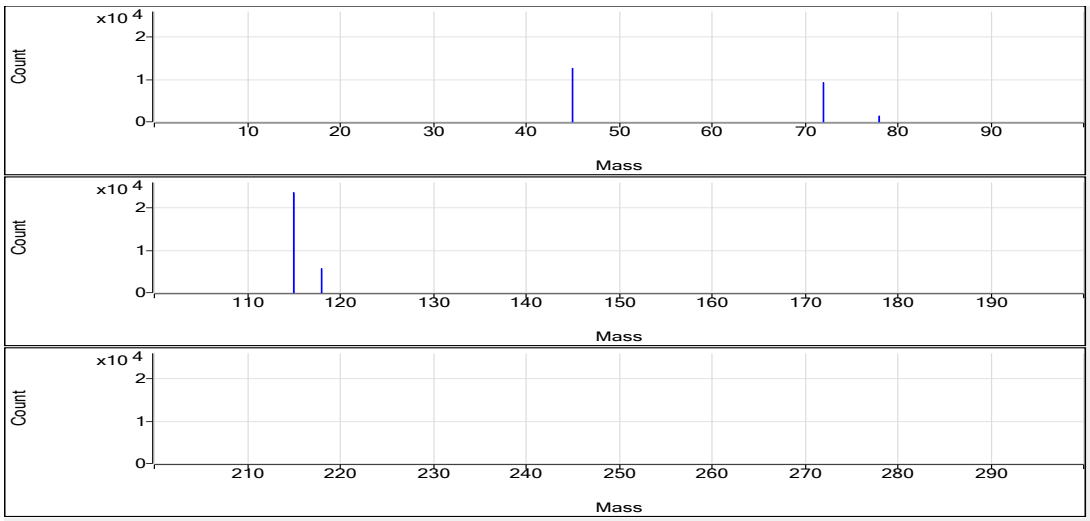
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1601446.85	1.2	93.7	Analog	0.1000	3
No Gas	Ge	72	796877.80	1.4	92.2	Pulse	0.1000	3
H2	Sc	45	126538.41	0.6	94.7	Pulse	0.1000	3
H2	Ge	72	92773.95	1.0	93.7	Pulse	0.1000	3
H2	In	115	236324.13	1.1	92.1	Pulse	0.1000	3
He	Sc	45	37821.04	2.0	95.8	Pulse	0.1000	3
He	Ge	72	64165.28	1.5	94.2	Pulse	0.1000	3
He	In	115	51859.92	1.0	93.6	Pulse	0.1000	3
He	Tb	159	189144.61	0.0	92.4	Pulse	0.1000	3
He	Bi	209	137550.57	1.7	90.9	Pulse	0.1000	3

No Gas

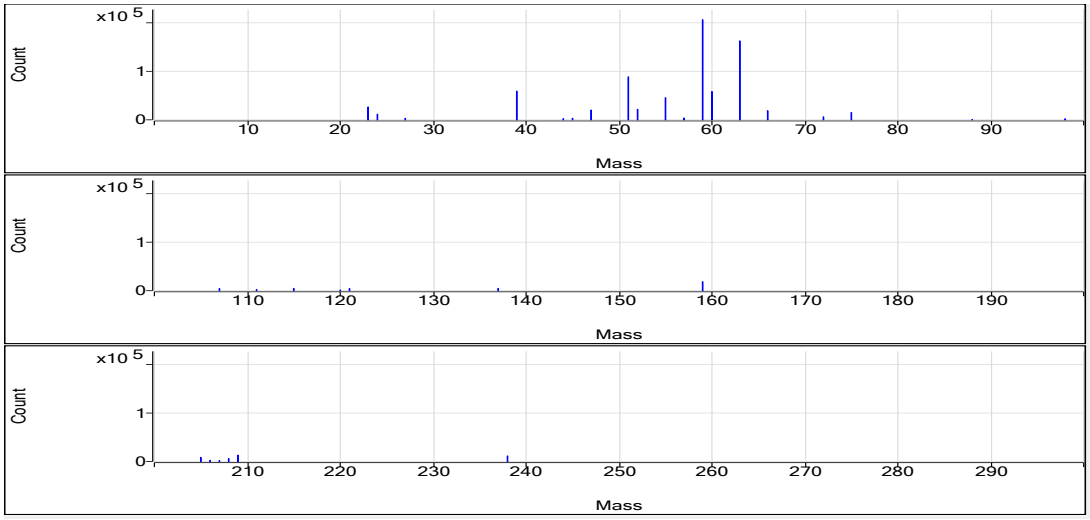


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	24.332	0.0082	13297.26	0.0003	2.616E-05
Be	9	1	No Gas	25.486	0.0086	13813.66	0.0003	2.616E-05
Be	9	1	No Gas	26.957	0.0091	14378.13	0.0003	2.616E-05
Se	78	2	H2	27.15	0.0106	988.03	0.0004	6.3E-05
Se	78	2	H2	25.12	0.0098	915.36	0.0004	6.3E-05
Se	78	2	H2	24.889	0.0097	890.69	0.0004	6.3E-05
Na	23	3	He	2609.993	7.2562	268352.59	0.0025	0.7502
Na	23	3	He	2566.72	7.1483	271669.51	0.0025	0.7502
Na	23	3	He	2486.264	6.9478	267320.19	0.0025	0.7502
Mg	24	3	He	2690.405	3.2839	121448.24	0.0012	0.02618
Mg	24	3	He	2641.813	3.2251	122568.55	0.0012	0.02618
Mg	24	3	He	2602.056	3.1769	122235.45	0.0012	0.02618
Al	27	3	He	2680.018	1.016	37573.16	0.0004	0.005329
Al	27	3	He	2606.171	0.9881	37553.21	0.0004	0.005329
Al	27	3	He	2578.231	0.9776	37613.27	0.0004	0.005329
K	39	3	He	2789.451	3.3005	122059.49	0.001	0.5307
K	39	3	He	2614.491	3.1267	118830.36	0.001	0.5307
K	39	3	He	2557.23	3.0699	118115.59	0.001	0.5307
Ca	44	3	He	2746.486	0.149	5510.95	0.0001	0.004441
Ca	44	3	He	2566.353	0.1395	5302.89	0.0001	0.004441
Ca	44	3	He	2588.227	0.1407	5412.92	0.0001	0.004441
Ti	47	3	He	2702.43	1.1057	40890.59	0.0004	0.0004559
Ti	47	3	He	2647.913	1.0834	41173.32	0.0004	0.0004559
Ti	47	3	He	2636.886	1.0789	41510.13	0.0004	0.0004559
V	51	3	He	270.743	4.788	177074.42	0.0176	0.02609
V	51	3	He	267.19	4.7255	179593.17	0.0176	0.02609
V	51	3	He	262.482	4.6428	178633.42	0.0176	0.02609
Cr	52	3	He	269.895	5.914	218714.96	0.0217	0.05061
Cr	52	3	He	267.956	5.8719	223158.49	0.0217	0.05061
Cr	52	3	He	268.72	5.8885	226562.77	0.0217	0.05061
Mn	55	3	He	271.282	2.4833	91839.74	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	264.291	2.4196	91956.32	0.0091	0.01071
Mn	55	3	He	262.257	2.4011	92382.78	0.0091	0.01071
Fe	57	3	He	2767.373	1.1136	41182.66	0.0004	0.008452
Fe	57	3	He	2594.615	1.0446	39698.93	0.0004	0.008452
Fe	57	3	He	2685.948	1.0811	41594.28	0.0004	0.008452
Co	59	3	He	270.633	11.1801	413468.34	0.0413	0.006013
Co	59	3	He	265.409	10.9644	416697.91	0.0413	0.006013
Co	59	3	He	261.189	10.7901	415158.28	0.0413	0.006013
Ni	60	3	He	269.707	3.1795	117584.57	0.0117	0.01172
Ni	60	3	He	264.389	3.117	118460.68	0.0117	0.01172
Ni	60	3	He	258.733	3.0506	117372.93	0.0117	0.01172
Cu	63	3	He	260.792	5.1161	326390.56	0.0196	0.01443
Cu	63	3	He	254.929	5.0014	326501.03	0.0196	0.01443
Cu	63	3	He	264.347	5.1856	328853.22	0.0196	0.01443
Zn	66	3	He	264.249	0.6034	38493.59	0.0023	0.002807
Zn	66	3	He	258.424	0.5901	38525.57	0.0023	0.002807
Zn	66	3	He	261.753	0.5977	37904.21	0.0023	0.002807
As	75	3	He	260.059	0.48	30621.02	0.0018	0.001271
As	75	3	He	256.678	0.4738	30927.63	0.0018	0.001271
As	75	3	He	261.384	0.4824	30593.00	0.0018	0.001271
Sr	88	3	He	24.944	0.2061	10573.77	0.0082	0.00114
Sr	88	3	He	25.468	0.2104	10994.06	0.0082	0.00114
Sr	88	3	He	25.046	0.2069	10763.89	0.0082	0.00114
Mo	98	3	He	25.751	0.4576	23478.01	0.0177	0.001504
Mo	98	3	He	26.591	0.4725	24689.93	0.0177	0.001504
Mo	98	3	He	26.267	0.4667	24279.22	0.0177	0.001504
Ag	107	3	He	25.482	0.9384	48144.72	0.0368	0.001325
Ag	107	3	He	24.915	0.9175	47944.27	0.0368	0.001325
Ag	107	3	He	25.736	0.9477	49298.22	0.0368	0.001325
Cd	111	3	He	26.98	0.1107	5681.06	0.0041	4.798E-05
Cd	111	3	He	25.865	0.1062	5547.02	0.0041	4.798E-05
Cd	111	3	He	25.795	0.1059	5507.01	0.0041	4.798E-05
Sn	120	3	He	25.39	0.3306	16959.61	0.0126	0.01097
Sn	120	3	He	25.918	0.3372	17620.31	0.0126	0.01097
Sn	120	3	He	25.368	0.3303	17180.12	0.0126	0.01097
Sb	121	3	He	25.769	0.3108	15944.93	0.012	0.0003595
Sb	121	3	He	25.8	0.3111	16258.68	0.012	0.0003595
Sb	121	3	He	25.933	0.3128	16268.63	0.012	0.0003595
Ba	137	3	He	261.371	1.0201	52339.51	0.0039	0.0003633
Ba	137	3	He	252.936	0.9872	51586.96	0.0039	0.0003633
Ba	137	3	He	257.948	1.0068	52370.02	0.0039	0.0003633
Tl	205	3	He	26.153	0.4967	93961.01	0.0189	0.001334
Tl	205	3	He	25.125	0.4772	90237.44	0.0189	0.001334
Tl	205	3	He	25.284	0.4802	90831.84	0.0189	0.001334
Pb	208	3	He	25.75	0.6493	65317.37	0.0252	0.001497
Pb	208	3	He	25.972	0.6549	66662.59	0.0252	0.001497
Pb	208	3	He	25.377	0.6399	65055.47	0.0252	0.001497
U	238	3	He	25.498	0.6261	118437.63	0.0245	0.0001141
U	238	3	He	25.906	0.6361	120282.39	0.0245	0.0001141
U	238	3	He	25.715	0.6314	119426.29	0.0245	0.0001141
Sc	45	1	No Gas			1618582.79		
Sc	45	1	No Gas			1605559.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1580198.57		
Ge	72	1	No Gas			808193.11		
Ge	72	1	No Gas			796372.57		
Ge	72	1	No Gas			786067.72		
Sc	45	2	H2			126836.17		
Sc	45	2	H2			125618.72		
Sc	45	2	H2			127160.35		
Ge	72	2	H2			93280.60		
Ge	72	2	H2			93360.65		
Ge	72	2	H2			91680.61		
In	115	2	H2			238834.66		
In	115	2	H2			236601.27		
In	115	2	H2			233536.46		
Sc	45	3	He			36982.64		
Sc	45	3	He			38004.72		
Sc	45	3	He			38475.77		
Ge	72	3	He			63797.06		
Ge	72	3	He			65282.28		
Ge	72	3	He			63416.49		
In	115	3	He			51425.54		
In	115	3	He			52378.40		
In	115	3	He			52138.14		
Tb	159	3	He			189181.62		
Tb	159	3	He			189099.88		
Tb	159	3	He			189152.32		
Bi	209	3	He			140187.73		
Bi	209	3	He			136382.84		
Bi	209	3	He			136081.15		

Quantitation Report

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Sample Type	CCB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

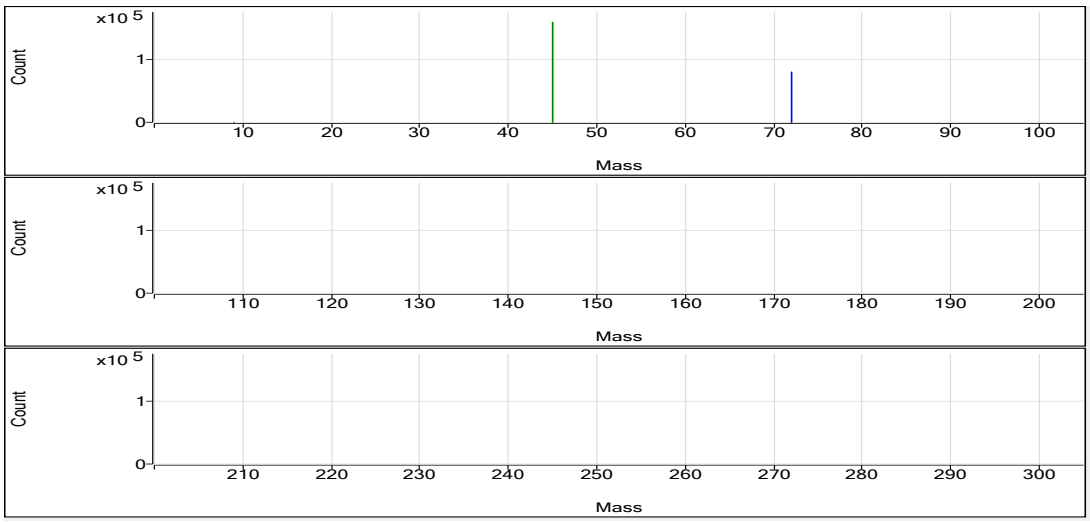
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.020	ppb	108.5	52.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.107	ppb	N/A	2.00	0.0000	Pulse	1.5000	3
Na	23	45	He	-91.562	ppb	N/A	19401.72	0.5219	Pulse	0.1000	3
Mg	24	45	He	-8.438	ppb	N/A	593.36	0.0160	Pulse	0.1000	3
Al	27	45	He	3.178	ppb	161.8	243.35	0.0065	Pulse	0.1000	3
K	39	45	He	14.373	ppb	606.3	20189.83	0.5449	Pulse	0.5000	3
Ca	44	45	He	-9.672	ppb	N/A	146.00	0.0039	Pulse	0.5000	3
Ti	47	45	He	0.026	ppb	1525.2	17.33	0.0005	Pulse	0.5000	3
V	51	45	He	-0.013	ppb	N/A	960.03	0.0259	Pulse	0.5000	3
Cr	52	45	He	-0.183	ppb	N/A	1736.81	0.0466	Pulse	0.1000	3
Mn	55	45	He	-0.187	ppb	N/A	334.67	0.0090	Pulse	0.5000	3
Fe	57	45	He	-11.050	ppb	N/A	150.01	0.0040	Pulse	0.1000	3
Co	59	45	He	0.010	ppb	154.4	238.67	0.0064	Pulse	0.5000	3
Ni	60	45	He	-0.096	ppb	N/A	392.68	0.0106	Pulse	0.5000	3
Cu	63	72	He	-0.282	ppb	N/A	568.68	0.0089	Pulse	0.5000	3
Zn	66	72	He	0.117	ppb	121.4	196.00	0.0031	Pulse	0.5000	3
As	75	72	He	1.079	ppb	13.7	208.00	0.0033	Pulse	0.5000	3
Sr	88	115	He	-0.092	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Mo	98	115	He	-0.041	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Ag	107	115	He	-0.013	ppb	N/A	43.33	0.0008	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.131	ppb	N/A	480.03	0.0093	Pulse	0.1000	3
Sb	121	115	He	0.038	ppb	20.7	42.22	0.0008	Pulse	0.3000	3
Ba	137	115	He	0.106	ppb	1.1	40.00	0.0008	Pulse	0.1000	3
Tl	205	159	He	-0.007	ppb	N/A	223.34	0.0012	Pulse	0.1000	3
Pb	208	159	He	-0.009	ppb	N/A	236.67	0.0013	Pulse	0.1000	3
U	238	159	He	0.009	ppb	55.2	63.33	0.0003	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1587866.02	2.3	92.9	Analog	0.1000	3
No Gas	Ge	72	799221.76	0.2	92.5	Pulse	0.1000	3
H2	Sc	45	125913.32	0.7	94.2	Pulse	0.1000	3
H2	Ge	72	92756.89	1.8	93.6	Pulse	0.1000	3
H2	In	115	236141.46	0.6	92.0	Pulse	0.1000	3
He	Sc	45	37186.15	3.5	94.2	Pulse	0.1000	3
He	Ge	72	63800.10	1.4	93.7	Pulse	0.1000	3
He	In	115	51576.22	0.6	93.1	Pulse	0.1000	3
He	Tb	159	184936.83	0.3	90.3	Pulse	0.1000	3
He	Bi	209	138206.95	0.4	91.4	Pulse	0.1000	3

No Gas



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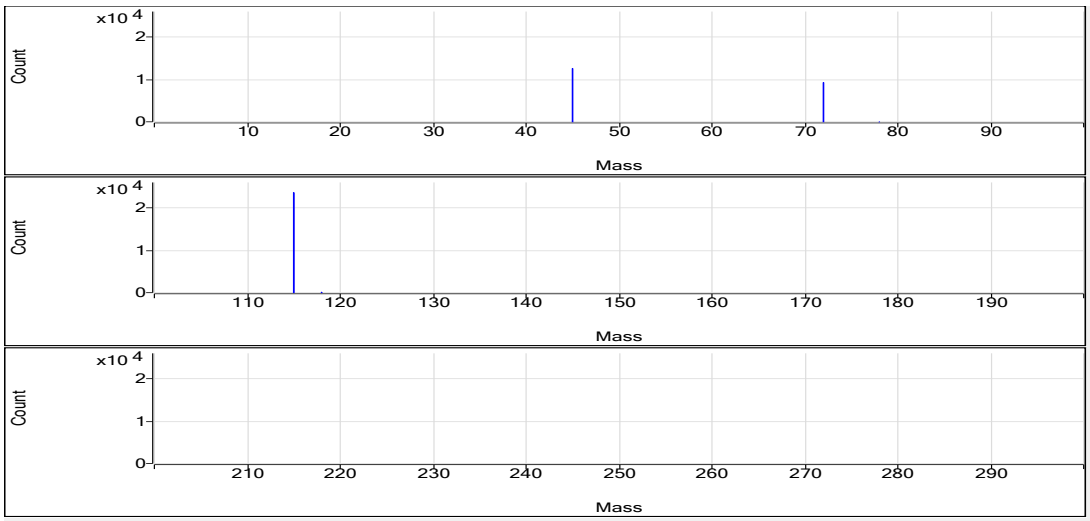
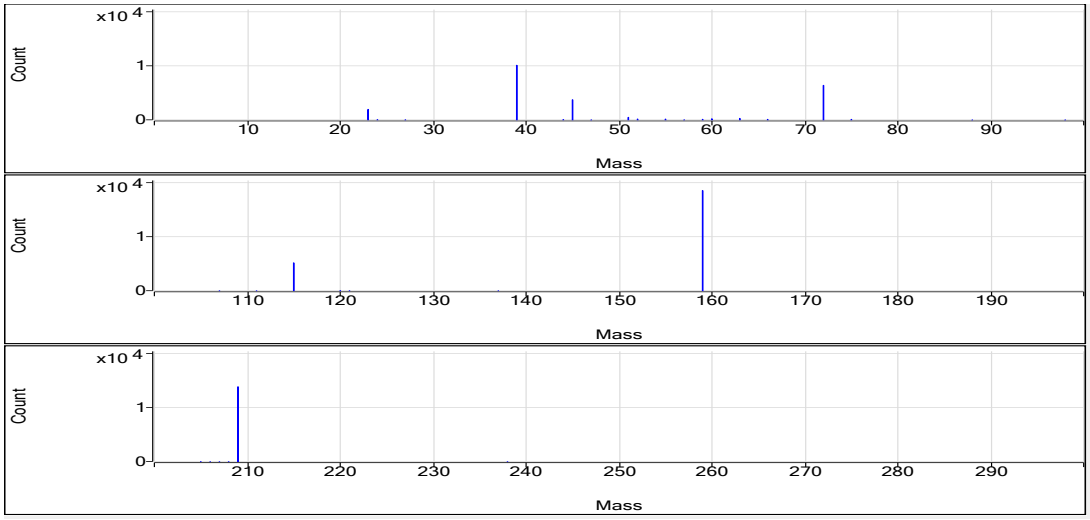


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.04	0	62.00	0.0003	2.616E-05
Be	9	1	No Gas	0.021	0	54.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.002	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.126	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.107	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.087	0	2.67	0.0004	6.3E-05
Na	23	3	He	-87.718	0.5315	18991.31	0.0025	0.7502
Na	23	3	He	-92.536	0.5195	19561.74	0.0025	0.7502
Na	23	3	He	-94.433	0.5148	19652.10	0.0025	0.7502
Mg	24	3	He	-7.985	0.0165	590.03	0.0012	0.02618
Mg	24	3	He	-9.12	0.0151	570.03	0.0012	0.02618
Mg	24	3	He	-8.209	0.0162	620.03	0.0012	0.02618
Al	27	3	He	-0.03	0.0053	190.01	0.0004	0.005329
Al	27	3	He	9.11	0.0088	330.02	0.0004	0.005329
Al	27	3	He	0.456	0.0055	210.01	0.0004	0.005329
K	39	3	He	111.496	0.6414	22916.01	0.001	0.5307
K	39	3	He	-11.389	0.5194	19555.59	0.001	0.5307
K	39	3	He	-56.988	0.4741	18097.89	0.001	0.5307
Ca	44	3	He	-1.42	0.0044	156.00	0.0001	0.004441
Ca	44	3	He	-25.839	0.0031	116.00	0.0001	0.004441
Ca	44	3	He	-1.757	0.0043	166.00	0.0001	0.004441
Ti	47	3	He	-0.02	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.444	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	-0.346	0.0003	12.00	0.0004	0.0004559
V	51	3	He	0.111	0.028	1002.04	0.0176	0.02609
V	51	3	He	-0.067	0.0249	938.03	0.0176	0.02609
V	51	3	He	-0.084	0.0246	940.03	0.0176	0.02609
Cr	52	3	He	-0.307	0.0439	1570.12	0.0217	0.05061
Cr	52	3	He	-0.41	0.0417	1570.12	0.0217	0.05061
Cr	52	3	He	0.167	0.0542	2070.20	0.0217	0.05061
Mn	55	3	He	-0.186	0.009	322.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.074	0.01	378.01	0.0091	0.01071
Mn	55	3	He	-0.301	0.008	304.00	0.0091	0.01071
Fe	57	3	He	-10.652	0.0042	150.01	0.0004	0.008452
Fe	57	3	He	-9.86	0.0045	170.01	0.0004	0.008452
Fe	57	3	He	-12.638	0.0034	130.00	0.0004	0.008452
Co	59	3	He	0.025	0.0071	252.00	0.0413	0.006013
Co	59	3	He	0.011	0.0065	244.00	0.0413	0.006013
Co	59	3	He	-0.006	0.0058	220.00	0.0413	0.006013
Ni	60	3	He	-0.011	0.0116	414.01	0.0117	0.01172
Ni	60	3	He	-0.039	0.0113	424.01	0.0117	0.01172
Ni	60	3	He	-0.239	0.0089	340.01	0.0117	0.01172
Cu	63	3	He	-0.248	0.0096	602.01	0.0196	0.01443
Cu	63	3	He	-0.277	0.009	578.01	0.0196	0.01443
Cu	63	3	He	-0.321	0.0082	526.01	0.0196	0.01443
Zn	66	3	He	0.11	0.0031	192.00	0.0023	0.002807
Zn	66	3	He	0.262	0.0034	218.00	0.0023	0.002807
Zn	66	3	He	-0.021	0.0028	178.00	0.0023	0.002807
As	75	3	He	0.918	0.003	186.00	0.0018	0.001271
As	75	3	He	1.209	0.0035	224.00	0.0018	0.001271
As	75	3	He	1.111	0.0033	214.00	0.0018	0.001271
Sr	88	3	He	-0.091	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.092	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.091	0.0004	20.00	0.0082	0.00114
Mo	98	3	He	-0.03	0.001	50.00	0.0177	0.001504
Mo	98	3	He	-0.02	0.0012	60.00	0.0177	0.001504
Mo	98	3	He	-0.074	0.0002	10.00	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.052	0.0103	530.03	0.0126	0.01097
Sn	120	3	He	-0.213	0.0083	430.02	0.0126	0.01097
Sn	120	3	He	-0.129	0.0093	480.03	0.0126	0.01097
Sb	121	3	He	0.04	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.045	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	0.106	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.104	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.106	0.0008	40.00	0.0039	0.0003633
Tl	205	3	He	-0.008	0.0012	220.01	0.0189	0.001334
Tl	205	3	He	-0.011	0.0011	210.01	0.0189	0.001334
Tl	205	3	He	-0.002	0.0013	240.01	0.0189	0.001334
Pb	208	3	He	0.009	0.0017	150.01	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	100.00	0.0252	0.001497
Pb	208	3	He	-0.023	0.0009	100.00	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.015	0.0005	90.00	0.0245	0.0001141
Sc	45	1	No Gas			1560290.76		
Sc	45	1	No Gas			1629552.94		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1573754.35		
Ge	72	1	No Gas			797550.53		
Ge	72	1	No Gas			800541.00		
Ge	72	1	No Gas			799573.74		
Sc	45	2	H2			126948.88		
Sc	45	2	H2			125516.56		
Sc	45	2	H2			125274.52		
Ge	72	2	H2			93973.18		
Ge	72	2	H2			93430.57		
Ge	72	2	H2			90866.92		
In	115	2	H2			237696.11		
In	115	2	H2			235717.73		
In	115	2	H2			235010.54		
Sc	45	3	He			35729.64		
Sc	45	3	He			37653.73		
Sc	45	3	He			38175.08		
Ge	72	3	He			62812.54		
Ge	72	3	He			64067.80		
Ge	72	3	He			64519.96		
In	115	3	He			51395.73		
In	115	3	He			51927.81		
In	115	3	He			51415.21		
Tb	159	3	He			185183.65		
Tb	159	3	He			185334.76		
Tb	159	3	He			184292.07		
Bi	209	3	He			138706.38		
Bi	209	3	He			138360.73		
Bi	209	3	He			137553.75		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

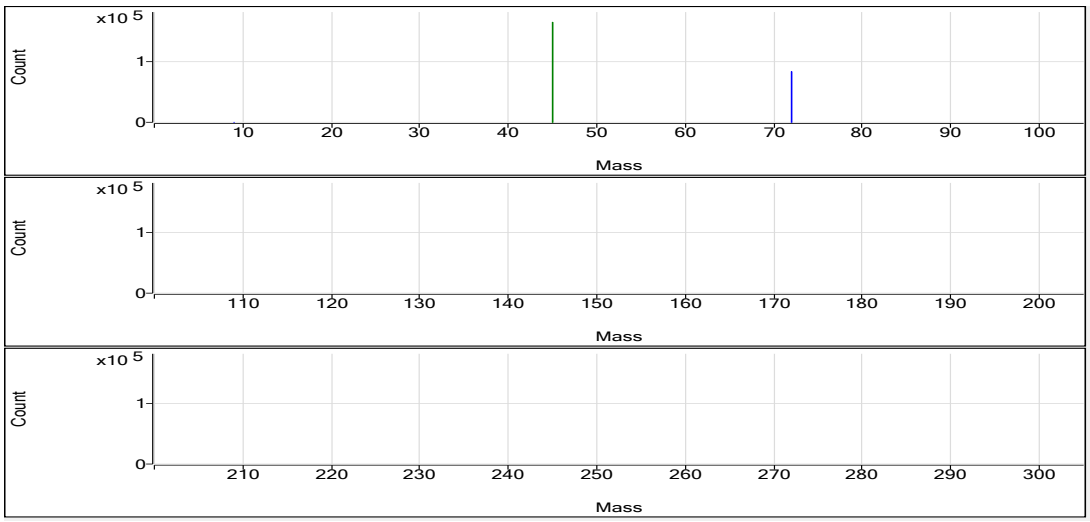
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.003	ppb	354.3	44.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.010	ppb	N/A	5.78	0.0001	Pulse	1.5000	3
Na	23	45	He	6769.085	ppb	1.9	677443.53	17.6236	Pulse	0.1000	3
Mg	24	45	He	10357.570	ppb	1.2	483147.15	12.5679	Pulse	0.1000	3
Al	27	45	He	7.507	ppb	36.2	313.34	0.0082	Pulse	0.1000	3
K	39	45	He	633.181	ppb	14.1	44536.45	1.1594	Pulse	0.5000	3
Ca	44	45	He	22799.583	ppb	2.0	46303.41	1.2046	Pulse	0.5000	3
Ti	47	45	He	-0.050	ppb	N/A	16.67	0.0004	Pulse	0.5000	3
V	51	45	He	0.043	ppb	151.9	1032.04	0.0269	Pulse	0.5000	3
Cr	52	45	He	0.248	ppb	107.6	2150.22	0.0560	Pulse	0.1000	3
Mn	55	45	He	1.127	ppb	7.7	806.69	0.0210	Pulse	0.5000	3
Fe	57	45	He	11.133	ppb	40.7	496.69	0.0129	Pulse	0.1000	3
Co	59	45	He	-0.025	ppb	N/A	192.00	0.0050	Pulse	0.5000	3
Ni	60	45	He	-0.089	ppb	N/A	409.34	0.0107	Pulse	0.5000	3
Cu	63	72	He	0.522	ppb	7.7	1659.43	0.0246	Pulse	0.5000	3
Zn	66	72	He	4.888	ppb	2.3	936.70	0.0139	Pulse	0.5000	3
As	75	72	He	1.111	ppb	13.7	223.33	0.0033	Pulse	0.5000	3
Sr	88	115	He	48.393	ppb	0.0	20470.42	0.3987	Pulse	0.1000	3
Mo	98	115	He	-0.015	ppb	N/A	63.33	0.0012	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	1113.8	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.269	ppb	33.5	736.70	0.0143	Pulse	0.1000	3
Sb	121	115	He	0.031	ppb	50.2	37.78	0.0007	Pulse	0.3000	3
Ba	137	115	He	7.833	ppb	9.1	1586.81	0.0309	Pulse	0.1000	3
Tl	205	159	He	-0.033	ppb	N/A	136.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	0.076	ppb	24.5	646.70	0.0034	Pulse	0.1000	3
U	238	159	He	0.041	ppb	25.7	213.34	0.0011	Pulse	0.1000	3

ISTD Table:

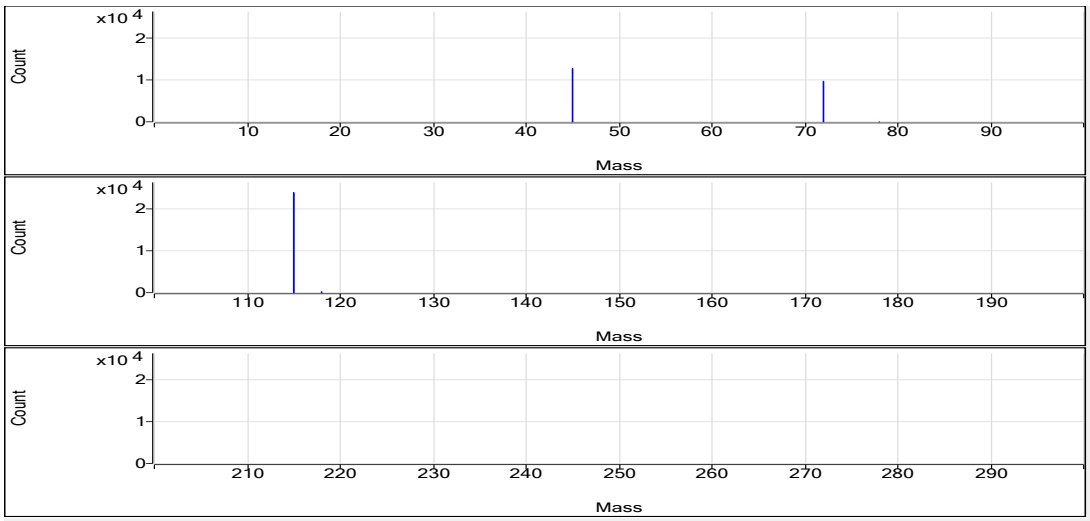
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1646410.50	1.2	96.4	Analog	0.1000	3
No Gas	Ge	72	834729.34	0.1	96.6	Pulse	0.1000	3
H2	Sc	45	128029.68	1.1	95.8	Pulse	0.1000	3
H2	Ge	72	97692.53	0.6	98.6	Pulse	0.1000	3
H2	In	115	240546.26	0.5	93.7	Pulse	0.1000	3
He	Sc	45	38448.92	2.1	97.4	Pulse	0.1000	3
He	Ge	72	67318.02	0.9	98.8	Pulse	0.1000	3
He	In	115	51336.84	1.0	92.7	Pulse	0.1000	3
He	Tb	159	189715.64	1.2	92.6	Pulse	0.1000	3
He	Bi	209	140471.58	0.1	92.9	Pulse	0.1000	3

No Gas

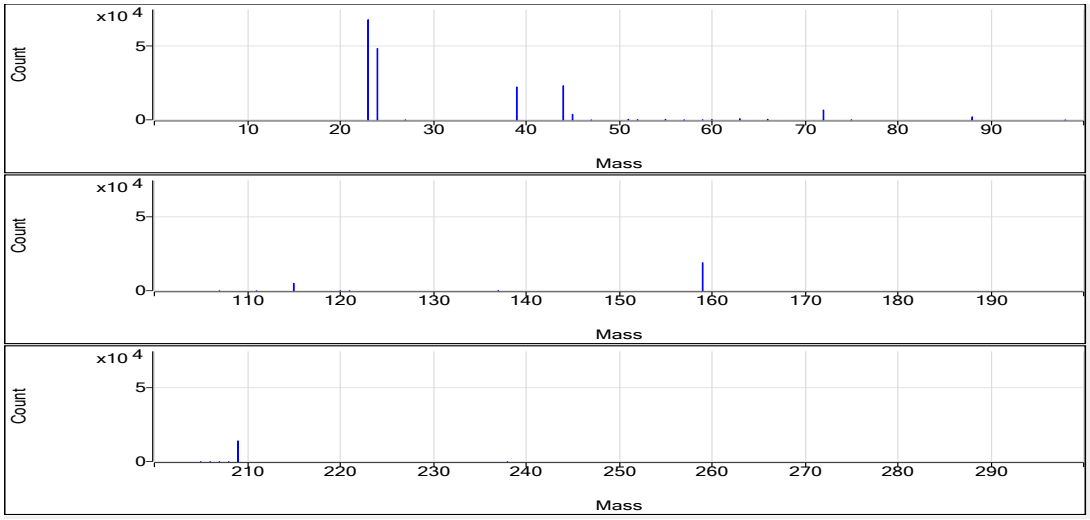


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.008	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.009	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	0.01	0	48.00	0.0003	2.616E-05
Se	78	2	H2	-0.003	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.057	0	4.00	0.0004	6.3E-05
Se	78	2	H2	0.031	0.0001	7.33	0.0004	6.3E-05
Na	23	3	He	6861.359	17.8537	675298.58	0.0025	0.7502
Na	23	3	He	6821.849	17.7552	677980.69	0.0025	0.7502
Na	23	3	He	6624.047	17.2621	679051.32	0.0025	0.7502
Mg	24	3	He	10419.913	12.6434	478224.99	0.0012	0.02618
Mg	24	3	He	10437.261	12.6644	483589.72	0.0012	0.02618
Mg	24	3	He	10215.535	12.3959	487626.75	0.0012	0.02618
Al	27	3	He	7.602	0.0082	310.01	0.0004	0.005329
Al	27	3	He	10.174	0.0092	350.01	0.0004	0.005329
Al	27	3	He	4.743	0.0071	280.01	0.0004	0.005329
K	39	3	He	731.683	1.2572	47552.02	0.001	0.5307
K	39	3	He	609.965	1.1363	43390.64	0.001	0.5307
K	39	3	He	557.896	1.0846	42666.69	0.001	0.5307
Ca	44	3	He	23080.514	1.2194	46122.24	0.0001	0.004441
Ca	44	3	He	23031.246	1.2168	46463.25	0.0001	0.004441
Ca	44	3	He	22286.99	1.1776	46324.73	0.0001	0.004441
Ti	47	3	He	0.308	0.0006	22.00	0.0004	0.0004559
Ti	47	3	He	-0.09	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	-0.369	0.0003	12.00	0.0004	0.0004559
V	51	3	He	0.113	0.0281	1062.04	0.0176	0.02609
V	51	3	He	0.035	0.0267	1020.04	0.0176	0.02609
V	51	3	He	-0.018	0.0258	1014.04	0.0176	0.02609
Cr	52	3	He	0.494	0.0613	2320.24	0.0217	0.05061
Cr	52	3	He	0.287	0.0568	2170.24	0.0217	0.05061
Cr	52	3	He	-0.036	0.0498	1960.17	0.0217	0.05061
Mn	55	3	He	1.221	0.0218	826.03	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.049	0.0203	774.02	0.0091	0.01071
Mn	55	3	He	1.112	0.0208	820.03	0.0091	0.01071
Fe	57	3	He	5.979	0.0108	410.02	0.0004	0.008452
Fe	57	3	He	12.937	0.0136	520.02	0.0004	0.008452
Fe	57	3	He	14.484	0.0142	560.03	0.0004	0.008452
Co	59	3	He	-0.021	0.0051	194.00	0.0413	0.006013
Co	59	3	He	-0.034	0.0046	176.00	0.0413	0.006013
Co	59	3	He	-0.019	0.0052	206.00	0.0413	0.006013
Ni	60	3	He	-0.007	0.0116	440.01	0.0117	0.01172
Ni	60	3	He	-0.025	0.0114	436.01	0.0117	0.01172
Ni	60	3	He	-0.236	0.0089	352.01	0.0117	0.01172
Cu	63	3	He	0.566	0.0255	1726.10	0.0196	0.01443
Cu	63	3	He	0.513	0.0245	1656.09	0.0196	0.01443
Cu	63	3	He	0.487	0.024	1596.09	0.0196	0.01443
Zn	66	3	He	4.837	0.0138	934.03	0.0023	0.002807
Zn	66	3	He	4.812	0.0137	930.03	0.0023	0.002807
Zn	66	3	He	5.015	0.0142	946.03	0.0023	0.002807
As	75	3	He	1.284	0.0036	246.00	0.0018	0.001271
As	75	3	He	0.995	0.0031	210.00	0.0018	0.001271
As	75	3	He	1.055	0.0032	214.00	0.0018	0.001271
Sr	88	3	He	48.403	0.3988	20643.91	0.0082	0.00114
Sr	88	3	He	48.374	0.3986	20523.94	0.0082	0.00114
Sr	88	3	He	48.401	0.3988	20243.42	0.0082	0.00114
Mo	98	3	He	0.002	0.0015	80.00	0.0177	0.001504
Mo	98	3	He	-0.03	0.001	50.00	0.0177	0.001504
Mo	98	3	He	-0.018	0.0012	60.00	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.372	0.0156	810.05	0.0126	0.01097
Sn	120	3	He	0.209	0.0136	700.03	0.0126	0.01097
Sn	120	3	He	0.225	0.0138	700.03	0.0126	0.01097
Sb	121	3	He	0.04	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.013	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.041	0.0009	43.33	0.012	0.0003595
Ba	137	3	He	7.731	0.0305	1580.13	0.0039	0.0003633
Ba	137	3	He	7.175	0.0284	1460.13	0.0039	0.0003633
Ba	137	3	He	8.593	0.0339	1720.18	0.0039	0.0003633
Tl	205	3	He	-0.032	0.0007	140.00	0.0189	0.001334
Tl	205	3	He	-0.018	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	0.084	0.0036	450.03	0.0252	0.001497
Pb	208	3	He	0.055	0.0029	360.02	0.0252	0.001497
Pb	208	3	He	0.089	0.0037	410.02	0.0252	0.001497
U	238	3	He	0.038	0.001	200.01	0.0245	0.0001141
U	238	3	He	0.053	0.0014	270.01	0.0245	0.0001141
U	238	3	He	0.032	0.0009	170.01	0.0245	0.0001141
Sc	45	1	No Gas			1669235.91		
Sc	45	1	No Gas			1639026.07		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1630969.51		
Ge	72	1	No Gas			834011.78		
Ge	72	1	No Gas			834120.46		
Ge	72	1	No Gas			836055.77		
Sc	45	2	H2			128227.83		
Sc	45	2	H2			129326.56		
Sc	45	2	H2			126534.65		
Ge	72	2	H2			97061.91		
Ge	72	2	H2			98078.77		
Ge	72	2	H2			97936.92		
In	115	2	H2			239321.23		
In	115	2	H2			241905.97		
In	115	2	H2			240411.58		
Sc	45	3	He			37824.10		
Sc	45	3	He			38184.97		
Sc	45	3	He			39337.69		
Ge	72	3	He			67683.25		
Ge	72	3	He			67672.36		
Ge	72	3	He			66598.44		
In	115	3	He			51766.77		
In	115	3	He			51495.66		
In	115	3	He			50763.56		
Tb	159	3	He			190531.29		
Tb	159	3	He			191419.68		
Tb	159	3	He			187195.95		
Bi	209	3	He			140492.13		
Bi	209	3	He			140582.40		
Bi	209	3	He			140340.22		

Quantitation Report

Data File Name	262SMPL.d
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Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

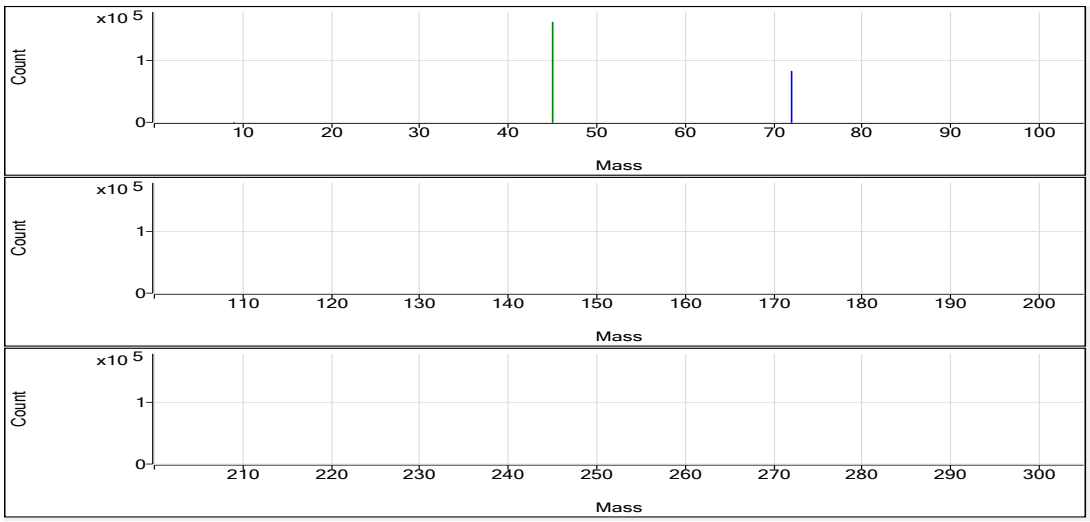
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.032	ppb	N/A	25.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.097	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	18245.599	ppb	1.5	1798613.51	46.2314	Analog	0.1000	3
Mg	24	45	He	28249.369	ppb	1.2	1331808.21	34.2326	Analog	0.1000	3
Al	27	45	He	2.897	ppb	56.6	250.01	0.0064	Pulse	0.1000	3
K	39	45	He	1014.831	ppb	6.3	59853.69	1.5383	Pulse	0.5000	3
Ca	44	45	He	76714.454	ppb	1.2	157270.73	4.0427	Pulse	0.5000	3
Ti	47	45	He	-0.107	ppb	N/A	16.00	0.0004	Pulse	0.5000	3
V	51	45	He	0.234	ppb	24.9	1175.39	0.0302	Pulse	0.5000	3
Cr	52	45	He	-0.652	ppb	N/A	1416.77	0.0364	Pulse	0.1000	3
Mn	55	45	He	2364.942	ppb	1.2	838989.04	21.5661	Pulse	0.5000	3
Fe	57	45	He	21.339	ppb	15.1	660.04	0.0170	Pulse	0.1000	3
Co	59	45	He	0.208	ppb	2.7	567.34	0.0146	Pulse	0.5000	3
Ni	60	45	He	0.690	ppb	8.8	771.36	0.0198	Pulse	0.5000	3
Cu	63	72	He	4.289	ppb	2.2	6605.37	0.0983	Pulse	0.5000	3
Zn	66	72	He	5.577	ppb	6.7	1039.37	0.0155	Pulse	0.5000	3
As	75	72	He	1.471	ppb	7.8	267.33	0.0040	Pulse	0.5000	3
Sr	88	115	He	142.392	ppb	1.8	60823.84	1.1711	Pulse	0.1000	3
Mo	98	115	He	0.154	ppb	48.7	220.01	0.0042	Pulse	0.1000	3
Ag	107	115	He	-0.019	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.189	ppb	25.2	42.67	0.0008	Pulse	0.5000	3
Sn	120	115	He	0.281	ppb	27.3	753.39	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.052	ppb	15.8	51.11	0.0010	Pulse	0.3000	3
Ba	137	115	He	25.275	ppb	5.5	5141.06	0.0990	Pulse	0.1000	3
Tl	205	159	He	-0.039	ppb	N/A	113.34	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.023	ppb	45.0	396.68	0.0021	Pulse	0.1000	3
U	238	159	He	0.298	ppb	12.7	1413.45	0.0074	Pulse	0.1000	3

ISTD Table:

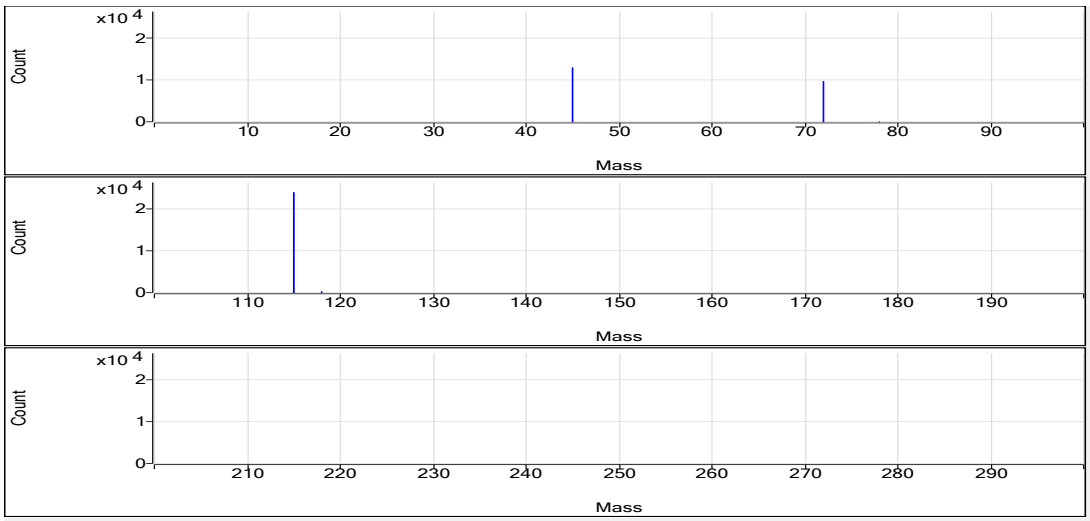
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1625077.48	1.3	95.1	Analog	0.1000	3
No Gas	Ge	72	830653.61	0.3	96.2	Pulse	0.1000	3
H2	Sc	45	128860.12	2.6	96.4	Pulse	0.1000	3
H2	Ge	72	96207.40	1.3	97.1	Pulse	0.1000	3
H2	In	115	238734.89	1.8	93.0	Pulse	0.1000	3
He	Sc	45	38906.71	1.3	98.6	Pulse	0.1000	3
He	Ge	72	67167.47	1.5	98.6	Pulse	0.1000	3
He	In	115	51938.61	0.2	93.7	Pulse	0.1000	3
He	Tb	159	189998.40	1.2	92.8	Pulse	0.1000	3
He	Bi	209	139696.67	0.5	92.4	Pulse	0.1000	3

No Gas

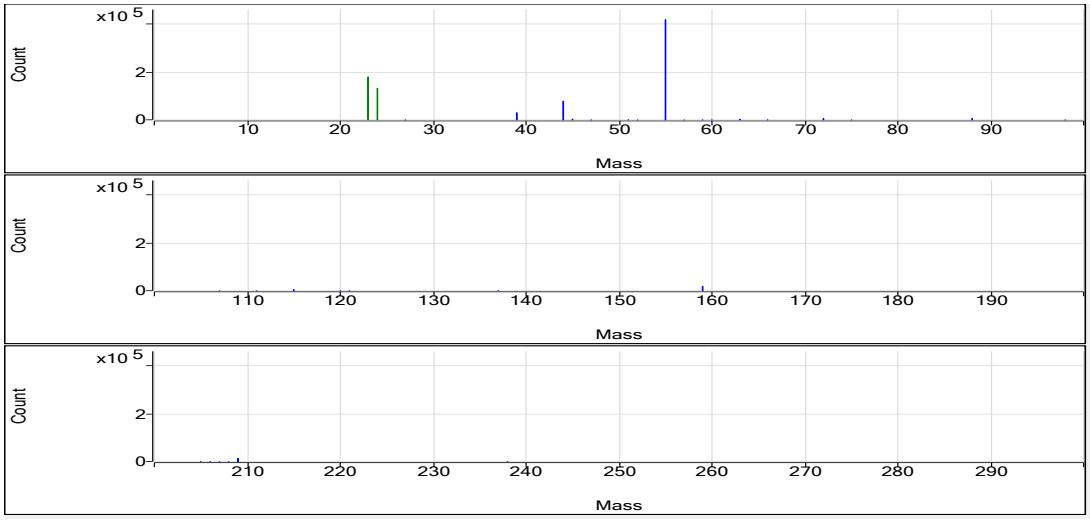


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.013	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.045	0	18.00	0.0003	2.616E-05
Se	78	2	H2	-0.056	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.162	0	0.00	0.0004	6.3E-05
Se	78	2	H2	-0.072	0	3.33	0.0004	6.3E-05
Na	23	3	He	17957.566	45.5134	1773068.41	0.0025	0.7502
Na	23	3	He	18293.143	46.3499	1825621.69	0.0025	0.7502
Na	23	3	He	18486.09	46.8309	1797150.44	0.0025	0.7502
Mg	24	3	He	27883.301	33.7894	1316333.57	0.0012	0.02618
Mg	24	3	He	28285.982	34.277	1350094.04	0.0012	0.02618
Mg	24	3	He	28578.825	34.6316	1328997.01	0.0012	0.02618
Al	27	3	He	4.247	0.0069	270.01	0.0004	0.005329
Al	27	3	He	3.373	0.0066	260.01	0.0004	0.005329
Al	27	3	He	1.071	0.0057	220.01	0.0004	0.005329
K	39	3	He	1088.485	1.6115	62778.32	0.001	0.5307
K	39	3	He	978.248	1.502	59161.09	0.001	0.5307
K	39	3	He	977.759	1.5015	57621.66	0.001	0.5307
Ca	44	3	He	76372.734	4.0247	156788.94	0.0001	0.004441
Ca	44	3	He	76035.978	4.0069	157824.39	0.0001	0.004441
Ca	44	3	He	77734.65	4.0964	157198.86	0.0001	0.004441
Ti	47	3	He	-0.361	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.246	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	0.287	0.0006	22.00	0.0004	0.0004559
V	51	3	He	0.195	0.0295	1150.05	0.0176	0.02609
V	51	3	He	0.301	0.0314	1236.06	0.0176	0.02609
V	51	3	He	0.205	0.0297	1140.05	0.0176	0.02609
Cr	52	3	He	-0.663	0.0362	1410.10	0.0217	0.05061
Cr	52	3	He	-0.763	0.034	1340.09	0.0217	0.05061
Cr	52	3	He	-0.53	0.0391	1500.11	0.0217	0.05061
Mn	55	3	He	2347.146	21.4039	833831.75	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2350.342	21.433	844199.06	0.0091	0.01071
Mn	55	3	He	2397.338	21.8614	838936.31	0.0091	0.01071
Fe	57	3	He	23.19	0.0177	690.04	0.0004	0.008452
Fe	57	3	He	17.618	0.0155	610.03	0.0004	0.008452
Fe	57	3	He	23.209	0.0177	680.04	0.0004	0.008452
Co	59	3	He	0.201	0.0143	558.01	0.0413	0.006013
Co	59	3	He	0.212	0.0148	582.01	0.0413	0.006013
Co	59	3	He	0.209	0.0146	562.01	0.0413	0.006013
Ni	60	3	He	0.672	0.0196	764.02	0.0117	0.01172
Ni	60	3	He	0.758	0.0206	812.03	0.0117	0.01172
Ni	60	3	He	0.64	0.0192	738.02	0.0117	0.01172
Cu	63	3	He	4.178	0.0962	6369.28	0.0196	0.01443
Cu	63	3	He	4.351	0.0996	6677.40	0.0196	0.01443
Cu	63	3	He	4.336	0.0993	6769.44	0.0196	0.01443
Zn	66	3	He	6.007	0.0165	1090.04	0.0023	0.002807
Zn	66	3	He	5.391	0.0151	1010.04	0.0023	0.002807
Zn	66	3	He	5.332	0.0149	1018.04	0.0023	0.002807
As	75	3	He	1.409	0.0039	256.00	0.0018	0.001271
As	75	3	He	1.399	0.0038	258.00	0.0018	0.001271
As	75	3	He	1.603	0.0042	288.00	0.0018	0.001271
Sr	88	3	He	139.512	1.1474	59552.65	0.0082	0.00114
Sr	88	3	He	144.273	1.1865	61760.63	0.0082	0.00114
Sr	88	3	He	143.39	1.1793	61158.23	0.0082	0.00114
Mo	98	3	He	0.198	0.005	260.01	0.0177	0.001504
Mo	98	3	He	0.197	0.005	260.01	0.0177	0.001504
Mo	98	3	He	0.067	0.0027	140.01	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	0.195	0.0008	44.00	0.0041	4.798E-05
Cd	111	3	He	0.138	0.0006	32.00	0.0041	4.798E-05
Cd	111	3	He	0.233	0.001	52.00	0.0041	4.798E-05
Sn	120	3	He	0.231	0.0139	720.07	0.0126	0.01097
Sn	120	3	He	0.243	0.014	730.04	0.0126	0.01097
Sn	120	3	He	0.37	0.0156	810.05	0.0126	0.01097
Sb	121	3	He	0.045	0.0009	46.67	0.012	0.0003595
Sb	121	3	He	0.05	0.001	50.00	0.012	0.0003595
Sb	121	3	He	0.061	0.0011	56.67	0.012	0.0003595
Ba	137	3	He	24.208	0.0948	4920.97	0.0039	0.0003633
Ba	137	3	He	26.847	0.1051	5471.20	0.0039	0.0003633
Ba	137	3	He	24.771	0.097	5031.01	0.0039	0.0003633
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.037	0.0006	120.01	0.0189	0.001334
Pb	208	3	He	0.016	0.0019	210.01	0.0252	0.001497
Pb	208	3	He	0.035	0.0024	250.01	0.0252	0.001497
Pb	208	3	He	0.019	0.002	240.01	0.0252	0.001497
U	238	3	He	0.325	0.0081	1530.12	0.0245	0.0001141
U	238	3	He	0.315	0.0078	1510.14	0.0245	0.0001141
U	238	3	He	0.255	0.0064	1200.09	0.0245	0.0001141
Sc	45	1	No Gas			1614299.82		
Sc	45	1	No Gas			1649662.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1611269.82		
Ge	72	1	No Gas			831992.57		
Ge	72	1	No Gas			832016.24		
Ge	72	1	No Gas			827952.02		
Sc	45	2	H2			126535.27		
Sc	45	2	H2			132774.47		
Sc	45	2	H2			127270.63		
Ge	72	2	H2			96871.07		
Ge	72	2	H2			96982.37		
Ge	72	2	H2			94768.75		
In	115	2	H2			238615.07		
In	115	2	H2			243141.72		
In	115	2	H2			234447.87		
Sc	45	3	He			38957.03		
Sc	45	3	He			39387.79		
Sc	45	3	He			38375.31		
Ge	72	3	He			66226.48		
Ge	72	3	He			67070.65		
Ge	72	3	He			68205.28		
In	115	3	He			51907.17		
In	115	3	He			52057.27		
In	115	3	He			51867.20		
Tb	159	3	He			189067.75		
Tb	159	3	He			192502.77		
Tb	159	3	He			188424.67		
Bi	209	3	He			139875.25		
Bi	209	3	He			140279.07		
Bi	209	3	He			138935.69		

Quantitation Report

Data File Name	263SMPL.d
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Sample Name	410-229091-G-2-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

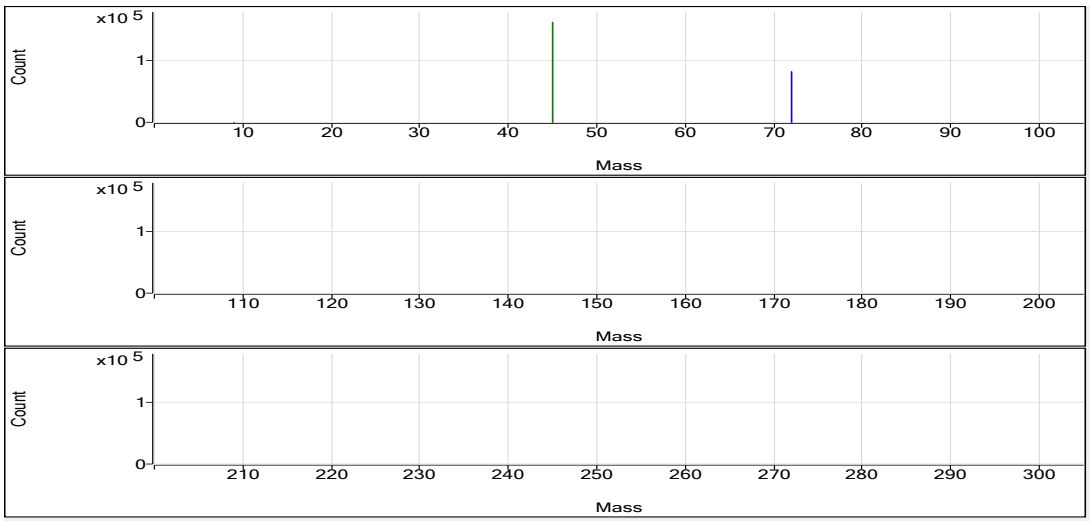
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.029	ppb	N/A	26.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.080	ppb	N/A	3.11	0.0000	Pulse	1.5000	3
Na	23	45	He	435.012	ppb	4.7	71637.65	1.8346	Pulse	0.1000	3
Mg	24	45	He	35.451	ppb	11.6	2696.97	0.0691	Pulse	0.1000	3
Al	27	45	He	21.608	ppb	13.0	526.69	0.0135	Pulse	0.1000	3
K	39	45	He	-11.204	ppb	N/A	20298.01	0.5195	Pulse	0.5000	3
Ca	44	45	He	254.375	ppb	7.6	696.02	0.0178	Pulse	0.5000	3
Ti	47	45	He	-0.654	ppb	N/A	7.33	0.0002	Pulse	0.5000	3
V	51	45	He	-0.230	ppb	N/A	861.36	0.0221	Pulse	0.5000	3
Cr	52	45	He	-0.501	ppb	N/A	1550.12	0.0397	Pulse	0.1000	3
Mn	55	45	He	1.513	ppb	19.4	957.37	0.0245	Pulse	0.5000	3
Fe	57	45	He	-8.958	ppb	N/A	190.01	0.0049	Pulse	0.1000	3
Co	59	45	He	-0.039	ppb	N/A	172.67	0.0044	Pulse	0.5000	3
Ni	60	45	He	-0.261	ppb	N/A	337.34	0.0086	Pulse	0.5000	3
Cu	63	72	He	-0.344	ppb	N/A	510.68	0.0077	Pulse	0.5000	3
Zn	66	72	He	0.427	ppb	58.4	250.00	0.0038	Pulse	0.5000	3
As	75	72	He	1.719	ppb	25.5	294.01	0.0044	Pulse	0.5000	3
Sr	88	115	He	0.140	ppb	48.1	120.00	0.0023	Pulse	0.1000	3
Mo	98	115	He	-0.049	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Ag	107	115	He	-0.026	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	-0.006	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	10.116	ppb	2.5	7248.58	0.1383	Pulse	0.1000	3
Sb	121	115	He	0.005	ppb	340.7	22.22	0.0004	Pulse	0.3000	3
Ba	137	115	He	0.069	ppb	173.5	33.33	0.0006	Pulse	0.1000	3
Tl	205	159	He	-0.044	ppb	N/A	96.67	0.0005	Pulse	0.1000	3
Pb	208	159	He	-0.017	ppb	N/A	203.34	0.0011	Pulse	0.1000	3
U	238	159	He	0.001	ppb	114.2	26.67	0.0001	Pulse	0.1000	3

ISTD Table:

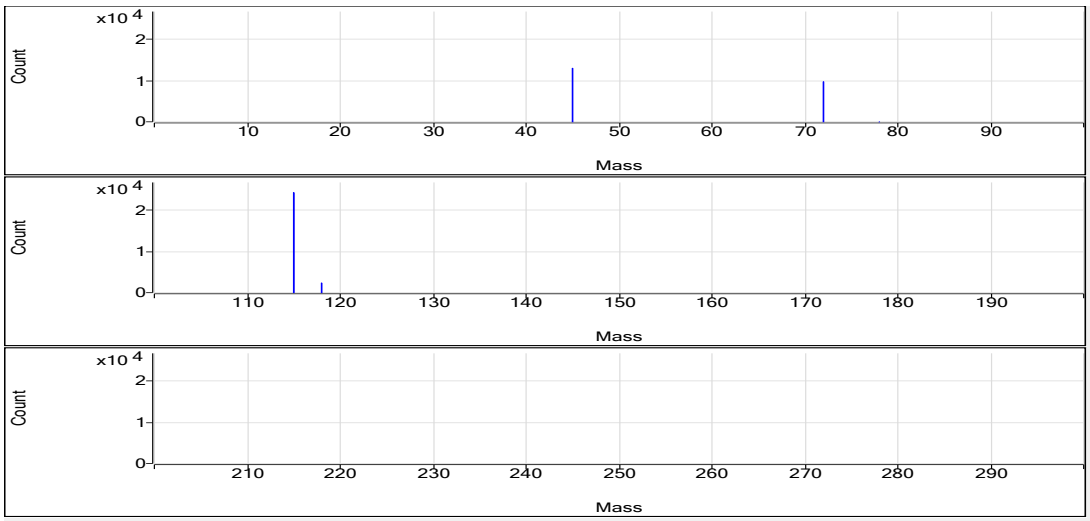
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1631236.69	1.2	95.5	Analog	0.1000	3
No Gas	Ge	72	825550.09	0.6	95.6	Pulse	0.1000	3
H2	Sc	45	130764.89	1.3	97.9	Pulse	0.1000	3
H2	Ge	72	97739.40	0.8	98.7	Pulse	0.1000	3
H2	In	115	243902.52	0.2	95.0	Pulse	0.1000	3
He	Sc	45	39060.69	1.9	99.0	Pulse	0.1000	3
He	Ge	72	66270.56	1.2	97.3	Pulse	0.1000	3
He	In	115	52418.44	2.3	94.6	Pulse	0.1000	3
He	Tb	159	190192.01	0.7	92.9	Pulse	0.1000	3
He	Bi	209	141204.97	0.1	93.3	Pulse	0.1000	3

No Gas

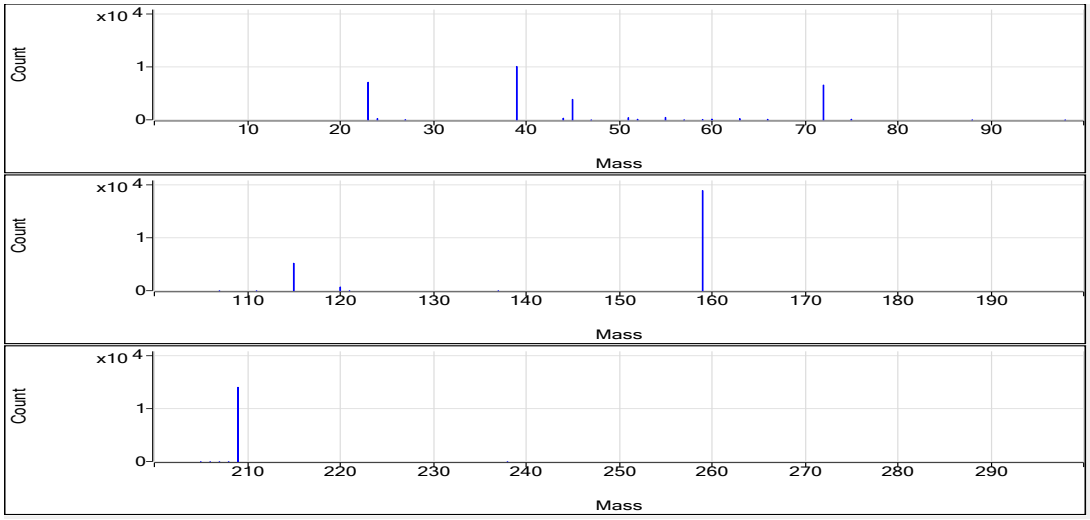


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.026	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.045	0	18.00	0.0003	2.616E-05
Se	78	2	H2	-0.074	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.11	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.056	0	4.00	0.0004	6.3E-05
Na	23	3	He	444.812	1.859	72848.98	0.0025	0.7502
Na	23	3	He	411.436	1.7758	70549.88	0.0025	0.7502
Na	23	3	He	448.789	1.8689	71514.08	0.0025	0.7502
Mg	24	3	He	34.652	0.0681	2670.30	0.0012	0.02618
Mg	24	3	He	31.806	0.0647	2570.28	0.0012	0.02618
Mg	24	3	He	39.894	0.0745	2850.33	0.0012	0.02618
Al	27	3	He	19.027	0.0125	490.02	0.0004	0.005329
Al	27	3	He	24.584	0.0146	580.04	0.0004	0.005329
Al	27	3	He	21.212	0.0133	510.02	0.0004	0.005329
K	39	3	He	61.448	0.5917	23186.44	0.001	0.5307
K	39	3	He	-47.642	0.4834	19203.21	0.001	0.5307
K	39	3	He	-47.418	0.4836	18504.37	0.001	0.5307
Ca	44	3	He	258.866	0.0181	708.02	0.0001	0.004441
Ca	44	3	He	233.15	0.0167	664.02	0.0001	0.004441
Ca	44	3	He	271.109	0.0187	716.02	0.0001	0.004441
Ti	47	3	He	-0.74	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.745	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.476	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.343	0.0201	786.02	0.0176	0.02609
V	51	3	He	-0.158	0.0233	926.03	0.0176	0.02609
V	51	3	He	-0.188	0.0228	872.03	0.0176	0.02609
Cr	52	3	He	-0.321	0.0436	1710.14	0.0217	0.05061
Cr	52	3	He	-0.788	0.0335	1330.09	0.0217	0.05061
Cr	52	3	He	-0.393	0.0421	1610.13	0.0217	0.05061
Mn	55	3	He	1.849	0.0276	1080.04	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.388	0.0234	928.03	0.0091	0.01071
Mn	55	3	He	1.302	0.0226	864.03	0.0091	0.01071
Fe	57	3	He	-9.024	0.0048	190.01	0.0004	0.008452
Fe	57	3	He	-11.08	0.004	160.01	0.0004	0.008452
Fe	57	3	He	-6.768	0.0057	220.01	0.0004	0.008452
Co	59	3	He	-0.053	0.0038	150.00	0.0413	0.006013
Co	59	3	He	-0.035	0.0046	182.00	0.0413	0.006013
Co	59	3	He	-0.028	0.0049	186.00	0.0413	0.006013
Ni	60	3	He	-0.207	0.0093	364.01	0.0117	0.01172
Ni	60	3	He	-0.367	0.0074	294.01	0.0117	0.01172
Ni	60	3	He	-0.21	0.0093	354.01	0.0117	0.01172
Cu	63	3	He	-0.324	0.0081	536.01	0.0196	0.01443
Cu	63	3	He	-0.358	0.0074	498.01	0.0196	0.01443
Cu	63	3	He	-0.349	0.0076	498.01	0.0196	0.01443
Zn	66	3	He	0.532	0.004	266.00	0.0023	0.002807
Zn	66	3	He	0.142	0.0031	210.00	0.0023	0.002807
Zn	66	3	He	0.606	0.0042	274.00	0.0023	0.002807
As	75	3	He	1.213	0.0035	232.00	0.0018	0.001271
As	75	3	He	1.997	0.0049	332.01	0.0018	0.001271
As	75	3	He	1.947	0.0049	318.01	0.0018	0.001271
Sr	88	3	He	0.069	0.0017	90.00	0.0082	0.00114
Sr	88	3	He	0.203	0.0028	150.01	0.0082	0.00114
Sr	88	3	He	0.147	0.0023	120.00	0.0082	0.00114
Mo	98	3	He	-0.053	0.0006	30.00	0.0177	0.001504
Mo	98	3	He	-0.064	0.0004	20.00	0.0177	0.001504
Mo	98	3	He	-0.03	0.001	50.00	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	10.363	0.1414	7452.01	0.0126	0.01097
Sn	120	3	He	9.865	0.1351	7221.91	0.0126	0.01097
Sn	120	3	He	10.12	0.1384	7071.82	0.0126	0.01097
Sb	121	3	He	0.023	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	-0.014	0.0002	10.00	0.012	0.0003595
Sb	121	3	He	0.008	0.0005	23.33	0.012	0.0003595
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.195	0.0011	60.00	0.0039	0.0003633
Ba	137	3	He	0.057	0.0006	30.00	0.0039	0.0003633
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	-0.003	0.0014	110.00	0.0252	0.001497
Pb	208	3	He	-0.03	0.0007	70.00	0.0252	0.001497
Pb	208	3	He	-0.018	0.001	120.00	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1608899.04		
Sc	45	1	No Gas			1646314.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1638496.85		
Ge	72	1	No Gas			823022.02		
Ge	72	1	No Gas			822436.78		
Ge	72	1	No Gas			831191.47		
Sc	45	2	H2			128864.37		
Sc	45	2	H2			132209.07		
Sc	45	2	H2			131221.23		
Ge	72	2	H2			97333.62		
Ge	72	2	H2			98651.38		
Ge	72	2	H2			97233.21		
In	115	2	H2			243647.75		
In	115	2	H2			244511.50		
In	115	2	H2			243548.30		
Sc	45	3	He			39187.66		
Sc	45	3	He			39728.91		
Sc	45	3	He			38265.50		
Ge	72	3	He			66216.66		
Ge	72	3	He			67100.65		
Ge	72	3	He			65494.38		
In	115	3	He			52750.70		
In	115	3	He			53492.18		
In	115	3	He			51164.65		
Tb	159	3	He			188930.37		
Tb	159	3	He			189960.84		
Tb	159	3	He			191684.82		
Bi	209	3	He			141177.71		
Bi	209	3	He			141361.62		
Bi	209	3	He			141075.58		

Quantitation Report

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Acq Time	7/10/2025 7:41:25 PM
Sample Name	410-229091-G-1-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

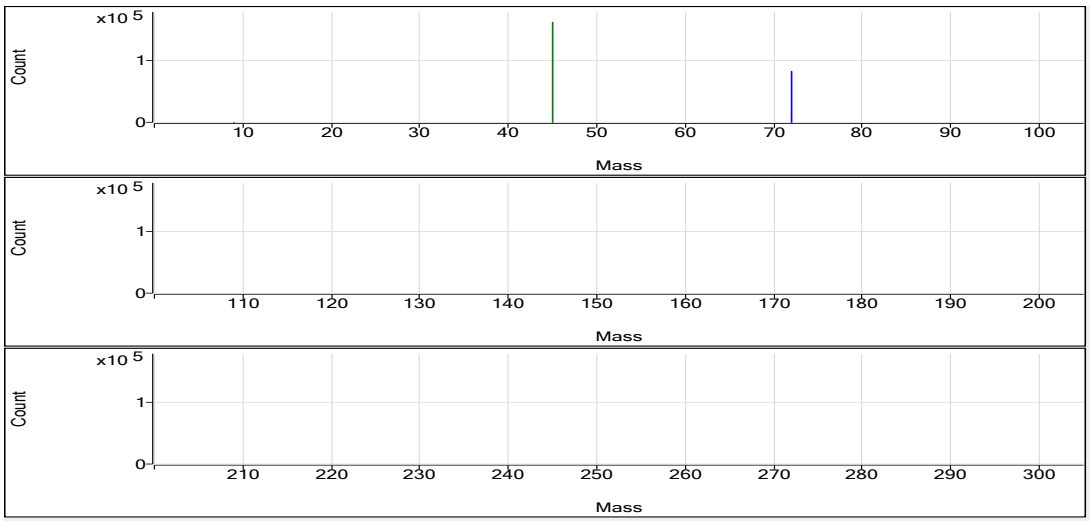
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.002	ppb	870.4	43.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.242	ppb	36.4	15.33	0.0002	Pulse	1.5000	3
Na	23	45	He	16306.521	ppb	1.2	1581670.91	41.3978	Analog	0.1000	3
Mg	24	45	He	29042.147	ppb	2.0	1344736.65	35.1926	Analog	0.1000	3
Al	27	45	He	22.194	ppb	31.7	523.37	0.0137	Pulse	0.1000	3
K	39	45	He	2044.139	ppb	3.5	97819.96	2.5604	Pulse	0.5000	3
Ca	44	45	He	90142.714	ppb	0.7	181474.81	4.7495	Pulse	0.5000	3
Ti	47	45	He	0.037	ppb	595.1	18.00	0.0005	Pulse	0.5000	3
V	51	45	He	1.011	ppb	6.3	1676.76	0.0439	Pulse	0.5000	3
Cr	52	45	He	-0.088	ppb	N/A	1860.16	0.0487	Pulse	0.1000	3
Mn	55	45	He	2027.158	ppb	0.3	706363.81	18.4873	Pulse	0.5000	3
Fe	57	45	He	1084.037	ppb	2.1	16862.59	0.4413	Pulse	0.1000	3
Co	59	45	He	2.065	ppb	5.3	3488.39	0.0913	Pulse	0.5000	3
Ni	60	45	He	3.294	ppb	7.3	1925.46	0.0504	Pulse	0.5000	3
Cu	63	72	He	0.734	ppb	3.1	1936.79	0.0288	Pulse	0.5000	3
Zn	66	72	He	9.436	ppb	4.1	1631.43	0.0243	Pulse	0.5000	3
As	75	72	He	4.149	ppb	8.1	598.68	0.0089	Pulse	0.5000	3
Sr	88	115	He	317.324	ppb	0.8	134132.83	2.6083	Pulse	0.1000	3
Mo	98	115	He	0.496	ppb	16.3	530.03	0.0103	Pulse	0.1000	3
Ag	107	115	He	0.258	ppb	26.8	556.70	0.0108	Pulse	0.1000	3
Cd	111	115	He	0.071	ppb	16.9	17.33	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.318	ppb	40.6	770.09	0.0150	Pulse	0.1000	3
Sb	121	115	He	0.259	ppb	25.3	178.89	0.0035	Pulse	0.3000	3
Ba	137	115	He	56.505	ppb	2.1	11357.89	0.2208	Pulse	0.1000	3
Tl	205	159	He	-0.029	ppb	N/A	150.01	0.0008	Pulse	0.1000	3
Pb	208	159	He	0.311	ppb	7.5	1770.10	0.0093	Pulse	0.1000	3
U	238	159	He	1.025	ppb	2.6	4804.32	0.0253	Pulse	0.1000	3

ISTD Table:

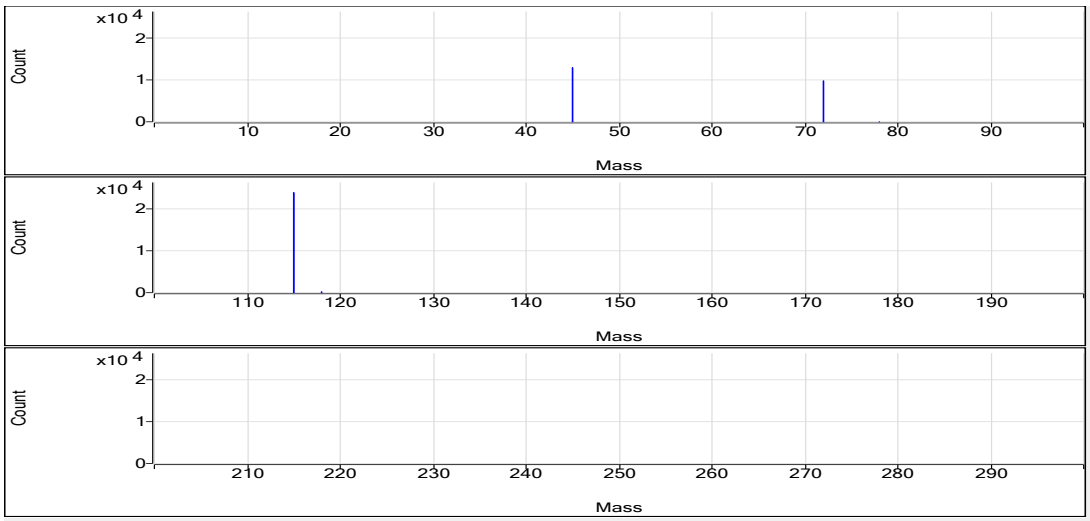
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1621294.82	0.8	94.9	Analog	0.1000	3
No Gas	Ge	72	826210.38	0.2	95.6	Pulse	0.1000	3
H2	Sc	45	129194.95	1.1	96.7	Pulse	0.1000	3
H2	Ge	72	97642.29	0.9	98.6	Pulse	0.1000	3
H2	In	115	238565.39	0.4	92.9	Pulse	0.1000	3
He	Sc	45	38208.37	0.6	96.8	Pulse	0.1000	3
He	Ge	72	67284.69	2.7	98.8	Pulse	0.1000	3
He	In	115	51427.01	1.1	92.8	Pulse	0.1000	3
He	Tb	159	190035.04	0.8	92.8	Pulse	0.1000	3
He	Bi	209	139616.36	0.3	92.3	Pulse	0.1000	3

No Gas

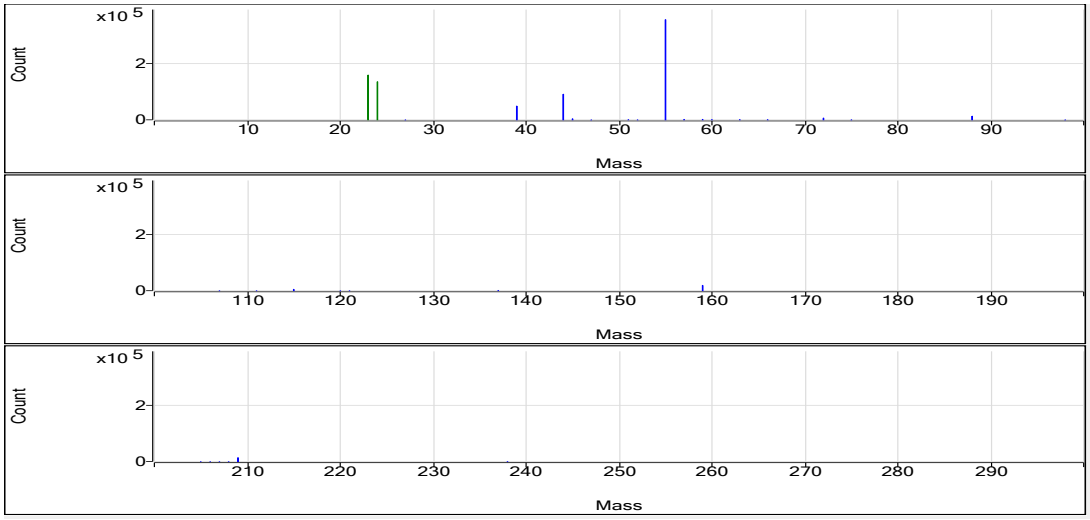


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.011	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	0.01	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Se	78	2	H2	0.189	0.0001	13.33	0.0004	6.3E-05
Se	78	2	H2	0.344	0.0002	19.33	0.0004	6.3E-05
Se	78	2	H2	0.193	0.0001	13.33	0.0004	6.3E-05
Na	23	3	He	16513.143	41.9129	1592035.60	0.0025	0.7502
Na	23	3	He	16282.701	41.3385	1579338.88	0.0025	0.7502
Na	23	3	He	16123.718	40.9422	1573638.26	0.0025	0.7502
Mg	24	3	He	28769.474	34.8624	1324227.64	0.0012	0.02618
Mg	24	3	He	28659.363	34.7291	1326827.17	0.0012	0.02618
Mg	24	3	He	29697.604	35.9863	1383155.14	0.0012	0.02618
Al	27	3	He	18.682	0.0124	470.03	0.0004	0.005329
Al	27	3	He	30.293	0.0168	640.04	0.0004	0.005329
Al	27	3	He	17.607	0.012	460.03	0.0004	0.005329
K	39	3	He	2125.6	2.6413	100327.46	0.001	0.5307
K	39	3	He	1996.534	2.5131	96014.11	0.001	0.5307
K	39	3	He	2010.283	2.5268	97118.30	0.001	0.5307
Ca	44	3	He	89459.095	4.7135	179040.30	0.0001	0.004441
Ca	44	3	He	90528.323	4.7698	182230.80	0.0001	0.004441
Ca	44	3	He	90440.724	4.7652	183153.34	0.0001	0.004441
Ti	47	3	He	-0.085	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.293	0.0006	22.00	0.0004	0.0004559
Ti	47	3	He	-0.097	0.0004	16.00	0.0004	0.0004559
V	51	3	He	0.968	0.0431	1638.09	0.0176	0.02609
V	51	3	He	0.981	0.0433	1656.09	0.0176	0.02609
V	51	3	He	1.084	0.0452	1736.10	0.0176	0.02609
Cr	52	3	He	0.131	0.0534	2030.21	0.0217	0.05061
Cr	52	3	He	-0.305	0.044	1680.12	0.0217	0.05061
Cr	52	3	He	-0.09	0.0487	1870.16	0.0217	0.05061
Mn	55	3	He	2034.894	18.5578	704908.31	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2022.119	18.4414	704555.25	0.0091	0.01071
Mn	55	3	He	2024.461	18.4628	709627.88	0.0091	0.01071
Fe	57	3	He	1082.375	0.4407	16739.15	0.0004	0.008452
Fe	57	3	He	1107.493	0.4507	17219.62	0.0004	0.008452
Fe	57	3	He	1062.243	0.4326	16629.01	0.0004	0.008452
Co	59	3	He	2.086	0.0922	3500.39	0.0413	0.006013
Co	59	3	He	1.948	0.0864	3302.36	0.0413	0.006013
Co	59	3	He	2.162	0.0953	3662.43	0.0413	0.006013
Ni	60	3	He	3.419	0.0519	1970.13	0.0117	0.01172
Ni	60	3	He	3.446	0.0522	1994.13	0.0117	0.01172
Ni	60	3	He	3.017	0.0471	1812.11	0.0117	0.01172
Cu	63	3	He	0.717	0.0285	1970.14	0.0196	0.01443
Cu	63	3	He	0.725	0.0286	1916.12	0.0196	0.01443
Cu	63	3	He	0.76	0.0293	1924.12	0.0196	0.01443
Zn	66	3	He	9.408	0.0242	1674.10	0.0023	0.002807
Zn	66	3	He	9.066	0.0234	1568.09	0.0023	0.002807
Zn	66	3	He	9.835	0.0252	1652.10	0.0023	0.002807
As	75	3	He	3.799	0.0083	572.01	0.0018	0.001271
As	75	3	He	4.176	0.009	600.01	0.0018	0.001271
As	75	3	He	4.472	0.0095	624.02	0.0018	0.001271
Sr	88	3	He	319.85	2.6291	133476.51	0.0082	0.00114
Sr	88	3	He	314.645	2.5863	133689.05	0.0082	0.00114
Sr	88	3	He	317.476	2.6096	135232.92	0.0082	0.00114
Mo	98	3	He	0.404	0.0087	440.02	0.0177	0.001504
Mo	98	3	He	0.527	0.0108	560.03	0.0177	0.001504
Mo	98	3	He	0.558	0.0114	590.03	0.0177	0.001504
Ag	107	3	He	0.226	0.0097	490.03	0.0368	0.001325
Ag	107	3	He	0.338	0.0137	710.04	0.0368	0.001325
Ag	107	3	He	0.211	0.0091	470.03	0.0368	0.001325
Cd	111	3	He	0.084	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.064	0.0003	16.00	0.0041	4.798E-05
Cd	111	3	He	0.064	0.0003	16.00	0.0041	4.798E-05
Sn	120	3	He	0.193	0.0134	680.04	0.0126	0.01097
Sn	120	3	He	0.451	0.0166	860.19	0.0126	0.01097
Sn	120	3	He	0.309	0.0149	770.05	0.0126	0.01097
Sb	121	3	He	0.226	0.0031	156.67	0.012	0.0003595
Sb	121	3	He	0.334	0.0044	226.67	0.012	0.0003595
Sb	121	3	He	0.216	0.003	153.34	0.012	0.0003595
Ba	137	3	He	55.31	0.2162	10974.32	0.0039	0.0003633
Ba	137	3	He	56.555	0.221	11424.56	0.0039	0.0003633
Ba	137	3	He	57.65	0.2253	11674.79	0.0039	0.0003633
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.023	0.0009	170.01	0.0189	0.001334
Tl	205	3	He	-0.035	0.0007	130.01	0.0189	0.001334
Pb	208	3	He	0.317	0.0095	960.06	0.0252	0.001497
Pb	208	3	He	0.285	0.0087	900.06	0.0252	0.001497
Pb	208	3	He	0.33	0.0098	1000.07	0.0252	0.001497
U	238	3	He	1.004	0.0248	4680.92	0.0245	0.0001141
U	238	3	He	1.055	0.026	4921.05	0.0245	0.0001141
U	238	3	He	1.017	0.0251	4810.98	0.0245	0.0001141
Sc	45	1	No Gas			1606740.29		
Sc	45	1	No Gas			1633910.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1623233.88		
Ge	72	1	No Gas			824711.78		
Ge	72	1	No Gas			828545.93		
Ge	72	1	No Gas			825373.43		
Sc	45	2	H2			127985.82		
Sc	45	2	H2			130706.96		
Sc	45	2	H2			128892.06		
Ge	72	2	H2			97745.83		
Ge	72	2	H2			98460.33		
Ge	72	2	H2			96720.72		
In	115	2	H2			237475.91		
In	115	2	H2			239526.36		
In	115	2	H2			238693.90		
Sc	45	3	He			37984.39		
Sc	45	3	He			38205.07		
Sc	45	3	He			38435.64		
Ge	72	3	He			69209.11		
Ge	72	3	He			66979.86		
Ge	72	3	He			65665.11		
In	115	3	He			50773.72		
In	115	3	He			51696.63		
In	115	3	He			51826.85		
Tb	159	3	He			189089.08		
Tb	159	3	He			189212.95		
Tb	159	3	He			191803.08		
Bi	209	3	He			139168.56		
Bi	209	3	He			139825.83		
Bi	209	3	He			139854.70		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

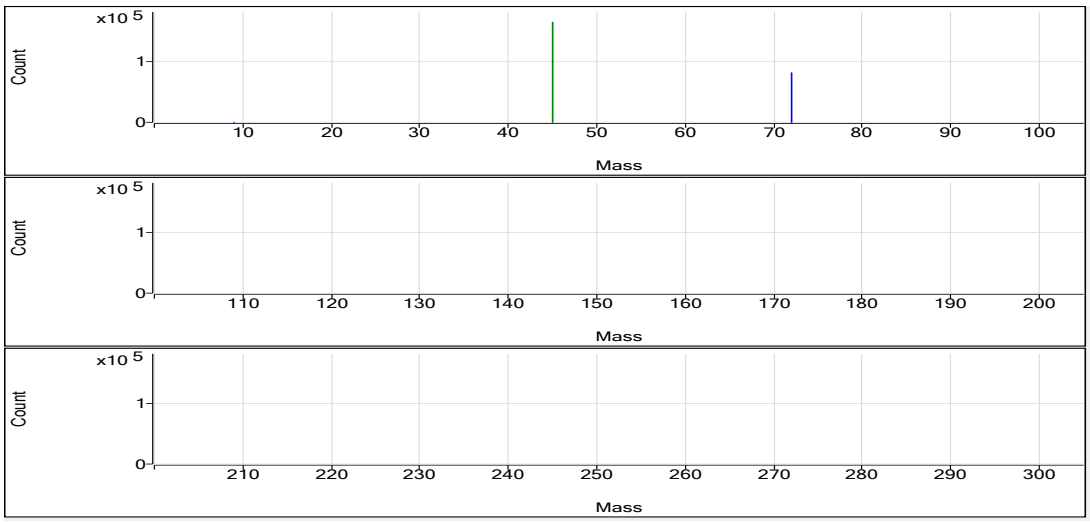
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.478	ppb	12.9	311.34	0.0002	Pulse	0.5000	3
Se	78	72	H2	0.320	ppb	17.4	18.22	0.0002	Pulse	1.5000	3
Na	23	45	He	47639.502	ppb	1.1	4774682.63	119.5023	Analog	0.1000	3
Mg	24	45	He	3462.170	ppb	1.5	168544.02	4.2184	Pulse	0.1000	3
Al	27	45	He	12204.736	ppb	1.6	184104.90	4.6077	Pulse	0.1000	3
K	39	45	He	14037.761	ppb	1.4	578118.65	14.4695	Pulse	0.5000	3
Ca	44	45	He	7977.318	ppb	2.3	16955.40	0.4244	Pulse	0.5000	3
Ti	47	45	He	60.616	ppb	1.2	1008.71	0.0252	Pulse	0.5000	3
V	51	45	He	27.747	ppb	1.8	20541.57	0.5141	Pulse	0.5000	3
Cr	52	45	He	20.934	ppb	0.9	20193.01	0.5054	Pulse	0.1000	3
Mn	55	45	He	52.230	ppb	1.2	19448.28	0.4868	Pulse	0.5000	3
Fe	57	45	He	20026.976	ppb	1.6	319873.24	8.0060	Pulse	0.1000	3
Co	59	45	He	2.441	ppb	2.9	4267.25	0.1068	Pulse	0.5000	3
Ni	60	45	He	4.785	ppb	2.4	2713.58	0.0679	Pulse	0.5000	3
Cu	63	72	He	57.490	ppb	1.3	75979.69	1.1391	Pulse	0.5000	3
Zn	66	72	He	54.677	ppb	1.9	8478.26	0.1271	Pulse	0.5000	3
As	75	72	He	8.145	ppb	3.3	1085.38	0.0163	Pulse	0.5000	3
Sr	88	115	He	63.352	ppb	1.0	26973.68	0.5217	Pulse	0.1000	3
Mo	98	115	He	1.479	ppb	13.6	1430.12	0.0277	Pulse	0.1000	3
Ag	107	115	He	0.004	ppb	85.2	76.67	0.0015	Pulse	0.1000	3
Cd	111	115	He	0.017	ppb	55.6	6.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	1.256	ppb	11.7	1383.44	0.0268	Pulse	0.1000	3
Sb	121	115	He	0.115	ppb	16.0	90.00	0.0017	Pulse	0.3000	3
Ba	137	115	He	73.960	ppb	4.0	14934.45	0.2889	Pulse	0.1000	3
Tl	205	159	He	0.089	ppb	22.1	576.69	0.0030	Pulse	0.1000	3
Pb	208	159	He	15.983	ppb	1.0	77022.00	0.4036	Pulse	0.1000	3
U	238	159	He	1.280	ppb	3.3	6018.12	0.0315	Pulse	0.1000	3

ISTD Table:

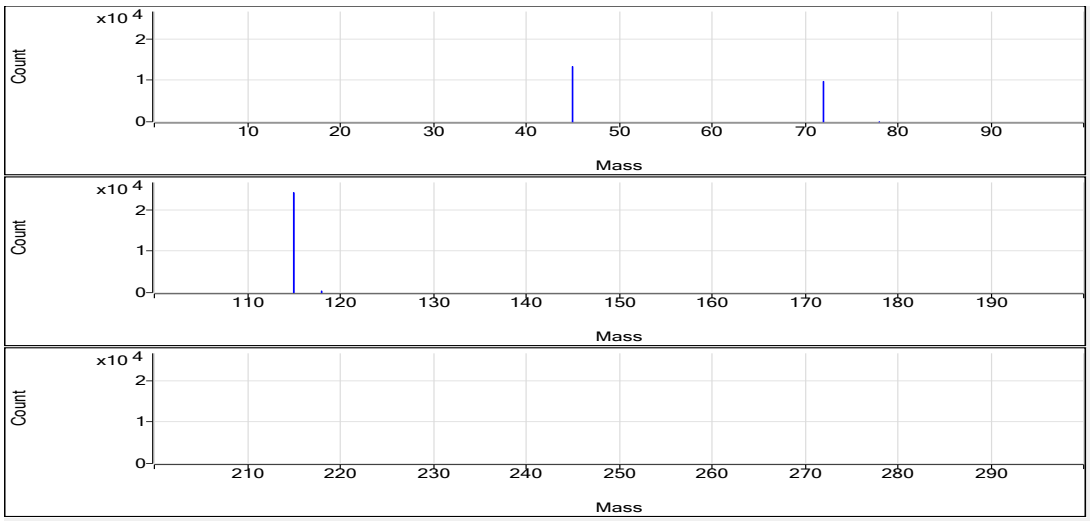
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1662506.23	1.9	97.3	Analog	0.1000	3
No Gas	Ge	72	822511.81	0.8	95.2	Pulse	0.1000	3
H2	Sc	45	133147.09	0.7	99.6	Pulse	0.1000	3
H2	Ge	72	97397.34	0.9	98.3	Pulse	0.1000	3
H2	In	115	241004.82	1.6	93.9	Pulse	0.1000	3
He	Sc	45	39955.87	0.4	101.2	Pulse	0.1000	3
He	Ge	72	66712.44	1.6	98.0	Pulse	0.1000	3
He	In	115	51713.56	2.0	93.3	Pulse	0.1000	3
He	Tb	159	190836.06	0.3	93.2	Pulse	0.1000	3
He	Bi	209	139713.63	1.0	92.4	Pulse	0.1000	3

No Gas

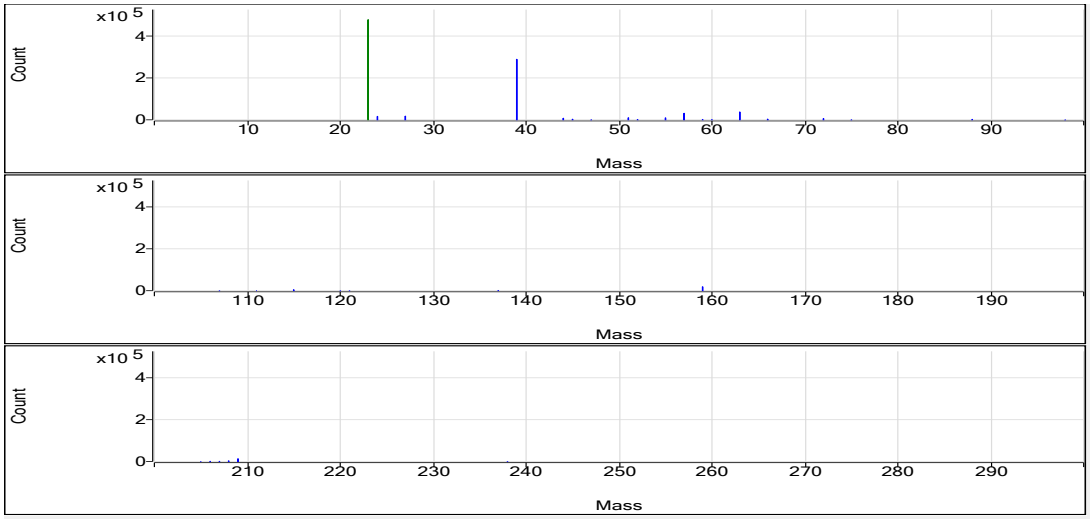


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.408	0.0002	266.00	0.0003	2.616E-05
Be	9	1	No Gas	0.525	0.0002	340.01	0.0003	2.616E-05
Be	9	1	No Gas	0.501	0.0002	328.01	0.0003	2.616E-05
Se	78	2	H2	0.327	0.0002	18.67	0.0004	6.3E-05
Se	78	2	H2	0.372	0.0002	20.00	0.0004	6.3E-05
Se	78	2	H2	0.261	0.0002	16.00	0.0004	6.3E-05
Na	23	3	He	47629.852	119.4783	4783859.30	0.0025	0.7502
Na	23	3	He	48169.316	120.823	4803753.05	0.0025	0.7502
Na	23	3	He	47119.336	118.2057	4736435.55	0.0025	0.7502
Mg	24	3	He	3442.871	4.1951	167968.79	0.0012	0.02618
Mg	24	3	He	3522.318	4.2913	170614.82	0.0012	0.02618
Mg	24	3	He	3421.321	4.169	167048.45	0.0012	0.02618
Al	27	3	He	11989.125	4.5264	181236.87	0.0004	0.005329
Al	27	3	He	12270.809	4.6327	184188.32	0.0004	0.005329
Al	27	3	He	12354.274	4.6641	186889.51	0.0004	0.005329
K	39	3	He	13951.565	14.3839	575925.31	0.001	0.5307
K	39	3	He	14263.495	14.6936	584198.19	0.001	0.5307
K	39	3	He	13898.222	14.3309	574232.44	0.001	0.5307
Ca	44	3	He	8124.295	0.4321	17301.09	0.0001	0.004441
Ca	44	3	He	8034.987	0.4274	16992.77	0.0001	0.004441
Ca	44	3	He	7772.673	0.4136	16572.34	0.0001	0.004441
Ti	47	3	He	61.056	0.0254	1018.04	0.0004	0.0004559
Ti	47	3	He	61.003	0.0254	1010.04	0.0004	0.0004559
Ti	47	3	He	59.789	0.0249	998.04	0.0004	0.0004559
V	51	3	He	27.858	0.5161	20663.07	0.0176	0.02609
V	51	3	He	28.182	0.5218	20745.18	0.0176	0.02609
V	51	3	He	27.202	0.5045	20216.46	0.0176	0.02609
Cr	52	3	He	20.724	0.5008	20052.82	0.0217	0.05061
Cr	52	3	He	20.968	0.5061	20122.84	0.0217	0.05061
Cr	52	3	He	21.109	0.5092	20403.36	0.0217	0.05061
Mn	55	3	He	51.89	0.4837	19365.50	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	52.972	0.4935	19621.81	0.0091	0.01071
Mn	55	3	He	51.828	0.4831	19357.53	0.0091	0.01071
Fe	57	3	He	19728.235	7.8867	315779.02	0.0004	0.008452
Fe	57	3	He	20352.432	8.1359	323473.45	0.0004	0.008452
Fe	57	3	He	20000.26	7.9953	320367.24	0.0004	0.008452
Co	59	3	He	2.487	0.1087	4352.60	0.0413	0.006013
Co	59	3	He	2.478	0.1083	4306.59	0.0413	0.006013
Co	59	3	He	2.358	0.1034	4142.55	0.0413	0.006013
Ni	60	3	He	4.876	0.069	2762.25	0.0117	0.01172
Ni	60	3	He	4.823	0.0684	2718.24	0.0117	0.01172
Ni	60	3	He	4.655	0.0664	2660.24	0.0117	0.01172
Cu	63	3	He	58.024	1.1495	76416.40	0.0196	0.01443
Cu	63	3	He	56.616	1.122	76141.02	0.0196	0.01443
Cu	63	3	He	57.829	1.1457	75381.65	0.0196	0.01443
Zn	66	3	He	53.503	0.1244	8270.15	0.0023	0.002807
Zn	66	3	He	55.576	0.1291	8762.41	0.0023	0.002807
Zn	66	3	He	54.953	0.1277	8402.21	0.0023	0.002807
As	75	3	He	8.217	0.0164	1090.04	0.0018	0.001271
As	75	3	He	8.372	0.0167	1132.05	0.0018	0.001271
As	75	3	He	7.847	0.0157	1034.04	0.0018	0.001271
Sr	88	3	He	63.785	0.5252	26592.80	0.0082	0.00114
Sr	88	3	He	62.621	0.5156	27154.03	0.0082	0.00114
Sr	88	3	He	63.652	0.5241	27174.21	0.0082	0.00114
Mo	98	3	He	1.644	0.0306	1550.13	0.0177	0.001504
Mo	98	3	He	1.255	0.0237	1250.09	0.0177	0.001504
Mo	98	3	He	1.538	0.0287	1490.13	0.0177	0.001504
Ag	107	3	He	0.007	0.0016	80.00	0.0368	0.001325
Ag	107	3	He	0	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	0.006	0.0015	80.00	0.0368	0.001325
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	1.42	0.0288	1460.11	0.0126	0.01097
Sn	120	3	He	1.211	0.0262	1380.10	0.0126	0.01097
Sn	120	3	He	1.136	0.0253	1310.10	0.0126	0.01097
Sb	121	3	He	0.107	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.102	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.136	0.002	103.34	0.012	0.0003595
Ba	137	3	He	77.398	0.3023	15308.21	0.0039	0.0003633
Ba	137	3	He	72.563	0.2835	14927.76	0.0039	0.0003633
Ba	137	3	He	71.92	0.281	14567.39	0.0039	0.0003633
Tl	205	3	He	0.112	0.0035	660.03	0.0189	0.001334
Tl	205	3	He	0.079	0.0028	540.03	0.0189	0.001334
Tl	205	3	He	0.076	0.0028	530.02	0.0189	0.001334
Pb	208	3	He	16.17	0.4083	42201.80	0.0252	0.001497
Pb	208	3	He	15.913	0.4018	40637.35	0.0252	0.001497
Pb	208	3	He	15.867	0.4007	40456.73	0.0252	0.001497
U	238	3	He	1.231	0.0303	5801.35	0.0245	0.0001141
U	238	3	He	1.308	0.0322	6131.52	0.0245	0.0001141
U	238	3	He	1.301	0.0321	6121.49	0.0245	0.0001141
Sc	45	1	No Gas			1625988.73		
Sc	45	1	No Gas			1677104.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1684425.76		
Ge	72	1	No Gas			820206.32		
Ge	72	1	No Gas			817098.35		
Ge	72	1	No Gas			830230.77		
Sc	45	2	H2			133005.03		
Sc	45	2	H2			132260.19		
Sc	45	2	H2			134176.04		
Ge	72	2	H2			98299.77		
Ge	72	2	H2			96528.92		
Ge	72	2	H2			97363.33		
In	115	2	H2			237111.48		
In	115	2	H2			244948.75		
In	115	2	H2			240954.22		
Sc	45	3	He			40039.58		
Sc	45	3	He			39758.60		
Sc	45	3	He			40069.44		
Ge	72	3	He			66477.83		
Ge	72	3	He			67863.99		
Ge	72	3	He			65795.50		
In	115	3	He			50643.14		
In	115	3	He			52669.82		
In	115	3	He			51856.78		
Tb	159	3	He			191267.07		
Tb	159	3	He			190285.95		
Tb	159	3	He			190955.15		
Bi	209	3	He			140036.45		
Bi	209	3	He			140855.16		
Bi	209	3	He			138249.27		

Quantitation Report

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Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

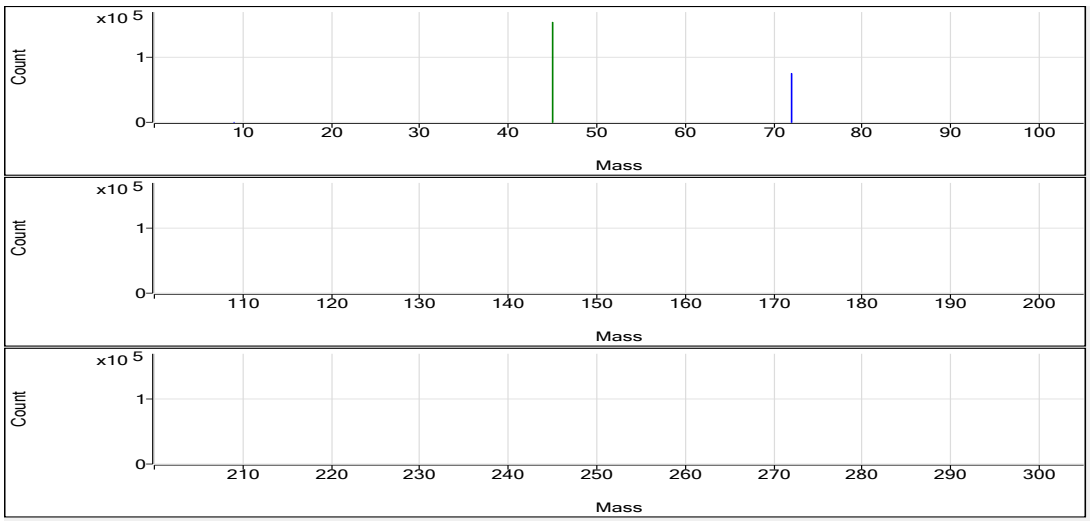
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.003	ppb	N/A	38.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	2.297	ppb	8.7	86.89	0.0010	Pulse	1.5000	3
Na	23	45	He	4814099.943	ppb	0.9	445757660.02	12,000.9725	Analog	0.1000	3
Mg	24	45	He	9188.050	ppb	0.5	414249.46	11.1518	Pulse	0.1000	3
Al	27	45	He	93.196	ppb	5.4	1503.45	0.0405	Pulse	0.1000	3
K	39	45	He	81861.750	ppb	0.4	3039090.50	81.8155	Analog	0.5000	3
Ca	44	45	He	55267.386	ppb	1.3	108221.22	2.9137	Pulse	0.5000	3
Ti	47	45	He	139.896	ppb	0.5	2142.15	0.0577	Pulse	0.5000	3
V	51	45	He	19.041	ppb	1.8	13408.20	0.3610	Pulse	0.5000	3
Cr	52	45	He	498.823	ppb	0.5	404406.92	10.8874	Pulse	0.1000	3
Mn	55	45	He	71.694	ppb	2.1	24667.27	0.6642	Pulse	0.5000	3
Fe	57	45	He	1905.345	ppb	2.3	28575.89	0.7693	Pulse	0.1000	3
Co	59	45	He	1.848	ppb	4.0	3057.64	0.0823	Pulse	0.5000	3
Ni	60	45	He	71.975	ppb	0.6	31837.73	0.8571	Pulse	0.5000	3
Cu	63	72	He	87.387	ppb	1.6	107279.50	1.7239	Pulse	0.5000	3
Zn	66	72	He	168.434	ppb	2.3	23995.74	0.3856	Pulse	0.5000	3
As	75	72	He	14.411	ppb	1.5	1730.11	0.0278	Pulse	0.5000	3
Sr	88	115	He	482.643	ppb	1.0	197610.79	3.9666	Pulse	0.1000	3
Mo	98	115	He	8.448	ppb	2.1	7528.73	0.1511	Pulse	0.1000	3
Ag	107	115	He	0.031	ppb	29.3	123.34	0.0025	Pulse	0.1000	3
Cd	111	115	He	0.057	ppb	44.2	14.00	0.0003	Pulse	0.5000	3
Sn	120	115	He	90.008	ppb	1.7	56981.88	1.1439	Pulse	0.1000	3
Sb	121	115	He	1.720	ppb	10.5	1051.16	0.0211	Pulse	0.3000	3
Ba	137	115	He	45.469	ppb	1.0	8856.17	0.1778	Pulse	0.1000	3
Tl	205	159	He	-0.049	ppb	N/A	76.67	0.0004	Pulse	0.1000	3
Pb	208	159	He	1.796	ppb	2.2	8614.64	0.0467	Pulse	0.1000	3
U	238	159	He	2.512	ppb	2.1	11401.57	0.0618	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1540877.11	0.4	90.2	Analog	0.1000	3
No Gas	Ge	72	752757.31	1.2	87.1	Pulse	0.1000	3
H2	Sc	45	127841.71	1.5	95.7	Pulse	0.1000	3
H2	Ge	72	91083.92	0.9	91.9	Pulse	0.1000	3
H2	In	115	226148.58	0.5	88.1	Pulse	0.1000	3
He	Sc	45	37146.12	1.2	94.1	Pulse	0.1000	3
He	Ge	72	62234.05	0.8	91.4	Pulse	0.1000	3
He	In	115	49819.52	1.2	89.9	Pulse	0.1000	3
He	Tb	159	184592.12	1.1	90.1	Pulse	0.1000	3
He	Bi	209	255027.84	0.3	168.6	Pulse	0.1000	3

No Gas



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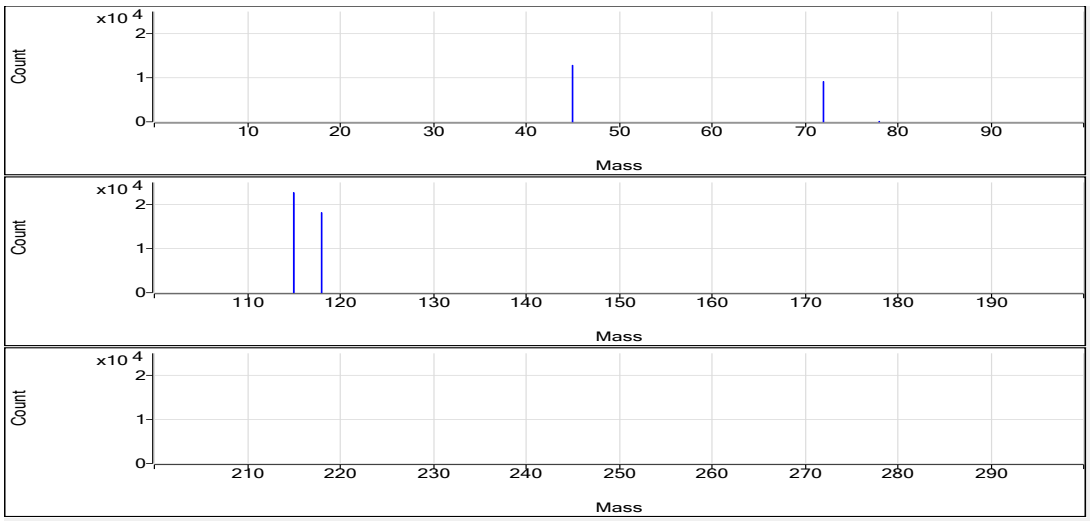
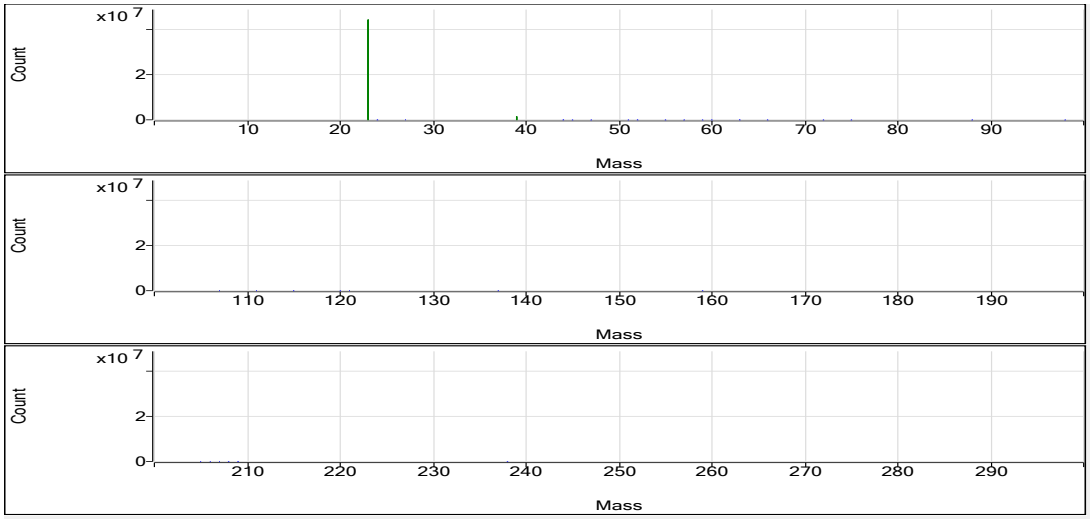


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.024	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	0.004	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	0.011	0	46.00	0.0003	2.616E-05
Se	78	2	H2	2.144	0.0009	80.67	0.0004	6.3E-05
Se	78	2	H2	2.523	0.001	95.33	0.0004	6.3E-05
Se	78	2	H2	2.223	0.0009	84.67	0.0004	6.3E-05
Na	23	3	He	4859469.62	12114.0665	445337193.36	0.0025	0.7502
Na	23	3	He	4812045.399	11995.8511	444354513.38	0.0025	0.7502
Na	23	3	He	4770784.81	11892.9998	447581273.33	0.0025	0.7502
Mg	24	3	He	9212.303	11.1811	411040.54	0.0012	0.02618
Mg	24	3	He	9132.125	11.084	410579.02	0.0012	0.02618
Mg	24	3	He	9219.723	11.1901	421128.82	0.0012	0.02618
Al	27	3	He	96.963	0.0419	1540.12	0.0004	0.005329
Al	27	3	He	87.53	0.0383	1420.10	0.0004	0.005329
Al	27	3	He	95.094	0.0412	1550.12	0.0004	0.005329
K	39	3	He	82204.449	82.1558	3020209.00	0.001	0.5307
K	39	3	He	81542.966	81.4989	3018912.00	0.001	0.5307
K	39	3	He	81837.834	81.7917	3078150.50	0.001	0.5307
Ca	44	3	He	55854.948	2.9446	108250.00	0.0001	0.004441
Ca	44	3	He	55460.54	2.9239	108306.50	0.0001	0.004441
Ca	44	3	He	54486.671	2.8726	108107.16	0.0001	0.004441
Ti	47	3	He	139.638	0.0576	2116.15	0.0004	0.0004559
Ti	47	3	He	140.685	0.058	2148.15	0.0004	0.0004559
Ti	47	3	He	139.366	0.0575	2162.16	0.0004	0.0004559
V	51	3	He	19.395	0.3672	13499.59	0.0176	0.02609
V	51	3	He	19	0.3603	13345.49	0.0176	0.02609
V	51	3	He	18.729	0.3555	13379.51	0.0176	0.02609
Cr	52	3	He	501.031	10.9353	402004.99	0.0217	0.05061
Cr	52	3	He	499.439	10.9007	403789.29	0.0217	0.05061
Cr	52	3	He	495.999	10.826	407426.48	0.0217	0.05061
Mn	55	3	He	72.758	0.6739	24772.75	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	72.383	0.6704	24834.87	0.0091	0.01071
Mn	55	3	He	69.942	0.6482	24394.20	0.0091	0.01071
Fe	57	3	He	1949.924	0.7871	28936.45	0.0004	0.008452
Fe	57	3	He	1860.521	0.7514	27834.65	0.0004	0.008452
Fe	57	3	He	1905.591	0.7694	28956.58	0.0004	0.008452
Co	59	3	He	1.863	0.0829	3048.30	0.0413	0.006013
Co	59	3	He	1.914	0.085	3150.32	0.0413	0.006013
Co	59	3	He	1.769	0.079	2974.30	0.0413	0.006013
Ni	60	3	He	71.935	0.8566	31490.40	0.0117	0.01172
Ni	60	3	He	71.572	0.8523	31572.56	0.0117	0.01172
Ni	60	3	He	72.417	0.8623	32450.24	0.0117	0.01172
Cu	63	3	He	86.207	1.7008	106833.78	0.0196	0.01443
Cu	63	3	He	87.075	1.7178	106278.45	0.0196	0.01443
Cu	63	3	He	88.878	1.7531	108726.27	0.0196	0.01443
Zn	66	3	He	164.341	0.3763	23637.18	0.0023	0.002807
Zn	66	3	He	168.79	0.3864	23907.63	0.0023	0.002807
Zn	66	3	He	172.17	0.3941	24442.41	0.0023	0.002807
As	75	3	He	14.532	0.028	1760.11	0.0018	0.001271
As	75	3	He	14.167	0.0273	1692.10	0.0018	0.001271
As	75	3	He	14.534	0.028	1738.11	0.0018	0.001271
Sr	88	3	He	477.924	3.9279	197936.66	0.0082	0.00114
Sr	88	3	He	482.018	3.9615	194820.64	0.0082	0.00114
Sr	88	3	He	487.988	4.0106	200075.08	0.0082	0.00114
Mo	98	3	He	8.242	0.1475	7431.96	0.0177	0.001504
Mo	98	3	He	8.574	0.1534	7542.08	0.0177	0.001504
Mo	98	3	He	8.53	0.1526	7612.14	0.0177	0.001504
Ag	107	3	He	0.023	0.0022	110.01	0.0368	0.001325
Ag	107	3	He	0.041	0.0028	140.01	0.0368	0.001325
Ag	107	3	He	0.029	0.0024	120.00	0.0368	0.001325
Cd	111	3	He	0.085	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.038	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.047	0.0002	12.00	0.0041	4.798E-05
Sn	120	3	He	89.397	1.1362	57256.26	0.0126	0.01097
Sn	120	3	He	91.706	1.1653	57306.26	0.0126	0.01097
Sn	120	3	He	88.921	1.1302	56383.12	0.0126	0.01097
Sb	121	3	He	1.826	0.0224	1126.72	0.012	0.0003595
Sb	121	3	He	1.512	0.0186	913.38	0.012	0.0003595
Sb	121	3	He	1.823	0.0223	1113.38	0.012	0.0003595
Ba	137	3	He	45.188	0.1767	8902.85	0.0039	0.0003633
Ba	137	3	He	45.211	0.1768	8692.75	0.0039	0.0003633
Ba	137	3	He	46.007	0.1799	8972.92	0.0039	0.0003633
Tl	205	3	He	-0.056	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	1.838	0.0477	4510.84	0.0252	0.001497
Pb	208	3	He	1.788	0.0465	4840.98	0.0252	0.001497
Pb	208	3	He	1.762	0.0458	4540.86	0.0252	0.001497
U	238	3	He	2.518	0.0619	11364.88	0.0245	0.0001141
U	238	3	He	2.562	0.063	11555.12	0.0245	0.0001141
U	238	3	He	2.456	0.0604	11284.72	0.0245	0.0001141
Sc	45	1	No Gas			1546393.57		
Sc	45	1	No Gas			1534684.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1541552.95		
Ge	72	1	No Gas			754881.71		
Ge	72	1	No Gas			742482.10		
Ge	72	1	No Gas			760908.11		
Sc	45	2	H2			125941.14		
Sc	45	2	H2			127874.15		
Sc	45	2	H2			129709.84		
Ge	72	2	H2			90182.65		
Ge	72	2	H2			91549.79		
Ge	72	2	H2			91519.32		
In	115	2	H2			227397.50		
In	115	2	H2			225954.49		
In	115	2	H2			225093.75		
Sc	45	3	He			36761.99		
Sc	45	3	He			37042.35		
Sc	45	3	He			37634.01		
Ge	72	3	He			62812.91		
Ge	72	3	He			61869.03		
Ge	72	3	He			62020.22		
In	115	3	He			50793.70		
In	115	3	He			49579.64		
In	115	3	He			50281.84		
Tb	159	3	He			183551.42		
Tb	159	3	He			183370.60		
Tb	159	3	He			186854.33		
Bi	209	3	He			254800.46		
Bi	209	3	He			255810.37		
Bi	209	3	He			254472.69		

Quantitation Report

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Acq Time	7/10/2025 7:48:02 PM
Sample Name	410-229474-M-4-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

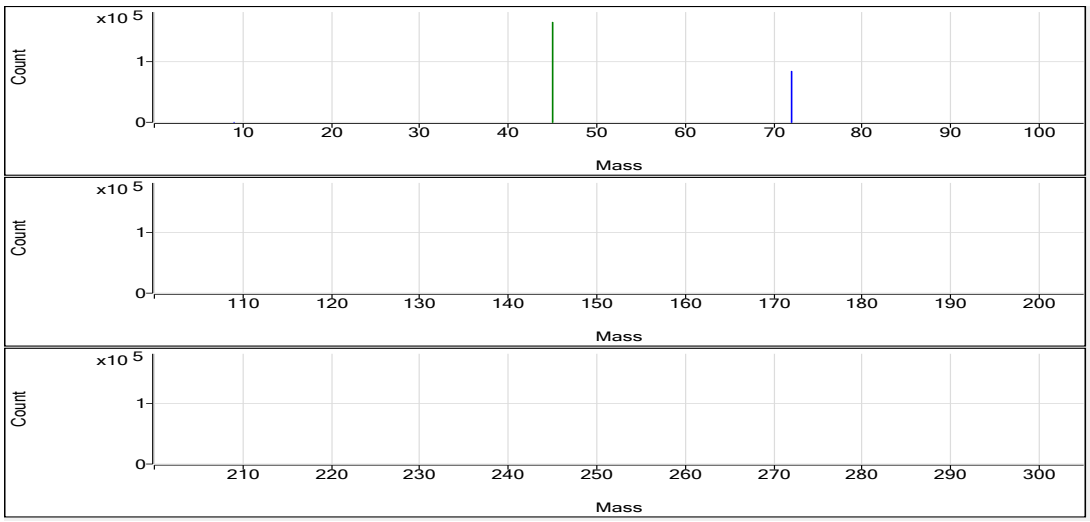
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.013	ppb	N/A	36.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.052	ppb	135.3	8.44	0.0001	Pulse	1.5000	3
Na	23	45	He	7474.077	ppb	8.1	753081.73	19.3810	Pulse	0.1000	3
Mg	24	45	He	16274.439	ppb	1.1	766849.29	19.7325	Pulse	0.1000	3
Al	27	45	He	38.270	ppb	24.5	766.71	0.0198	Pulse	0.1000	3
K	39	45	He	5033.161	ppb	2.9	214818.87	5.5284	Pulse	0.5000	3
Ca	44	45	He	174538.230	ppb	1.4	357215.44	9.1920	Pulse	0.5000	3
Ti	47	45	He	0.183	ppb	322.7	20.67	0.0005	Pulse	0.5000	3
V	51	45	He	1.303	ppb	3.2	1904.79	0.0490	Pulse	0.5000	3
Cr	52	45	He	0.832	ppb	34.0	2666.98	0.0687	Pulse	0.1000	3
Mn	55	45	He	514.095	ppb	1.5	182508.33	4.6964	Pulse	0.5000	3
Fe	57	45	He	60785.643	ppb	1.3	943666.60	24.2824	Pulse	0.1000	3
Co	59	45	He	0.286	ppb	6.0	692.02	0.0178	Pulse	0.5000	3
Ni	60	45	He	0.590	ppb	12.3	724.69	0.0187	Pulse	0.5000	3
Cu	63	72	He	0.144	ppb	21.4	1154.05	0.0172	Pulse	0.5000	3
Zn	66	72	He	10.467	ppb	3.3	1780.11	0.0266	Pulse	0.5000	3
As	75	72	He	14.512	ppb	3.2	1872.79	0.0280	Pulse	0.5000	3
Sr	88	115	He	815.326	ppb	1.3	353232.95	6.7000	Pulse	0.1000	3
Mo	98	115	He	1.113	ppb	11.8	1116.74	0.0212	Pulse	0.1000	3
Ag	107	115	He	-0.027	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Cd	111	115	He	-0.002	ppb	N/A	2.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.512	ppb	52.7	920.07	0.0174	Pulse	0.1000	3
Sb	121	115	He	0.146	ppb	35.4	111.11	0.0021	Pulse	0.3000	3
Ba	137	115	He	195.662	ppb	2.7	40257.23	0.7638	Pulse	0.1000	3
Tl	205	159	He	-0.058	ppb	N/A	46.67	0.0002	Pulse	0.1000	3
Pb	208	159	He	3.655	ppb	1.3	18148.42	0.0934	Pulse	0.1000	3
U	238	159	He	2.932	ppb	1.4	14003.99	0.0721	Pulse	0.1000	3

ISTD Table:

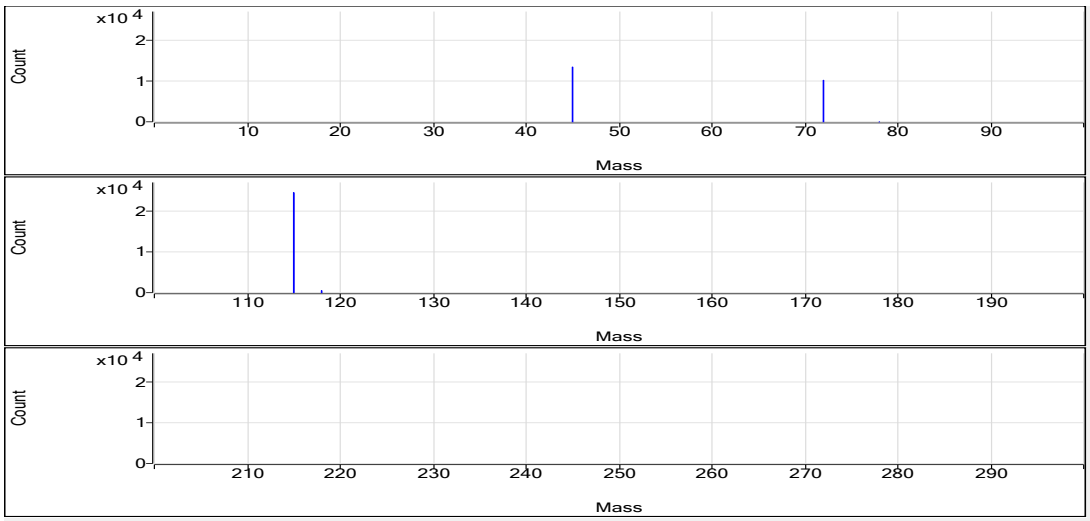
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1645047.32	0.8	96.3	Analog	0.1000	3
No Gas	Ge	72	839910.22	0.5	97.2	Pulse	0.1000	3
H2	Sc	45	133960.35	0.7	100.3	Pulse	0.1000	3
H2	Ge	72	101780.46	1.0	102.7	Pulse	0.1000	3
H2	In	115	244462.87	1.2	95.2	Pulse	0.1000	3
He	Sc	45	38866.53	1.5	98.5	Pulse	0.1000	3
He	Ge	72	66926.53	0.6	98.3	Pulse	0.1000	3
He	In	115	52727.03	1.9	95.2	Pulse	0.1000	3
He	Tb	159	194235.04	0.0	94.8	Pulse	0.1000	3
He	Bi	209	145229.61	0.4	96.0	Pulse	0.1000	3

No Gas

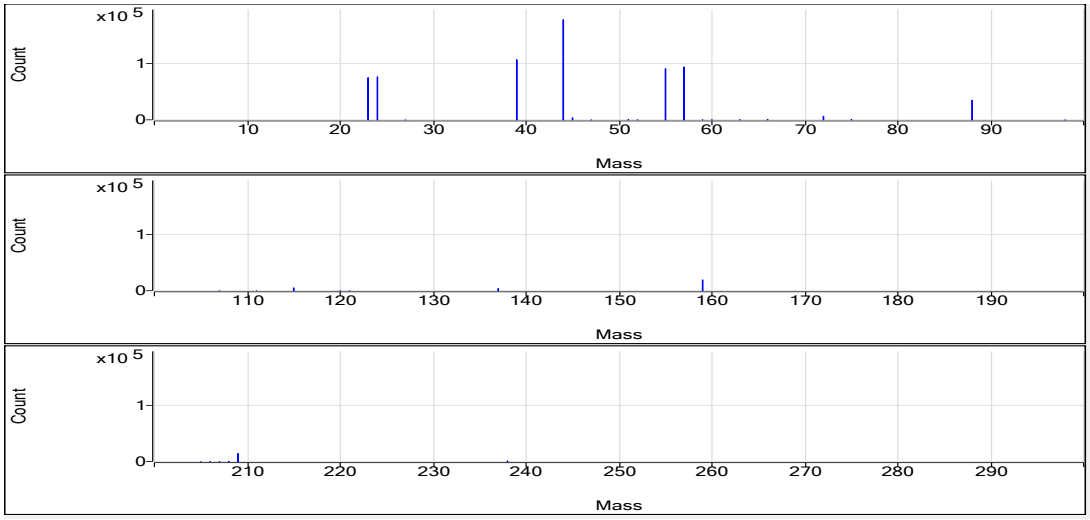


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.006	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.023	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.02	0	32.00	0.0003	2.616E-05
Se	78	2	H2	-0.012	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	0.127	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.041	0.0001	8.00	0.0004	6.3E-05
Na	23	3	He	8142.278	21.0466	809779.44	0.0025	0.7502
Na	23	3	He	7318.766	18.9938	750599.05	0.0025	0.7502
Na	23	3	He	6961.186	18.1025	698866.71	0.0025	0.7502
Mg	24	3	He	16374.006	19.8531	763855.85	0.0012	0.02618
Mg	24	3	He	16060.152	19.473	769534.91	0.0012	0.02618
Mg	24	3	He	16389.157	19.8714	767157.10	0.0012	0.02618
Al	27	3	He	44.455	0.0221	850.05	0.0004	0.005329
Al	27	3	He	27.474	0.0157	620.03	0.0004	0.005329
Al	27	3	He	42.882	0.0215	830.04	0.0004	0.005329
K	39	3	He	5185.584	5.6797	218529.14	0.001	0.5307
K	39	3	He	4893.006	5.3892	212969.81	0.001	0.5307
K	39	3	He	5020.892	5.5162	212957.67	0.001	0.5307
Ca	44	3	He	175726.852	9.2546	356075.75	0.0001	0.004441
Ca	44	3	He	171741.408	9.0448	357433.41	0.0001	0.004441
Ca	44	3	He	176146.428	9.2767	358137.16	0.0001	0.004441
Ti	47	3	He	-0.479	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	0.37	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	0.659	0.0007	28.00	0.0004	0.0004559
V	51	3	He	1.345	0.0497	1914.13	0.0176	0.02609
V	51	3	He	1.302	0.049	1936.13	0.0176	0.02609
V	51	3	He	1.262	0.0483	1864.12	0.0176	0.02609
Cr	52	3	He	1.08	0.0741	2850.33	0.0217	0.05061
Cr	52	3	He	0.525	0.062	2450.27	0.0217	0.05061
Cr	52	3	He	0.89	0.0699	2700.33	0.0217	0.05061
Mn	55	3	He	518.328	4.735	182182.61	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	505.208	4.6155	182393.42	0.0091	0.01071
Mn	55	3	He	518.748	4.7389	182948.97	0.0091	0.01071
Fe	57	3	He	60964.357	24.3538	937023.81	0.0004	0.008452
Fe	57	3	He	59930.672	23.941	946100.77	0.0004	0.008452
Fe	57	3	He	61461.901	24.5525	947875.22	0.0004	0.008452
Co	59	3	He	0.304	0.0186	714.02	0.0413	0.006013
Co	59	3	He	0.27	0.0172	678.02	0.0413	0.006013
Co	59	3	He	0.283	0.0177	684.02	0.0413	0.006013
Ni	60	3	He	0.574	0.0185	710.02	0.0117	0.01172
Ni	60	3	He	0.528	0.0179	708.02	0.0117	0.01172
Ni	60	3	He	0.67	0.0196	756.02	0.0117	0.01172
Cu	63	3	He	0.109	0.0166	1116.05	0.0196	0.01443
Cu	63	3	He	0.154	0.0174	1162.05	0.0196	0.01443
Cu	63	3	He	0.168	0.0177	1184.05	0.0196	0.01443
Zn	66	3	He	10.799	0.0274	1842.12	0.0023	0.002807
Zn	66	3	He	10.495	0.0267	1776.11	0.0023	0.002807
Zn	66	3	He	10.106	0.0258	1722.10	0.0023	0.002807
As	75	3	He	14.297	0.0276	1858.12	0.0018	0.001271
As	75	3	He	15.049	0.029	1930.13	0.0018	0.001271
As	75	3	He	14.191	0.0274	1830.12	0.0018	0.001271
Sr	88	3	He	821.823	6.7534	357964.80	0.0082	0.00114
Sr	88	3	He	803.289	6.6011	353590.11	0.0082	0.00114
Sr	88	3	He	820.864	6.7455	348143.94	0.0082	0.00114
Mo	98	3	He	1.066	0.0204	1080.07	0.0177	0.001504
Mo	98	3	He	1.011	0.0194	1040.06	0.0177	0.001504
Mo	98	3	He	1.261	0.0238	1230.09	0.0177	0.001504
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.403	0.016	850.06	0.0126	0.01097
Sn	120	3	He	0.82	0.0213	1140.09	0.0126	0.01097
Sn	120	3	He	0.314	0.0149	770.05	0.0126	0.01097
Sb	121	3	He	0.158	0.0023	120.00	0.012	0.0003595
Sb	121	3	He	0.089	0.0014	76.67	0.012	0.0003595
Sb	121	3	He	0.19	0.0026	136.67	0.012	0.0003595
Ba	137	3	He	192.565	0.7517	39842.52	0.0039	0.0003633
Ba	137	3	He	192.616	0.7519	40274.03	0.0039	0.0003633
Ba	137	3	He	201.804	0.7877	40655.14	0.0039	0.0003633
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.06	0.0002	40.00	0.0189	0.001334
Pb	208	3	He	3.678	0.094	9943.68	0.0252	0.001497
Pb	208	3	He	3.686	0.0942	9963.80	0.0252	0.001497
Pb	208	3	He	3.599	0.092	9383.29	0.0252	0.001497
U	238	3	He	2.975	0.0731	14207.50	0.0245	0.0001141
U	238	3	He	2.893	0.0711	13817.17	0.0245	0.0001141
U	238	3	He	2.929	0.072	13987.30	0.0245	0.0001141
Sc	45	1	No Gas			1637020.91		
Sc	45	1	No Gas			1637833.88		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1660287.16		
Ge	72	1	No Gas			837453.35		
Ge	72	1	No Gas			844646.16		
Ge	72	1	No Gas			837631.16		
Sc	45	2	H2			132865.25		
Sc	45	2	H2			134275.99		
Sc	45	2	H2			134739.82		
Ge	72	2	H2			102918.47		
Ge	72	2	H2			100934.84		
Ge	72	2	H2			101488.07		
In	115	2	H2			244889.41		
In	115	2	H2			241355.68		
In	115	2	H2			247143.53		
Sc	45	3	He			38475.48		
Sc	45	3	He			39518.01		
Sc	45	3	He			38606.09		
Ge	72	3	He			67351.44		
Ge	72	3	He			66618.77		
Ge	72	3	He			66809.37		
In	115	3	He			53010.97		
In	115	3	He			53573.02		
In	115	3	He			51616.43		
Tb	159	3	He			194254.84		
Tb	159	3	He			194255.49		
Tb	159	3	He			194194.80		
Bi	209	3	He			145710.99		
Bi	209	3	He			145397.41		
Bi	209	3	He			144580.42		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

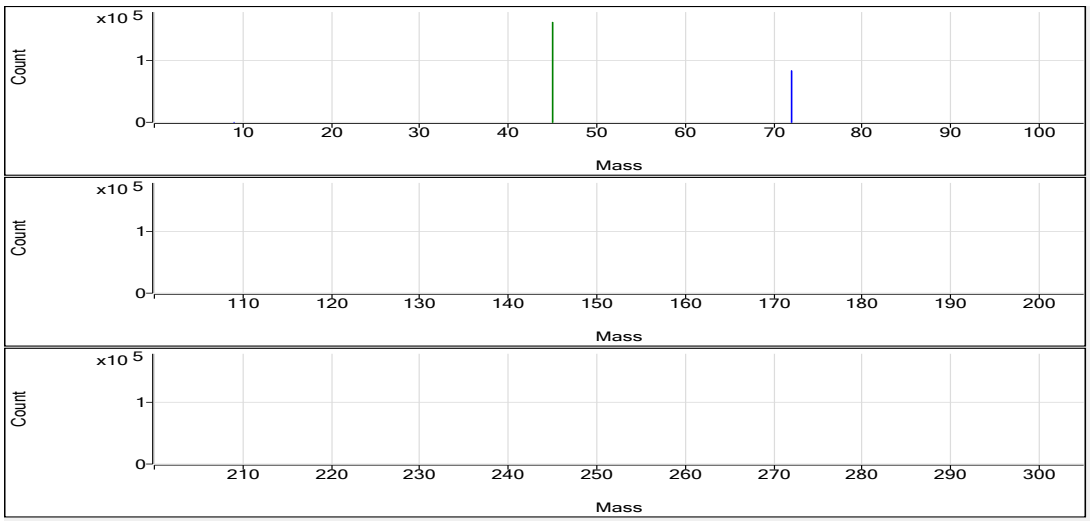
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.031	ppb	N/A	25.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.106	ppb	N/A	2.22	0.0000	Pulse	1.5000	3
Na	23	45	He	1974.045	ppb	8.5	219834.78	5.6709	Pulse	0.1000	3
Mg	24	45	He	134.434	ppb	1.3	7328.49	0.1890	Pulse	0.1000	3
Al	27	45	He	66.538	ppb	12.0	1180.08	0.0304	Pulse	0.1000	3
K	39	45	He	38.425	ppb	186.1	22045.51	0.5688	Pulse	0.5000	3
Ca	44	45	He	693.737	ppb	4.9	1588.08	0.0410	Pulse	0.5000	3
Ti	47	45	He	4.980	ppb	9.5	96.67	0.0025	Pulse	0.5000	3
V	51	45	He	-0.173	ppb	N/A	894.03	0.0231	Pulse	0.5000	3
Cr	52	45	He	-0.255	ppb	N/A	1746.82	0.0451	Pulse	0.1000	3
Mn	55	45	He	1.595	ppb	11.0	978.70	0.0252	Pulse	0.5000	3
Fe	57	45	He	90.794	ppb	6.4	1733.48	0.0447	Pulse	0.1000	3
Co	59	45	He	-0.049	ppb	N/A	154.67	0.0040	Pulse	0.5000	3
Ni	60	45	He	-0.166	ppb	N/A	378.68	0.0098	Pulse	0.5000	3
Cu	63	72	He	0.006	ppb	439.5	972.03	0.0146	Pulse	0.5000	3
Zn	66	72	He	0.684	ppb	10.1	291.33	0.0044	Pulse	0.5000	3
As	75	72	He	2.509	ppb	3.1	393.34	0.0059	Pulse	0.5000	3
Sr	88	115	He	1.729	ppb	3.5	810.05	0.0153	Pulse	0.1000	3
Mo	98	115	He	-0.049	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Ag	107	115	He	-0.019	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.006	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	1.546	ppb	27.1	1607.53	0.0304	Pulse	0.1000	3
Sb	121	115	He	0.114	ppb	16.2	91.11	0.0017	Pulse	0.3000	3
Ba	137	115	He	3.559	ppb	20.5	750.04	0.0142	Pulse	0.1000	3
Tl	205	159	He	-0.053	ppb	N/A	63.34	0.0003	Pulse	0.1000	3
Pb	208	159	He	0.351	ppb	4.4	1986.80	0.0103	Pulse	0.1000	3
U	238	159	He	0.001	ppb	124.5	26.67	0.0001	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1628756.95	1.5	95.3	Analog	0.1000	3
No Gas	Ge	72	839103.55	0.7	97.1	Pulse	0.1000	3
H2	Sc	45	131859.78	0.8	98.7	Pulse	0.1000	3
H2	Ge	72	101825.05	0.7	102.8	Pulse	0.1000	3
H2	In	115	248836.48	0.2	96.9	Pulse	0.1000	3
He	Sc	45	38779.92	0.8	98.2	Pulse	0.1000	3
He	Ge	72	66805.76	0.9	98.1	Pulse	0.1000	3
He	In	115	52755.33	1.9	95.2	Pulse	0.1000	3
He	Tb	159	192539.93	0.7	94.0	Pulse	0.1000	3
He	Bi	209	146405.30	0.9	96.8	Pulse	0.1000	3

No Gas



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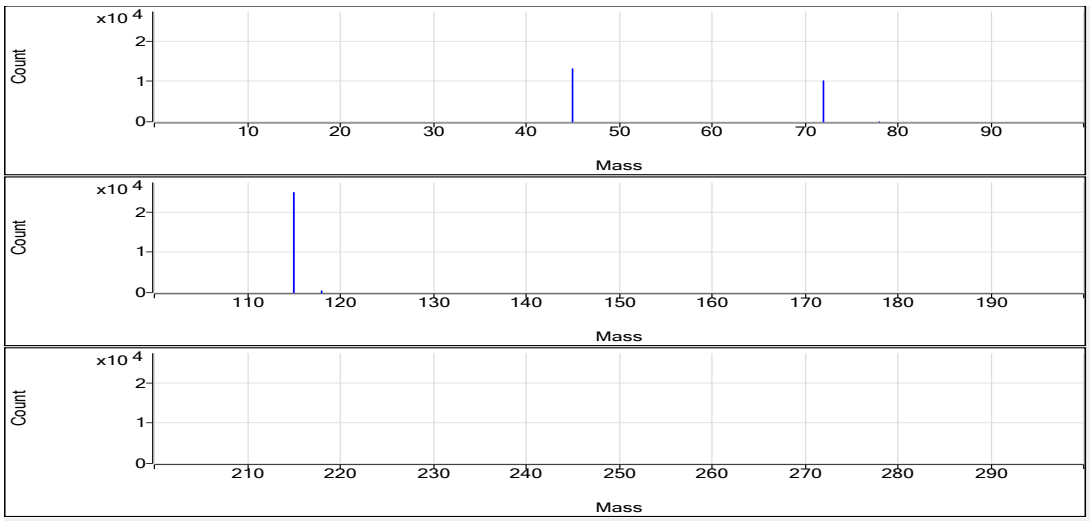
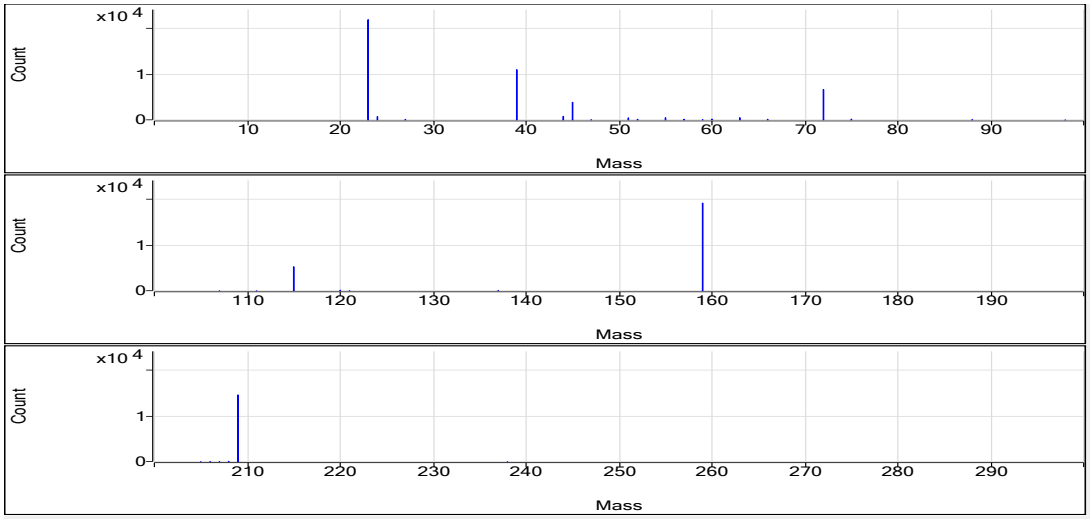


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.052	0	14.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.035	0	24.00	0.0003	2.616E-05
Se	78	2	H2	-0.112	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.095	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.112	0	2.00	0.0004	6.3E-05
Na	23	3	He	2149.298	6.1078	235309.33	0.0025	0.7502
Na	23	3	He	1956.904	5.6282	217622.30	0.0025	0.7502
Na	23	3	He	1815.934	5.2768	206572.71	0.0025	0.7502
Mg	24	3	He	133.399	0.1877	7231.81	0.0012	0.02618
Mg	24	3	He	133.478	0.1878	7261.81	0.0012	0.02618
Mg	24	3	He	136.425	0.1914	7491.85	0.0012	0.02618
Al	27	3	He	57.456	0.027	1040.06	0.0004	0.005329
Al	27	3	He	72.286	0.0326	1260.08	0.0004	0.005329
Al	27	3	He	69.87	0.0317	1240.09	0.0004	0.005329
K	39	3	He	117.751	0.6476	24948.86	0.001	0.5307
K	39	3	He	18.567	0.5491	21231.64	0.001	0.5307
K	39	3	He	-21.043	0.5098	19956.03	0.001	0.5307
Ca	44	3	He	732.251	0.043	1656.09	0.0001	0.004441
Ca	44	3	He	679.17	0.0402	1554.08	0.0001	0.004441
Ca	44	3	He	669.79	0.0397	1554.08	0.0001	0.004441
Ti	47	3	He	5.359	0.0026	102.00	0.0004	0.0004559
Ti	47	3	He	4.45	0.0023	88.00	0.0004	0.0004559
Ti	47	3	He	5.131	0.0026	100.00	0.0004	0.0004559
V	51	3	He	-0.209	0.0224	864.03	0.0176	0.02609
V	51	3	He	-0.14	0.0236	914.03	0.0176	0.02609
V	51	3	He	-0.171	0.0231	904.03	0.0176	0.02609
Cr	52	3	He	-0.047	0.0496	1910.17	0.0217	0.05061
Cr	52	3	He	-0.27	0.0447	1730.14	0.0217	0.05061
Cr	52	3	He	-0.448	0.0409	1600.16	0.0217	0.05061
Mn	55	3	He	1.696	0.0262	1008.04	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.697	0.0262	1012.04	0.0091	0.01071
Mn	55	3	He	1.392	0.0234	916.03	0.0091	0.01071
Fe	57	3	He	90.642	0.0446	1720.15	0.0004	0.008452
Fe	57	3	He	96.712	0.0471	1820.15	0.0004	0.008452
Fe	57	3	He	85.029	0.0424	1660.14	0.0004	0.008452
Co	59	3	He	-0.043	0.0043	164.00	0.0413	0.006013
Co	59	3	He	-0.037	0.0045	174.00	0.0413	0.006013
Co	59	3	He	-0.068	0.0032	126.00	0.0413	0.006013
Ni	60	3	He	-0.078	0.0108	416.01	0.0117	0.01172
Ni	60	3	He	-0.161	0.0098	380.01	0.0117	0.01172
Ni	60	3	He	-0.258	0.0087	340.01	0.0117	0.01172
Cu	63	3	He	0.036	0.0151	1002.04	0.0196	0.01443
Cu	63	3	He	-0.016	0.0141	952.03	0.0196	0.01443
Cu	63	3	He	-0.002	0.0144	962.03	0.0196	0.01443
Zn	66	3	He	0.745	0.0045	298.00	0.0023	0.002807
Zn	66	3	He	0.697	0.0044	296.00	0.0023	0.002807
Zn	66	3	He	0.609	0.0042	280.00	0.0023	0.002807
As	75	3	He	2.592	0.006	400.01	0.0018	0.001271
As	75	3	He	2.437	0.0058	388.01	0.0018	0.001271
As	75	3	He	2.497	0.0059	392.01	0.0018	0.001271
Sr	88	3	He	1.795	0.0159	850.05	0.0082	0.00114
Sr	88	3	He	1.716	0.0152	810.05	0.0082	0.00114
Sr	88	3	He	1.677	0.0149	770.04	0.0082	0.00114
Mo	98	3	He	-0.064	0.0004	20.00	0.0177	0.001504
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.041	0.0008	40.00	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	2.028	0.0365	1951.83	0.0126	0.01097
Sn	120	3	He	1.342	0.0279	1480.40	0.0126	0.01097
Sn	120	3	He	1.268	0.0269	1390.36	0.0126	0.01097
Sb	121	3	He	0.094	0.0015	80.00	0.012	0.0003595
Sb	121	3	He	0.116	0.0018	93.33	0.012	0.0003595
Sb	121	3	He	0.131	0.0019	100.00	0.012	0.0003595
Ba	137	3	He	2.782	0.0112	600.03	0.0039	0.0003633
Ba	137	3	He	3.668	0.0147	780.05	0.0039	0.0003633
Ba	137	3	He	4.226	0.0169	870.05	0.0039	0.0003633
Tl	205	3	He	-0.059	0.0002	40.00	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.01	0.0189	0.001334
Tl	205	3	He	-0.06	0.0002	40.00	0.0189	0.001334
Pb	208	3	He	0.334	0.0099	1000.07	0.0252	0.001497
Pb	208	3	He	0.354	0.0104	1030.08	0.0252	0.001497
Pb	208	3	He	0.364	0.0107	1160.09	0.0252	0.001497
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1614763.41		
Sc	45	1	No Gas			1613899.66		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1657607.79		
Ge	72	1	No Gas			832666.08		
Ge	72	1	No Gas			839682.41		
Ge	72	1	No Gas			844962.17		
Sc	45	2	H2			133005.58		
Sc	45	2	H2			131675.28		
Sc	45	2	H2			130898.49		
Ge	72	2	H2			101429.63		
Ge	72	2	H2			102656.61		
Ge	72	2	H2			101388.91		
In	115	2	H2			248317.38		
In	115	2	H2			249344.29		
In	115	2	H2			248847.77		
Sc	45	3	He			38526.10		
Sc	45	3	He			38666.37		
Sc	45	3	He			39147.30		
Ge	72	3	He			66207.01		
Ge	72	3	He			67390.78		
Ge	72	3	He			66819.49		
In	115	3	He			53502.68		
In	115	3	He			53161.18		
In	115	3	He			51635.89		
Tb	159	3	He			190962.44		
Tb	159	3	He			193304.00		
Tb	159	3	He			193353.36		
Bi	209	3	He			144984.39		
Bi	209	3	He			147591.04		
Bi	209	3	He			146640.48		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
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Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

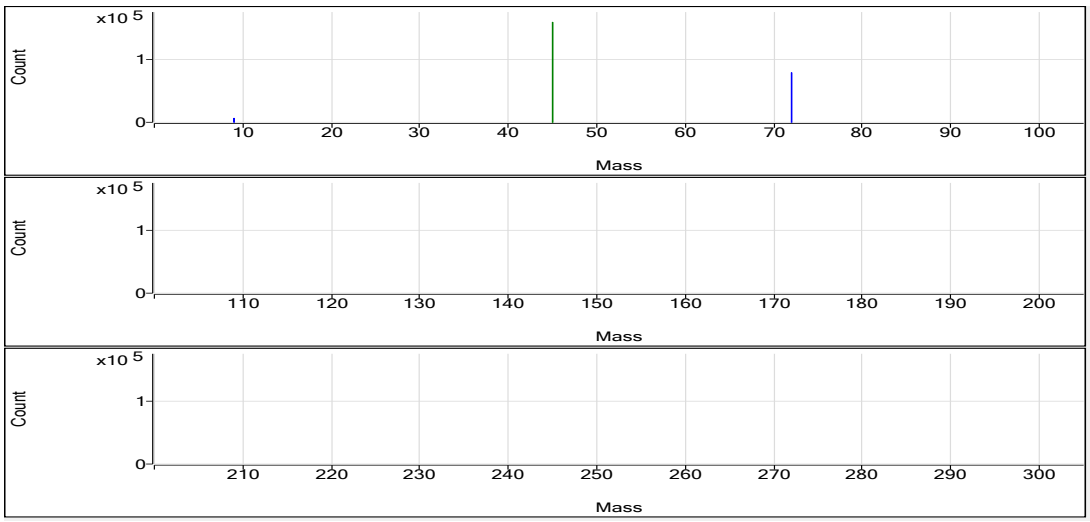
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.665	ppb	7.2	13369.33	0.0083	Pulse	0.5000	3
Se	78	72	H2	25.201	ppb	2.4	937.36	0.0098	Pulse	1.5000	3
Na	23	45	He	2651.006	ppb	3.5	277624.47	7.3584	Pulse	0.1000	3
Mg	24	45	He	2649.498	ppb	3.4	122023.84	3.2344	Pulse	0.1000	3
Al	27	45	He	2625.373	ppb	2.3	37560.00	0.9954	Pulse	0.1000	3
K	39	45	He	2638.658	ppb	5.2	118845.87	3.1507	Pulse	0.5000	3
Ca	44	45	He	2622.259	ppb	1.4	5377.57	0.1425	Pulse	0.5000	3
Ti	47	45	He	2631.103	ppb	3.5	40612.63	1.0765	Pulse	0.5000	3
V	51	45	He	262.377	ppb	3.0	175100.41	4.6409	Pulse	0.5000	3
Cr	52	45	He	263.336	ppb	3.1	217754.02	5.7715	Pulse	0.1000	3
Mn	55	45	He	265.379	ppb	2.7	91670.22	2.4295	Pulse	0.5000	3
Fe	57	45	He	2610.555	ppb	1.8	39665.82	1.0509	Pulse	0.1000	3
Co	59	45	He	260.687	ppb	2.6	406354.68	10.7694	Pulse	0.5000	3
Ni	60	45	He	261.411	ppb	2.7	116289.87	3.0820	Pulse	0.5000	3
Cu	63	72	He	254.307	ppb	0.9	322405.99	4.9892	Pulse	0.5000	3
Zn	66	72	He	254.969	ppb	0.7	37630.15	0.5823	Pulse	0.5000	3
As	75	72	He	252.569	ppb	0.9	30125.45	0.4662	Pulse	0.5000	3
Sr	88	115	He	24.581	ppb	3.6	10497.11	0.2031	Pulse	0.1000	3
Mo	98	115	He	25.178	ppb	2.5	23124.35	0.4475	Pulse	0.1000	3
Ag	107	115	He	25.205	ppb	0.8	47980.65	0.9282	Pulse	0.1000	3
Cd	111	115	He	26.080	ppb	0.8	5532.34	0.1070	Pulse	0.5000	3
Sn	120	115	He	25.027	ppb	0.4	16849.62	0.3260	Pulse	0.1000	3
Sb	121	115	He	25.917	ppb	3.9	16147.35	0.3126	Pulse	0.3000	3
Ba	137	115	He	250.163	ppb	3.4	50457.21	0.9764	Pulse	0.1000	3
Tl	205	159	He	25.098	ppb	0.7	90225.23	0.4767	Pulse	0.1000	3
Pb	208	159	He	25.757	ppb	3.1	122899.34	0.6495	Pulse	0.1000	3
U	238	159	He	26.028	ppb	1.6	120948.49	0.6391	Pulse	0.1000	3

ISTD Table:

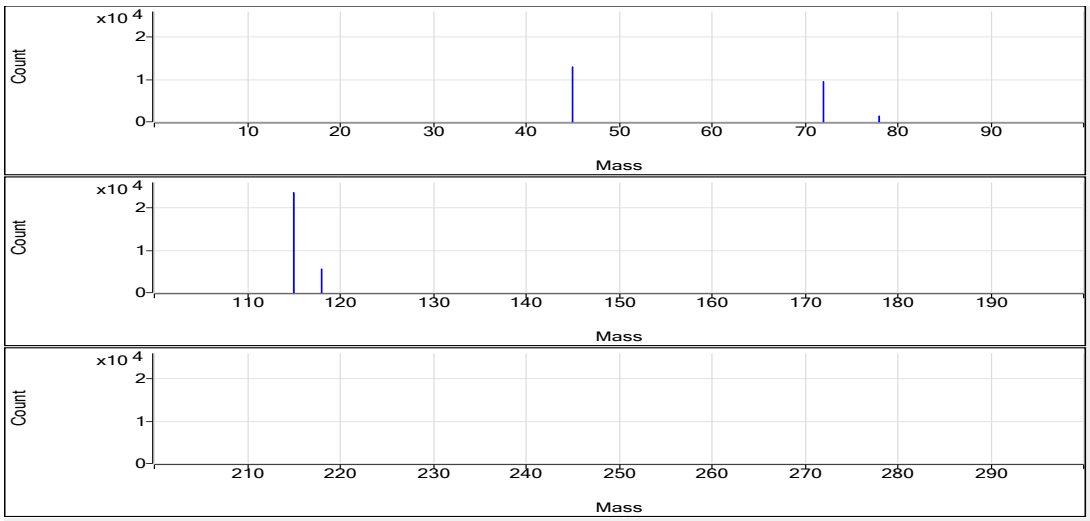
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1606668.41	1.6	94.0	Analog	0.1000	3
No Gas	Ge	72	797479.94	1.1	92.3	Pulse	0.1000	3
H2	Sc	45	129951.37	1.8	97.3	Pulse	0.1000	3
H2	Ge	72	95318.53	1.5	96.2	Pulse	0.1000	3
H2	In	115	236691.48	1.3	92.2	Pulse	0.1000	3
He	Sc	45	37750.89	2.8	95.6	Pulse	0.1000	3
He	Ge	72	64623.32	0.7	94.9	Pulse	0.1000	3
He	In	115	51691.93	2.2	93.3	Pulse	0.1000	3
He	Tb	159	189283.82	1.4	92.4	Pulse	0.1000	3
He	Bi	209	140340.26	1.2	92.8	Pulse	0.1000	3

No Gas

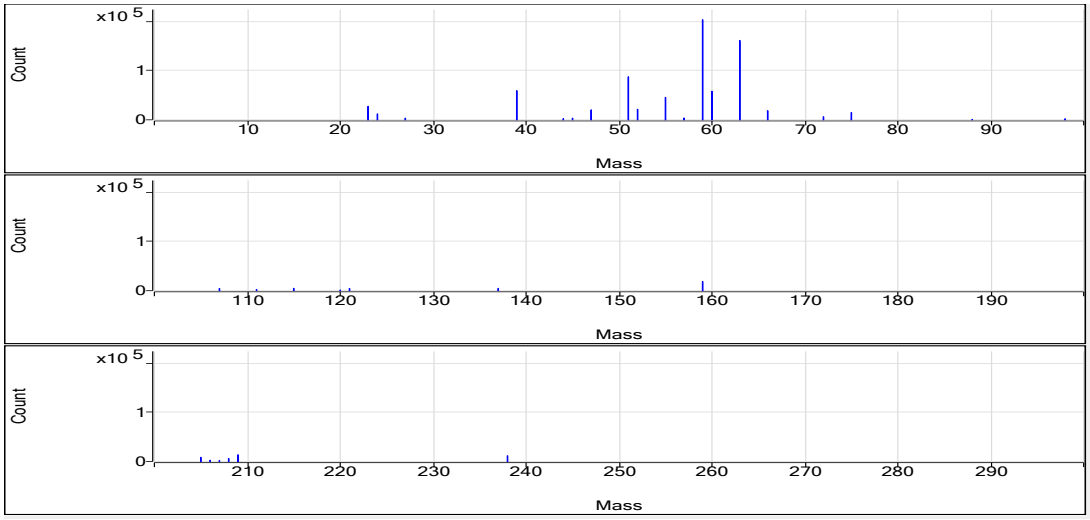


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	22.8	0.0077	12554.70	0.0003	2.616E-05
Be	9	1	No Gas	24.884	0.0084	13529.43	0.0003	2.616E-05
Be	9	1	No Gas	26.311	0.0089	14023.85	0.0003	2.616E-05
Se	78	2	H2	25.301	0.0099	933.36	0.0004	6.3E-05
Se	78	2	H2	25.762	0.0101	950.03	0.0004	6.3E-05
Se	78	2	H2	24.541	0.0096	928.70	0.0004	6.3E-05
Na	23	3	He	2753.434	7.6137	278599.00	0.0025	0.7502
Na	23	3	He	2622.406	7.2871	276579.78	0.0025	0.7502
Na	23	3	He	2577.178	7.1744	277694.64	0.0025	0.7502
Mg	24	3	He	2744.883	3.3499	122578.03	0.0012	0.02618
Mg	24	3	He	2636.114	3.2182	122145.00	0.0012	0.02618
Mg	24	3	He	2567.495	3.1351	121348.48	0.0012	0.02618
Al	27	3	He	2696.477	1.0222	37403.02	0.0004	0.005329
Al	27	3	He	2592.143	0.9828	37302.92	0.0004	0.005329
Al	27	3	He	2587.5	0.9811	37974.06	0.0004	0.005329
K	39	3	He	2792.863	3.3038	120892.93	0.001	0.5307
K	39	3	He	2593.743	3.1061	117891.76	0.001	0.5307
K	39	3	He	2529.37	3.0422	117752.93	0.001	0.5307
Ca	44	3	He	2640.667	0.1434	5248.86	0.0001	0.004441
Ca	44	3	He	2645.957	0.1437	5454.94	0.0001	0.004441
Ca	44	3	He	2580.153	0.1403	5428.92	0.0001	0.004441
Ti	47	3	He	2737.752	1.1201	40986.85	0.0004	0.0004559
Ti	47	3	He	2586.445	1.0582	40164.91	0.0004	0.0004559
Ti	47	3	He	2569.111	1.0511	40686.13	0.0004	0.0004559
V	51	3	He	270.982	4.7922	175356.02	0.0176	0.02609
V	51	3	He	260.369	4.6056	174803.16	0.0176	0.02609
V	51	3	He	255.781	4.5249	175142.05	0.0176	0.02609
Cr	52	3	He	272.207	5.9642	218240.13	0.0217	0.05061
Cr	52	3	He	261.364	5.7287	217428.77	0.0217	0.05061
Cr	52	3	He	256.437	5.6216	217593.16	0.0217	0.05061
Mn	55	3	He	273.705	2.5054	91676.84	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	262.253	2.401	91129.91	0.0091	0.01071
Mn	55	3	He	260.18	2.3821	92203.91	0.0091	0.01071
Fe	57	3	He	2657.24	1.0696	39137.94	0.0004	0.008452
Fe	57	3	He	2561.709	1.0314	39147.84	0.0004	0.008452
Fe	57	3	He	2612.715	1.0518	40711.69	0.0004	0.008452
Co	59	3	He	268.237	11.0811	405476.50	0.0413	0.006013
Co	59	3	He	258.793	10.6912	405781.44	0.0413	0.006013
Co	59	3	He	255.031	10.5359	407806.09	0.0413	0.006013
Ni	60	3	He	268.882	3.1698	115987.07	0.0117	0.01172
Ni	60	3	He	260.528	3.0716	116583.25	0.0117	0.01172
Ni	60	3	He	254.824	3.0046	116299.30	0.0117	0.01172
Cu	63	3	He	252.604	4.9559	321792.91	0.0196	0.01443
Cu	63	3	He	253.389	4.9712	322238.63	0.0196	0.01443
Cu	63	3	He	256.929	5.0405	323186.44	0.0196	0.01443
Zn	66	3	He	254.992	0.5823	37811.89	0.0023	0.002807
Zn	66	3	He	256.695	0.5862	37998.34	0.0023	0.002807
Zn	66	3	He	253.221	0.5783	37080.23	0.0023	0.002807
As	75	3	He	251.38	0.464	30128.12	0.0018	0.001271
As	75	3	He	251.122	0.4635	30045.93	0.0018	0.001271
As	75	3	He	255.206	0.471	30202.29	0.0018	0.001271
Sr	88	3	He	24.343	0.2011	10173.54	0.0082	0.00114
Sr	88	3	He	25.57	0.2112	10914.06	0.0082	0.00114
Sr	88	3	He	23.829	0.1969	10403.73	0.0082	0.00114
Mo	98	3	He	25.855	0.4595	23237.73	0.0177	0.001504
Mo	98	3	He	24.629	0.4377	22616.90	0.0177	0.001504
Mo	98	3	He	25.049	0.4452	23518.41	0.0177	0.001504
Ag	107	3	He	25.311	0.9321	47141.46	0.0368	0.001325
Ag	107	3	He	24.97	0.9196	47512.33	0.0368	0.001325
Ag	107	3	He	25.335	0.933	49288.17	0.0368	0.001325
Cd	111	3	He	26.308	0.108	5460.98	0.0041	4.798E-05
Cd	111	3	He	26.007	0.1067	5515.00	0.0041	4.798E-05
Cd	111	3	He	25.924	0.1064	5621.05	0.0041	4.798E-05
Sn	120	3	He	25.141	0.3274	16559.38	0.0126	0.01097
Sn	120	3	He	24.96	0.3251	16799.60	0.0126	0.01097
Sn	120	3	He	24.979	0.3254	17189.89	0.0126	0.01097
Sb	121	3	He	27.029	0.3259	16485.46	0.012	0.0003595
Sb	121	3	He	25.701	0.31	16014.98	0.012	0.0003595
Sb	121	3	He	25.02	0.3018	15941.62	0.012	0.0003595
Ba	137	3	He	259.251	1.0119	51176.59	0.0039	0.0003633
Ba	137	3	He	242.173	0.9452	48838.37	0.0039	0.0003633
Ba	137	3	He	249.064	0.9721	51356.67	0.0039	0.0003633
Tl	205	3	He	24.907	0.4731	90882.30	0.0189	0.001334
Tl	205	3	He	25.179	0.4782	89303.27	0.0189	0.001334
Tl	205	3	He	25.209	0.4788	90490.11	0.0189	0.001334
Pb	208	3	He	24.929	0.6286	63588.83	0.0252	0.001497
Pb	208	3	He	26.504	0.6683	67536.68	0.0252	0.001497
Pb	208	3	He	25.839	0.6515	65608.42	0.0252	0.001497
U	238	3	He	25.644	0.6296	120958.87	0.0245	0.0001141
U	238	3	He	26.451	0.6495	121281.60	0.0245	0.0001141
U	238	3	He	25.99	0.6381	120605.01	0.0245	0.0001141
Sc	45	1	No Gas			1630550.60		
Sc	45	1	No Gas			1610460.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1578994.04		
Ge	72	1	No Gas			803927.57		
Ge	72	1	No Gas			800512.80		
Ge	72	1	No Gas			787999.44		
Sc	45	2	H2			129417.15		
Sc	45	2	H2			132460.82		
Sc	45	2	H2			127976.14		
Ge	72	2	H2			94517.21		
Ge	72	2	H2			94496.99		
Ge	72	2	H2			96941.40		
In	115	2	H2			235974.20		
In	115	2	H2			239956.25		
In	115	2	H2			234143.98		
Sc	45	3	He			36591.63		
Sc	45	3	He			37954.61		
Sc	45	3	He			38706.44		
Ge	72	3	He			64931.38		
Ge	72	3	He			64820.55		
Ge	72	3	He			64118.03		
In	115	3	He			50692.85		
In	115	3	He			51786.29		
In	115	3	He			52950.50		
Tb	159	3	He			192110.23		
Tb	159	3	He			186742.61		
Tb	159	3	He			188998.61		
Bi	209	3	He			142198.78		
Bi	209	3	He			138764.79		
Bi	209	3	He			140057.21		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 7:59:04 PM
Sample Name	CCB 7996167
Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

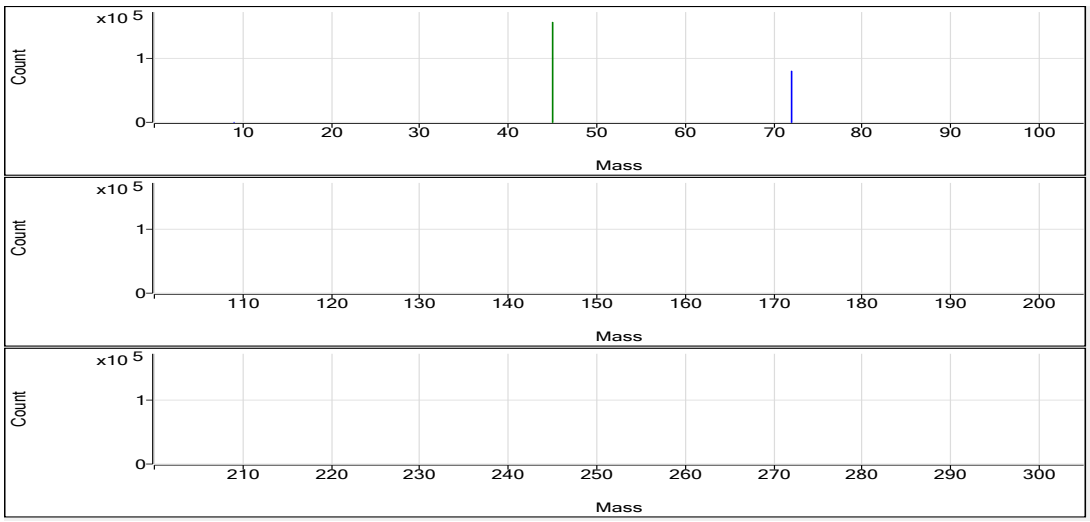
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.011	ppb	N/A	35.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.095	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	-38.583	ppb	N/A	24869.08	0.6540	Pulse	0.1000	3
Mg	24	45	He	-9.463	ppb	N/A	560.03	0.0147	Pulse	0.1000	3
Al	27	45	He	-4.148	ppb	N/A	143.34	0.0038	Pulse	0.1000	3
K	39	45	He	4.922	ppb	1761.4	20356.14	0.5355	Pulse	0.5000	3
Ca	44	45	He	-14.146	ppb	N/A	140.67	0.0037	Pulse	0.5000	3
Ti	47	45	He	0.172	ppb	81.6	20.00	0.0005	Pulse	0.5000	3
V	51	45	He	-0.020	ppb	N/A	979.37	0.0257	Pulse	0.5000	3
Cr	52	45	He	-0.231	ppb	N/A	1733.48	0.0456	Pulse	0.1000	3
Mn	55	45	He	-0.304	ppb	N/A	302.00	0.0079	Pulse	0.5000	3
Fe	57	45	He	-4.917	ppb	N/A	246.68	0.0065	Pulse	0.1000	3
Co	59	45	He	-0.001	ppb	N/A	226.67	0.0060	Pulse	0.5000	3
Ni	60	45	He	-0.132	ppb	N/A	386.68	0.0102	Pulse	0.5000	3
Cu	63	72	He	-0.267	ppb	N/A	594.68	0.0092	Pulse	0.5000	3
Zn	66	72	He	0.009	ppb	1861.8	182.67	0.0028	Pulse	0.5000	3
As	75	72	He	1.132	ppb	21.9	216.67	0.0034	Pulse	0.5000	3
Sr	88	115	He	-0.052	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Mo	98	115	He	-0.052	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	139.2	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.065	ppb	N/A	526.69	0.0101	Pulse	0.1000	3
Sb	121	115	He	0.032	ppb	7.9	38.89	0.0007	Pulse	0.3000	3
Ba	137	115	He	-0.027	ppb	N/A	13.33	0.0003	Pulse	0.1000	3
Tl	205	159	He	-0.035	ppb	N/A	126.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.012	ppb	N/A	223.34	0.0012	Pulse	0.1000	3
U	238	159	He	0.005	ppb	95.3	43.33	0.0002	Pulse	0.1000	3

ISTD Table:

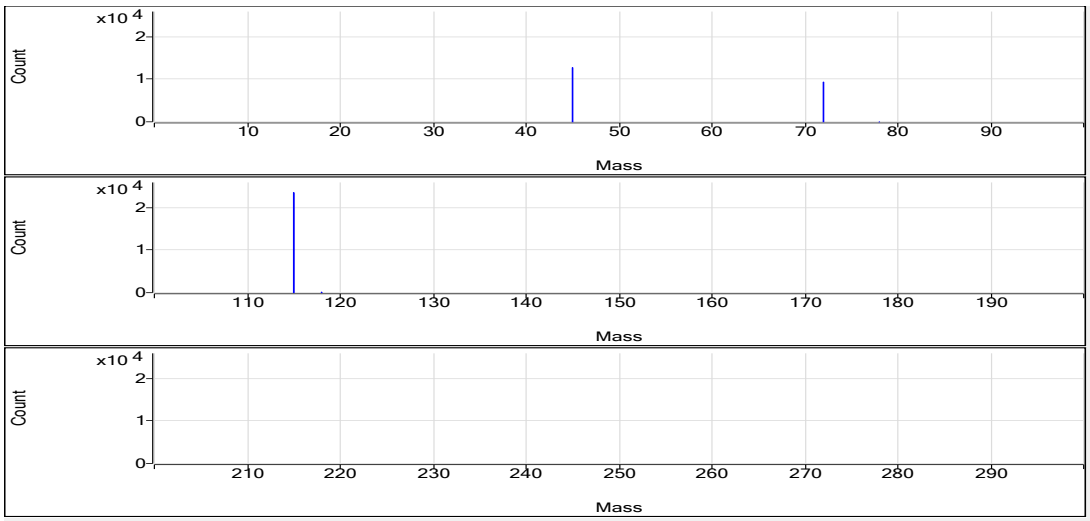
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1572675.39	0.5	92.0	Analog	0.1000	3
No Gas	Ge	72	805897.18	0.7	93.3	Pulse	0.1000	3
H2	Sc	45	127912.00	0.4	95.7	Pulse	0.1000	3
H2	Ge	72	93980.66	1.7	94.9	Pulse	0.1000	3
H2	In	115	236114.00	0.3	92.0	Pulse	0.1000	3
He	Sc	45	38034.79	0.9	96.4	Pulse	0.1000	3
He	Ge	72	64600.34	0.7	94.8	Pulse	0.1000	3
He	In	115	51943.58	1.1	93.8	Pulse	0.1000	3
He	Tb	159	188530.57	0.8	92.1	Pulse	0.1000	3
He	Bi	209	137628.21	1.6	91.0	Pulse	0.1000	3

No Gas

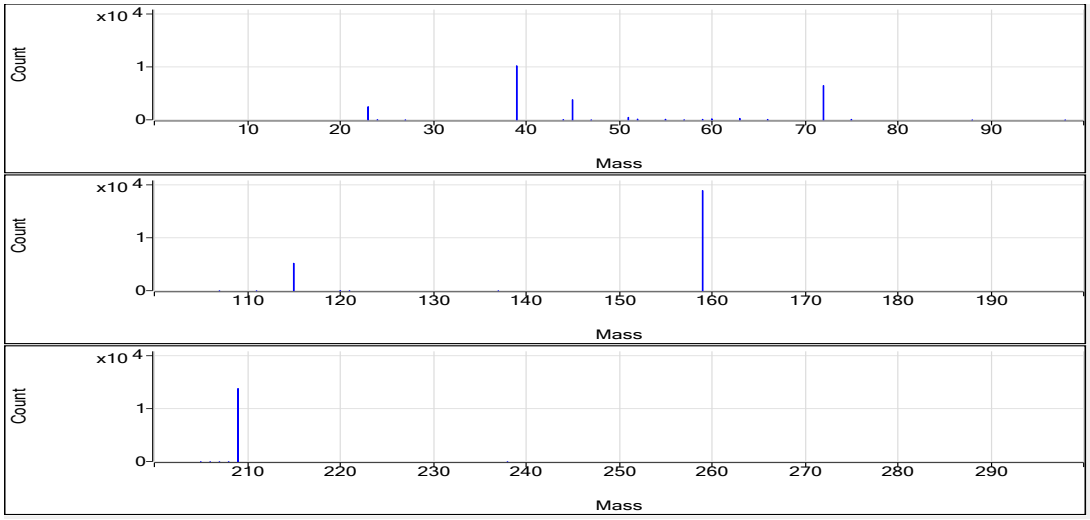


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.002	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.018	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.013	0	34.00	0.0003	2.616E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.107	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.07	0	3.33	0.0004	6.3E-05
Na	23	3	He	-29.742	0.676	25509.97	0.0025	0.7502
Na	23	3	He	-49.325	0.6272	24107.89	0.0025	0.7502
Na	23	3	He	-36.682	0.6587	24989.37	0.0025	0.7502
Mg	24	3	He	-9.585	0.0146	550.03	0.0012	0.02618
Mg	24	3	He	-9.374	0.0148	570.03	0.0012	0.02618
Mg	24	3	He	-9.431	0.0148	560.03	0.0012	0.02618
Al	27	3	He	-4.996	0.0034	130.01	0.0004	0.005329
Al	27	3	He	-2.403	0.0044	170.01	0.0004	0.005329
Al	27	3	He	-5.045	0.0034	130.00	0.0004	0.005329
K	39	3	He	104.501	0.6344	23939.52	0.001	0.5307
K	39	3	He	-35.878	0.495	19026.96	0.001	0.5307
K	39	3	He	-53.856	0.4772	18101.94	0.001	0.5307
Ca	44	3	He	-19.923	0.0034	128.00	0.0001	0.004441
Ca	44	3	He	-7.259	0.0041	156.00	0.0001	0.004441
Ca	44	3	He	-15.256	0.0036	138.00	0.0001	0.004441
Ti	47	3	He	0.311	0.0006	22.00	0.0004	0.0004559
Ti	47	3	He	0.03	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	0.174	0.0005	20.00	0.0004	0.0004559
V	51	3	He	0.053	0.027	1020.04	0.0176	0.02609
V	51	3	He	0.022	0.0265	1018.04	0.0176	0.02609
V	51	3	He	-0.135	0.0237	900.03	0.0176	0.02609
Cr	52	3	He	-0.219	0.0459	1730.15	0.0217	0.05061
Cr	52	3	He	-0.27	0.0448	1720.14	0.0217	0.05061
Cr	52	3	He	-0.206	0.0461	1750.16	0.0217	0.05061
Mn	55	3	He	-0.314	0.0078	296.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.364	0.0074	284.00	0.0091	0.01071
Mn	55	3	He	-0.232	0.0086	326.01	0.0091	0.01071
Fe	57	3	He	-3.247	0.0072	270.01	0.0004	0.008452
Fe	57	3	He	-6.18	0.006	230.01	0.0004	0.008452
Fe	57	3	He	-5.322	0.0063	240.01	0.0004	0.008452
Co	59	3	He	-0.011	0.0056	210.00	0.0413	0.006013
Co	59	3	He	-0.004	0.0058	224.00	0.0413	0.006013
Co	59	3	He	0.011	0.0065	246.00	0.0413	0.006013
Ni	60	3	He	-0.19	0.0095	358.01	0.0117	0.01172
Ni	60	3	He	-0.156	0.0099	380.01	0.0117	0.01172
Ni	60	3	He	-0.05	0.0111	422.01	0.0117	0.01172
Cu	63	3	He	-0.255	0.0095	610.02	0.0196	0.01443
Cu	63	3	He	-0.27	0.0092	596.02	0.0196	0.01443
Cu	63	3	He	-0.278	0.009	578.01	0.0196	0.01443
Zn	66	3	He	0.17	0.0032	206.00	0.0023	0.002807
Zn	66	3	He	0.009	0.0028	184.00	0.0023	0.002807
Zn	66	3	He	-0.152	0.0025	158.00	0.0023	0.002807
As	75	3	He	1.414	0.0039	250.00	0.0018	0.001271
As	75	3	He	1.029	0.0032	206.00	0.0018	0.001271
As	75	3	He	0.951	0.003	194.00	0.0018	0.001271
Sr	88	3	He	-0.116	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	-0.022	0.001	50.00	0.0082	0.00114
Sr	88	3	He	-0.02	0.001	50.00	0.0082	0.00114
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.041	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.074	0.0002	10.00	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	-0.13	0.0093	490.02	0.0126	0.01097
Sn	120	3	He	0.002	0.011	570.03	0.0126	0.01097
Sn	120	3	He	-0.067	0.0101	520.03	0.0126	0.01097
Sb	121	3	He	0.033	0.0008	40.00	0.012	0.0003595
Sb	121	3	He	0.034	0.0008	40.00	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	-0.093	0	0.00	0.0039	0.0003633
Ba	137	3	He	0.055	0.0006	30.00	0.0039	0.0003633
Ba	137	3	He	-0.043	0.0002	10.00	0.0039	0.0003633
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.028	0.0008	150.01	0.0189	0.001334
Pb	208	3	He	0.001	0.0015	150.01	0.0252	0.001497
Pb	208	3	He	-0.015	0.0011	90.00	0.0252	0.001497
Pb	208	3	He	-0.024	0.0009	90.00	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
Sc	45	1	No Gas			1565942.01		
Sc	45	1	No Gas			1581383.41		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1570700.76		
Ge	72	1	No Gas			800023.82		
Ge	72	1	No Gas			811307.10		
Ge	72	1	No Gas			806360.61		
Sc	45	2	H2			127361.00		
Sc	45	2	H2			128439.46		
Sc	45	2	H2			127935.55		
Ge	72	2	H2			95704.19		
Ge	72	2	H2			93762.75		
Ge	72	2	H2			92475.05		
In	115	2	H2			236277.79		
In	115	2	H2			236671.25		
In	115	2	H2			235392.97		
Sc	45	3	He			37734.09		
Sc	45	3	He			38435.47		
Sc	45	3	He			37934.80		
Ge	72	3	He			64519.98		
Ge	72	3	He			65082.09		
Ge	72	3	He			64198.94		
In	115	3	He			52559.69		
In	115	3	He			51896.97		
In	115	3	He			51385.13		
Tb	159	3	He			190243.42		
Tb	159	3	He			187410.35		
Tb	159	3	He			187937.93		
Bi	209	3	He			137222.07		
Bi	209	3	He			135706.47		
Bi	209	3	He			139956.09		

Quantitation Report

Data File Name	273SMPL.d
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Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

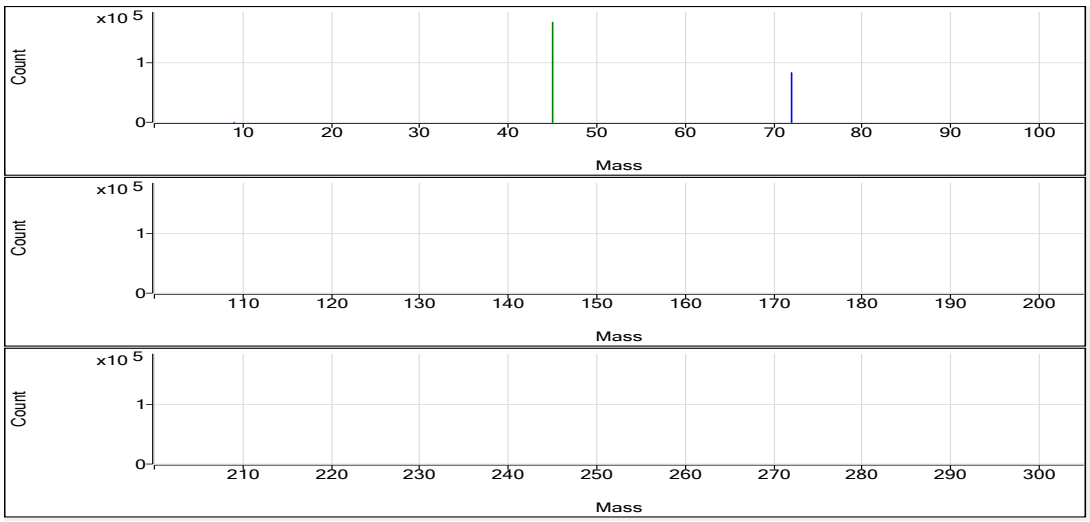
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.408	ppb	10.7	274.67	0.0002	Pulse	0.5000	3
Se	78	72	H2	0.344	ppb	27.3	19.11	0.0002	Pulse	1.5000	3
Na	23	45	He	46924.693	ppb	2.1	4711377.01	117.7205	Analog	0.1000	3
Mg	24	45	He	3217.890	ppb	2.7	156976.15	3.9226	Pulse	0.1000	3
Al	27	45	He	10456.960	ppb	1.3	158047.16	3.9487	Pulse	0.1000	3
K	39	45	He	13443.751	ppb	2.2	555484.88	13.8797	Pulse	0.5000	3
Ca	44	45	He	7698.892	ppb	0.1	16401.54	0.4097	Pulse	0.5000	3
Ti	47	45	He	60.266	ppb	4.7	1004.71	0.0251	Pulse	0.5000	3
V	51	45	He	23.287	ppb	1.6	17437.32	0.4357	Pulse	0.5000	3
Cr	52	45	He	17.612	ppb	0.5	17342.94	0.4332	Pulse	0.1000	3
Mn	55	45	He	46.702	ppb	2.8	17462.68	0.4364	Pulse	0.5000	3
Fe	57	45	He	17293.016	ppb	2.6	276697.97	6.9142	Pulse	0.1000	3
Co	59	45	He	2.209	ppb	1.4	3891.15	0.0972	Pulse	0.5000	3
Ni	60	45	He	4.043	ppb	1.4	2370.18	0.0592	Pulse	0.5000	3
Cu	63	72	He	55.393	ppb	1.0	73341.66	1.0980	Pulse	0.5000	3
Zn	66	72	He	49.956	ppb	1.1	7771.90	0.1163	Pulse	0.5000	3
As	75	72	He	7.469	ppb	2.0	1003.37	0.0150	Pulse	0.5000	3
Sr	88	115	He	60.874	ppb	4.1	25824.88	0.5013	Pulse	0.1000	3
Mo	98	115	He	1.146	ppb	1.7	1123.41	0.0218	Pulse	0.1000	3
Ag	107	115	He	-0.001	ppb	N/A	66.67	0.0013	Pulse	0.1000	3
Cd	111	115	He	0.007	ppb	130.5	4.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	1.104	ppb	24.0	1280.09	0.0249	Pulse	0.1000	3
Sb	121	115	He	0.076	ppb	9.2	65.56	0.0013	Pulse	0.3000	3
Ba	137	115	He	66.665	ppb	2.3	13422.93	0.2605	Pulse	0.1000	3
Tl	205	159	He	0.078	ppb	34.5	540.03	0.0028	Pulse	0.1000	3
Pb	208	159	He	14.708	ppb	1.6	71270.34	0.3715	Pulse	0.1000	3
U	238	159	He	1.127	ppb	2.4	5327.84	0.0278	Pulse	0.1000	3

ISTD Table:

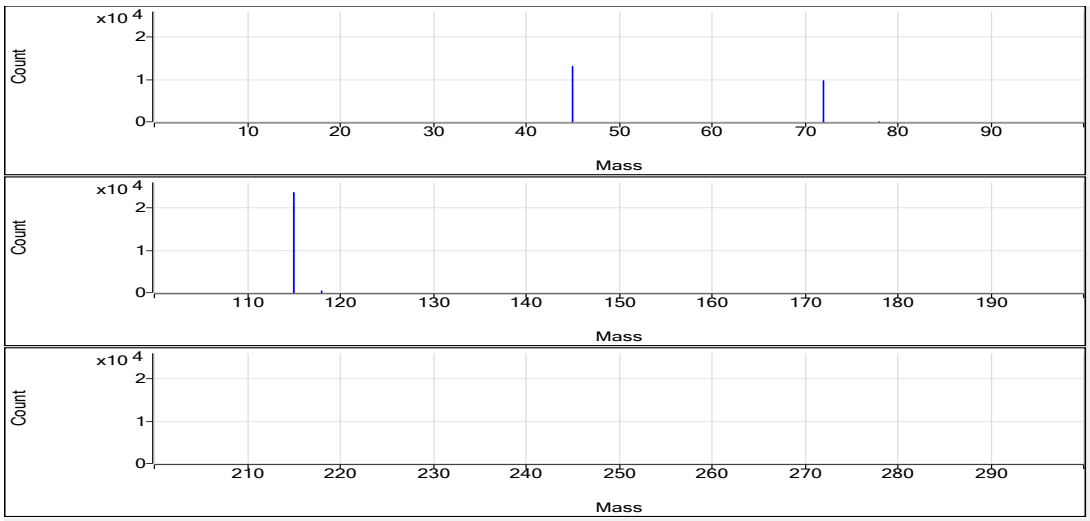
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1680083.31	0.9	98.3	Analog	0.1000	3
No Gas	Ge	72	832127.36	0.5	96.3	Pulse	0.1000	3
H2	Sc	45	131356.07	1.7	98.3	Pulse	0.1000	3
H2	Ge	72	97420.85	2.8	98.3	Pulse	0.1000	3
H2	In	115	237190.17	1.5	92.4	Pulse	0.1000	3
He	Sc	45	40032.70	2.1	101.4	Pulse	0.1000	3
He	Ge	72	66799.14	1.3	98.1	Pulse	0.1000	3
He	In	115	51533.52	1.7	93.0	Pulse	0.1000	3
He	Tb	159	191864.97	1.1	93.7	Pulse	0.1000	3
He	Bi	209	140487.87	1.0	92.9	Pulse	0.1000	3

No Gas

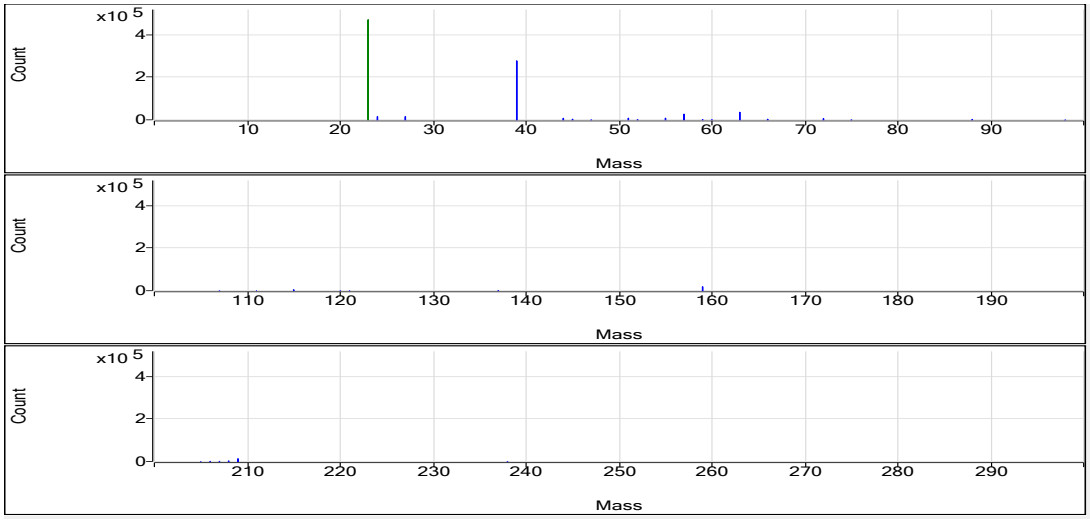


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.39	0.0002	266.00	0.0003	2.616E-05
Be	9	1	No Gas	0.377	0.0002	258.00	0.0003	2.616E-05
Be	9	1	No Gas	0.458	0.0002	300.00	0.0003	2.616E-05
Se	78	2	H2	0.346	0.0002	18.67	0.0004	6.3E-05
Se	78	2	H2	0.438	0.0002	22.67	0.0004	6.3E-05
Se	78	2	H2	0.25	0.0002	16.00	0.0004	6.3E-05
Na	23	3	He	47963.548	120.3101	4702570.55	0.0025	0.7502
Na	23	3	He	46758.504	117.3062	4738011.49	0.0025	0.7502
Na	23	3	He	46052.027	115.5452	4693548.99	0.0025	0.7502
Mg	24	3	He	3316.702	4.0423	158001.49	0.0012	0.02618
Mg	24	3	He	3182.821	3.8802	156720.92	0.0012	0.02618
Mg	24	3	He	3154.147	3.8455	156206.05	0.0012	0.02618
Al	27	3	He	10617.671	4.0093	156710.54	0.0004	0.005329
Al	27	3	He	10368.814	3.9154	158144.30	0.0004	0.005329
Al	27	3	He	10384.396	3.9213	159286.64	0.0004	0.005329
K	39	3	He	13778.99	14.2125	555526.88	0.001	0.5307
K	39	3	He	13252.51	13.6898	552931.38	0.001	0.5307
K	39	3	He	13299.753	13.7367	557996.38	0.001	0.5307
Ca	44	3	He	7702.584	0.4099	16021.84	0.0001	0.004441
Ca	44	3	He	7705.604	0.4101	16562.37	0.0001	0.004441
Ca	44	3	He	7688.489	0.4092	16620.41	0.0001	0.004441
Ti	47	3	He	60.944	0.0254	992.04	0.0004	0.0004559
Ti	47	3	He	62.697	0.0261	1054.06	0.0004	0.0004559
Ti	47	3	He	57.156	0.0238	968.04	0.0004	0.0004559
V	51	3	He	23.723	0.4433	17329.21	0.0176	0.02609
V	51	3	He	23.11	0.4326	17471.37	0.0176	0.02609
V	51	3	He	23.026	0.4311	17511.37	0.0176	0.02609
Cr	52	3	He	17.607	0.4331	16929.18	0.0217	0.05061
Cr	52	3	He	17.534	0.4315	17429.64	0.0217	0.05061
Cr	52	3	He	17.694	0.435	17669.99	0.0217	0.05061
Mn	55	3	He	48.226	0.4503	17599.47	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	46.001	0.43	17367.26	0.0091	0.01071
Mn	55	3	He	45.879	0.4289	17421.32	0.0091	0.01071
Fe	57	3	He	17776.727	7.1074	277806.09	0.0004	0.008452
Fe	57	3	He	17204.544	6.8789	277838.22	0.0004	0.008452
Fe	57	3	He	16897.777	6.7564	274449.59	0.0004	0.008452
Co	59	3	He	2.232	0.0982	3836.47	0.0413	0.006013
Co	59	3	He	2.173	0.0957	3866.48	0.0413	0.006013
Co	59	3	He	2.222	0.0977	3970.51	0.0413	0.006013
Ni	60	3	He	3.995	0.0586	2292.17	0.0117	0.01172
Ni	60	3	He	4.104	0.0599	2420.19	0.0117	0.01172
Ni	60	3	He	4.029	0.059	2398.19	0.0117	0.01172
Cu	63	3	He	55.889	1.1077	73051.02	0.0196	0.01443
Cu	63	3	He	55.516	1.1004	73497.10	0.0196	0.01443
Cu	63	3	He	54.774	1.0859	73476.87	0.0196	0.01443
Zn	66	3	He	49.499	0.1153	7603.82	0.0023	0.002807
Zn	66	3	He	50.598	0.1178	7867.96	0.0023	0.002807
Zn	66	3	He	49.772	0.1159	7843.93	0.0023	0.002807
As	75	3	He	7.449	0.015	988.04	0.0018	0.001271
As	75	3	He	7.33	0.0148	986.04	0.0018	0.001271
As	75	3	He	7.628	0.0153	1036.04	0.0018	0.001271
Sr	88	3	He	58.542	0.4821	24939.96	0.0082	0.00114
Sr	88	3	He	60.56	0.4987	26072.09	0.0082	0.00114
Sr	88	3	He	63.522	0.523	26462.58	0.0082	0.00114
Mo	98	3	He	1.127	0.0215	1110.08	0.0177	0.001504
Mo	98	3	He	1.146	0.0218	1140.08	0.0177	0.001504
Mo	98	3	He	1.165	0.0221	1120.08	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	0.011	0.0017	90.00	0.0368	0.001325
Ag	107	3	He	0.002	0.0014	70.00	0.0368	0.001325
Cd	111	3	He	0.017	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.818	0.0213	1100.07	0.0126	0.01097
Sn	120	3	He	1.15	0.0254	1330.10	0.0126	0.01097
Sn	120	3	He	1.343	0.0279	1410.11	0.0126	0.01097
Sb	121	3	He	0.082	0.0014	70.00	0.012	0.0003595
Sb	121	3	He	0.076	0.0013	66.67	0.012	0.0003595
Sb	121	3	He	0.069	0.0012	60.00	0.012	0.0003595
Ba	137	3	He	64.994	0.2539	13136.08	0.0039	0.0003633
Ba	137	3	He	67.988	0.2656	13886.61	0.0039	0.0003633
Ba	137	3	He	67.012	0.2618	13246.11	0.0039	0.0003633
Tl	205	3	He	0.109	0.0034	660.04	0.0189	0.001334
Tl	205	3	He	0.065	0.0026	490.03	0.0189	0.001334
Tl	205	3	He	0.06	0.0025	470.03	0.0189	0.001334
Pb	208	3	He	14.474	0.3656	37679.77	0.0252	0.001497
Pb	208	3	He	14.718	0.3718	38150.87	0.0252	0.001497
Pb	208	3	He	14.931	0.3771	38070.32	0.0252	0.001497
U	238	3	He	1.102	0.0272	5281.14	0.0245	0.0001141
U	238	3	He	1.155	0.0285	5431.21	0.0245	0.0001141
U	238	3	He	1.122	0.0277	5271.16	0.0245	0.0001141
Sc	45	1	No Gas			1690799.35		
Sc	45	1	No Gas			1686361.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1663089.04		
Ge	72	1	No Gas			835382.88		
Ge	72	1	No Gas			827908.74		
Ge	72	1	No Gas			833090.46		
Sc	45	2	H2			130062.60		
Sc	45	2	H2			130142.10		
Sc	45	2	H2			133863.51		
Ge	72	2	H2			94718.09		
Ge	72	2	H2			97424.66		
Ge	72	2	H2			100119.79		
In	115	2	H2			234398.10		
In	115	2	H2			241202.09		
In	115	2	H2			235970.31		
Sc	45	3	He			39087.09		
Sc	45	3	He			40390.11		
Sc	45	3	He			40620.90		
Ge	72	3	He			65945.55		
Ge	72	3	He			66789.12		
Ge	72	3	He			67662.74		
In	115	3	He			51736.44		
In	115	3	He			52288.25		
In	115	3	He			50602.75		
Tb	159	3	He			194358.08		
Tb	159	3	He			190709.25		
Tb	159	3	He			190527.58		
Bi	209	3	He			141853.78		
Bi	209	3	He			139169.10		
Bi	209	3	He			140440.73		

Quantitation Report

Data File Name	274SMPL.d
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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

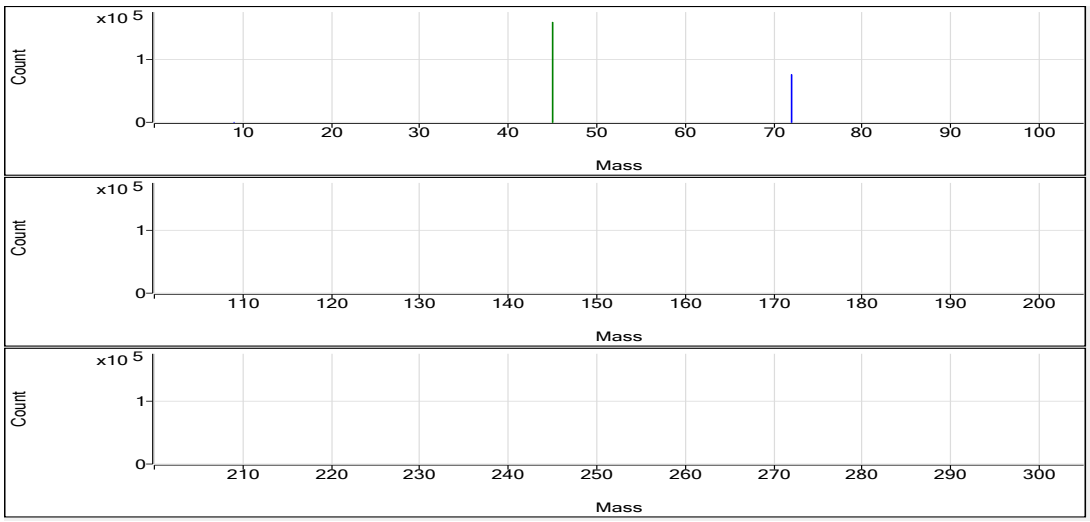
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.011	ppb	N/A	36.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.141	ppb	92.7	10.67	0.0001	Pulse	1.5000	3
Na	23	45	He	1154640.146	ppb	1.7	109882505.03	2,878.9493	Analog	0.1000	3
Mg	24	45	He	463336.574	ppb	1.6	21414779.68	561.0688	Analog	0.1000	3
Al	27	45	He	41.590	ppb	17.4	803.38	0.0210	Pulse	0.1000	3
K	39	45	He	26999.446	ppb	1.5	1043524.60	27.3398	Pulse	0.5000	3
Ca	44	45	He	511712.433	ppb	1.4	1028296.62	26.9407	Pulse	0.5000	3
Ti	47	45	He	0.764	ppb	25.6	29.33	0.0008	Pulse	0.5000	3
V	51	45	He	0.084	ppb	131.2	1052.04	0.0276	Pulse	0.5000	3
Cr	52	45	He	-0.226	ppb	N/A	1743.48	0.0457	Pulse	0.1000	3
Mn	55	45	He	314.283	ppb	1.4	109748.92	2.8753	Pulse	0.5000	3
Fe	57	45	He	89.728	ppb	6.1	1690.14	0.0443	Pulse	0.1000	3
Co	59	45	He	5.002	ppb	0.9	8113.39	0.2126	Pulse	0.5000	3
Ni	60	45	He	30.208	ppb	1.9	13988.72	0.3665	Pulse	0.5000	3
Cu	63	72	He	0.565	ppb	13.6	1550.08	0.0255	Pulse	0.5000	3
Zn	66	72	He	8.466	ppb	3.7	1340.73	0.0220	Pulse	0.5000	3
As	75	72	He	2.429	ppb	13.3	349.34	0.0057	Pulse	0.5000	3
Sr	88	115	He	6685.284	ppb	2.4	2752716.62	54.9288	Analog	0.1000	3
Mo	98	115	He	0.688	ppb	2.2	686.71	0.0137	Pulse	0.1000	3
Ag	107	115	He	-0.020	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.541	ppb	18.3	113.33	0.0023	Pulse	0.5000	3
Sn	120	115	He	0.232	ppb	93.1	696.70	0.0139	Pulse	0.1000	3
Sb	121	115	He	0.156	ppb	13.9	112.22	0.0022	Pulse	0.3000	3
Ba	137	115	He	16.399	ppb	12.8	3220.45	0.0643	Pulse	0.1000	3
Tl	205	159	He	-0.024	ppb	N/A	166.68	0.0009	Pulse	0.1000	3
Pb	208	159	He	0.020	ppb	47.7	373.35	0.0020	Pulse	0.1000	3
U	238	159	He	3.313	ppb	4.3	15278.66	0.0814	Pulse	0.1000	3

ISTD Table:

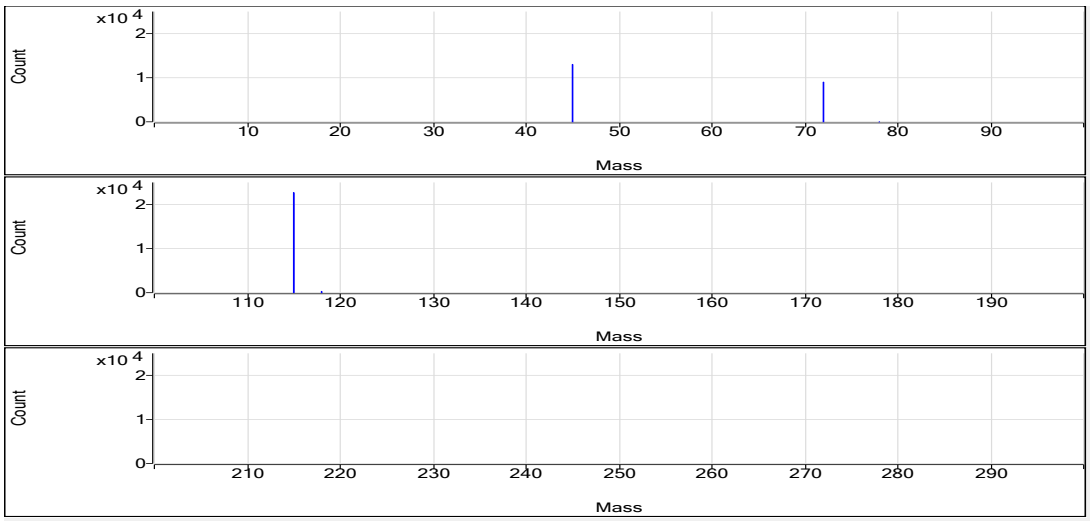
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1606487.48	0.3	94.0	Analog	0.1000	3
No Gas	Ge	72	766270.95	1.0	88.7	Pulse	0.1000	3
H2	Sc	45	130335.16	1.9	97.5	Pulse	0.1000	3
H2	Ge	72	90373.08	1.3	91.2	Pulse	0.1000	3
H2	In	115	227218.41	0.6	88.5	Pulse	0.1000	3
He	Sc	45	38175.10	1.8	96.7	Pulse	0.1000	3
He	Ge	72	60798.53	1.3	89.3	Pulse	0.1000	3
He	In	115	50129.91	1.9	90.5	Pulse	0.1000	3
He	Tb	159	187612.25	0.4	91.6	Pulse	0.1000	3
He	Bi	209	131122.37	0.7	86.7	Pulse	0.1000	3

No Gas

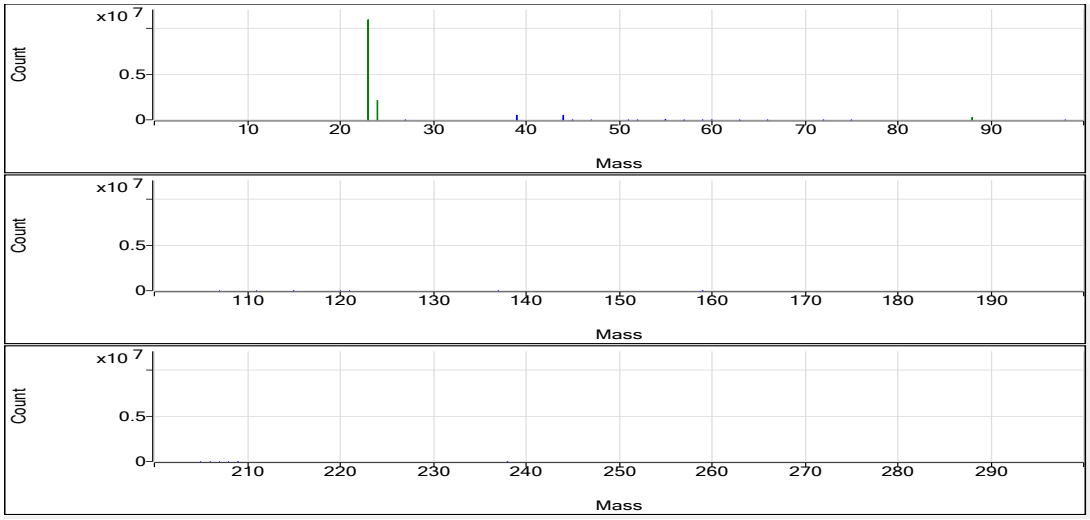


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.015	0	50.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Se	78	2	H2	0.231	0.0002	14.00	0.0004	6.3E-05
Se	78	2	H2	0.201	0.0001	12.67	0.0004	6.3E-05
Se	78	2	H2	-0.009	0.0001	5.33	0.0004	6.3E-05
Na	23	3	He	1163377.86	2900.7301	109688728.37	0.0025	0.7502
Na	23	3	He	1168019.026	2912.2992	109950798.36	0.0025	0.7502
Na	23	3	He	1132523.553	2823.8188	110007988.36	0.0025	0.7502
Mg	24	3	He	465569.351	563.7724	21318592.18	0.0012	0.02618
Mg	24	3	He	469613.641	568.6696	21469522.18	0.0012	0.02618
Mg	24	3	He	454826.729	550.7645	21456224.68	0.0012	0.02618
Al	27	3	He	36.362	0.019	720.04	0.0004	0.005329
Al	27	3	He	38.55	0.0199	750.05	0.0004	0.005329
Al	27	3	He	49.857	0.0241	940.06	0.0004	0.005329
K	39	3	He	27167.104	27.5063	1040128.13	0.001	0.5307
K	39	3	He	27281.768	27.6202	1042769.94	0.001	0.5307
K	39	3	He	26549.467	26.893	1047675.75	0.001	0.5307
Ca	44	3	He	515955.546	27.1641	1027187.56	0.0001	0.004441
Ca	44	3	He	515657.427	27.1484	1024959.00	0.0001	0.004441
Ca	44	3	He	503524.327	26.5097	1032743.31	0.0001	0.004441
Ti	47	3	He	0.567	0.0007	26.00	0.0004	0.0004559
Ti	47	3	He	0.958	0.0008	32.00	0.0004	0.0004559
Ti	47	3	He	0.768	0.0008	30.00	0.0004	0.0004559
V	51	3	He	0.08	0.0275	1040.04	0.0176	0.02609
V	51	3	He	0.197	0.0296	1116.05	0.0176	0.02609
V	51	3	He	-0.024	0.0257	1000.04	0.0176	0.02609
Cr	52	3	He	-0.223	0.0458	1730.15	0.0217	0.05061
Cr	52	3	He	-0.074	0.049	1850.15	0.0217	0.05061
Cr	52	3	He	-0.38	0.0424	1650.14	0.0217	0.05061
Mn	55	3	He	313.094	2.8644	108315.67	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	319.316	2.9211	110284.32	0.0091	0.01071
Mn	55	3	He	310.439	2.8402	110646.77	0.0091	0.01071
Fe	57	3	He	96.058	0.0468	1770.15	0.0004	0.008452
Fe	57	3	He	86.294	0.0429	1620.13	0.0004	0.008452
Fe	57	3	He	86.833	0.0431	1680.15	0.0004	0.008452
Co	59	3	He	5.014	0.213	8056.03	0.0413	0.006013
Co	59	3	He	5.04	0.2141	8084.04	0.0413	0.006013
Co	59	3	He	4.952	0.2105	8200.10	0.0413	0.006013
Ni	60	3	He	30.313	0.3677	13905.97	0.0117	0.01172
Ni	60	3	He	30.733	0.3727	14070.11	0.0117	0.01172
Ni	60	3	He	29.578	0.3591	13990.08	0.0117	0.01172
Cu	63	3	He	0.541	0.025	1504.08	0.0196	0.01443
Cu	63	3	He	0.503	0.0243	1472.07	0.0196	0.01443
Cu	63	3	He	0.651	0.0272	1674.10	0.0196	0.01443
Zn	66	3	He	8.546	0.0222	1336.06	0.0023	0.002807
Zn	66	3	He	8.123	0.0213	1290.06	0.0023	0.002807
Zn	66	3	He	8.73	0.0226	1396.07	0.0023	0.002807
As	75	3	He	2.473	0.0058	350.01	0.0018	0.001271
As	75	3	He	2.086	0.0051	310.00	0.0018	0.001271
As	75	3	He	2.729	0.0063	388.01	0.0018	0.001271
Sr	88	3	He	6572.454	54.0018	2742139.33	0.0082	0.00114
Sr	88	3	He	6612.477	54.3306	2748993.71	0.0082	0.00114
Sr	88	3	He	6870.922	56.4541	2767016.83	0.0082	0.00114
Mo	98	3	He	0.705	0.014	710.04	0.0177	0.001504
Mo	98	3	He	0.685	0.0136	690.04	0.0177	0.001504
Mo	98	3	He	0.675	0.0135	660.04	0.0177	0.001504
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.014	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.488	0.002	104.00	0.0041	4.798E-05
Cd	111	3	He	0.48	0.002	102.00	0.0041	4.798E-05
Cd	111	3	He	0.655	0.0027	134.00	0.0041	4.798E-05
Sn	120	3	He	0.13	0.0126	640.03	0.0126	0.01097
Sn	120	3	He	0.479	0.017	860.05	0.0126	0.01097
Sn	120	3	He	0.085	0.012	590.03	0.0126	0.01097
Sb	121	3	He	0.177	0.0025	126.67	0.012	0.0003595
Sb	121	3	He	0.156	0.0022	113.33	0.012	0.0003595
Sb	121	3	He	0.134	0.002	96.67	0.012	0.0003595
Ba	137	3	He	15.556	0.0611	3100.41	0.0039	0.0003633
Ba	137	3	He	14.852	0.0583	2950.38	0.0039	0.0003633
Ba	137	3	He	18.787	0.0737	3610.55	0.0039	0.0003633
Tl	205	3	He	-0.02	0.001	180.01	0.0189	0.001334
Tl	205	3	He	-0.022	0.0009	170.01	0.0189	0.001334
Tl	205	3	He	-0.028	0.0008	150.01	0.0189	0.001334
Pb	208	3	He	0.029	0.0022	250.01	0.0252	0.001497
Pb	208	3	He	0.011	0.0018	180.01	0.0252	0.001497
Pb	208	3	He	0.019	0.002	160.01	0.0252	0.001497
U	238	3	He	3.424	0.0842	15819.14	0.0245	0.0001141
U	238	3	He	3.362	0.0826	15439.06	0.0245	0.0001141
U	238	3	He	3.153	0.0775	14577.79	0.0245	0.0001141
Sc	45	1	No Gas			1602011.23		
Sc	45	1	No Gas			1605695.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1611755.60		
Ge	72	1	No Gas			760981.16		
Ge	72	1	No Gas			762594.36		
Ge	72	1	No Gas			775237.33		
Sc	45	2	H2			128834.18		
Sc	45	2	H2			133258.85		
Sc	45	2	H2			128912.44		
Ge	72	2	H2			91721.20		
Ge	72	2	H2			89860.11		
Ge	72	2	H2			89537.93		
In	115	2	H2			228452.87		
In	115	2	H2			227408.92		
In	115	2	H2			225793.45		
Sc	45	3	He			37814.18		
Sc	45	3	He			37753.95		
Sc	45	3	He			38957.17		
Ge	72	3	He			60102.84		
Ge	72	3	He			60654.65		
Ge	72	3	He			61638.09		
In	115	3	He			50783.14		
In	115	3	He			50603.50		
In	115	3	He			49017.71		
Tb	159	3	He			187946.79		
Tb	159	3	He			186812.77		
Tb	159	3	He			188077.20		
Bi	209	3	He			130087.09		
Bi	209	3	He			131447.82		
Bi	209	3	He			131832.19		

Quantitation Report

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Acq Time	7/10/2025 8:05:41 PM
Sample Name	410-228777-L-6-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

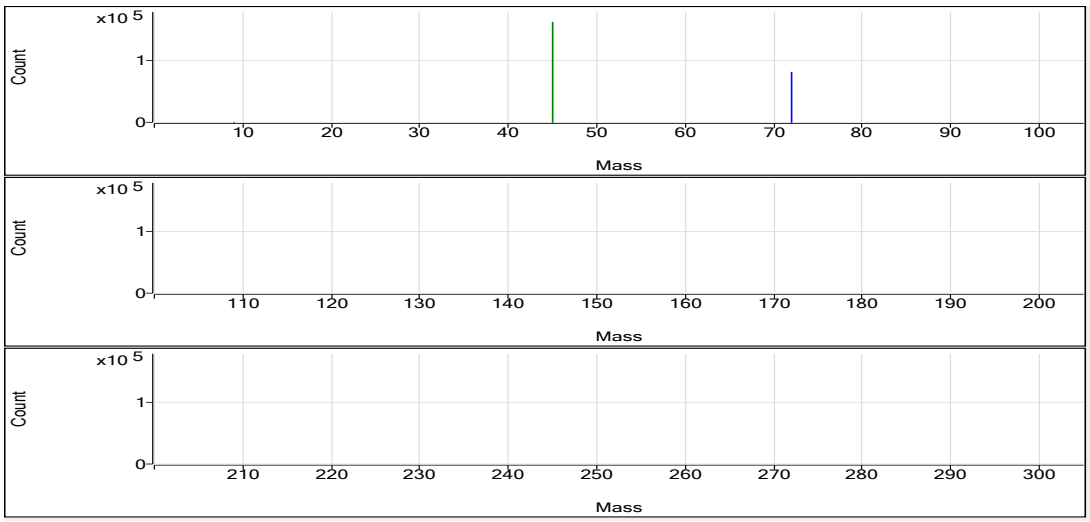
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.014	ppb	N/A	34.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.043	ppb	N/A	4.44	0.0000	Pulse	1.5000	3
Na	23	45	He	271153.699	ppb	1.1	26436198.77	676.6615	Analog	0.1000	3
Mg	24	45	He	103359.503	ppb	2.3	4890329.51	125.1816	Analog	0.1000	3
Al	27	45	He	0.622	ppb	1489.5	216.67	0.0056	Pulse	0.1000	3
K	39	45	He	1348.197	ppb	7.0	73018.72	1.8694	Pulse	0.5000	3
Ca	44	45	He	155223.005	ppb	1.2	319394.44	8.1753	Pulse	0.5000	3
Ti	47	45	He	-0.406	ppb	N/A	11.33	0.0003	Pulse	0.5000	3
V	51	45	He	0.066	ppb	37.3	1064.71	0.0272	Pulse	0.5000	3
Cr	52	45	He	-0.798	ppb	N/A	1300.10	0.0333	Pulse	0.1000	3
Mn	55	45	He	1658.056	ppb	0.8	590851.77	15.1231	Pulse	0.5000	3
Fe	57	45	He	2061.632	ppb	0.5	32496.57	0.8317	Pulse	0.1000	3
Co	59	45	He	0.005	ppb	613.7	243.33	0.0062	Pulse	0.5000	3
Ni	60	45	He	0.244	ppb	34.0	569.35	0.0146	Pulse	0.5000	3
Cu	63	72	He	-0.213	ppb	N/A	676.69	0.0103	Pulse	0.5000	3
Zn	66	72	He	1.759	ppb	16.0	448.68	0.0068	Pulse	0.5000	3
As	75	72	He	6.864	ppb	6.9	916.70	0.0139	Pulse	0.5000	3
Sr	88	115	He	1439.119	ppb	2.5	610227.09	11.8252	Pulse	0.1000	3
Mo	98	115	He	0.897	ppb	10.2	896.72	0.0174	Pulse	0.1000	3
Ag	107	115	He	-0.031	ppb	N/A	10.00	0.0002	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.260	ppb	80.1	733.37	0.0142	Pulse	0.1000	3
Sb	121	115	He	0.033	ppb	73.2	38.89	0.0008	Pulse	0.3000	3
Ba	137	115	He	47.167	ppb	4.2	9523.25	0.1844	Pulse	0.1000	3
Tl	205	159	He	-0.052	ppb	N/A	66.67	0.0003	Pulse	0.1000	3
Pb	208	159	He	-0.001	ppb	N/A	283.34	0.0015	Pulse	0.1000	3
U	238	159	He	4.569	ppb	3.0	21650.33	0.1123	Pulse	0.1000	3

ISTD Table:

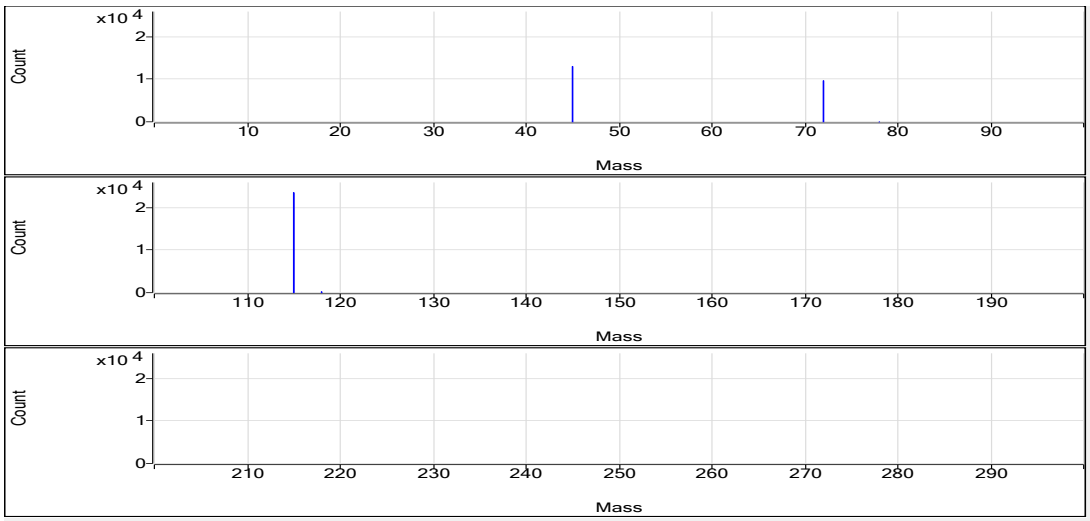
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1616980.03	2.3	94.6	Analog	0.1000	3
No Gas	Ge	72	810118.58	1.0	93.8	Pulse	0.1000	3
H2	Sc	45	129874.30	0.2	97.2	Pulse	0.1000	3
H2	Ge	72	96505.21	1.3	97.4	Pulse	0.1000	3
H2	In	115	234673.03	0.5	91.4	Pulse	0.1000	3
He	Sc	45	39070.71	0.8	99.0	Pulse	0.1000	3
He	Ge	72	65922.19	0.2	96.8	Pulse	0.1000	3
He	In	115	51621.42	2.1	93.2	Pulse	0.1000	3
He	Tb	159	192824.35	0.3	94.2	Pulse	0.1000	3
He	Bi	209	137997.70	0.4	91.2	Pulse	0.1000	3

No Gas

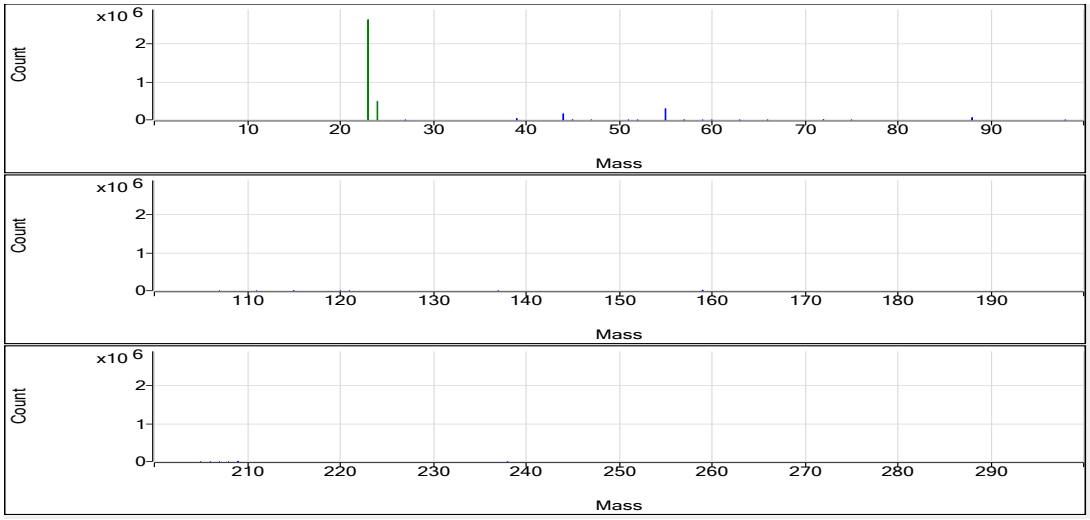


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.009	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.052	0	14.00	0.0003	2.616E-05
Be	9	1	No Gas	0.001	0	44.00	0.0003	2.616E-05
Se	78	2	H2	0.036	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	-0.127	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.038	0	4.67	0.0004	6.3E-05
Na	23	3	He	274001.681	683.7607	26479667.11	0.0025	0.7502
Na	23	3	He	268144.724	669.161	26316909.61	0.0025	0.7502
Na	23	3	He	271314.692	677.0628	26512019.60	0.0025	0.7502
Mg	24	3	He	105985.681	128.3616	4970996.18	0.0012	0.02618
Mg	24	3	He	101209.918	122.5787	4820803.37	0.0012	0.02618
Mg	24	3	He	102882.911	124.6045	4879188.99	0.0012	0.02618
Al	27	3	He	11.205	0.0096	370.02	0.0004	0.005329
Al	27	3	He	-6.041	0.0031	120.00	0.0004	0.005329
Al	27	3	He	-3.297	0.0041	160.00	0.0004	0.005329
K	39	3	He	1456.796	1.9772	76569.71	0.001	0.5307
K	39	3	He	1297.107	1.8186	71523.39	0.001	0.5307
K	39	3	He	1290.686	1.8123	70963.05	0.001	0.5307
Ca	44	3	He	157419.564	8.2909	321078.72	0.0001	0.004441
Ca	44	3	He	153945.421	8.1081	318875.22	0.0001	0.004441
Ca	44	3	He	154304.031	8.1269	318229.38	0.0001	0.004441
Ti	47	3	He	-0.61	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.244	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.365	0.0003	12.00	0.0004	0.0004559
V	51	3	He	0.037	0.0268	1036.04	0.0176	0.02609
V	51	3	He	0.078	0.0275	1080.04	0.0176	0.02609
V	51	3	He	0.082	0.0275	1078.04	0.0176	0.02609
Cr	52	3	He	-0.844	0.0323	1250.08	0.0217	0.05061
Cr	52	3	He	-0.691	0.0356	1400.12	0.0217	0.05061
Cr	52	3	He	-0.86	0.0319	1250.09	0.0217	0.05061
Mn	55	3	He	1672.006	15.2503	590590.38	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1654.861	15.094	593620.88	0.0091	0.01071
Mn	55	3	He	1647.3	15.0251	588344.06	0.0091	0.01071
Fe	57	3	He	2065.681	0.8334	32272.96	0.0004	0.008452
Fe	57	3	He	2069.459	0.8349	32833.73	0.0004	0.008452
Fe	57	3	He	2049.756	0.827	32383.03	0.0004	0.008452
Co	59	3	He	0.027	0.0071	276.00	0.0413	0.006013
Co	59	3	He	0.021	0.0069	270.00	0.0413	0.006013
Co	59	3	He	-0.032	0.0047	184.00	0.0413	0.006013
Ni	60	3	He	0.339	0.0157	608.02	0.0117	0.01172
Ni	60	3	He	0.198	0.014	552.01	0.0117	0.01172
Ni	60	3	He	0.194	0.014	548.01	0.0117	0.01172
Cu	63	3	He	-0.177	0.011	724.02	0.0196	0.01443
Cu	63	3	He	-0.224	0.0101	664.02	0.0196	0.01443
Cu	63	3	He	-0.239	0.0098	642.02	0.0196	0.01443
Zn	66	3	He	2.085	0.0075	498.01	0.0023	0.002807
Zn	66	3	He	1.605	0.0065	426.01	0.0023	0.002807
Zn	66	3	He	1.589	0.0064	422.01	0.0023	0.002807
As	75	3	He	7.26	0.0146	966.03	0.0018	0.001271
As	75	3	He	6.339	0.0129	854.03	0.0018	0.001271
As	75	3	He	6.993	0.0141	930.03	0.0018	0.001271
Sr	88	3	He	1428.98	11.7419	612502.30	0.0082	0.00114
Sr	88	3	He	1408.932	11.5772	605650.97	0.0082	0.00114
Sr	88	3	He	1479.444	12.1566	612528.00	0.0082	0.00114
Mo	98	3	He	0.835	0.0163	850.05	0.0177	0.001504
Mo	98	3	He	0.854	0.0166	870.06	0.0177	0.001504
Mo	98	3	He	1.002	0.0193	970.06	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.073	0.0119	620.03	0.0126	0.01097
Sn	120	3	He	0.222	0.0138	720.04	0.0126	0.01097
Sn	120	3	He	0.485	0.0171	860.05	0.0126	0.01097
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Sb	121	3	He	0.055	0.001	53.33	0.012	0.0003595
Sb	121	3	He	0.036	0.0008	40.00	0.012	0.0003595
Ba	137	3	He	47.043	0.1839	9593.30	0.0039	0.0003633
Ba	137	3	He	49.212	0.1924	10063.58	0.0039	0.0003633
Ba	137	3	He	45.245	0.1769	8912.86	0.0039	0.0003633
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	-0.012	0.0012	120.00	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	110.00	0.0252	0.001497
Pb	208	3	He	0.021	0.002	220.01	0.0252	0.001497
U	238	3	He	4.64	0.114	21937.53	0.0245	0.0001141
U	238	3	He	4.655	0.1144	22117.58	0.0245	0.0001141
U	238	3	He	4.413	0.1084	20895.89	0.0245	0.0001141
Sc	45	1	No Gas			1581051.23		
Sc	45	1	No Gas			1614974.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1654914.82		
Ge	72	1	No Gas			801639.60		
Ge	72	1	No Gas			811907.64		
Ge	72	1	No Gas			816808.50		
Sc	45	2	H2			129679.09		
Sc	45	2	H2			129791.46		
Sc	45	2	H2			130152.36		
Ge	72	2	H2			95101.53		
Ge	72	2	H2			97675.24		
Ge	72	2	H2			96738.87		
In	115	2	H2			233901.64		
In	115	2	H2			234012.81		
In	115	2	H2			236104.64		
Sc	45	3	He			38726.51		
Sc	45	3	He			39328.22		
Sc	45	3	He			39157.40		
Ge	72	3	He			66006.05		
Ge	72	3	He			66005.58		
Ge	72	3	He			65754.94		
In	115	3	He			52167.97		
In	115	3	He			52319.07		
In	115	3	He			50392.61		
Tb	159	3	He			192402.17		
Tb	159	3	He			193374.84		
Tb	159	3	He			192696.05		
Bi	209	3	He			138180.01		
Bi	209	3	He			138451.73		
Bi	209	3	He			137361.35		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

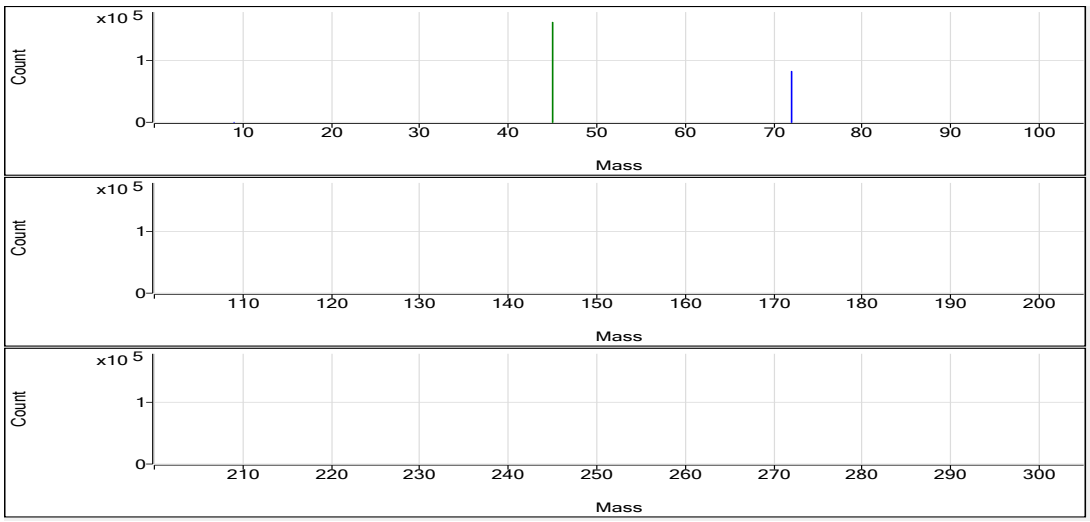
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.017	ppb	N/A	33.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	3.732	ppb	16.1	148.45	0.0015	Pulse	1.5000	3
Na	23	45	He	108425.454	ppb	1.0	10568329.84	271.0249	Analog	0.1000	3
Mg	24	45	He	85472.336	ppb	1.6	4036497.65	103.5225	Analog	0.1000	3
Al	27	45	He	-1.453	ppb	N/A	186.68	0.0048	Pulse	0.1000	3
K	39	45	He	5907.762	ppb	1.1	249444.68	6.3968	Pulse	0.5000	3
Ca	44	45	He	422948.197	ppb	1.2	868297.81	22.2682	Pulse	0.5000	3
Ti	47	45	He	-0.741	ppb	N/A	6.00	0.0002	Pulse	0.5000	3
V	51	45	He	0.606	ppb	14.0	1432.74	0.0368	Pulse	0.5000	3
Cr	52	45	He	-0.306	ppb	N/A	1713.47	0.0440	Pulse	0.1000	3
Mn	55	45	He	1.539	ppb	4.0	964.70	0.0247	Pulse	0.5000	3
Fe	57	45	He	9.886	ppb	19.6	483.36	0.0124	Pulse	0.1000	3
Co	59	45	He	-0.047	ppb	N/A	158.00	0.0041	Pulse	0.5000	3
Ni	60	45	He	1.374	ppb	2.3	1086.04	0.0279	Pulse	0.5000	3
Cu	63	72	He	-0.012	ppb	N/A	941.36	0.0142	Pulse	0.5000	3
Zn	66	72	He	6.850	ppb	4.3	1219.39	0.0184	Pulse	0.5000	3
As	75	72	He	2.084	ppb	6.6	338.68	0.0051	Pulse	0.5000	3
Sr	88	115	He	585.085	ppb	2.2	253581.81	4.8083	Pulse	0.1000	3
Mo	98	115	He	0.246	ppb	24.2	310.01	0.0059	Pulse	0.1000	3
Ag	107	115	He	-0.024	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Cd	111	115	He	0.065	ppb	28.0	16.67	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.330	ppb	27.4	796.72	0.0151	Pulse	0.1000	3
Sb	121	115	He	0.025	ppb	69.1	34.44	0.0007	Pulse	0.3000	3
Ba	137	115	He	15.855	ppb	5.1	3280.47	0.0622	Pulse	0.1000	3
Tl	205	159	He	-0.050	ppb	N/A	73.33	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.020	ppb	N/A	190.00	0.0010	Pulse	0.1000	3
U	238	159	He	2.643	ppb	3.8	12512.58	0.0650	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1626871.59	1.4	95.2	Analog	0.1000	3
No Gas	Ge	72	829410.56	0.4	96.0	Pulse	0.1000	3
H2	Sc	45	131959.82	0.7	98.8	Pulse	0.1000	3
H2	Ge	72	98336.65	1.0	99.3	Pulse	0.1000	3
H2	In	115	239233.53	0.6	93.2	Pulse	0.1000	3
He	Sc	45	38996.98	1.4	98.8	Pulse	0.1000	3
He	Ge	72	66357.17	1.9	97.4	Pulse	0.1000	3
He	In	115	52754.29	2.1	95.2	Pulse	0.1000	3
He	Tb	159	192554.40	0.5	94.0	Pulse	0.1000	3
He	Bi	209	140645.68	0.6	93.0	Pulse	0.1000	3

No Gas



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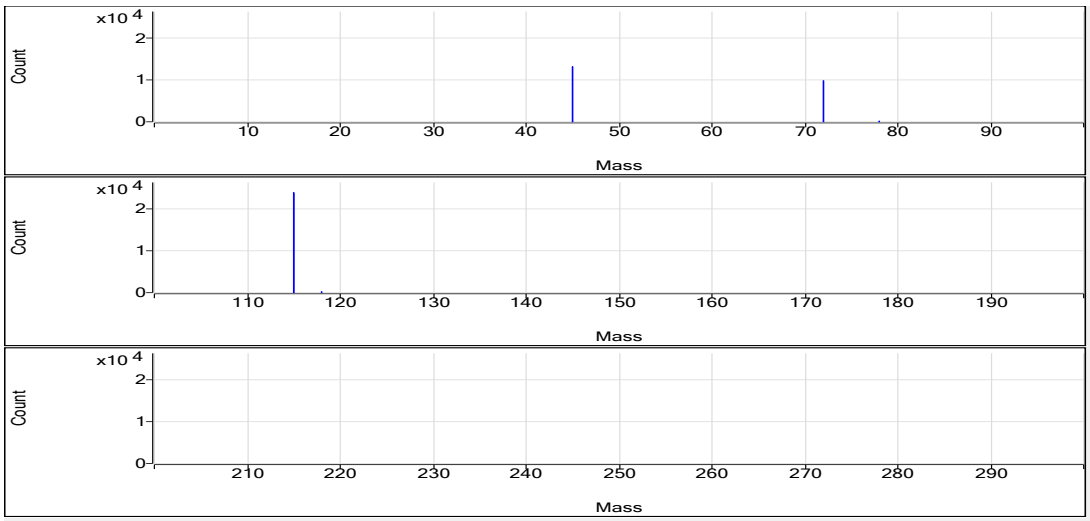
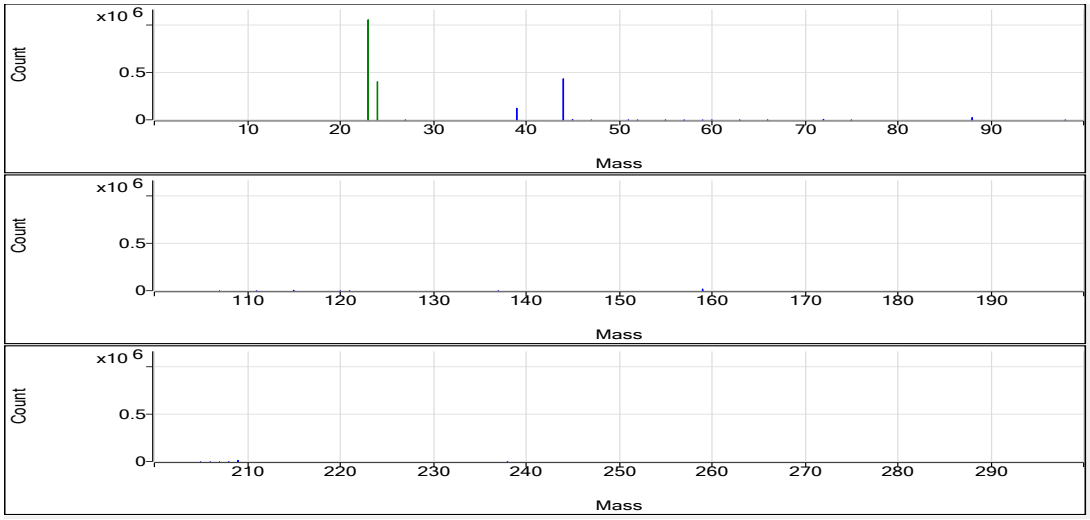


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.002	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.029	0	26.00	0.0003	2.616E-05
Se	78	2	H2	3.176	0.0013	128.67	0.0004	6.3E-05
Se	78	2	H2	3.652	0.0015	144.00	0.0004	6.3E-05
Se	78	2	H2	4.368	0.0018	172.67	0.0004	6.3E-05
Na	23	3	He	107886.732	269.682	10662747.34	0.0025	0.7502
Na	23	3	He	109644.162	274.0628	10533738.59	0.0025	0.7502
Na	23	3	He	107745.466	269.3299	10508503.59	0.0025	0.7502
Mg	24	3	He	84489.787	102.3327	4046054.63	0.0012	0.02618
Mg	24	3	He	87004.832	105.3782	4050260.88	0.0012	0.02618
Mg	24	3	He	84922.387	102.8566	4013177.44	0.0012	0.02618
Al	27	3	He	-0.047	0.0053	210.01	0.0004	0.005329
Al	27	3	He	-3.093	0.0042	160.01	0.0004	0.005329
Al	27	3	He	-1.218	0.0049	190.01	0.0004	0.005329
K	39	3	He	5912.331	6.4013	253096.98	0.001	0.5307
K	39	3	He	5967.402	6.456	248139.81	0.001	0.5307
K	39	3	He	5843.553	6.333	247097.25	0.001	0.5307
Ca	44	3	He	418031.322	22.0094	870212.56	0.0001	0.004441
Ca	44	3	He	427908.338	22.5293	865925.56	0.0001	0.004441
Ca	44	3	He	422904.931	22.2659	868755.31	0.0001	0.004441
Ti	47	3	He	-0.496	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.613	0.0002	8.00	0.0004	0.0004559
V	51	3	He	0.518	0.0352	1392.07	0.0176	0.02609
V	51	3	He	0.688	0.0382	1468.08	0.0176	0.02609
V	51	3	He	0.612	0.0369	1438.07	0.0176	0.02609
Cr	52	3	He	-0.28	0.0445	1760.15	0.0217	0.05061
Cr	52	3	He	-0.15	0.0474	1820.16	0.0217	0.05061
Cr	52	3	He	-0.489	0.04	1560.11	0.0217	0.05061
Mn	55	3	He	1.606	0.0253	1002.04	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.486	0.0242	932.03	0.0091	0.01071
Mn	55	3	He	1.525	0.0246	960.03	0.0091	0.01071
Fe	57	3	He	9.237	0.0121	480.03	0.0004	0.008452
Fe	57	3	He	12.064	0.0133	510.03	0.0004	0.008452
Fe	57	3	He	8.358	0.0118	460.02	0.0004	0.008452
Co	59	3	He	-0.049	0.004	158.00	0.0413	0.006013
Co	59	3	He	-0.037	0.0045	172.00	0.0413	0.006013
Co	59	3	He	-0.056	0.0037	144.00	0.0413	0.006013
Ni	60	3	He	1.384	0.028	1106.05	0.0117	0.01172
Ni	60	3	He	1.399	0.0282	1082.04	0.0117	0.01172
Ni	60	3	He	1.337	0.0274	1070.04	0.0117	0.01172
Cu	63	3	He	0.013	0.0147	954.03	0.0196	0.01443
Cu	63	3	He	-0.008	0.0143	962.03	0.0196	0.01443
Cu	63	3	He	-0.043	0.0136	908.03	0.0196	0.01443
Zn	66	3	He	6.707	0.0181	1172.05	0.0023	0.002807
Zn	66	3	He	6.653	0.0179	1208.05	0.0023	0.002807
Zn	66	3	He	7.188	0.0191	1278.06	0.0023	0.002807
As	75	3	He	2.238	0.0054	350.01	0.0018	0.001271
As	75	3	He	1.97	0.0049	330.01	0.0018	0.001271
As	75	3	He	2.044	0.005	336.01	0.0018	0.001271
Sr	88	3	He	596.424	4.9015	255130.72	0.0082	0.00114
Sr	88	3	He	588.027	4.8325	252022.28	0.0082	0.00114
Sr	88	3	He	570.804	4.691	253592.44	0.0082	0.00114
Mo	98	3	He	0.23	0.0056	290.01	0.0177	0.001504
Mo	98	3	He	0.197	0.005	260.01	0.0177	0.001504
Mo	98	3	He	0.312	0.007	380.02	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	0.073	0.0003	18.00	0.0041	4.798E-05
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.078	0.0004	20.00	0.0041	4.798E-05
Sn	120	3	He	0.35	0.0154	800.05	0.0126	0.01097
Sn	120	3	He	0.409	0.0161	840.06	0.0126	0.01097
Sn	120	3	He	0.231	0.0139	750.04	0.0126	0.01097
Sb	121	3	He	0.039	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.006	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	16.7	0.0655	3410.51	0.0039	0.0003633
Ba	137	3	He	15.783	0.0619	3230.45	0.0039	0.0003633
Ba	137	3	He	15.081	0.0592	3200.45	0.0039	0.0003633
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.046	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	-0.018	0.001	80.00	0.0252	0.001497
Pb	208	3	He	-0.026	0.0008	100.00	0.0252	0.001497
Pb	208	3	He	-0.016	0.0011	60.00	0.0252	0.001497
U	238	3	He	2.658	0.0654	12646.04	0.0245	0.0001141
U	238	3	He	2.535	0.0623	12005.45	0.0245	0.0001141
U	238	3	He	2.735	0.0673	12886.25	0.0245	0.0001141
Sc	45	1	No Gas			1646619.04		
Sc	45	1	No Gas			1632958.57		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1601037.16		
Ge	72	1	No Gas			828709.83		
Ge	72	1	No Gas			833396.86		
Ge	72	1	No Gas			826124.99		
Sc	45	2	H2			132067.53		
Sc	45	2	H2			132884.04		
Sc	45	2	H2			130927.89		
Ge	72	2	H2			99386.74		
Ge	72	2	H2			97353.92		
Ge	72	2	H2			98269.29		
In	115	2	H2			240325.07		
In	115	2	H2			239627.59		
In	115	2	H2			237747.93		
Sc	45	3	He			39538.22		
Sc	45	3	He			38435.49		
Sc	45	3	He			39017.22		
Ge	72	3	He			64931.61		
Ge	72	3	He			67380.87		
Ge	72	3	He			66759.02		
In	115	3	He			52057.32		
In	115	3	He			52157.52		
In	115	3	He			54064.76		
Tb	159	3	He			193465.74		
Tb	159	3	He			192594.04		
Tb	159	3	He			191603.43		
Bi	209	3	He			141248.21		
Bi	209	3	He			141086.36		
Bi	209	3	He			139602.46		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

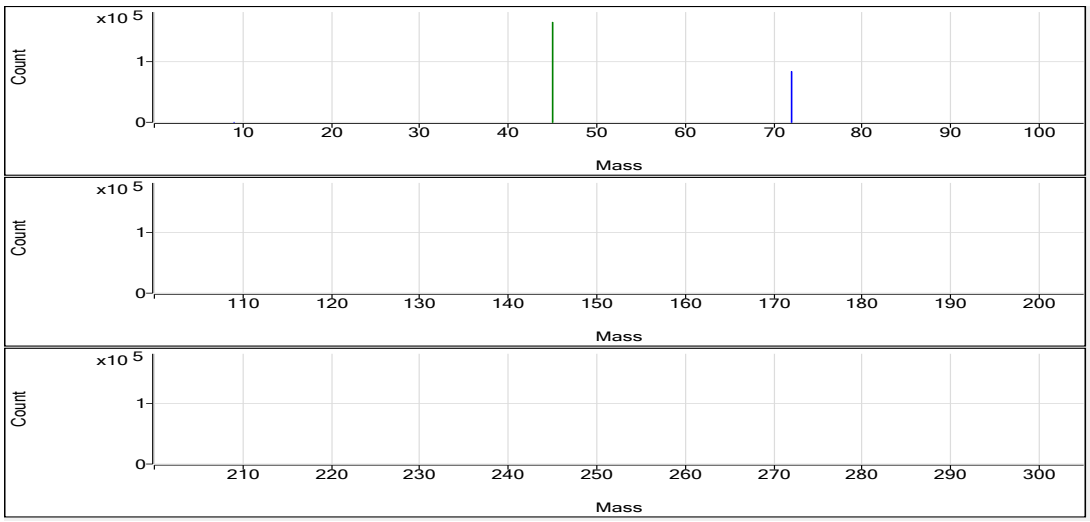
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.015	ppb	N/A	34.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.110	ppb	38.5	10.45	0.0001	Pulse	1.5000	3
Na	23	45	He	268112.059	ppb	1.1	25932085.45	669.0795	Analog	0.1000	3
Mg	24	45	He	142753.889	ppb	2.0	6700302.19	172.8833	Analog	0.1000	3
Al	27	45	He	1.603	ppb	308.5	230.01	0.0059	Pulse	0.1000	3
K	39	45	He	4439.112	ppb	0.7	191411.23	4.9385	Pulse	0.5000	3
Ca	44	45	He	247341.638	ppb	2.2	504768.70	13.0244	Pulse	0.5000	3
Ti	47	45	He	-0.146	ppb	N/A	15.33	0.0004	Pulse	0.5000	3
V	51	45	He	3.096	ppb	5.8	3121.65	0.0805	Pulse	0.5000	3
Cr	52	45	He	0.129	ppb	187.6	2070.19	0.0534	Pulse	0.1000	3
Mn	55	45	He	2281.215	ppb	1.8	806250.27	20.8029	Pulse	0.5000	3
Fe	57	45	He	183.042	ppb	3.1	3160.41	0.0815	Pulse	0.1000	3
Co	59	45	He	0.553	ppb	3.7	1117.38	0.0288	Pulse	0.5000	3
Ni	60	45	He	0.000	ppb	35057.2	454.01	0.0117	Pulse	0.5000	3
Cu	63	72	He	-0.349	ppb	N/A	510.68	0.0076	Pulse	0.5000	3
Zn	66	72	He	1.653	ppb	15.6	440.68	0.0066	Pulse	0.5000	3
As	75	72	He	2.217	ppb	4.2	359.34	0.0054	Pulse	0.5000	3
Sr	88	115	He	1862.644	ppb	1.8	783785.07	15.3050	Pulse	0.1000	3
Mo	98	115	He	0.073	ppb	87.0	143.34	0.0028	Pulse	0.1000	3
Ag	107	115	He	-0.018	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.012	ppb	0.0	0.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.359	ppb	60.7	793.39	0.0155	Pulse	0.1000	3
Sb	121	115	He	0.039	ppb	35.8	42.22	0.0008	Pulse	0.3000	3
Ba	137	115	He	110.635	ppb	2.5	22123.22	0.4320	Pulse	0.1000	3
Tl	205	159	He	-0.061	ppb	N/A	33.33	0.0002	Pulse	0.1000	3
Pb	208	159	He	0.131	ppb	8.0	910.04	0.0048	Pulse	0.1000	3
U	238	159	He	0.213	ppb	3.2	1016.74	0.0053	Pulse	0.1000	3

ISTD Table:

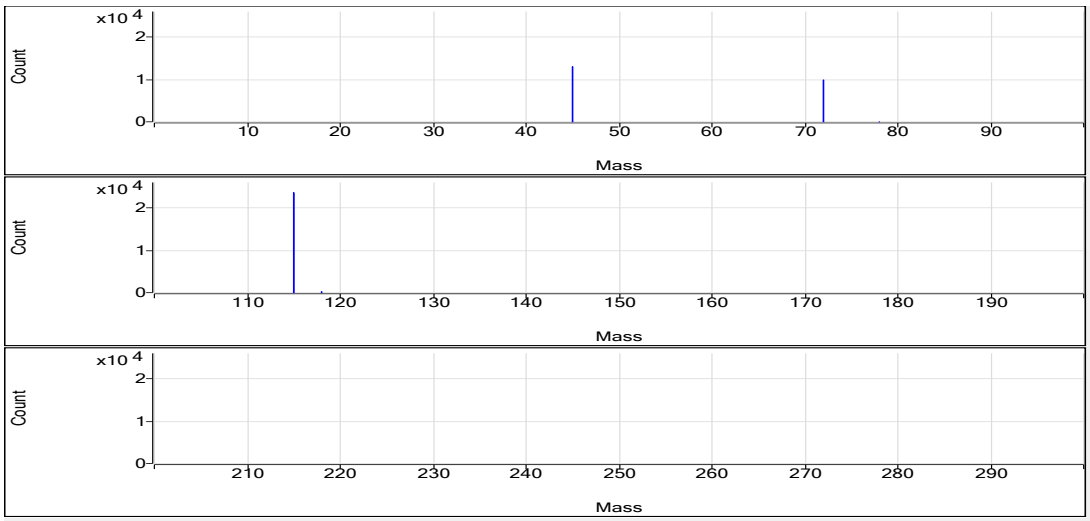
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1640402.42	1.1	96.0	Analog	0.1000	3
No Gas	Ge	72	833355.43	1.5	96.5	Pulse	0.1000	3
H2	Sc	45	130373.93	1.2	97.6	Pulse	0.1000	3
H2	Ge	72	99010.35	1.2	99.9	Pulse	0.1000	3
H2	In	115	236362.78	0.8	92.1	Pulse	0.1000	3
He	Sc	45	38759.82	0.7	98.2	Pulse	0.1000	3
He	Ge	72	67143.57	0.7	98.6	Pulse	0.1000	3
He	In	115	51216.05	0.8	92.4	Pulse	0.1000	3
He	Tb	159	190142.89	1.1	92.8	Pulse	0.1000	3
He	Bi	209	136197.55	0.4	90.0	Pulse	0.1000	3

No Gas

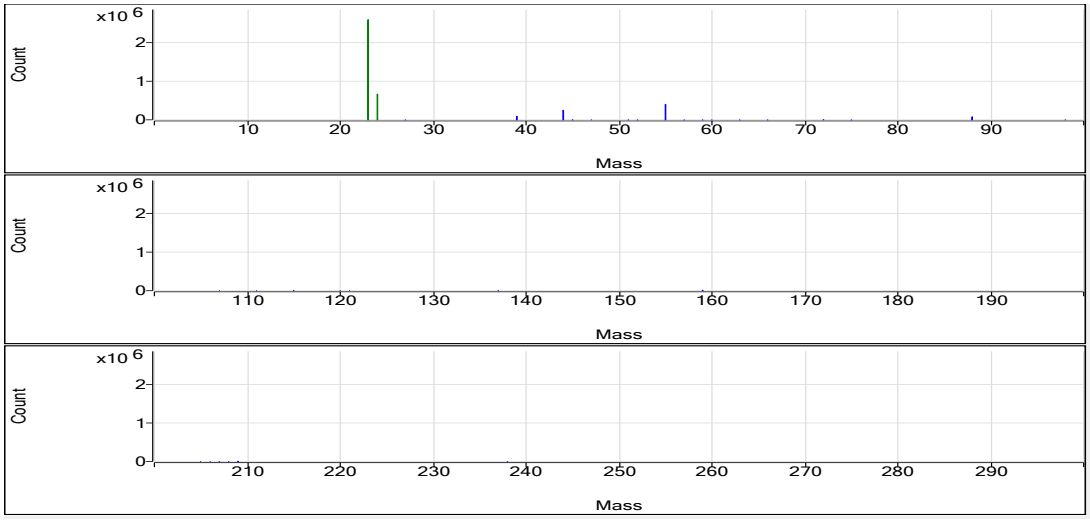


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.01	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Se	78	2	H2	0.146	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.063	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	0.119	0.0001	10.67	0.0004	6.3E-05
Na	23	3	He	264805.884	660.8382	25823817.12	0.0025	0.7502
Na	23	3	He	269696.828	673.0299	26016779.61	0.0025	0.7502
Na	23	3	He	269833.465	673.3705	25955659.61	0.0025	0.7502
Mg	24	3	He	139829.24	169.3419	6617436.15	0.0012	0.02618
Mg	24	3	He	142869.634	173.0234	6688428.65	0.0012	0.02618
Mg	24	3	He	145562.792	176.2845	6795041.77	0.0012	0.02618
Al	27	3	He	2.833	0.0064	250.01	0.0004	0.005329
Al	27	3	He	-3.842	0.0039	150.01	0.0004	0.005329
Al	27	3	He	5.819	0.0075	290.01	0.0004	0.005329
K	39	3	He	4422.691	4.9222	192345.98	0.001	0.5307
K	39	3	He	4418.084	4.9176	190096.05	0.001	0.5307
K	39	3	He	4476.56	4.9757	191791.67	0.001	0.5307
Ca	44	3	He	241088.403	12.6952	496095.59	0.0001	0.004441
Ca	44	3	He	249599.764	13.1432	508068.03	0.0001	0.004441
Ca	44	3	He	251336.748	13.2347	510142.47	0.0001	0.004441
Ti	47	3	He	-0.489	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	0.15	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	-0.1	0.0004	16.00	0.0004	0.0004559
V	51	3	He	2.917	0.0774	3024.29	0.0176	0.02609
V	51	3	He	3.273	0.0837	3234.34	0.0176	0.02609
V	51	3	He	3.098	0.0806	3106.32	0.0176	0.02609
Cr	52	3	He	-0.021	0.0502	1960.18	0.0217	0.05061
Cr	52	3	He	0.409	0.0595	2300.23	0.0217	0.05061
Cr	52	3	He	-0.001	0.0506	1950.17	0.0217	0.05061
Mn	55	3	He	2236.889	20.3989	797136.94	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2291.228	20.8942	807690.94	0.0091	0.01071
Mn	55	3	He	2315.527	21.1157	813922.94	0.0091	0.01071
Fe	57	3	He	178.153	0.0796	3110.38	0.0004	0.008452
Fe	57	3	He	181.622	0.081	3130.41	0.0004	0.008452
Fe	57	3	He	189.35	0.0841	3240.43	0.0004	0.008452
Co	59	3	He	0.53	0.0279	1090.04	0.0413	0.006013
Co	59	3	He	0.57	0.0295	1142.05	0.0413	0.006013
Co	59	3	He	0.558	0.0291	1120.04	0.0413	0.006013
Ni	60	3	He	-0.126	0.0102	400.01	0.0117	0.01172
Ni	60	3	He	0.02	0.012	462.01	0.0117	0.01172
Ni	60	3	He	0.107	0.013	500.01	0.0117	0.01172
Cu	63	3	He	-0.352	0.0076	504.01	0.0196	0.01443
Cu	63	3	He	-0.331	0.008	534.01	0.0196	0.01443
Cu	63	3	He	-0.364	0.0073	494.01	0.0196	0.01443
Zn	66	3	He	1.944	0.0072	482.01	0.0023	0.002807
Zn	66	3	He	1.453	0.0061	410.01	0.0023	0.002807
Zn	66	3	He	1.564	0.0064	430.01	0.0023	0.002807
As	75	3	He	2.111	0.0052	344.01	0.0018	0.001271
As	75	3	He	2.256	0.0054	364.01	0.0018	0.001271
As	75	3	He	2.283	0.0055	370.01	0.0018	0.001271
Sr	88	3	He	1830.498	15.0409	776403.27	0.0082	0.00114
Sr	88	3	He	1860.854	15.2903	783782.25	0.0082	0.00114
Sr	88	3	He	1896.58	15.5838	791169.68	0.0082	0.00114
Mo	98	3	He	0.145	0.0041	210.01	0.0177	0.001504
Mo	98	3	He	0.025	0.002	100.00	0.0177	0.001504
Mo	98	3	He	0.049	0.0024	120.01	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.606	0.0186	960.07	0.0126	0.01097
Sn	120	3	He	0.198	0.0135	690.04	0.0126	0.01097
Sn	120	3	He	0.271	0.0144	730.05	0.0126	0.01097
Sb	121	3	He	0.024	0.0006	33.33	0.012	0.0003595
Sb	121	3	He	0.051	0.001	50.00	0.012	0.0003595
Sb	121	3	He	0.041	0.0009	43.33	0.012	0.0003595
Ba	137	3	He	108.33	0.423	21836.14	0.0039	0.0003633
Ba	137	3	He	109.891	0.4291	21996.35	0.0039	0.0003633
Ba	137	3	He	113.686	0.4439	22537.18	0.0039	0.0003633
Tl	205	3	He	-0.062	0.0002	30.00	0.0189	0.001334
Tl	205	3	He	-0.062	0.0002	30.00	0.0189	0.001334
Tl	205	3	He	-0.059	0.0002	40.00	0.0189	0.001334
Pb	208	3	He	0.141	0.005	540.03	0.0252	0.001497
Pb	208	3	He	0.12	0.0045	390.02	0.0252	0.001497
Pb	208	3	He	0.131	0.0048	480.02	0.0252	0.001497
U	238	3	He	0.218	0.0055	1050.08	0.0245	0.0001141
U	238	3	He	0.216	0.0054	1020.08	0.0245	0.0001141
U	238	3	He	0.205	0.0052	980.07	0.0245	0.0001141
Sc	45	1	No Gas			1621874.35		
Sc	45	1	No Gas			1657201.23		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1642131.69		
Ge	72	1	No Gas			819957.25		
Ge	72	1	No Gas			835903.74		
Ge	72	1	No Gas			844205.30		
Sc	45	2	H2			131744.59		
Sc	45	2	H2			128630.82		
Sc	45	2	H2			130746.38		
Ge	72	2	H2			100201.10		
Ge	72	2	H2			98952.67		
Ge	72	2	H2			97877.28		
In	115	2	H2			238479.59		
In	115	2	H2			235061.34		
In	115	2	H2			235547.40		
Sc	45	3	He			39077.37		
Sc	45	3	He			38656.20		
Sc	45	3	He			38545.88		
Ge	72	3	He			66718.54		
Ge	72	3	He			67119.99		
Ge	72	3	He			67592.18		
In	115	3	He			51626.19		
In	115	3	He			51264.90		
In	115	3	He			50773.71		
Tb	159	3	He			192158.32		
Tb	159	3	He			188087.32		
Tb	159	3	He			190183.04		
Bi	209	3	He			136685.30		
Bi	209	3	He			136210.19		
Bi	209	3	He			135697.15		

Quantitation Report

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Acq Time	7/10/2025 8:12:16 PM
Sample Name	410-228777-L-1-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

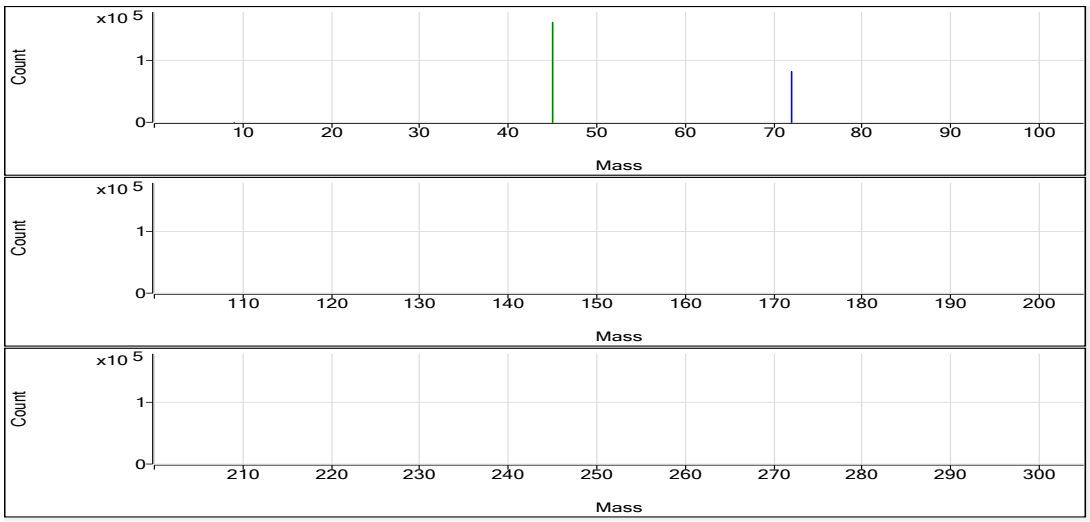
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.008	ppb	N/A	38.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.068	ppb	N/A	3.55	0.0000	Pulse	1.5000	3
Na	23	45	He	96918.187	ppb	1.0	9433400.69	242.3405	Analog	0.1000	3
Mg	24	45	He	79212.568	ppb	0.8	3734660.99	95.9427	Analog	0.1000	3
Al	27	45	He	6.300	ppb	48.6	300.01	0.0077	Pulse	0.1000	3
K	39	45	He	7533.633	ppb	1.1	311834.22	8.0112	Pulse	0.5000	3
Ca	44	45	He	255751.268	ppb	1.4	524205.78	13.4671	Pulse	0.5000	3
Ti	47	45	He	-0.486	ppb	N/A	10.00	0.0003	Pulse	0.5000	3
V	51	45	He	0.185	ppb	12.0	1142.72	0.0294	Pulse	0.5000	3
Cr	52	45	He	-0.568	ppb	N/A	1490.12	0.0383	Pulse	0.1000	3
Mn	55	45	He	6079.328	ppb	1.1	2157338.08	55.4210	Analog	0.5000	3
Fe	57	45	He	14163.596	ppb	1.8	220481.14	5.6645	Pulse	0.1000	3
Co	59	45	He	0.817	ppb	3.3	1547.42	0.0398	Pulse	0.5000	3
Ni	60	45	He	1.638	ppb	6.4	1205.39	0.0310	Pulse	0.5000	3
Cu	63	72	He	-0.262	ppb	N/A	616.01	0.0093	Pulse	0.5000	3
Zn	66	72	He	1.894	ppb	7.7	470.01	0.0071	Pulse	0.5000	3
As	75	72	He	4.226	ppb	2.9	598.02	0.0090	Pulse	0.5000	3
Sr	88	115	He	1263.312	ppb	1.4	530151.62	10.3808	Pulse	0.1000	3
Mo	98	115	He	1.200	ppb	8.4	1163.41	0.0228	Pulse	0.1000	3
Ag	107	115	He	-0.008	ppb	N/A	53.33	0.0010	Pulse	0.1000	3
Cd	111	115	He	-0.002	ppb	N/A	2.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.257	ppb	101.5	726.71	0.0142	Pulse	0.1000	3
Sb	121	115	He	0.019	ppb	85.6	30.00	0.0006	Pulse	0.3000	3
Ba	137	115	He	205.341	ppb	2.2	40932.01	0.8015	Pulse	0.1000	3
Tl	205	159	He	-0.055	ppb	N/A	56.67	0.0003	Pulse	0.1000	3
Pb	208	159	He	-0.007	ppb	N/A	250.00	0.0013	Pulse	0.1000	3
U	238	159	He	9.658	ppb	1.3	45058.56	0.2372	Pulse	0.1000	3

ISTD Table:

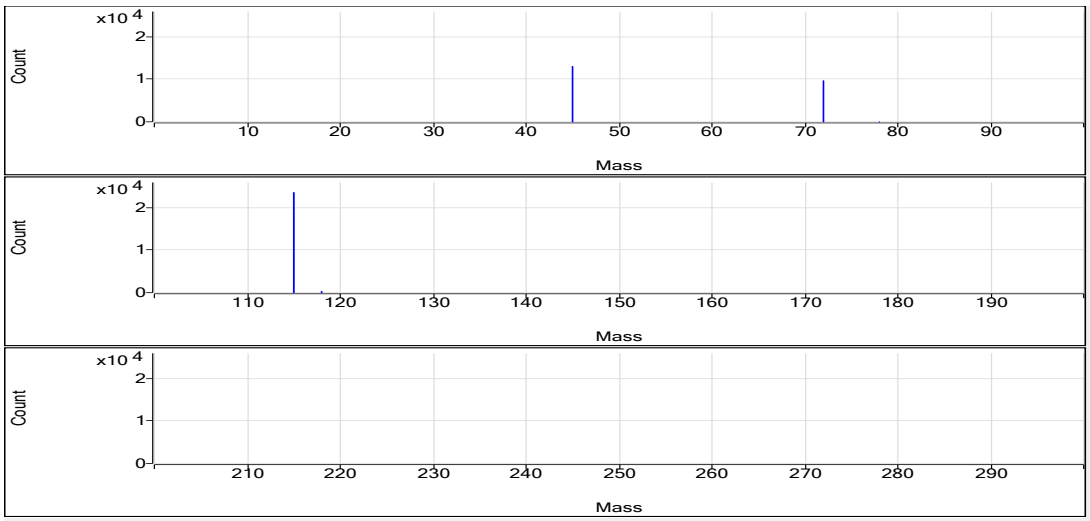
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1625598.83	1.0	95.1	Analog	0.1000	3
No Gas	Ge	72	825249.57	1.1	95.5	Pulse	0.1000	3
H2	Sc	45	130038.47	1.9	97.3	Pulse	0.1000	3
H2	Ge	72	96388.36	2.1	97.3	Pulse	0.1000	3
H2	In	115	235049.43	0.9	91.6	Pulse	0.1000	3
He	Sc	45	38927.04	0.8	98.6	Pulse	0.1000	3
He	Ge	72	66092.63	1.1	97.0	Pulse	0.1000	3
He	In	115	51079.44	1.9	92.2	Pulse	0.1000	3
He	Tb	159	189969.03	0.4	92.8	Pulse	0.1000	3
He	Bi	209	139179.28	0.4	92.0	Pulse	0.1000	3

No Gas

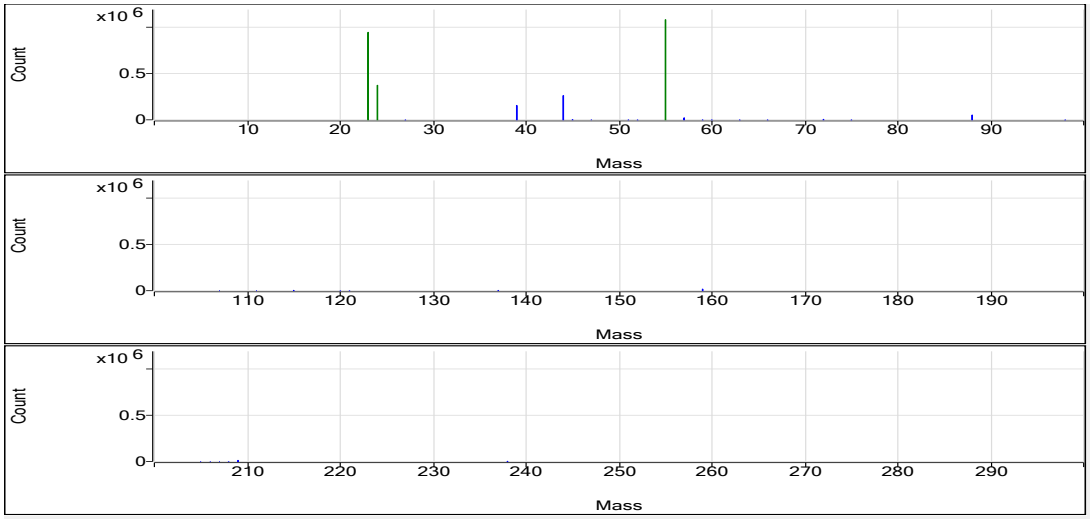


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.001	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.002	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.022	0	30.00	0.0003	2.616E-05
Se	78	2	H2	-0.022	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	-0.074	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Na	23	3	He	95897.221	239.7955	9334523.61	0.0025	0.7502
Na	23	3	He	97786.273	244.5044	9436954.23	0.0025	0.7502
Na	23	3	He	97071.068	242.7216	9528724.23	0.0025	0.7502
Mg	24	3	He	79733.528	96.5735	3759319.01	0.0012	0.02618
Mg	24	3	He	79341.897	96.0993	3709073.38	0.0012	0.02618
Mg	24	3	He	78562.279	95.1553	3735590.57	0.0012	0.02618
Al	27	3	He	2.899	0.0064	250.01	0.0004	0.005329
Al	27	3	He	7.167	0.008	310.01	0.0004	0.005329
Al	27	3	He	8.835	0.0087	340.01	0.0004	0.005329
K	39	3	He	7559.048	8.0364	312834.47	0.001	0.5307
K	39	3	He	7603.404	8.0805	311876.25	0.001	0.5307
K	39	3	He	7438.447	7.9167	310791.94	0.001	0.5307
Ca	44	3	He	252580.852	13.3002	517736.03	0.0001	0.004441
Ca	44	3	He	259663.852	13.673	527727.31	0.0001	0.004441
Ca	44	3	He	255009.101	13.428	527154.00	0.0001	0.004441
Ti	47	3	He	0.016	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	-0.608	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.866	0.0001	4.00	0.0004	0.0004559
V	51	3	He	0.211	0.0298	1160.05	0.0176	0.02609
V	51	3	He	0.169	0.0291	1122.05	0.0176	0.02609
V	51	3	He	0.176	0.0292	1146.05	0.0176	0.02609
Cr	52	3	He	-0.473	0.0403	1570.13	0.0217	0.05061
Cr	52	3	He	-0.624	0.0371	1430.11	0.0217	0.05061
Cr	52	3	He	-0.606	0.0374	1470.11	0.0217	0.05061
Mn	55	3	He	6001.891	54.7152	2129900.50	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	6137.227	55.9487	2159412.50	0.0091	0.01071
Mn	55	3	He	6098.867	55.5991	2182701.25	0.0091	0.01071
Fe	57	3	He	14082.901	5.6323	219247.85	0.0004	0.008452
Fe	57	3	He	14445.067	5.7769	222966.95	0.0004	0.008452
Fe	57	3	He	13962.822	5.5843	219228.63	0.0004	0.008452
Co	59	3	He	0.847	0.041	1596.09	0.0413	0.006013
Co	59	3	He	0.808	0.0394	1520.08	0.0413	0.006013
Co	59	3	He	0.796	0.0389	1526.08	0.0413	0.006013
Ni	60	3	He	1.693	0.0316	1230.06	0.0117	0.01172
Ni	60	3	He	1.517	0.0295	1140.05	0.0117	0.01172
Ni	60	3	He	1.705	0.0317	1246.06	0.0117	0.01172
Cu	63	3	He	-0.249	0.0096	640.02	0.0196	0.01443
Cu	63	3	He	-0.268	0.0092	604.01	0.0196	0.01443
Cu	63	3	He	-0.268	0.0092	604.01	0.0196	0.01443
Zn	66	3	He	1.841	0.007	468.01	0.0023	0.002807
Zn	66	3	He	1.781	0.0069	450.01	0.0023	0.002807
Zn	66	3	He	2.06	0.0075	492.01	0.0023	0.002807
As	75	3	He	4.099	0.0088	590.02	0.0018	0.001271
As	75	3	He	4.341	0.0093	608.02	0.0018	0.001271
As	75	3	He	4.237	0.0091	596.01	0.0018	0.001271
Sr	88	3	He	1281.952	10.5339	529186.79	0.0082	0.00114
Sr	88	3	He	1262.104	10.3709	527564.09	0.0082	0.00114
Sr	88	3	He	1245.879	10.2375	533703.98	0.0082	0.00114
Mo	98	3	He	1.084	0.0207	1040.07	0.0177	0.001504
Mo	98	3	He	1.269	0.024	1220.09	0.0177	0.001504
Mo	98	3	He	1.247	0.0236	1230.08	0.0177	0.001504
Ag	107	3	He	-0.004	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.315	0.0149	750.04	0.0126	0.01097
Sn	120	3	He	-0.028	0.0106	540.03	0.0126	0.01097
Sn	120	3	He	0.485	0.0171	890.06	0.0126	0.01097
Sb	121	3	He	0.003	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.035	0.0008	40.00	0.012	0.0003595
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Ba	137	3	He	206.662	0.8067	40524.50	0.0039	0.0003633
Ba	137	3	He	208.986	0.8157	41496.64	0.0039	0.0003633
Ba	137	3	He	200.375	0.7821	40774.88	0.0039	0.0003633
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Pb	208	3	He	-0.007	0.0013	80.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	130.01	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	140.00	0.0252	0.001497
U	238	3	He	9.72	0.2387	45282.20	0.0245	0.0001141
U	238	3	He	9.738	0.2392	45312.94	0.0245	0.0001141
U	238	3	He	9.515	0.2337	44580.54	0.0245	0.0001141
Sc	45	1	No Gas			1620718.10		
Sc	45	1	No Gas			1644387.16		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1611691.23		
Ge	72	1	No Gas			831901.16		
Ge	72	1	No Gas			828882.57		
Ge	72	1	No Gas			814964.99		
Sc	45	2	H2			132944.09		
Sc	45	2	H2			128530.19		
Sc	45	2	H2			128641.13		
Ge	72	2	H2			98089.08		
Ge	72	2	H2			96871.07		
Ge	72	2	H2			94204.92		
In	115	2	H2			237354.43		
In	115	2	H2			234094.78		
In	115	2	H2			233699.08		
Sc	45	3	He			38927.02		
Sc	45	3	He			38596.26		
Sc	45	3	He			39257.84		
Ge	72	3	He			66929.45		
Ge	72	3	He			65644.31		
Ge	72	3	He			65704.13		
In	115	3	He			50241.67		
In	115	3	He			50873.66		
In	115	3	He			52138.24		
Tb	159	3	He			189678.34		
Tb	159	3	He			189467.26		
Tb	159	3	He			190761.48		
Bi	209	3	He			139027.21		
Bi	209	3	He			138736.20		
Bi	209	3	He			139774.44		

Quantitation Report

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Sample Type	Sample
Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

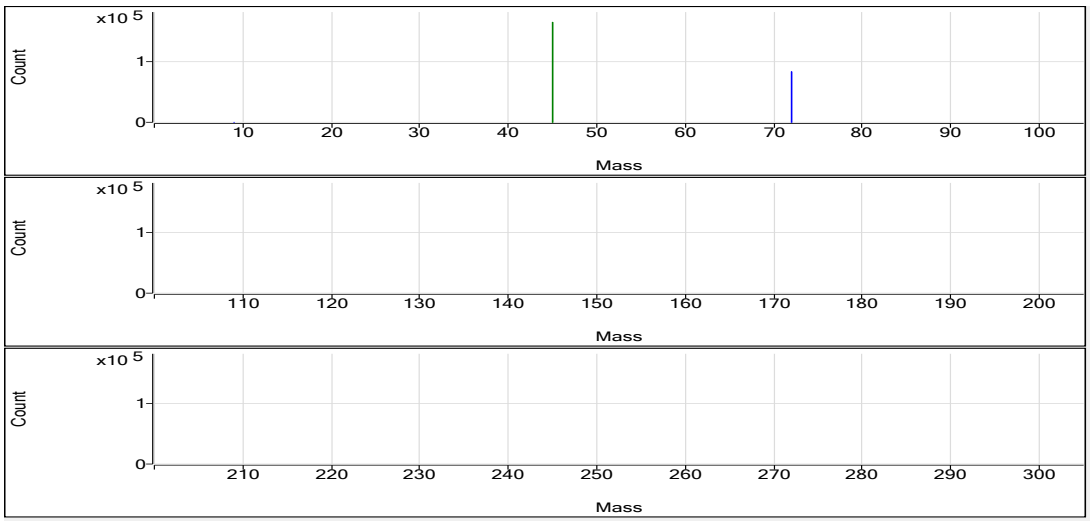
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.003	ppb	732.0	44.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.071	ppb	135.4	8.89	0.0001	Pulse	1.5000	3
Na	23	45	He	267096.477	ppb	1.3	25455947.95	666.5480	Analog	0.1000	3
Mg	24	45	He	142611.640	ppb	1.5	6595880.94	172.7110	Analog	0.1000	3
Al	27	45	He	0.431	ppb	539.1	210.01	0.0055	Pulse	0.1000	3
K	39	45	He	4548.907	ppb	0.5	192788.79	5.0475	Pulse	0.5000	3
Ca	44	45	He	248778.817	ppb	2.0	500270.54	13.1000	Pulse	0.5000	3
Ti	47	45	He	-0.262	ppb	N/A	13.33	0.0003	Pulse	0.5000	3
V	51	45	He	3.048	ppb	1.9	3044.30	0.0797	Pulse	0.5000	3
Cr	52	45	He	0.011	ppb	2360.1	1940.18	0.0508	Pulse	0.1000	3
Mn	55	45	He	2312.228	ppb	1.7	805242.10	21.0856	Pulse	0.5000	3
Fe	57	45	He	394.991	ppb	5.1	6344.78	0.1662	Pulse	0.1000	3
Co	59	45	He	0.519	ppb	1.5	1048.04	0.0274	Pulse	0.5000	3
Ni	60	45	He	0.135	ppb	59.0	508.01	0.0133	Pulse	0.5000	3
Cu	63	72	He	-0.333	ppb	N/A	524.68	0.0079	Pulse	0.5000	3
Zn	66	72	He	0.815	ppb	25.3	308.67	0.0047	Pulse	0.5000	3
As	75	72	He	2.507	ppb	9.4	390.01	0.0059	Pulse	0.5000	3
Sr	88	115	He	1856.237	ppb	2.2	780643.38	15.2524	Pulse	0.1000	3
Mo	98	115	He	0.235	ppb	10.8	290.01	0.0057	Pulse	0.1000	3
Ag	107	115	He	-0.018	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.002	ppb	N/A	2.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.215	ppb	57.9	700.04	0.0137	Pulse	0.1000	3
Sb	121	115	He	0.021	ppb	64.0	31.11	0.0006	Pulse	0.3000	3
Ba	137	115	He	109.079	ppb	2.4	21802.69	0.4259	Pulse	0.1000	3
Tl	205	159	He	-0.055	ppb	N/A	53.33	0.0003	Pulse	0.1000	3
Pb	208	159	He	0.083	ppb	18.5	676.69	0.0036	Pulse	0.1000	3
U	238	159	He	0.229	ppb	5.8	1083.41	0.0057	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1639601.90	1.0	96.0	Analog	0.1000	3
No Gas	Ge	72	829599.81	0.5	96.0	Pulse	0.1000	3
H2	Sc	45	130945.69	2.0	98.0	Pulse	0.1000	3
H2	Ge	72	98165.18	2.3	99.1	Pulse	0.1000	3
H2	In	115	235092.65	0.8	91.6	Pulse	0.1000	3
He	Sc	45	38195.13	1.4	96.8	Pulse	0.1000	3
He	Ge	72	66283.28	0.7	97.3	Pulse	0.1000	3
He	In	115	51196.48	2.0	92.4	Pulse	0.1000	3
He	Tb	159	188581.56	0.5	92.1	Pulse	0.1000	3
He	Bi	209	136147.37	1.6	90.0	Pulse	0.1000	3

No Gas



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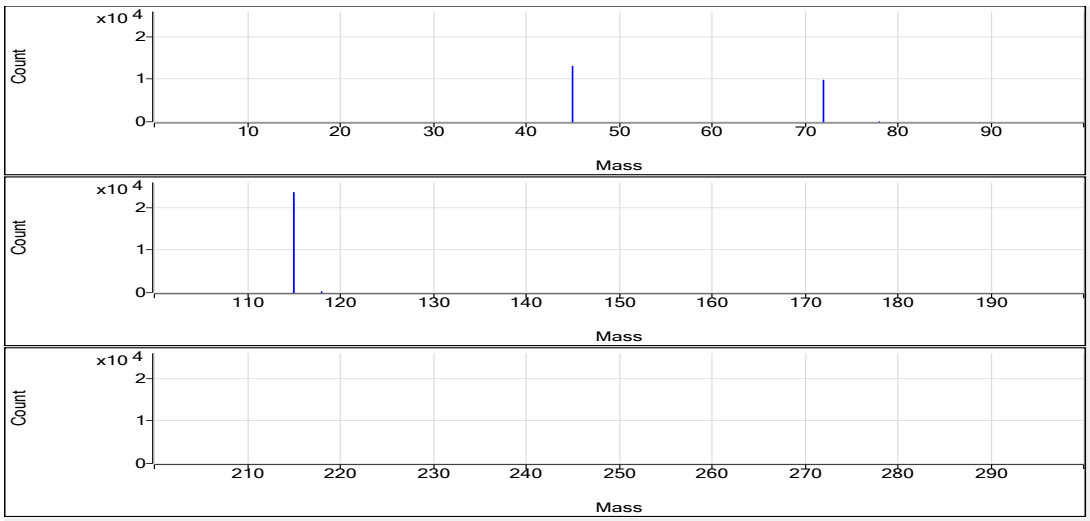
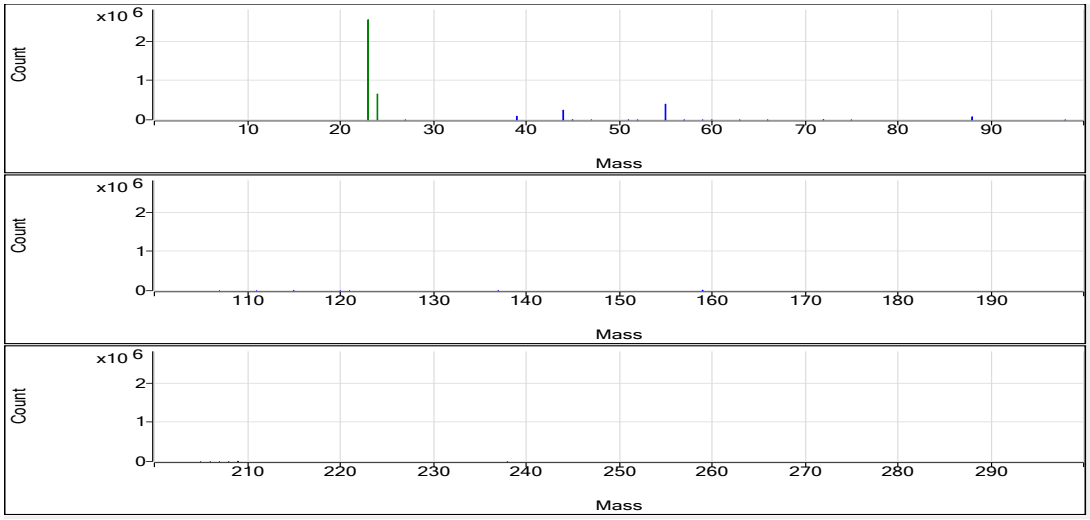


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.01	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.024	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	0.024	0	56.00	0.0003	2.616E-05
Se	78	2	H2	0.111	0.0001	10.67	0.0004	6.3E-05
Se	78	2	H2	-0.039	0	4.67	0.0004	6.3E-05
Se	78	2	H2	0.14	0.0001	11.33	0.0004	6.3E-05
Na	23	3	He	263092.095	656.5662	25452857.12	0.0025	0.7502
Na	23	3	He	268793.347	670.7778	25539844.62	0.0025	0.7502
Na	23	3	He	269403.991	672.3	25375142.12	0.0025	0.7502
Mg	24	3	He	140125.954	169.7012	6578743.03	0.0012	0.02618
Mg	24	3	He	144011.268	174.4058	6640496.15	0.0012	0.02618
Mg	24	3	He	143697.699	174.0261	6568403.65	0.0012	0.02618
Al	27	3	He	2.969	0.0064	250.01	0.0004	0.005329
Al	27	3	He	-1.595	0.0047	180.01	0.0004	0.005329
Al	27	3	He	-0.08	0.0053	200.01	0.0004	0.005329
K	39	3	He	4553.242	5.0518	195841.81	0.001	0.5307
K	39	3	He	4522.259	5.021	191176.28	0.001	0.5307
K	39	3	He	4571.219	5.0697	191348.28	0.001	0.5307
Ca	44	3	He	243963.263	12.8465	498017.28	0.0001	0.004441
Ca	44	3	He	248695.375	13.0956	498616.16	0.0001	0.004441
Ca	44	3	He	253677.812	13.3579	504178.19	0.0001	0.004441
Ti	47	3	He	-0.105	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	-0.472	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.208	0.0004	14.00	0.0004	0.0004559
V	51	3	He	3.008	0.079	3062.31	0.0176	0.02609
V	51	3	He	3.023	0.0793	3018.30	0.0176	0.02609
V	51	3	He	3.114	0.0809	3052.30	0.0176	0.02609
Cr	52	3	He	-0.275	0.0446	1730.15	0.0217	0.05061
Cr	52	3	He	0.076	0.0523	1990.19	0.0217	0.05061
Cr	52	3	He	0.232	0.0556	2100.20	0.0217	0.05061
Mn	55	3	He	2267.574	20.6786	801640.19	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2325.299	21.2048	807370.50	0.0091	0.01071
Mn	55	3	He	2343.81	21.3735	806715.63	0.0091	0.01071
Fe	57	3	He	372.304	0.1571	6091.29	0.0004	0.008452
Fe	57	3	He	402.483	0.1692	6441.48	0.0004	0.008452
Fe	57	3	He	410.187	0.1723	6501.57	0.0004	0.008452
Co	59	3	He	0.514	0.0272	1056.04	0.0413	0.006013
Co	59	3	He	0.515	0.0273	1038.04	0.0413	0.006013
Co	59	3	He	0.528	0.0278	1050.04	0.0413	0.006013
Ni	60	3	He	0.123	0.0132	510.01	0.0117	0.01172
Ni	60	3	He	0.062	0.0124	474.01	0.0117	0.01172
Ni	60	3	He	0.221	0.0143	540.01	0.0117	0.01172
Cu	63	3	He	-0.346	0.0077	512.01	0.0196	0.01443
Cu	63	3	He	-0.343	0.0077	508.01	0.0196	0.01443
Cu	63	3	He	-0.311	0.0084	554.01	0.0196	0.01443
Zn	66	3	He	0.678	0.0043	290.00	0.0023	0.002807
Zn	66	3	He	1.051	0.0052	342.01	0.0023	0.002807
Zn	66	3	He	0.715	0.0044	294.00	0.0023	0.002807
As	75	3	He	2.274	0.0055	364.01	0.0018	0.001271
As	75	3	He	2.743	0.0063	416.01	0.0018	0.001271
As	75	3	He	2.504	0.0059	390.01	0.0018	0.001271
Sr	88	3	He	1898.556	15.6001	781354.13	0.0082	0.00114
Sr	88	3	He	1815.832	14.9204	776635.54	0.0082	0.00114
Sr	88	3	He	1854.324	15.2367	783940.46	0.0082	0.00114
Mo	98	3	He	0.265	0.0062	310.02	0.0177	0.001504
Mo	98	3	He	0.219	0.0054	280.01	0.0177	0.001504
Mo	98	3	He	0.222	0.0054	280.01	0.0177	0.001504
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	0.018	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.223	0.0138	690.04	0.0126	0.01097
Sn	120	3	He	0.335	0.0152	790.04	0.0126	0.01097
Sn	120	3	He	0.086	0.0121	620.04	0.0126	0.01097
Sb	121	3	He	0.009	0.0005	23.33	0.012	0.0003595
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.035	0.0008	40.00	0.012	0.0003595
Ba	137	3	He	111.545	0.4356	21815.99	0.0039	0.0003633
Ba	137	3	He	109.401	0.4272	22236.71	0.0039	0.0003633
Ba	137	3	He	106.29	0.4151	21355.38	0.0039	0.0003633
Tl	205	3	He	-0.059	0.0002	40.00	0.0189	0.001334
Tl	205	3	He	-0.056	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Pb	208	3	He	0.098	0.004	410.02	0.0252	0.001497
Pb	208	3	He	0.067	0.0032	340.01	0.0252	0.001497
Pb	208	3	He	0.085	0.0036	260.01	0.0252	0.001497
U	238	3	He	0.24	0.006	1140.09	0.0245	0.0001141
U	238	3	He	0.233	0.0058	1100.07	0.0245	0.0001141
U	238	3	He	0.215	0.0054	1010.07	0.0245	0.0001141
Sc	45	1	No Gas			1630447.79		
Sc	45	1	No Gas			1658688.41		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629669.51		
Ge	72	1	No Gas			826511.47		
Ge	72	1	No Gas			834483.43		
Ge	72	1	No Gas			827804.52		
Sc	45	2	H2			129528.61		
Sc	45	2	H2			129375.20		
Sc	45	2	H2			133933.25		
Ge	72	2	H2			100724.16		
Ge	72	2	H2			97202.85		
Ge	72	2	H2			96568.52		
In	115	2	H2			234743.12		
In	115	2	H2			233436.50		
In	115	2	H2			237098.32		
Sc	45	3	He			38766.63		
Sc	45	3	He			38074.97		
Sc	45	3	He			37743.78		
Ge	72	3	He			66708.07		
Ge	72	3	He			65814.75		
Ge	72	3	He			66327.03		
In	115	3	He			50091.38		
In	115	3	He			52057.47		
In	115	3	He			51455.29		
Tb	159	3	He			189628.02		
Tb	159	3	He			188495.70		
Tb	159	3	He			187620.95		
Bi	209	3	He			137936.78		
Bi	209	3	He			136827.34		
Bi	209	3	He			133677.99		

Quantitation Report

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Comment	MS H10
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

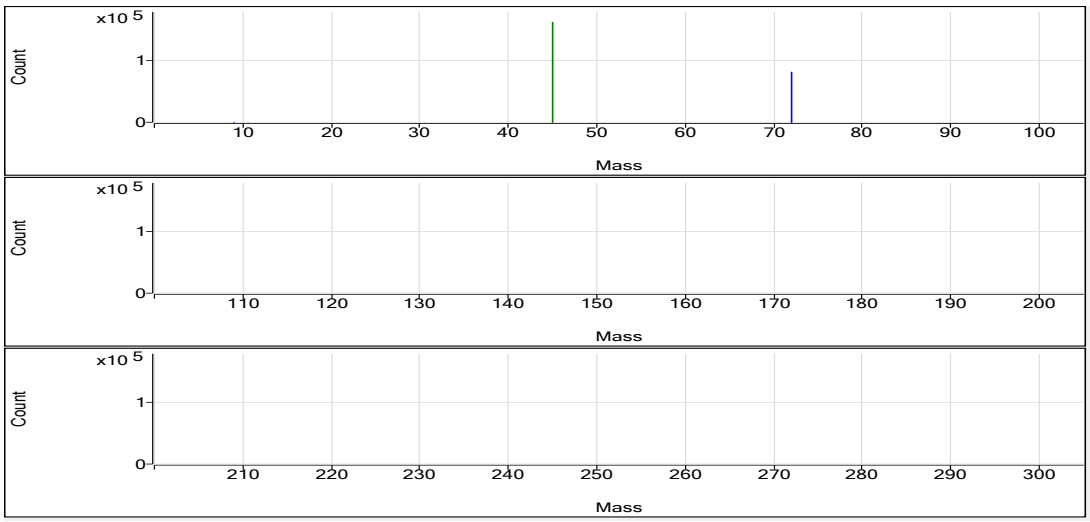
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.138	ppb	26.3	117.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.074	ppb	68.5	8.89	0.0001	Pulse	1.5000	3
Na	23	45	He	364962.145	ppb	0.3	35567809.47	910.5001	Analog	0.1000	3
Mg	24	45	He	279106.955	ppb	1.6	13202584.80	337.9898	Analog	0.1000	3
Al	27	45	He	13.045	ppb	35.7	400.03	0.0102	Pulse	0.1000	3
K	39	45	He	19080.090	ppb	1.6	760772.56	19.4763	Pulse	0.5000	3
Ca	44	45	He	372531.924	ppb	1.3	766174.12	19.6143	Pulse	0.5000	3
Ti	47	45	He	-0.029	ppb	N/A	17.33	0.0004	Pulse	0.5000	3
V	51	45	He	0.177	ppb	121.5	1140.05	0.0292	Pulse	0.5000	3
Cr	52	45	He	-0.322	ppb	N/A	1703.48	0.0436	Pulse	0.1000	3
Mn	55	45	He	23111.681	ppb	0.7	8229108.33	210.6632	Analog	0.5000	3
Fe	57	45	He	32231.694	ppb	1.0	503113.66	12.8798	Pulse	0.1000	3
Co	59	45	He	78.976	ppb	1.4	127609.99	3.2668	Pulse	0.5000	3
Ni	60	45	He	90.655	ppb	1.3	42048.71	1.0765	Pulse	0.5000	3
Cu	63	72	He	0.076	ppb	4.8	1023.37	0.0159	Pulse	0.5000	3
Zn	66	72	He	24.460	ppb	3.7	3752.45	0.0584	Pulse	0.5000	3
As	75	72	He	5.834	ppb	2.3	772.02	0.0120	Pulse	0.5000	3
Sr	88	115	He	1670.137	ppb	1.2	690824.55	13.7233	Pulse	0.1000	3
Mo	98	115	He	0.637	ppb	17.1	643.37	0.0128	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.014	ppb	38.1	5.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.281	ppb	10.3	730.05	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.010	ppb	30.3	24.44	0.0005	Pulse	0.3000	3
Ba	137	115	He	26.209	ppb	5.3	5164.38	0.1026	Pulse	0.1000	3
Tl	205	159	He	-0.048	ppb	N/A	80.00	0.0004	Pulse	0.1000	3
Pb	208	159	He	0.002	ppb	105.7	293.34	0.0015	Pulse	0.1000	3
U	238	159	He	6.528	ppb	1.8	30586.82	0.1604	Pulse	0.1000	3

ISTD Table:

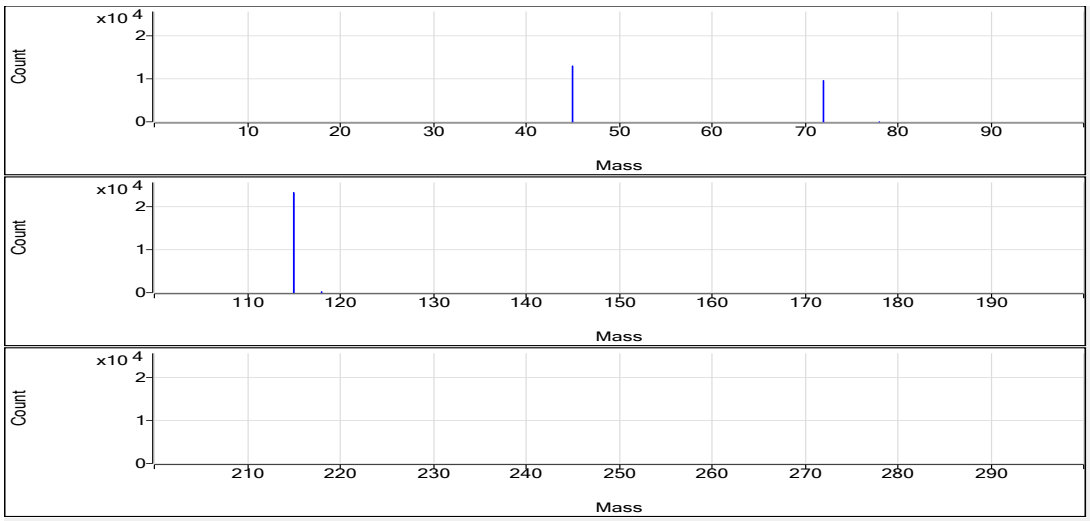
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1619838.68	1.1	94.8	Analog	0.1000	3
No Gas	Ge	72	813656.08	0.9	94.2	Pulse	0.1000	3
H2	Sc	45	130995.88	1.1	98.0	Pulse	0.1000	3
H2	Ge	72	96747.15	1.7	97.7	Pulse	0.1000	3
H2	In	115	234514.23	0.8	91.4	Pulse	0.1000	3
He	Sc	45	39064.16	0.7	99.0	Pulse	0.1000	3
He	Ge	72	64271.95	1.0	94.4	Pulse	0.1000	3
He	In	115	50343.42	1.1	90.9	Pulse	0.1000	3
He	Tb	159	190747.86	1.4	93.1	Pulse	0.1000	3
He	Bi	209	136275.25	0.4	90.1	Pulse	0.1000	3

No Gas

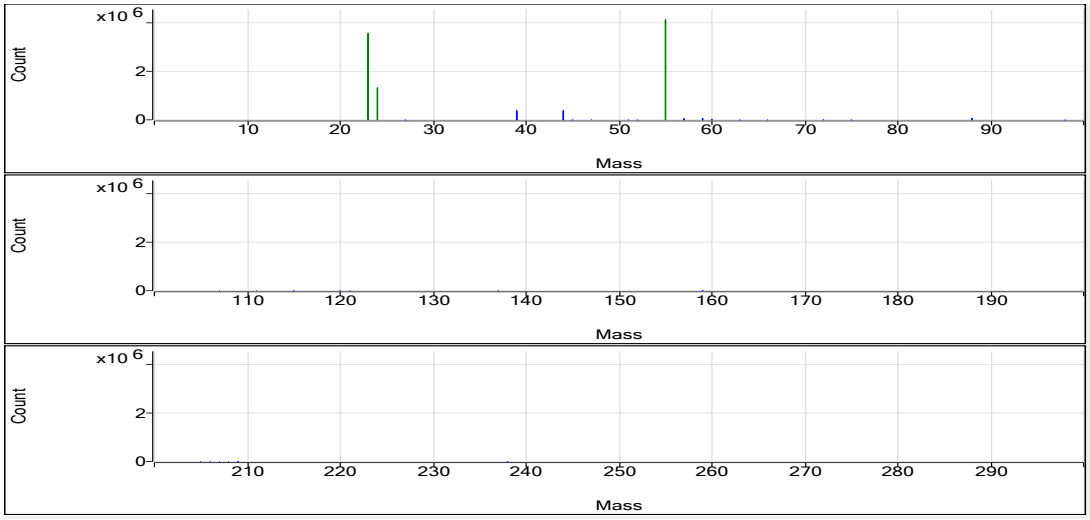


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.104	0.0001	100.00	0.0003	2.616E-05
Be	9	1	No Gas	0.176	0.0001	138.00	0.0003	2.616E-05
Be	9	1	No Gas	0.134	0.0001	114.00	0.0003	2.616E-05
Se	78	2	H2	0.019	0.0001	6.67	0.0004	6.3E-05
Se	78	2	H2	0.118	0.0001	10.67	0.0004	6.3E-05
Se	78	2	H2	0.085	0.0001	9.33	0.0004	6.3E-05
Na	23	3	He	364998.842	910.5915	35282599.47	0.0025	0.7502
Na	23	3	He	365862.512	912.7444	35740954.47	0.0025	0.7502
Na	23	3	He	364025.082	908.1642	35679874.47	0.0025	0.7502
Mg	24	3	He	281712.89	341.1453	13218321.05	0.0012	0.02618
Mg	24	3	He	281668.428	341.0914	13356348.55	0.0012	0.02618
Mg	24	3	He	273939.547	331.7327	13033084.81	0.0012	0.02618
Al	27	3	He	18.038	0.0121	470.06	0.0004	0.005329
Al	27	3	He	12.28	0.01	390.02	0.0004	0.005329
Al	27	3	He	8.818	0.0087	340.02	0.0004	0.005329
K	39	3	He	19359.368	19.7536	765390.38	0.001	0.5307
K	39	3	He	19126.826	19.5227	764463.13	0.001	0.5307
K	39	3	He	18754.076	19.1526	752464.19	0.001	0.5307
Ca	44	3	He	377028.374	19.851	769165.75	0.0001	0.004441
Ca	44	3	He	372888.317	19.6331	768786.50	0.0001	0.004441
Ca	44	3	He	367679.082	19.3589	760570.13	0.0001	0.004441
Ti	47	3	He	0.274	0.0006	22.00	0.0004	0.0004559
Ti	47	3	He	-0.49	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	0.13	0.0005	20.00	0.0004	0.0004559
V	51	3	He	0.359	0.0324	1256.06	0.0176	0.02609
V	51	3	He	0.23	0.0301	1180.05	0.0176	0.02609
V	51	3	He	-0.06	0.025	984.04	0.0176	0.02609
Cr	52	3	He	-0.227	0.0457	1770.16	0.0217	0.05061
Cr	52	3	He	-0.296	0.0442	1730.15	0.0217	0.05061
Cr	52	3	He	-0.443	0.041	1610.12	0.0217	0.05061
Mn	55	3	He	23308.501	212.4571	8232055.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	22985.341	209.5117	8203991.00	0.0091	0.01071
Mn	55	3	He	23041.202	210.0208	8251279.00	0.0091	0.01071
Fe	57	3	He	32585.861	13.0212	504531.16	0.0004	0.008452
Fe	57	3	He	32128.942	12.8387	502735.11	0.0004	0.008452
Fe	57	3	He	31980.28	12.7794	502074.72	0.0004	0.008452
Co	59	3	He	79.704	3.2969	127743.48	0.0413	0.006013
Co	59	3	He	79.547	3.2904	128844.51	0.0413	0.006013
Co	59	3	He	77.679	3.2133	126241.99	0.0413	0.006013
Ni	60	3	He	91.993	1.0922	42318.67	0.0117	0.01172
Ni	60	3	He	90.368	1.0731	42020.01	0.0117	0.01172
Ni	60	3	He	89.604	1.0641	41807.44	0.0117	0.01172
Cu	63	3	He	0.072	0.0158	1030.04	0.0196	0.01443
Cu	63	3	He	0.079	0.016	1020.04	0.0196	0.01443
Cu	63	3	He	0.078	0.016	1020.04	0.0196	0.01443
Zn	66	3	He	23.44	0.0561	3646.43	0.0023	0.002807
Zn	66	3	He	25.121	0.0599	3824.47	0.0023	0.002807
Zn	66	3	He	24.818	0.0592	3786.46	0.0023	0.002807
As	75	3	He	5.96	0.0122	796.02	0.0018	0.001271
As	75	3	He	5.844	0.012	768.02	0.0018	0.001271
As	75	3	He	5.698	0.0118	752.02	0.0018	0.001271
Sr	88	3	He	1693.535	13.9156	692510.93	0.0082	0.00114
Sr	88	3	He	1658.682	13.6292	693291.32	0.0082	0.00114
Sr	88	3	He	1658.195	13.6252	686671.40	0.0082	0.00114
Mo	98	3	He	0.743	0.0147	730.05	0.0177	0.001504
Mo	98	3	He	0.526	0.0108	550.03	0.0177	0.001504
Mo	98	3	He	0.643	0.0129	650.04	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.017	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.017	0.0001	6.00	0.0041	4.798E-05
Sn	120	3	He	0.278	0.0145	720.04	0.0126	0.01097
Sn	120	3	He	0.253	0.0142	720.05	0.0126	0.01097
Sn	120	3	He	0.311	0.0149	750.05	0.0126	0.01097
Sb	121	3	He	0.009	0.0005	23.33	0.012	0.0003595
Sb	121	3	He	0.008	0.0005	23.33	0.012	0.0003595
Sb	121	3	He	0.014	0.0005	26.67	0.012	0.0003595
Ba	137	3	He	27.416	0.1073	5341.17	0.0039	0.0003633
Ba	137	3	He	24.702	0.0967	4920.93	0.0039	0.0003633
Ba	137	3	He	26.511	0.1038	5231.05	0.0039	0.0003633
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Pb	208	3	He	0	0.0015	180.01	0.0252	0.001497
Pb	208	3	He	0.002	0.0016	140.01	0.0252	0.001497
Pb	208	3	He	0.003	0.0016	150.01	0.0252	0.001497
U	238	3	He	6.596	0.162	30453.24	0.0245	0.0001141
U	238	3	He	6.396	0.1571	30383.08	0.0245	0.0001141
U	238	3	He	6.593	0.162	30924.13	0.0245	0.0001141
Sc	45	1	No Gas			1638477.01		
Sc	45	1	No Gas			1617529.51		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1603509.51		
Ge	72	1	No Gas			818514.68		
Ge	72	1	No Gas			817099.52		
Ge	72	1	No Gas			805354.05		
Sc	45	2	H2			129680.07		
Sc	45	2	H2			130776.81		
Sc	45	2	H2			132530.75		
Ge	72	2	H2			94959.55		
Ge	72	2	H2			98088.48		
Ge	72	2	H2			97193.41		
In	115	2	H2			233841.58		
In	115	2	H2			232989.74		
In	115	2	H2			236711.36		
Sc	45	3	He			38746.90		
Sc	45	3	He			39157.68		
Sc	45	3	He			39287.91		
Ge	72	3	He			65022.01		
Ge	72	3	He			63846.72		
Ge	72	3	He			63947.11		
In	115	3	He			49770.20		
In	115	3	He			50873.04		
In	115	3	He			50402.34		
Tb	159	3	He			187936.74		
Tb	159	3	He			193363.67		
Tb	159	3	He			190943.16		
Bi	209	3	He			136544.93		
Bi	209	3	He			135705.83		
Bi	209	3	He			136574.98		

Quantitation Report

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Acq Time	7/10/2025 8:18:49 PM
Sample Name	410-228777-L-5-A
Sample Type	Sample
Comment	MS H10
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

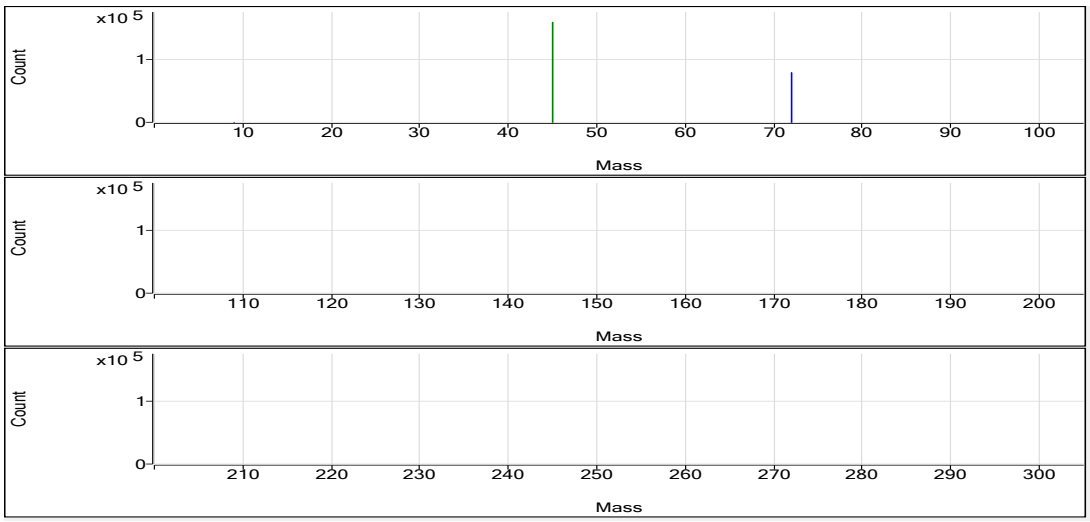
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.014	ppb	N/A	34.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	4.149	ppb	8.4	156.00	0.0017	Pulse	1.5000	3
Na	23	45	He	542273.763	ppb	1.6	51322767.57	1,352.4890	Analog	0.1000	3
Mg	24	45	He	113153.106	ppb	2.1	5199988.67	137.0404	Analog	0.1000	3
Al	27	45	He	-2.283	ppb	N/A	170.01	0.0045	Pulse	0.1000	3
K	39	45	He	3497.594	ppb	4.3	151882.84	4.0036	Pulse	0.5000	3
Ca	44	45	He	109486.561	ppb	1.8	218862.95	5.7678	Pulse	0.5000	3
Ti	47	45	He	-0.814	ppb	N/A	4.67	0.0001	Pulse	0.5000	3
V	51	45	He	0.087	ppb	14.3	1048.71	0.0276	Pulse	0.5000	3
Cr	52	45	He	-0.455	ppb	N/A	1546.79	0.0407	Pulse	0.1000	3
Mn	55	45	He	29.253	ppb	13.2	10508.79	0.2773	Pulse	0.5000	3
Fe	57	45	He	34.459	ppb	46.1	840.05	0.0222	Pulse	0.1000	3
Co	59	45	He	0.039	ppb	94.2	289.34	0.0076	Pulse	0.5000	3
Ni	60	45	He	0.364	ppb	16.8	607.35	0.0160	Pulse	0.5000	3
Cu	63	72	He	0.451	ppb	3.3	1506.08	0.0233	Pulse	0.5000	3
Zn	66	72	He	6.460	ppb	2.7	1132.05	0.0175	Pulse	0.5000	3
As	75	72	He	2.409	ppb	1.7	369.34	0.0057	Pulse	0.5000	3
Sr	88	115	He	2384.282	ppb	2.0	1013946.42	19.5909	Pulse	0.1000	3
Mo	98	115	He	1.704	ppb	2.8	1640.13	0.0317	Pulse	0.1000	3
Ag	107	115	He	-0.029	ppb	N/A	13.33	0.0003	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	482.5	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.376	ppb	63.0	813.38	0.0157	Pulse	0.1000	3
Sb	121	115	He	0.100	ppb	19.9	81.11	0.0016	Pulse	0.3000	3
Ba	137	115	He	39.363	ppb	5.6	7965.66	0.1539	Pulse	0.1000	3
Tl	205	159	He	-0.050	ppb	N/A	73.33	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.003	ppb	N/A	270.01	0.0014	Pulse	0.1000	3
U	238	159	He	10.712	ppb	0.9	49968.15	0.2631	Pulse	0.1000	3

ISTD Table:

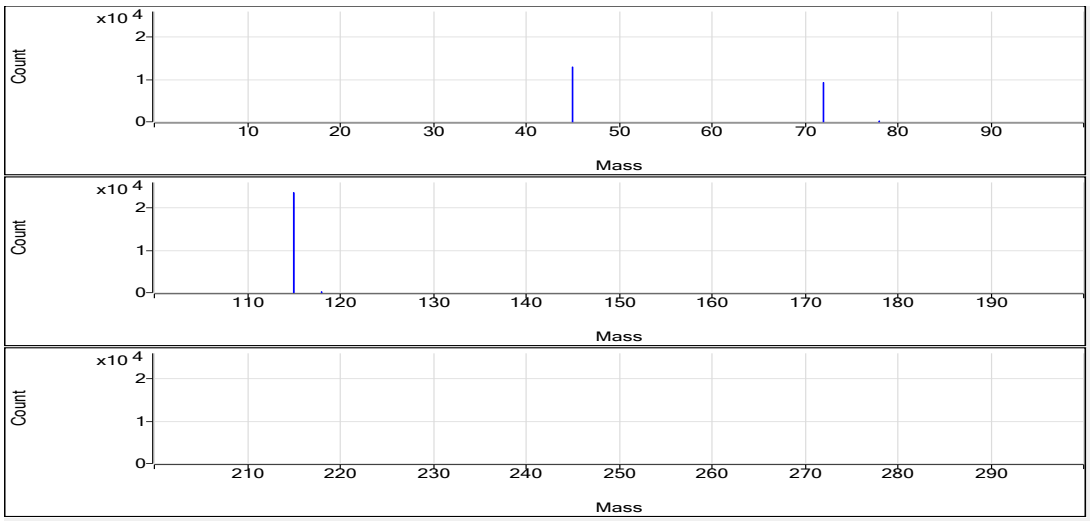
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1589357.32	1.2	93.0	Analog	0.1000	3
No Gas	Ge	72	788655.61	0.9	91.3	Pulse	0.1000	3
H2	Sc	45	130242.91	1.5	97.5	Pulse	0.1000	3
H2	Ge	72	93340.49	1.5	94.2	Pulse	0.1000	3
H2	In	115	237459.51	1.0	92.5	Pulse	0.1000	3
He	Sc	45	37954.64	2.0	96.2	Pulse	0.1000	3
He	Ge	72	64734.44	1.7	95.0	Pulse	0.1000	3
He	In	115	51767.75	1.8	93.4	Pulse	0.1000	3
He	Tb	159	189954.02	1.9	92.8	Pulse	0.1000	3
He	Bi	209	136090.79	0.7	90.0	Pulse	0.1000	3

No Gas

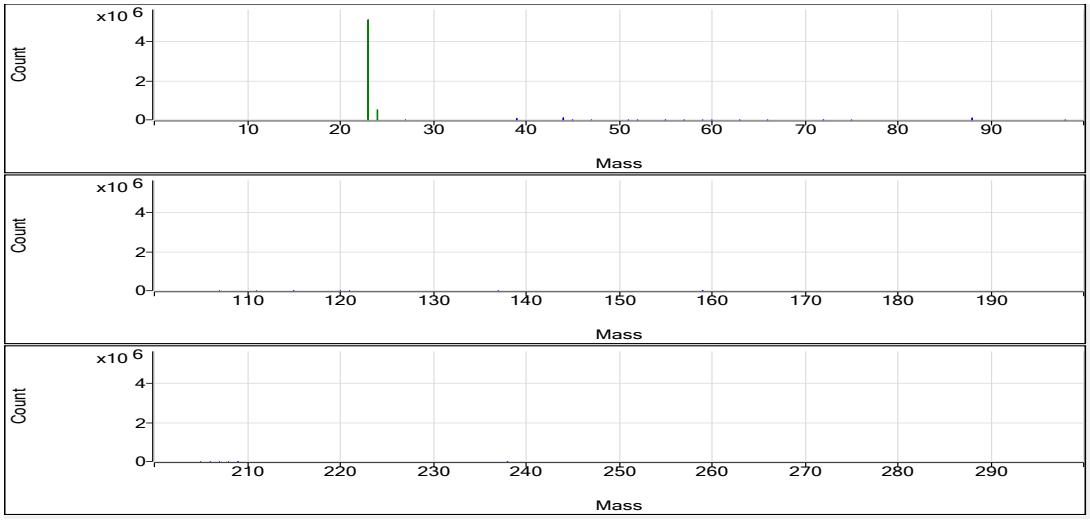


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.013	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.021	0	30.00	0.0003	2.616E-05
Se	78	2	H2	3.805	0.0015	144.00	0.0004	6.3E-05
Se	78	2	H2	4.143	0.0017	158.00	0.0004	6.3E-05
Se	78	2	H2	4.5	0.0018	166.00	0.0004	6.3E-05
Na	23	3	He	550964.114	1374.1516	51108794.24	0.0025	0.7502
Na	23	3	He	541831.789	1351.3873	51345459.23	0.0025	0.7502
Na	23	3	He	534025.386	1331.9281	51514049.23	0.0025	0.7502
Mg	24	3	He	115074	139.3664	5183451.80	0.0012	0.02618
Mg	24	3	He	113812.392	137.8388	5237132.42	0.0012	0.02618
Mg	24	3	He	110572.927	133.9162	5179381.80	0.0012	0.02618
Al	27	3	He	-4.151	0.0038	140.00	0.0004	0.005329
Al	27	3	He	-2.965	0.0042	160.01	0.0004	0.005329
Al	27	3	He	0.267	0.0054	210.01	0.0004	0.005329
K	39	3	He	3637.458	4.1425	154071.34	0.001	0.5307
K	39	3	He	3514.864	4.0208	152767.06	0.001	0.5307
K	39	3	He	3340.46	3.8476	148810.13	0.001	0.5307
Ca	44	3	He	111488.286	5.8731	218439.16	0.0001	0.004441
Ca	44	3	He	109331.834	5.7596	218834.41	0.0001	0.004441
Ca	44	3	He	107639.563	5.6705	219315.27	0.0001	0.004441
Ti	47	3	He	-0.72	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.986	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.735	0.0002	6.00	0.0004	0.0004559
V	51	3	He	0.088	0.0276	1028.04	0.0176	0.02609
V	51	3	He	0.1	0.0278	1058.04	0.0176	0.02609
V	51	3	He	0.075	0.0274	1060.04	0.0176	0.02609
Cr	52	3	He	-0.671	0.036	1340.10	0.0217	0.05061
Cr	52	3	He	-0.233	0.0455	1730.16	0.0217	0.05061
Cr	52	3	He	-0.461	0.0406	1570.12	0.0217	0.05061
Mn	55	3	He	33.381	0.315	11714.26	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	28.629	0.2717	10321.31	0.0091	0.01071
Mn	55	3	He	25.748	0.2454	9490.80	0.0091	0.01071
Fe	57	3	He	48.186	0.0277	1030.06	0.0004	0.008452
Fe	57	3	He	38.155	0.0237	900.06	0.0004	0.008452
Fe	57	3	He	17.036	0.0153	590.03	0.0004	0.008452
Co	59	3	He	0.082	0.0094	350.01	0.0413	0.006013
Co	59	3	He	0.018	0.0067	256.00	0.0413	0.006013
Co	59	3	He	0.018	0.0068	262.00	0.0413	0.006013
Ni	60	3	He	0.294	0.0152	564.01	0.0117	0.01172
Ni	60	3	He	0.396	0.0164	622.02	0.0117	0.01172
Ni	60	3	He	0.403	0.0164	636.02	0.0117	0.01172
Cu	63	3	He	0.468	0.0236	1540.08	0.0196	0.01443
Cu	63	3	He	0.446	0.0232	1470.08	0.0196	0.01443
Cu	63	3	He	0.44	0.023	1508.08	0.0196	0.01443
Zn	66	3	He	6.611	0.0178	1164.05	0.0023	0.002807
Zn	66	3	He	6.502	0.0176	1116.05	0.0023	0.002807
Zn	66	3	He	6.266	0.017	1116.04	0.0023	0.002807
As	75	3	He	2.456	0.0058	378.01	0.0018	0.001271
As	75	3	He	2.374	0.0056	358.01	0.0018	0.001271
As	75	3	He	2.397	0.0057	372.01	0.0018	0.001271
Sr	88	3	He	2377.54	19.5355	1011155.30	0.0082	0.00114
Sr	88	3	He	2341.478	19.2392	1013605.61	0.0082	0.00114
Sr	88	3	He	2433.829	19.998	1017078.34	0.0082	0.00114
Mo	98	3	He	1.65	0.0307	1590.12	0.0177	0.001504
Mo	98	3	He	1.726	0.0321	1690.14	0.0177	0.001504
Mo	98	3	He	1.736	0.0322	1640.14	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.618	0.0187	970.06	0.0126	0.01097
Sn	120	3	He	0.365	0.0156	820.05	0.0126	0.01097
Sn	120	3	He	0.144	0.0128	650.04	0.0126	0.01097
Sb	121	3	He	0.093	0.0015	76.67	0.012	0.0003595
Sb	121	3	He	0.122	0.0018	96.67	0.012	0.0003595
Sb	121	3	He	0.084	0.0014	70.00	0.012	0.0003595
Ba	137	3	He	37.452	0.1465	7582.14	0.0039	0.0003633
Ba	137	3	He	38.838	0.1519	8002.34	0.0039	0.0003633
Ba	137	3	He	41.798	0.1634	8312.49	0.0039	0.0003633
Tl	205	3	He	-0.049	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.059	0.0002	40.00	0.0189	0.001334
Tl	205	3	He	-0.042	0.0005	100.00	0.0189	0.001334
Pb	208	3	He	-0.008	0.0013	120.01	0.0252	0.001497
Pb	208	3	He	0.004	0.0016	160.01	0.0252	0.001497
Pb	208	3	He	-0.004	0.0014	130.01	0.0252	0.001497
U	238	3	He	10.676	0.2622	50840.98	0.0245	0.0001141
U	238	3	He	10.639	0.2613	49336.19	0.0245	0.0001141
U	238	3	He	10.821	0.2657	49727.28	0.0245	0.0001141
Sc	45	1	No Gas			1574227.79		
Sc	45	1	No Gas			1610723.26		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1583120.91		
Ge	72	1	No Gas			782006.32		
Ge	72	1	No Gas			796410.69		
Ge	72	1	No Gas			787549.83		
Sc	45	2	H2			131824.71		
Sc	45	2	H2			130807.68		
Sc	45	2	H2			128096.33		
Ge	72	2	H2			93591.26		
Ge	72	2	H2			94628.28		
Ge	72	2	H2			91801.93		
In	115	2	H2			240258.45		
In	115	2	H2			235640.23		
In	115	2	H2			236479.86		
Sc	45	3	He			37192.98		
Sc	45	3	He			37994.63		
Sc	45	3	He			38676.30		
Ge	72	3	He			65273.20		
Ge	72	3	He			63466.35		
Ge	72	3	He			65463.76		
In	115	3	He			51766.66		
In	115	3	He			52690.09		
In	115	3	He			50863.57		
Tb	159	3	He			193909.04		
Tb	159	3	He			188827.09		
Tb	159	3	He			187125.93		
Bi	209	3	He			136887.76		
Bi	209	3	He			135019.49		
Bi	209	3	He			136365.11		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

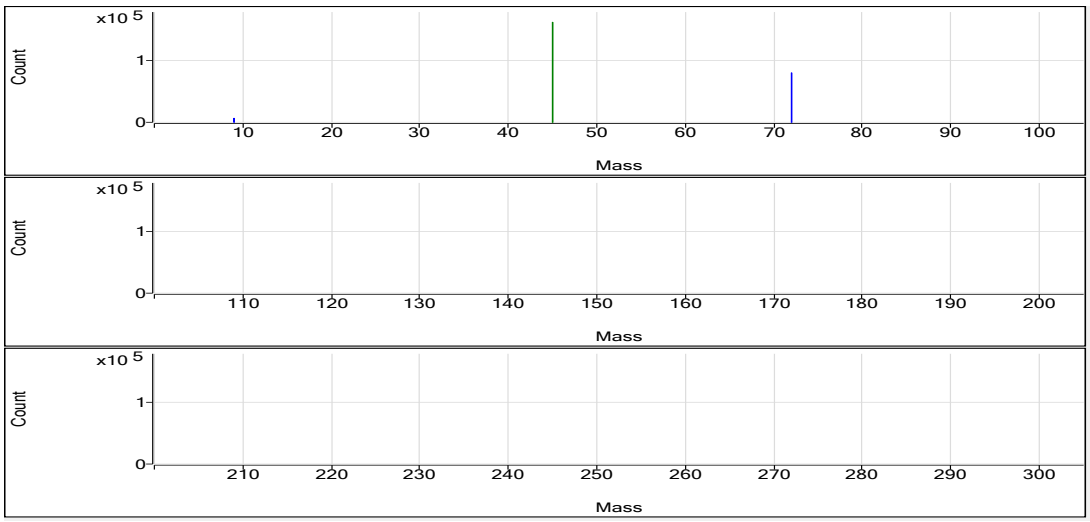
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.662	ppb	5.2	13556.81	0.0083	Pulse	0.5000	3
Se	78	72	H2	25.007	ppb	3.3	935.36	0.0098	Pulse	1.5000	3
Na	23	45	He	2612.437	ppb	1.2	283267.92	7.2623	Pulse	0.1000	3
Mg	24	45	He	2586.887	ppb	2.8	123193.00	3.1586	Pulse	0.1000	3
Al	27	45	He	2590.691	ppb	2.8	38311.77	0.9823	Pulse	0.1000	3
K	39	45	He	2573.457	ppb	1.5	120380.12	3.0860	Pulse	0.5000	3
Ca	44	45	He	2530.859	ppb	2.1	5369.58	0.1377	Pulse	0.5000	3
Ti	47	45	He	2560.424	ppb	1.0	40861.85	1.0476	Pulse	0.5000	3
V	51	45	He	255.822	ppb	0.7	176526.20	4.5256	Pulse	0.5000	3
Cr	52	45	He	255.245	ppb	0.6	218267.30	5.5957	Pulse	0.1000	3
Mn	55	45	He	256.009	ppb	0.8	91434.17	2.3441	Pulse	0.5000	3
Fe	57	45	He	2512.353	ppb	0.7	39465.35	1.0117	Pulse	0.1000	3
Co	59	45	He	254.550	ppb	0.9	410187.44	10.5160	Pulse	0.5000	3
Ni	60	45	He	254.276	ppb	0.7	116949.20	2.9982	Pulse	0.5000	3
Cu	63	72	He	251.493	ppb	0.7	324691.90	4.9342	Pulse	0.5000	3
Zn	66	72	He	250.906	ppb	0.8	37709.69	0.5731	Pulse	0.5000	3
As	75	72	He	252.232	ppb	1.6	30637.08	0.4656	Pulse	0.5000	3
Sr	88	115	He	26.232	ppb	1.3	11294.36	0.2167	Pulse	0.1000	3
Mo	98	115	He	24.840	ppb	1.0	23014.10	0.4415	Pulse	0.1000	3
Ag	107	115	He	25.265	ppb	1.1	48502.55	0.9304	Pulse	0.1000	3
Cd	111	115	He	25.735	ppb	2.3	5505.67	0.1056	Pulse	0.5000	3
Sn	120	115	He	25.465	ppb	1.7	17283.35	0.3315	Pulse	0.1000	3
Sb	121	115	He	25.491	ppb	1.7	16025.02	0.3074	Pulse	0.3000	3
Ba	137	115	He	255.487	ppb	2.5	51975.30	0.9972	Pulse	0.1000	3
Tl	205	159	He	25.293	ppb	2.4	92129.43	0.4804	Pulse	0.1000	3
Pb	208	159	He	25.449	ppb	0.9	123077.50	0.6417	Pulse	0.1000	3
U	238	159	He	25.794	ppb	0.9	121460.17	0.6333	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1628200.03	0.2	95.3	Analog	0.1000	3
No Gas	Ge	72	805607.20	0.8	93.3	Pulse	0.1000	3
H2	Sc	45	131980.14	0.9	98.8	Pulse	0.1000	3
H2	Ge	72	95825.07	1.1	96.7	Pulse	0.1000	3
H2	In	115	241762.04	0.3	94.2	Pulse	0.1000	3
He	Sc	45	39007.08	0.6	98.8	Pulse	0.1000	3
He	Ge	72	65805.44	0.2	96.6	Pulse	0.1000	3
He	In	115	52134.10	1.3	94.1	Pulse	0.1000	3
He	Tb	159	191789.73	0.2	93.7	Pulse	0.1000	3
He	Bi	209	140673.37	1.1	93.0	Pulse	0.1000	3

No Gas



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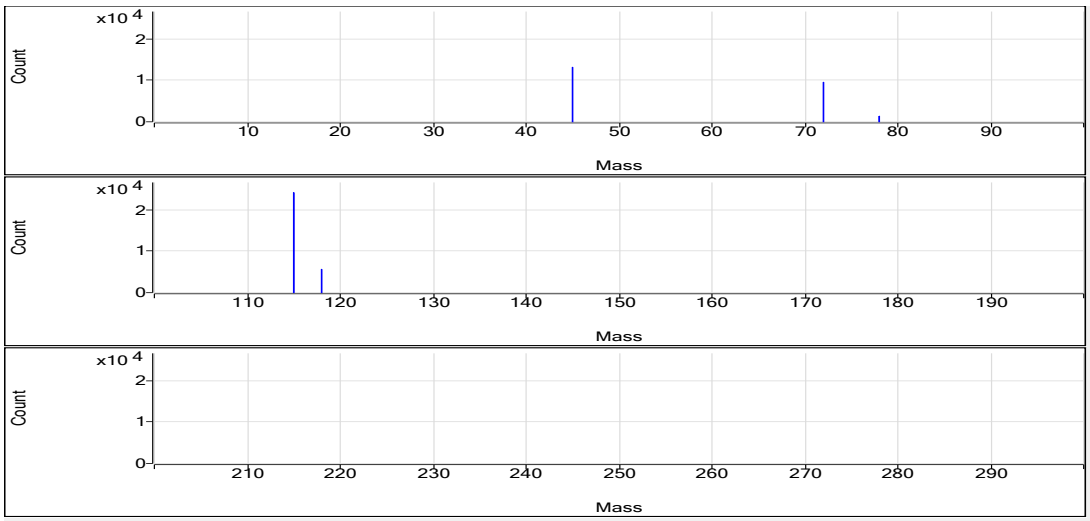
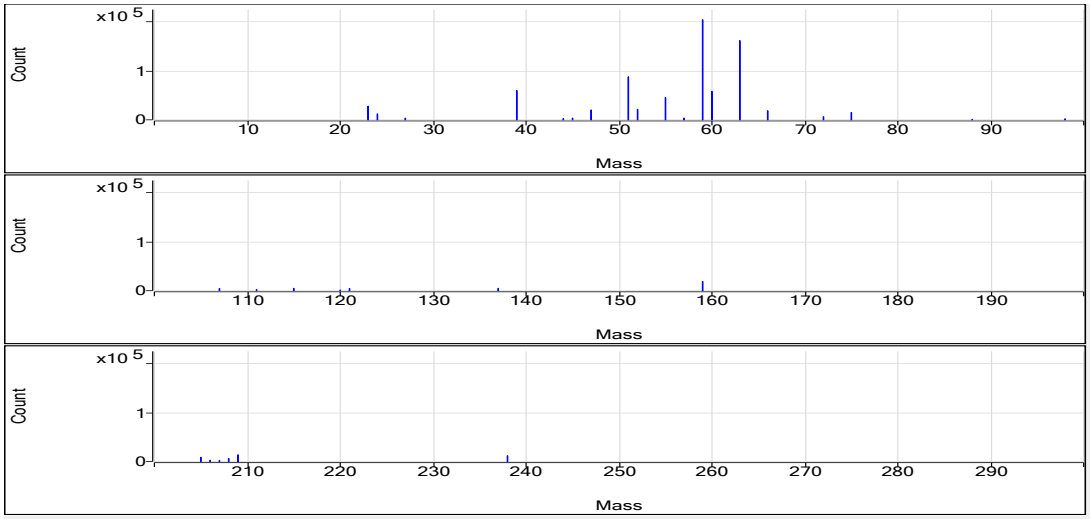


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.473	0.0079	12926.97	0.0003	2.616E-05
Be	9	1	No Gas	24.474	0.0083	13419.37	0.0003	2.616E-05
Be	9	1	No Gas	26.039	0.0088	14324.09	0.0003	2.616E-05
Se	78	2	H2	25.804	0.0101	958.70	0.0004	6.3E-05
Se	78	2	H2	24.167	0.0094	898.03	0.0004	6.3E-05
Se	78	2	H2	25.051	0.0098	949.36	0.0004	6.3E-05
Na	23	3	He	2581.739	7.1857	282240.02	0.0025	0.7502
Na	23	3	He	2644.804	7.343	285026.85	0.0025	0.7502
Na	23	3	He	2610.767	7.2581	282536.89	0.0025	0.7502
Mg	24	3	He	2501.88	3.0556	120018.93	0.0012	0.02618
Mg	24	3	He	2628.974	3.2095	124582.80	0.0012	0.02618
Mg	24	3	He	2629.806	3.2105	124977.26	0.0012	0.02618
Al	27	3	He	2507.737	0.951	37353.15	0.0004	0.005329
Al	27	3	He	2628.061	0.9964	38675.65	0.0004	0.005329
Al	27	3	He	2636.275	0.9995	38906.52	0.0004	0.005329
K	39	3	He	2614.906	3.1271	122827.02	0.001	0.5307
K	39	3	He	2568.29	3.0809	119587.51	0.001	0.5307
K	39	3	He	2537.174	3.05	118725.84	0.001	0.5307
Ca	44	3	He	2502.693	0.1362	5348.90	0.0001	0.004441
Ca	44	3	He	2593.175	0.1409	5470.95	0.0001	0.004441
Ca	44	3	He	2496.708	0.1359	5288.88	0.0001	0.004441
Ti	47	3	He	2529.973	1.0351	40657.98	0.0004	0.0004559
Ti	47	3	He	2576.986	1.0544	40926.72	0.0004	0.0004559
Ti	47	3	He	2574.312	1.0533	41000.85	0.0004	0.0004559
V	51	3	He	253.876	4.4914	176411.48	0.0176	0.02609
V	51	3	He	256.343	4.5348	176023.67	0.0176	0.02609
V	51	3	He	257.246	4.5506	177143.44	0.0176	0.02609
Cr	52	3	He	253.56	5.5591	218349.96	0.0217	0.05061
Cr	52	3	He	256.353	5.6198	218140.33	0.0217	0.05061
Cr	52	3	He	255.82	5.6082	218311.60	0.0217	0.05061
Mn	55	3	He	254.047	2.3262	91369.07	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	258.127	2.3634	91739.34	0.0091	0.01071
Mn	55	3	He	255.853	2.3427	91194.09	0.0091	0.01071
Fe	57	3	He	2529.655	1.0186	40009.81	0.0004	0.008452
Fe	57	3	He	2514.052	1.0124	39297.99	0.0004	0.008452
Fe	57	3	He	2493.352	1.0041	39088.26	0.0004	0.008452
Co	59	3	He	252.164	10.4175	409176.59	0.0413	0.006013
Co	59	3	He	255.095	10.5385	409067.38	0.0413	0.006013
Co	59	3	He	256.392	10.5921	412318.34	0.0413	0.006013
Ni	60	3	He	252.394	2.9761	116895.27	0.0117	0.01172
Ni	60	3	He	254.585	3.0019	116521.10	0.0117	0.01172
Ni	60	3	He	255.849	3.0167	117431.23	0.0117	0.01172
Cu	63	3	He	251.872	4.9416	324485.75	0.0196	0.01443
Cu	63	3	He	249.675	4.8986	323092.78	0.0196	0.01443
Cu	63	3	He	252.931	4.9623	326497.16	0.0196	0.01443
Zn	66	3	He	252.978	0.5778	37938.22	0.0023	0.002807
Zn	66	3	He	250.743	0.5727	37771.82	0.0023	0.002807
Zn	66	3	He	248.998	0.5687	37419.04	0.0023	0.002807
As	75	3	He	249.163	0.4599	30200.29	0.0018	0.001271
As	75	3	He	250.846	0.463	30538.87	0.0018	0.001271
As	75	3	He	256.688	0.4738	31172.07	0.0018	0.001271
Sr	88	3	He	26.617	0.2198	11294.45	0.0082	0.00114
Sr	88	3	He	25.966	0.2145	11304.33	0.0082	0.00114
Sr	88	3	He	26.112	0.2157	11284.29	0.0082	0.00114
Mo	98	3	He	24.978	0.4439	22807.17	0.0177	0.001504
Mo	98	3	He	24.54	0.4362	22987.52	0.0177	0.001504
Mo	98	3	He	25.002	0.4443	23247.61	0.0177	0.001504
Ag	107	3	He	25.42	0.9361	48094.50	0.0368	0.001325
Ag	107	3	He	24.945	0.9186	48415.64	0.0368	0.001325
Ag	107	3	He	25.431	0.9365	48997.51	0.0368	0.001325
Cd	111	3	He	26.088	0.1071	5501.01	0.0041	4.798E-05
Cd	111	3	He	25.06	0.1029	5420.97	0.0041	4.798E-05
Cd	111	3	He	26.057	0.1069	5595.04	0.0041	4.798E-05
Sn	120	3	He	25.339	0.3299	16949.67	0.0126	0.01097
Sn	120	3	He	25.946	0.3375	17790.50	0.0126	0.01097
Sn	120	3	He	25.11	0.327	17109.87	0.0126	0.01097
Sb	121	3	He	25.788	0.311	15978.27	0.012	0.0003595
Sb	121	3	He	25.001	0.3015	15891.54	0.012	0.0003595
Sb	121	3	He	25.683	0.3097	16205.25	0.012	0.0003595
Ba	137	3	He	262.265	1.0236	52590.82	0.0039	0.0003633
Ba	137	3	He	249.653	0.9744	51356.53	0.0039	0.0003633
Ba	137	3	He	254.543	0.9935	51978.54	0.0039	0.0003633
Tl	205	3	He	25.85	0.4909	94192.23	0.0189	0.001334
Tl	205	3	He	24.649	0.4682	89985.98	0.0189	0.001334
Tl	205	3	He	25.38	0.482	92210.07	0.0189	0.001334
Pb	208	3	He	25.695	0.6479	66933.63	0.0252	0.001497
Pb	208	3	He	25.386	0.6401	66873.01	0.0252	0.001497
Pb	208	3	He	25.266	0.6371	64844.61	0.0252	0.001497
U	238	3	He	25.752	0.6323	121312.93	0.0245	0.0001141
U	238	3	He	25.59	0.6283	120767.37	0.0245	0.0001141
U	238	3	He	26.038	0.6393	122300.22	0.0245	0.0001141
Sc	45	1	No Gas			1630909.98		
Sc	45	1	No Gas			1624035.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629654.51		
Ge	72	1	No Gas			812712.80		
Ge	72	1	No Gas			801483.50		
Ge	72	1	No Gas			802625.30		
Sc	45	2	H2			131352.29		
Sc	45	2	H2			133368.16		
Sc	45	2	H2			131219.98		
Ge	72	2	H2			95202.00		
Ge	72	2	H2			95180.98		
Ge	72	2	H2			97092.24		
In	115	2	H2			241029.25		
In	115	2	H2			242670.23		
In	115	2	H2			241586.64		
Sc	45	3	He			39277.76		
Sc	45	3	He			38816.39		
Sc	45	3	He			38927.08		
Ge	72	3	He			65664.37		
Ge	72	3	He			65956.19		
Ge	72	3	He			65795.76		
In	115	3	He			51496.30		
In	115	3	He			52829.92		
In	115	3	He			52439.04		
Tb	159	3	He			191863.53		
Tb	159	3	He			192207.89		
Tb	159	3	He			191297.77		
Bi	209	3	He			141267.45		
Bi	209	3	He			138938.31		
Bi	209	3	He			141814.36		

Quantitation Report

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Sample Type	CCB
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Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

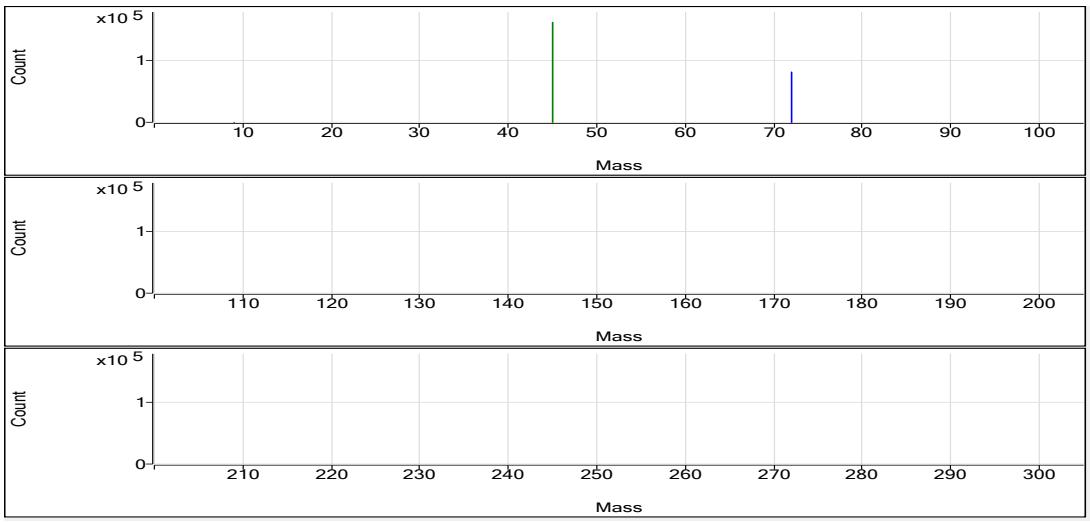
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.014	ppb	N/A	34.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.096	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	-54.900	ppb	N/A	23270.02	0.6133	Pulse	0.1000	3
Mg	24	45	He	1.163	ppb	408.2	1046.73	0.0276	Pulse	0.1000	3
Al	27	45	He	-5.513	ppb	N/A	123.33	0.0033	Pulse	0.1000	3
K	39	45	He	-3.349	ppb	N/A	20002.28	0.5273	Pulse	0.5000	3
Ca	44	45	He	-0.577	ppb	N/A	167.33	0.0044	Pulse	0.5000	3
Ti	47	45	He	-0.599	ppb	N/A	8.00	0.0002	Pulse	0.5000	3
V	51	45	He	0.105	ppb	87.9	1060.04	0.0279	Pulse	0.5000	3
Cr	52	45	He	-0.320	ppb	N/A	1656.81	0.0437	Pulse	0.1000	3
Mn	55	45	He	0.232	ppb	9.1	486.68	0.0128	Pulse	0.5000	3
Fe	57	45	He	-9.064	ppb	N/A	183.34	0.0048	Pulse	0.1000	3
Co	59	45	He	-0.030	ppb	N/A	181.33	0.0048	Pulse	0.5000	3
Ni	60	45	He	-0.055	ppb	N/A	420.01	0.0111	Pulse	0.5000	3
Cu	63	72	He	-0.329	ppb	N/A	517.34	0.0080	Pulse	0.5000	3
Zn	66	72	He	-0.244	ppb	N/A	146.00	0.0023	Pulse	0.5000	3
As	75	72	He	1.253	ppb	31.6	231.33	0.0036	Pulse	0.5000	3
Sr	88	115	He	-0.027	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Mo	98	115	He	-0.015	ppb	N/A	63.33	0.0012	Pulse	0.1000	3
Ag	107	115	He	-0.009	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Cd	111	115	He	-0.008	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.007	ppb	635.3	563.36	0.0111	Pulse	0.1000	3
Sb	121	115	He	0.016	ppb	75.4	27.78	0.0005	Pulse	0.3000	3
Ba	137	115	He	0.110	ppb	140.8	40.00	0.0008	Pulse	0.1000	3
Tl	205	159	He	-0.035	ppb	N/A	126.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.011	ppb	N/A	230.00	0.0012	Pulse	0.1000	3
U	238	159	He	0.005	ppb	61.0	46.67	0.0002	Pulse	0.1000	3

ISTD Table:

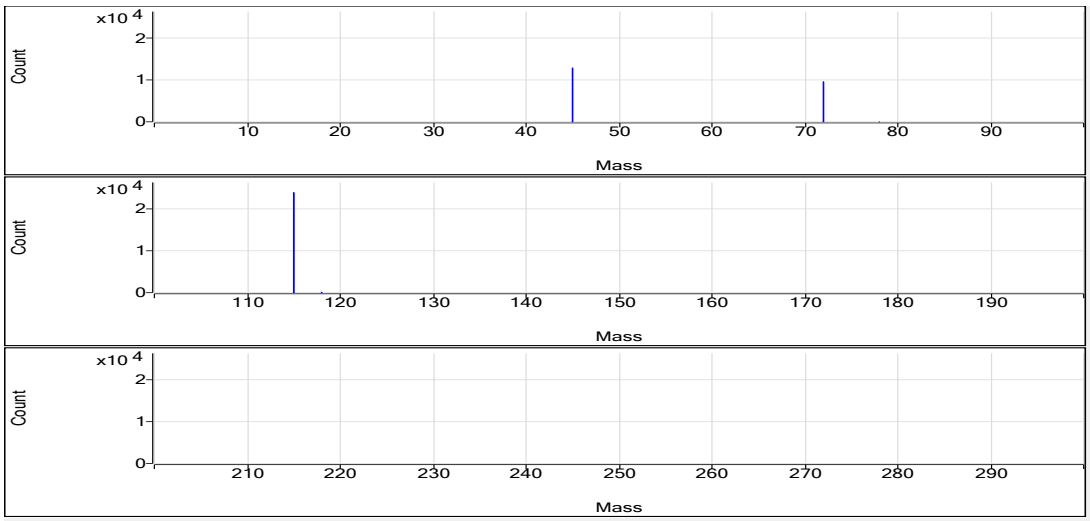
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1613983.88	0.9	94.5	Analog	0.1000	3
No Gas	Ge	72	812351.89	0.2	94.0	Pulse	0.1000	3
H2	Sc	45	128829.48	0.8	96.4	Pulse	0.1000	3
H2	Ge	72	95714.19	0.6	96.6	Pulse	0.1000	3
H2	In	115	239220.16	1.2	93.2	Pulse	0.1000	3
He	Sc	45	37941.17	0.3	96.1	Pulse	0.1000	3
He	Ge	72	64810.89	1.8	95.2	Pulse	0.1000	3
He	In	115	50940.00	1.8	91.9	Pulse	0.1000	3
He	Tb	159	189427.65	0.1	92.5	Pulse	0.1000	3
He	Bi	209	138276.71	0.4	91.4	Pulse	0.1000	3

No Gas

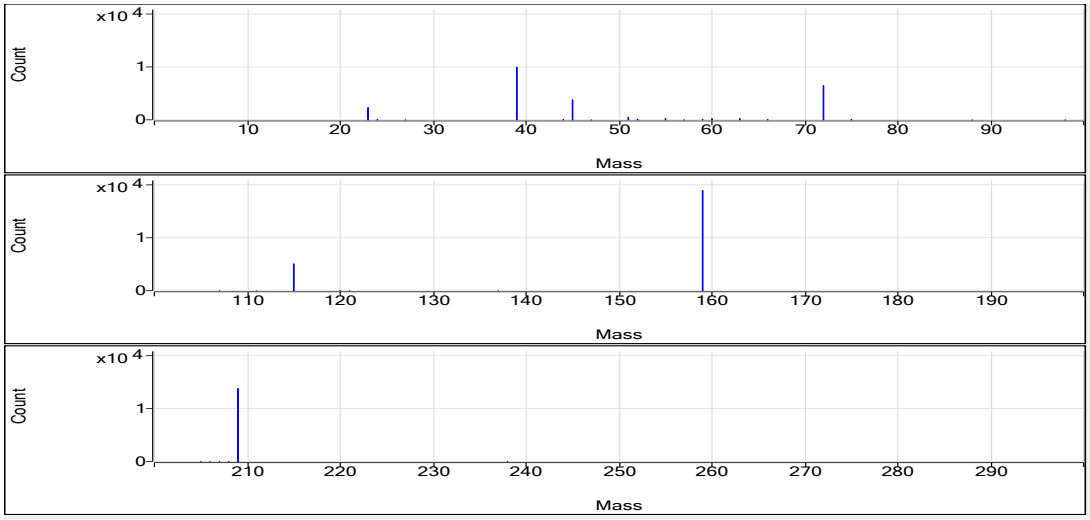


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.011	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.004	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.072	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.144	0	0.67	0.0004	6.3E-05
Se	78	2	H2	-0.073	0	3.33	0.0004	6.3E-05
Na	23	3	He	-53.052	0.6179	23366.89	0.0025	0.7502
Na	23	3	He	-53.098	0.6178	23436.92	0.0025	0.7502
Na	23	3	He	-58.55	0.6042	23006.25	0.0025	0.7502
Mg	24	3	He	4.805	0.032	1210.08	0.0012	0.02618
Mg	24	3	He	-4.205	0.0211	800.04	0.0012	0.02618
Mg	24	3	He	2.889	0.0297	1130.07	0.0012	0.02618
Al	27	3	He	-5.717	0.0032	120.00	0.0004	0.005329
Al	27	3	He	-5.744	0.0032	120.00	0.0004	0.005329
Al	27	3	He	-5.078	0.0034	130.00	0.0004	0.005329
K	39	3	He	76.476	0.6066	22937.98	0.001	0.5307
K	39	3	He	-33.917	0.497	18852.82	0.001	0.5307
K	39	3	He	-52.607	0.4784	18216.05	0.001	0.5307
Ca	44	3	He	2.046	0.0045	172.00	0.0001	0.004441
Ca	44	3	He	-3.236	0.0043	162.00	0.0001	0.004441
Ca	44	3	He	-0.542	0.0044	168.00	0.0001	0.004441
Ti	47	3	He	-0.468	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.599	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.729	0.0002	6.00	0.0004	0.0004559
V	51	3	He	0.011	0.0263	994.04	0.0176	0.02609
V	51	3	He	0.195	0.0295	1120.05	0.0176	0.02609
V	51	3	He	0.108	0.028	1066.04	0.0176	0.02609
Cr	52	3	He	-0.272	0.0447	1690.13	0.0217	0.05061
Cr	52	3	He	-0.534	0.039	1480.12	0.0217	0.05061
Cr	52	3	He	-0.153	0.0473	1800.17	0.0217	0.05061
Mn	55	3	He	0.247	0.013	490.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.242	0.0129	490.01	0.0091	0.01071
Mn	55	3	He	0.208	0.0126	480.01	0.0091	0.01071
Fe	57	3	He	-9.907	0.0045	170.01	0.0004	0.008452
Fe	57	3	He	-6.643	0.0058	220.01	0.0004	0.008452
Fe	57	3	He	-10.642	0.0042	160.01	0.0004	0.008452
Co	59	3	He	-0.041	0.0043	164.00	0.0413	0.006013
Co	59	3	He	-0.017	0.0053	202.00	0.0413	0.006013
Co	59	3	He	-0.032	0.0047	178.00	0.0413	0.006013
Ni	60	3	He	-0.07	0.0109	412.01	0.0117	0.01172
Ni	60	3	He	0.008	0.0118	448.01	0.0117	0.01172
Ni	60	3	He	-0.103	0.0105	400.01	0.0117	0.01172
Cu	63	3	He	-0.281	0.0089	568.01	0.0196	0.01443
Cu	63	3	He	-0.355	0.0075	490.01	0.0196	0.01443
Cu	63	3	He	-0.352	0.0075	494.01	0.0196	0.01443
Zn	66	3	He	-0.196	0.0024	150.00	0.0023	0.002807
Zn	66	3	He	-0.133	0.0025	164.00	0.0023	0.002807
Zn	66	3	He	-0.402	0.0019	124.00	0.0023	0.002807
As	75	3	He	1.706	0.0044	280.00	0.0018	0.001271
As	75	3	He	0.97	0.0031	200.00	0.0018	0.001271
As	75	3	He	1.084	0.0033	214.00	0.0018	0.001271
Sr	88	3	He	0.007	0.0012	60.00	0.0082	0.00114
Sr	88	3	He	-0.068	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.02	0.001	50.00	0.0082	0.00114
Mo	98	3	He	0.006	0.0016	80.00	0.0177	0.001504
Mo	98	3	He	0.013	0.0017	90.00	0.0177	0.001504
Mo	98	3	He	-0.063	0.0004	20.00	0.0177	0.001504
Ag	107	3	He	0.002	0.0014	70.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	-0.012	0.0108	540.03	0.0126	0.01097
Sn	120	3	He	-0.027	0.0106	550.03	0.0126	0.01097
Sn	120	3	He	0.062	0.0117	600.03	0.0126	0.01097
Sb	121	3	He	0.02	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.024	0.0007	33.33	0.012	0.0003595
Ba	137	3	He	0.266	0.0014	70.00	0.0039	0.0003633
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.107	0.0008	40.00	0.0039	0.0003633
Tl	205	3	He	-0.04	0.0006	110.01	0.0189	0.001334
Tl	205	3	He	-0.056	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.009	0.0012	220.01	0.0189	0.001334
Pb	208	3	He	-0.005	0.0014	120.00	0.0252	0.001497
Pb	208	3	He	-0.009	0.0013	100.00	0.0252	0.001497
Pb	208	3	He	-0.02	0.001	100.00	0.0252	0.001497
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
Sc	45	1	No Gas			1626262.63		
Sc	45	1	No Gas			1598195.44		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1617493.57		
Ge	72	1	No Gas			813909.21		
Ge	72	1	No Gas			810973.27		
Ge	72	1	No Gas			812173.19		
Sc	45	2	H2			127947.57		
Sc	45	2	H2			130011.18		
Sc	45	2	H2			128529.69		
Ge	72	2	H2			95161.30		
Ge	72	2	H2			96247.08		
Ge	72	2	H2			95734.18		
In	115	2	H2			236225.23		
In	115	2	H2			239251.75		
In	115	2	H2			242183.49		
Sc	45	3	He			37814.07		
Sc	45	3	He			37934.46		
Sc	45	3	He			38074.98		
Ge	72	3	He			63485.48		
Ge	72	3	He			65443.29		
Ge	72	3	He			65503.89		
In	115	3	He			49950.96		
In	115	3	He			51766.63		
In	115	3	He			51114.24		
Tb	159	3	He			189354.53		
Tb	159	3	He			189342.28		
Tb	159	3	He			189586.15		
Bi	209	3	He			138905.66		
Bi	209	3	He			137745.54		
Bi	209	3	He			138178.94		

Quantitation Report

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Acq Time	7/10/2025 8:31:33 PM
Sample Name	MB 410-669193/1-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

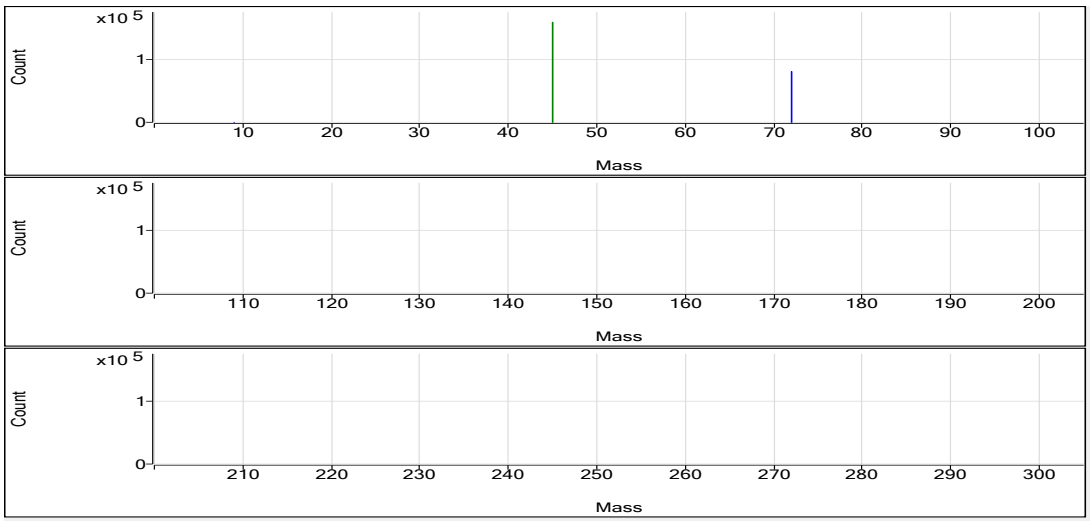
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.017	ppb	N/A	32.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.127	ppb	N/A	1.33	0.0000	Pulse	1.5000	3
Na	23	45	He	-69.271	ppb	N/A	22672.65	0.5775	Pulse	0.1000	3
Mg	24	45	He	-1.083	ppb	N/A	976.73	0.0249	Pulse	0.1000	3
Al	27	45	He	-3.983	ppb	N/A	150.01	0.0038	Pulse	0.1000	3
K	39	45	He	-13.733	ppb	N/A	20284.67	0.5170	Pulse	0.5000	3
Ca	44	45	He	7.023	ppb	270.9	188.67	0.0048	Pulse	0.5000	3
Ti	47	45	He	-0.740	ppb	N/A	6.00	0.0002	Pulse	0.5000	3
V	51	45	He	-0.187	ppb	N/A	896.03	0.0228	Pulse	0.5000	3
Cr	52	45	He	-0.762	ppb	N/A	1336.77	0.0340	Pulse	0.1000	3
Mn	55	45	He	-0.029	ppb	N/A	410.01	0.0104	Pulse	0.5000	3
Fe	57	45	He	-8.845	ppb	N/A	193.34	0.0049	Pulse	0.1000	3
Co	59	45	He	-0.067	ppb	N/A	128.00	0.0033	Pulse	0.5000	3
Ni	60	45	He	-0.274	ppb	N/A	333.34	0.0085	Pulse	0.5000	3
Cu	63	72	He	-0.351	ppb	N/A	486.68	0.0076	Pulse	0.5000	3
Zn	66	72	He	0.722	ppb	13.9	286.00	0.0044	Pulse	0.5000	3
As	75	72	He	1.426	ppb	7.9	250.67	0.0039	Pulse	0.5000	3
Sr	88	115	He	-0.038	ppb	N/A	43.33	0.0008	Pulse	0.1000	3
Mo	98	115	He	-0.060	ppb	N/A	23.33	0.0004	Pulse	0.1000	3
Ag	107	115	He	-0.026	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	-0.012	ppb	0.0	0.00	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.233	ppb	13.4	726.71	0.0139	Pulse	0.1000	3
Sb	121	115	He	0.007	ppb	70.7	23.33	0.0004	Pulse	0.3000	3
Ba	137	115	He	-0.044	ppb	N/A	10.00	0.0002	Pulse	0.1000	3
Tl	205	159	He	-0.051	ppb	N/A	70.00	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.020	ppb	N/A	186.67	0.0010	Pulse	0.1000	3
U	238	159	He	0.000	ppb	N/A	20.00	0.0001	Pulse	0.1000	3

ISTD Table:

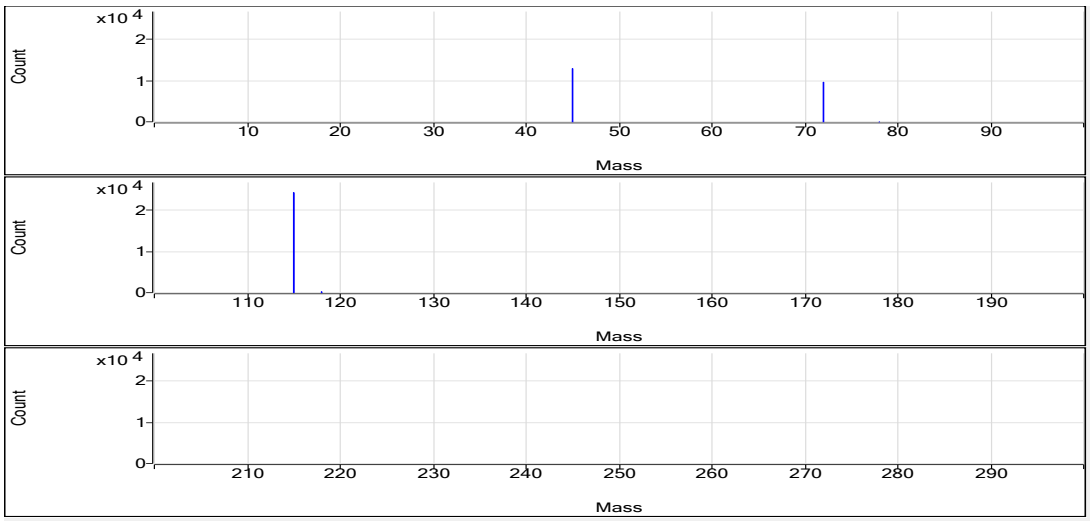
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1608973.05	0.6	94.2	Analog	0.1000	3
No Gas	Ge	72	816970.90	0.6	94.6	Pulse	0.1000	3
H2	Sc	45	129242.35	1.0	96.7	Pulse	0.1000	3
H2	Ge	72	96415.00	1.5	97.3	Pulse	0.1000	3
H2	In	115	242941.02	0.2	94.7	Pulse	0.1000	3
He	Sc	45	39264.45	1.2	99.5	Pulse	0.1000	3
He	Ge	72	64319.00	1.2	94.4	Pulse	0.1000	3
He	In	115	52266.46	0.8	94.3	Pulse	0.1000	3
He	Tb	159	189432.22	0.9	92.5	Pulse	0.1000	3
He	Bi	209	141147.93	1.7	93.3	Pulse	0.1000	3

No Gas

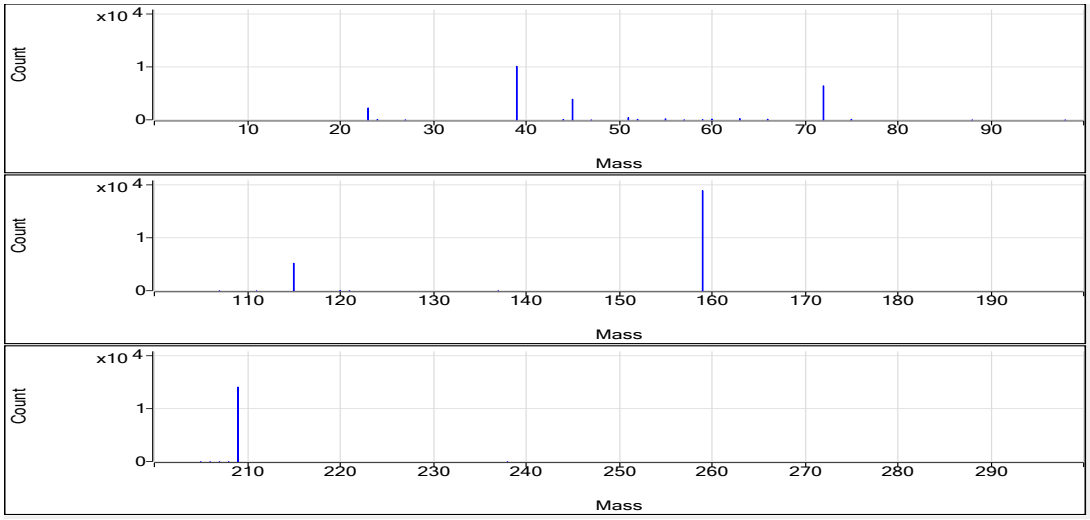


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.018	0	32.00	0.0003	2.616E-05
Se	78	2	H2	-0.144	0	0.67	0.0004	6.3E-05
Se	78	2	H2	-0.127	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Na	23	3	He	-64.956	0.5883	22846.23	0.0025	0.7502
Na	23	3	He	-72.772	0.5688	22625.97	0.0025	0.7502
Na	23	3	He	-70.087	0.5755	22545.74	0.0025	0.7502
Mg	24	3	He	0.494	0.0268	1040.07	0.0012	0.02618
Mg	24	3	He	0.593	0.0269	1070.07	0.0012	0.02618
Mg	24	3	He	-4.336	0.0209	820.04	0.0012	0.02618
Al	27	3	He	-2.524	0.0044	170.01	0.0004	0.005329
Al	27	3	He	-6.799	0.0028	110.01	0.0004	0.005329
Al	27	3	He	-2.625	0.0043	170.01	0.0004	0.005329
K	39	3	He	74.628	0.6048	23486.87	0.001	0.5307
K	39	3	He	-44.359	0.4866	19357.33	0.001	0.5307
K	39	3	He	-71.467	0.4597	18009.80	0.001	0.5307
Ca	44	3	He	8.576	0.0049	190.00	0.0001	0.004441
Ca	44	3	He	-12.73	0.0038	150.00	0.0001	0.004441
Ca	44	3	He	25.224	0.0058	226.00	0.0001	0.004441
Ti	47	3	He	-0.611	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.869	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.74	0.0002	6.00	0.0004	0.0004559
V	51	3	He	-0.254	0.0216	840.03	0.0176	0.02609
V	51	3	He	-0.126	0.0239	950.03	0.0176	0.02609
V	51	3	He	-0.18	0.0229	898.03	0.0176	0.02609
Cr	52	3	He	-0.895	0.0312	1210.08	0.0217	0.05061
Cr	52	3	He	-0.86	0.0319	1270.10	0.0217	0.05061
Cr	52	3	He	-0.532	0.0391	1530.13	0.0217	0.05061
Mn	55	3	He	0.04	0.0111	430.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.006	0.0107	424.01	0.0091	0.01071
Mn	55	3	He	-0.122	0.0096	376.01	0.0091	0.01071
Fe	57	3	He	-9.559	0.0046	180.01	0.0004	0.008452
Fe	57	3	He	-7.316	0.0055	220.01	0.0004	0.008452
Fe	57	3	He	-9.66	0.0046	180.01	0.0004	0.008452
Co	59	3	He	-0.065	0.0033	130.00	0.0413	0.006013
Co	59	3	He	-0.066	0.0033	130.00	0.0413	0.006013
Co	59	3	He	-0.069	0.0032	124.00	0.0413	0.006013
Ni	60	3	He	-0.226	0.0091	352.01	0.0117	0.01172
Ni	60	3	He	-0.3	0.0082	326.01	0.0117	0.01172
Ni	60	3	He	-0.298	0.0082	322.01	0.0117	0.01172
Cu	63	3	He	-0.357	0.0075	486.01	0.0196	0.01443
Cu	63	3	He	-0.35	0.0076	484.01	0.0196	0.01443
Cu	63	3	He	-0.347	0.0077	490.01	0.0196	0.01443
Zn	66	3	He	0.682	0.0044	284.00	0.0023	0.002807
Zn	66	3	He	0.836	0.0047	300.01	0.0023	0.002807
Zn	66	3	He	0.647	0.0043	274.00	0.0023	0.002807
As	75	3	He	1.526	0.0041	266.00	0.0018	0.001271
As	75	3	He	1.304	0.0037	234.00	0.0018	0.001271
As	75	3	He	1.447	0.0039	252.00	0.0018	0.001271
Sr	88	3	He	0.026	0.0014	70.00	0.0082	0.00114
Sr	88	3	He	-0.069	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.069	0.0006	30.00	0.0082	0.00114
Mo	98	3	He	-0.074	0.0002	10.00	0.0177	0.001504
Mo	98	3	He	-0.063	0.0004	20.00	0.0177	0.001504
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.202	0.0135	700.04	0.0126	0.01097
Sn	120	3	He	0.265	0.0143	750.04	0.0126	0.01097
Sn	120	3	He	0.233	0.0139	730.04	0.0126	0.01097
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.012	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	-0.093	0	0.00	0.0039	0.0003633
Ba	137	3	He	0.004	0.0004	20.00	0.0039	0.0003633
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.062	0.0002	30.00	0.0189	0.001334
Tl	205	3	He	-0.034	0.0007	130.01	0.0189	0.001334
Pb	208	3	He	-0.014	0.0012	100.00	0.0252	0.001497
Pb	208	3	He	-0.026	0.0009	90.00	0.0252	0.001497
Pb	208	3	He	-0.022	0.001	110.00	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1615638.26		
Sc	45	1	No Gas			1614100.44		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1597180.44		
Ge	72	1	No Gas			822873.11		
Ge	72	1	No Gas			812978.97		
Ge	72	1	No Gas			815060.61		
Sc	45	2	H2			129932.06		
Sc	45	2	H2			127773.58		
Sc	45	2	H2			130021.40		
Ge	72	2	H2			95130.47		
Ge	72	2	H2			98017.26		
Ge	72	2	H2			96097.26		
In	115	2	H2			242459.84		
In	115	2	H2			243080.31		
In	115	2	H2			243282.91		
Sc	45	3	He			38836.44		
Sc	45	3	He			39779.51		
Sc	45	3	He			39177.40		
Ge	72	3	He			65182.31		
Ge	72	3	He			63736.95		
Ge	72	3	He			64037.75		
In	115	3	He			51816.83		
In	115	3	He			52458.71		
In	115	3	He			52539.10		
Tb	159	3	He			191147.42		
Tb	159	3	He			187947.09		
Tb	159	3	He			189202.15		
Bi	209	3	He			143308.37		
Bi	209	3	He			138564.27		
Bi	209	3	He			141571.16		

Quantitation Report

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Sample Type	Sample
Comment	F5
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

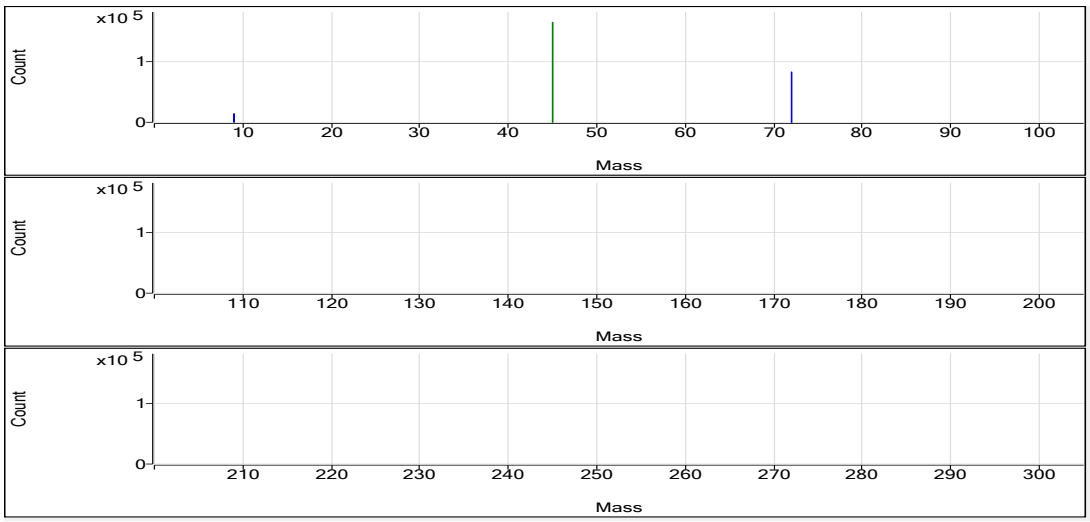
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	51.541	ppb	5.1	28668.95	0.0174	Pulse	0.5000	3
Se	78	72	H2	101.959	ppb	4.0	3900.48	0.0396	Pulse	1.5000	3
Na	23	45	He	5064.863	ppb	1.9	537511.95	13.3755	Pulse	0.1000	3
Mg	24	45	He	5139.110	ppb	0.7	251157.26	6.2490	Pulse	0.1000	3
Al	27	45	He	5176.400	ppb	0.7	78669.06	1.9574	Pulse	0.1000	3
K	39	45	He	5196.383	ppb	1.9	228676.59	5.6904	Pulse	0.5000	3
Ca	44	45	He	5153.414	ppb	1.2	11081.11	0.2757	Pulse	0.5000	3
Ti	47	45	He	528.188	ppb	1.2	8699.68	0.2165	Pulse	0.5000	3
V	51	45	He	512.643	ppb	1.5	363399.92	9.0427	Pulse	0.5000	3
Cr	52	45	He	518.090	ppb	1.0	454378.16	11.3060	Pulse	0.1000	3
Mn	55	45	He	519.672	ppb	1.1	190789.52	4.7473	Pulse	0.5000	3
Fe	57	45	He	5313.677	ppb	1.6	85622.21	2.1304	Pulse	0.1000	3
Co	59	45	He	512.531	ppb	1.0	850718.40	21.1677	Pulse	0.5000	3
Ni	60	45	He	513.192	ppb	0.6	242720.28	6.0392	Pulse	0.5000	3
Cu	63	72	He	521.070	ppb	0.5	679452.42	10.2076	Pulse	0.5000	3
Zn	66	72	He	523.448	ppb	1.1	79372.09	1.1925	Pulse	0.5000	3
As	75	72	He	514.832	ppb	0.8	63165.05	0.9490	Pulse	0.5000	3
Sr	88	115	He	51.999	ppb	2.9	22436.44	0.4284	Pulse	0.1000	3
Mo	98	115	He	51.393	ppb	2.4	47756.39	0.9118	Pulse	0.1000	3
Ag	107	115	He	53.703	ppb	0.7	103484.26	1.9761	Pulse	0.1000	3
Cd	111	115	He	54.399	ppb	1.5	11688.39	0.2232	Pulse	0.5000	3
Sn	120	115	He	103.410	ppb	1.8	68736.00	1.3126	Pulse	0.1000	3
Sb	121	115	He	104.666	ppb	1.5	66039.47	1.2612	Pulse	0.3000	3
Ba	137	115	He	533.260	ppb	0.6	108972.32	2.0809	Pulse	0.1000	3
Tl	205	159	He	102.111	ppb	1.6	372023.81	1.9353	Pulse	0.1000	3
Pb	208	159	He	52.598	ppb	1.3	254654.51	1.3247	Pulse	0.1000	3
U	238	159	He	53.572	ppb	1.4	252828.21	1.3152	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1649752.79	1.6	96.6	Analog	0.1000	3
No Gas	Ge	72	831234.67	0.8	96.2	Pulse	0.1000	3
H2	Sc	45	130523.12	0.7	97.7	Pulse	0.1000	3
H2	Ge	72	98520.85	1.3	99.5	Pulse	0.1000	3
H2	In	115	243691.51	2.1	94.9	Pulse	0.1000	3
He	Sc	45	40193.41	1.6	101.8	Pulse	0.1000	3
He	Ge	72	66565.17	1.0	97.7	Pulse	0.1000	3
He	In	115	52369.29	1.1	94.5	Pulse	0.1000	3
He	Tb	159	192250.73	1.1	93.9	Pulse	0.1000	3
He	Bi	209	141716.35	0.9	93.7	Pulse	0.1000	3

No Gas



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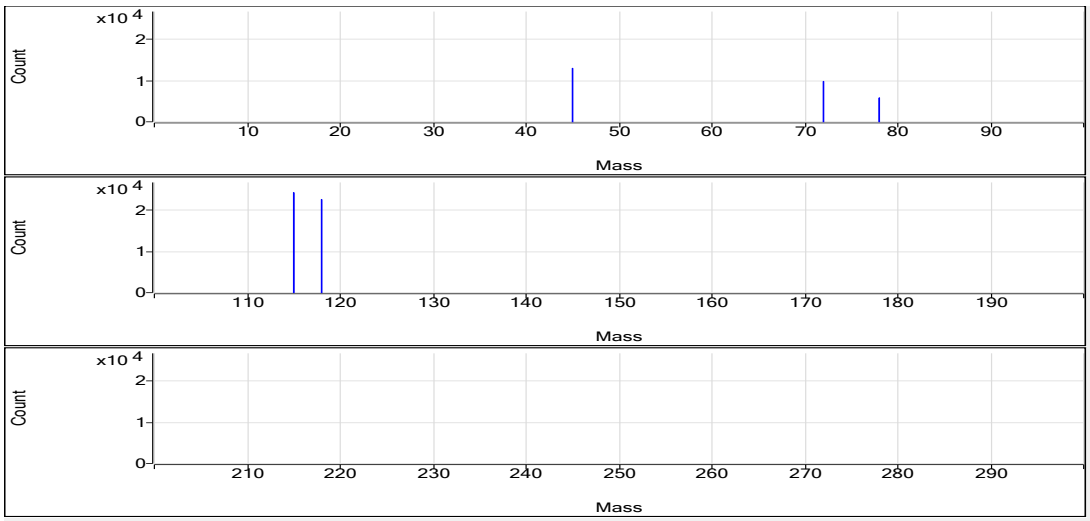
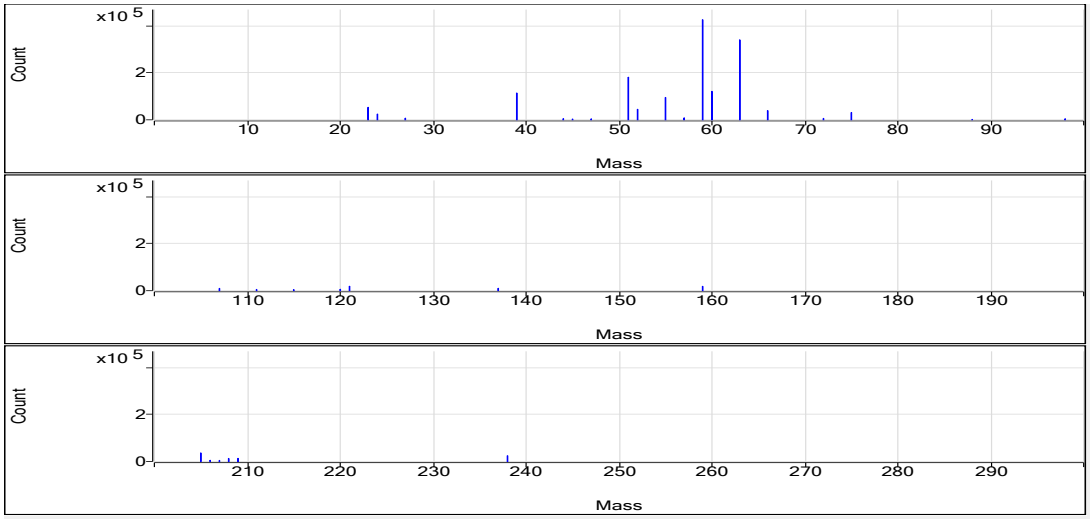


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	49.312	0.0166	26943.40	0.0003	2.616E-05
Be	9	1	No Gas	50.882	0.0172	28660.23	0.0003	2.616E-05
Be	9	1	No Gas	54.429	0.0183	30403.23	0.0003	2.616E-05
Se	78	2	H2	97.484	0.0379	3783.78	0.0004	6.3E-05
Se	78	2	H2	105.503	0.041	3997.17	0.0004	6.3E-05
Se	78	2	H2	102.891	0.04	3920.48	0.0004	6.3E-05
Na	23	3	He	5168.495	13.6338	538106.95	0.0025	0.7502
Na	23	3	He	5051.007	13.341	540849.99	0.0025	0.7502
Na	23	3	He	4975.088	13.1517	533578.90	0.0025	0.7502
Mg	24	3	He	5165.841	6.2814	247916.56	0.0012	0.02618
Mg	24	3	He	5096.878	6.1979	251265.05	0.0012	0.02618
Mg	24	3	He	5154.609	6.2678	254290.17	0.0012	0.02618
Al	27	3	He	5203.053	1.9674	77650.70	0.0004	0.005329
Al	27	3	He	5192.612	1.9635	79600.22	0.0004	0.005329
Al	27	3	He	5133.536	1.9412	78756.25	0.0004	0.005329
K	39	3	He	5309.421	5.8027	229022.72	0.001	0.5307
K	39	3	He	5159.267	5.6536	229198.95	0.001	0.5307
K	39	3	He	5120.462	5.615	227808.09	0.001	0.5307
Ca	44	3	He	5192.718	0.2778	10963.69	0.0001	0.004441
Ca	44	3	He	5188.222	0.2775	11251.89	0.0001	0.004441
Ca	44	3	He	5079.303	0.2718	11027.74	0.0001	0.004441
Ti	47	3	He	534.544	0.2191	8646.32	0.0004	0.0004559
Ti	47	3	He	527.983	0.2164	8772.38	0.0004	0.0004559
Ti	47	3	He	522.037	0.214	8680.33	0.0004	0.0004559
V	51	3	He	521.517	9.1988	363062.38	0.0176	0.02609
V	51	3	He	509.404	8.9857	364286.28	0.0176	0.02609
V	51	3	He	507.008	8.9436	362851.09	0.0176	0.02609
Cr	52	3	He	523.973	11.4337	451273.31	0.0217	0.05061
Cr	52	3	He	516.208	11.2651	456691.83	0.0217	0.05061
Cr	52	3	He	514.091	11.2191	455169.33	0.0217	0.05061
Mn	55	3	He	525.728	4.8025	189547.03	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	514.791	4.7028	190654.19	0.0091	0.01071
Mn	55	3	He	518.495	4.7366	192167.34	0.0091	0.01071
Fe	57	3	He	5352.171	2.1458	84690.58	0.0004	0.008452
Fe	57	3	He	5373.387	2.1542	87334.41	0.0004	0.008452
Fe	57	3	He	5215.473	2.0912	84841.63	0.0004	0.008452
Co	59	3	He	518.126	21.3987	844576.81	0.0413	0.006013
Co	59	3	He	511.09	21.1082	855738.50	0.0413	0.006013
Co	59	3	He	508.378	20.9962	851839.88	0.0413	0.006013
Ni	60	3	He	517.036	6.0844	240140.95	0.0117	0.01172
Ni	60	3	He	511.399	6.0182	243979.66	0.0117	0.01172
Ni	60	3	He	511.141	6.0151	244040.23	0.0117	0.01172
Cu	63	3	He	523.973	10.2644	676076.88	0.0196	0.01443
Cu	63	3	He	519.175	10.1706	683267.13	0.0196	0.01443
Cu	63	3	He	520.063	10.1879	679013.25	0.0196	0.01443
Zn	66	3	He	526.83	1.2002	79049.21	0.0023	0.002807
Zn	66	3	He	516.732	1.1772	79085.37	0.0023	0.002807
Zn	66	3	He	526.784	1.2	79981.70	0.0023	0.002807
As	75	3	He	519.097	0.9568	63020.56	0.0018	0.001271
As	75	3	He	514.963	0.9492	63767.38	0.0018	0.001271
As	75	3	He	510.438	0.9409	62707.22	0.0018	0.001271
Sr	88	3	He	52.032	0.4286	22206.03	0.0082	0.00114
Sr	88	3	He	53.514	0.4408	23347.76	0.0082	0.00114
Sr	88	3	He	50.453	0.4157	21755.53	0.0082	0.00114
Mo	98	3	He	50.712	0.8997	46609.59	0.0177	0.001504
Mo	98	3	He	52.84	0.9374	49648.82	0.0177	0.001504
Mo	98	3	He	50.627	0.8982	47010.77	0.0177	0.001504
Ag	107	3	He	54.141	1.9923	103208.99	0.0368	0.001325
Ag	107	3	He	53.406	1.9652	104085.17	0.0368	0.001325
Ag	107	3	He	53.563	1.971	103158.63	0.0368	0.001325
Cd	111	3	He	54.657	0.2243	11618.33	0.0041	4.798E-05
Cd	111	3	He	53.498	0.2195	11626.33	0.0041	4.798E-05
Cd	111	3	He	55.042	0.2258	11820.51	0.0041	4.798E-05
Sn	120	3	He	105.075	1.3335	69084.48	0.0126	0.01097
Sn	120	3	He	103.78	1.3172	69766.78	0.0126	0.01097
Sn	120	3	He	101.373	1.2869	67356.74	0.0126	0.01097
Sb	121	3	He	106.434	1.2825	66437.89	0.012	0.0003595
Sb	121	3	He	103.558	1.2478	66089.52	0.012	0.0003595
Sb	121	3	He	104.006	1.2532	65591.01	0.012	0.0003595
Ba	137	3	He	536.626	2.0941	108483.06	0.0039	0.0003633
Ba	137	3	He	530.868	2.0716	109720.54	0.0039	0.0003633
Ba	137	3	He	532.286	2.0771	108713.37	0.0039	0.0003633
Tl	205	3	He	100.394	1.9028	370261.64	0.0189	0.001334
Tl	205	3	He	102.248	1.9379	370222.42	0.0189	0.001334
Tl	205	3	He	103.691	1.9652	375587.38	0.0189	0.001334
Pb	208	3	He	51.814	1.305	137532.72	0.0252	0.001497
Pb	208	3	He	52.914	1.3327	136876.77	0.0252	0.001497
Pb	208	3	He	53.066	1.3365	136665.40	0.0252	0.001497
U	238	3	He	52.727	1.2945	251893.51	0.0245	0.0001141
U	238	3	He	53.943	1.3243	253006.05	0.0245	0.0001141
U	238	3	He	54.045	1.3269	253585.07	0.0245	0.0001141
Sc	45	1	No Gas			1620877.94		
Sc	45	1	No Gas			1671045.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1657335.13		
Ge	72	1	No Gas			823200.14		
Ge	72	1	No Gas			835673.89		
Ge	72	1	No Gas			834829.99		
Sc	45	2	H2			131141.58		
Sc	45	2	H2			129548.56		
Sc	45	2	H2			130879.21		
Ge	72	2	H2			99919.79		
Ge	72	2	H2			97544.79		
Ge	72	2	H2			98097.98		
In	115	2	H2			238012.14		
In	115	2	H2			248237.40		
In	115	2	H2			244825.00		
Sc	45	3	He			39468.55		
Sc	45	3	He			40540.59		
Sc	45	3	He			40571.08		
Ge	72	3	He			65865.97		
Ge	72	3	He			67180.79		
Ge	72	3	He			66648.75		
In	115	3	He			52288.79		
In	115	3	He			53452.67		
In	115	3	He			52809.87		
Tb	159	3	He			194590.39		
Tb	159	3	He			191044.00		
Tb	159	3	He			191117.79		
Bi	209	3	He			140179.10		
Bi	209	3	He			142439.28		
Bi	209	3	He			142530.68		

Quantitation Report

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Sample Type	Sample
Comment	F5
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

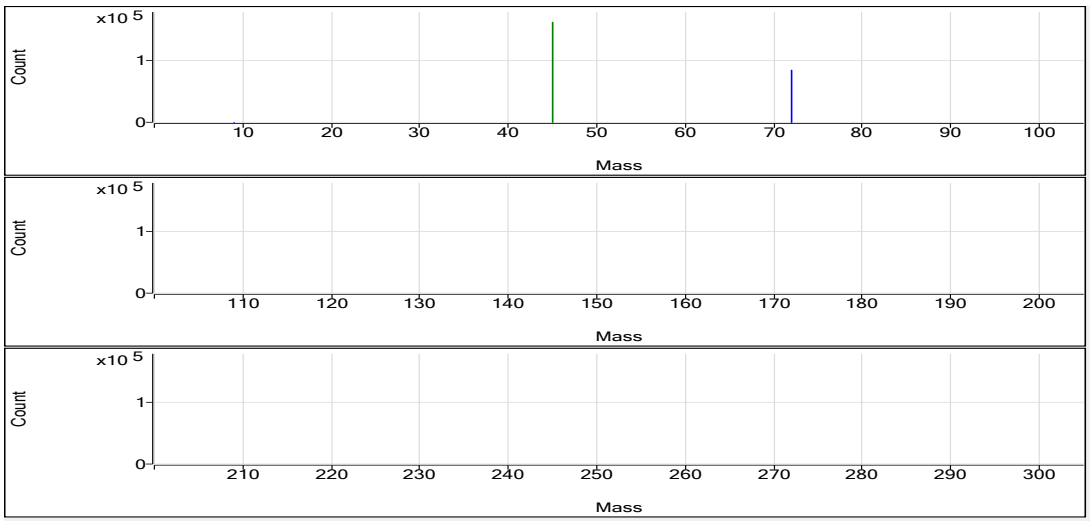
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.227	ppb	7.1	165.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.212	ppb	42.9	14.22	0.0001	Pulse	1.5000	3
Na	23	45	He	4897.645	ppb	2.2	509220.22	12.9587	Pulse	0.1000	3
Mg	24	45	He	4880.332	ppb	2.4	233248.38	5.9357	Pulse	0.1000	3
Al	27	45	He	529.346	ppb	5.8	8059.04	0.2049	Pulse	0.1000	3
K	39	45	He	2009.872	ppb	2.0	99310.15	2.5264	Pulse	0.5000	3
Ca	44	45	He	4123.505	ppb	3.0	8703.00	0.2215	Pulse	0.5000	3
Ti	47	45	He	9.203	ppb	113.1	167.43	0.0042	Pulse	0.5000	3
V	51	45	He	1.205	ppb	8.3	1858.14	0.0473	Pulse	0.5000	3
Cr	52	45	He	0.252	ppb	113.6	2203.55	0.0561	Pulse	0.1000	3
Mn	55	45	He	43.744	ppb	2.2	16087.94	0.4094	Pulse	0.5000	3
Fe	57	45	He	880.347	ppb	2.2	14153.26	0.3600	Pulse	0.1000	3
Co	59	45	He	1.910	ppb	5.4	3335.02	0.0849	Pulse	0.5000	3
Ni	60	45	He	6.581	ppb	3.2	3498.39	0.0890	Pulse	0.5000	3
Cu	63	72	He	13.987	ppb	1.5	19459.68	0.2881	Pulse	0.5000	3
Zn	66	72	He	10.087	ppb	3.7	1738.11	0.0257	Pulse	0.5000	3
As	75	72	He	2.315	ppb	7.9	374.01	0.0055	Pulse	0.5000	3
Sr	88	115	He	52.504	ppb	0.6	22750.18	0.4325	Pulse	0.1000	3
Mo	98	115	He	0.226	ppb	20.3	290.01	0.0055	Pulse	0.1000	3
Ag	107	115	He	0.021	ppb	45.4	110.00	0.0021	Pulse	0.1000	3
Cd	111	115	He	0.081	ppb	48.4	20.00	0.0004	Pulse	0.5000	3
Sn	120	115	He	0.483	ppb	28.3	896.73	0.0170	Pulse	0.1000	3
Sb	121	115	He	0.182	ppb	24.4	134.45	0.0026	Pulse	0.3000	3
Ba	137	115	He	49.284	ppb	3.8	10130.32	0.1926	Pulse	0.1000	3
Tl	205	159	He	0.264	ppb	11.1	1210.09	0.0063	Pulse	0.1000	3
Pb	208	159	He	0.486	ppb	4.3	2620.19	0.0137	Pulse	0.1000	3
U	238	159	He	0.144	ppb	14.3	696.71	0.0036	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1612616.17	0.7	94.4	Analog	0.1000	3
No Gas	Ge	72	841616.97	0.5	97.4	Pulse	0.1000	3
H2	Sc	45	129454.82	1.2	96.9	Pulse	0.1000	3
H2	Ge	72	98168.58	1.2	99.1	Pulse	0.1000	3
H2	In	115	241688.91	0.3	94.2	Pulse	0.1000	3
He	Sc	45	39304.49	1.7	99.6	Pulse	0.1000	3
He	Ge	72	67565.32	1.6	99.2	Pulse	0.1000	3
He	In	115	52596.66	1.2	94.9	Pulse	0.1000	3
He	Tb	159	190933.81	1.3	93.2	Pulse	0.1000	3
He	Bi	209	143224.34	1.0	94.7	Pulse	0.1000	3

No Gas



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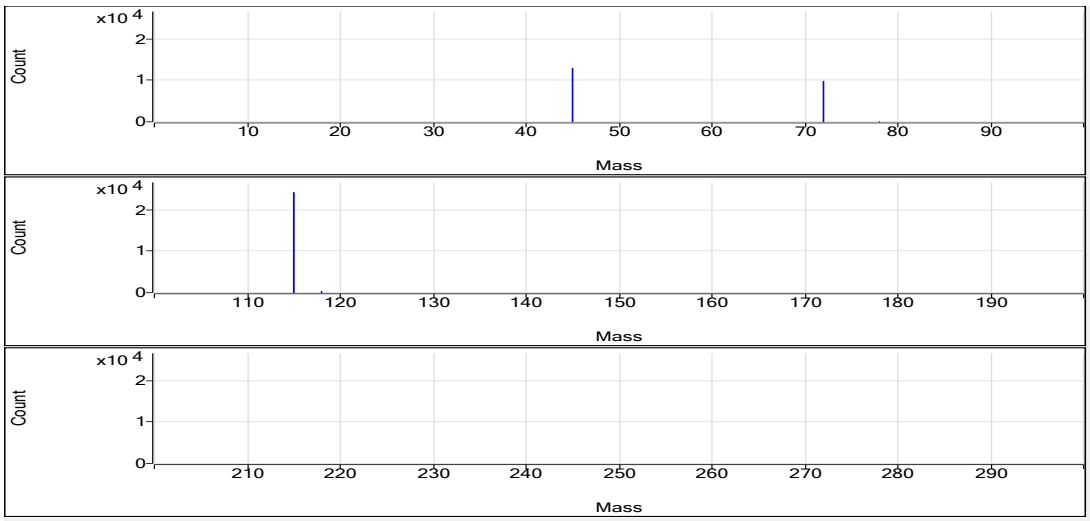
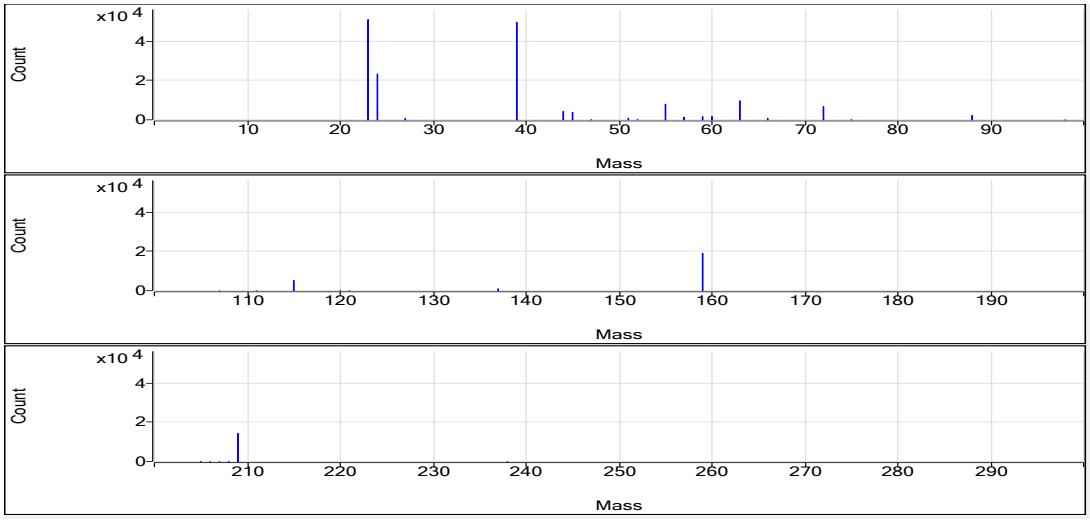


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.23	0.0001	168.00	0.0003	2.616E-05
Be	9	1	No Gas	0.242	0.0001	172.00	0.0003	2.616E-05
Be	9	1	No Gas	0.21	0.0001	156.00	0.0003	2.616E-05
Se	78	2	H2	0.298	0.0002	17.33	0.0004	6.3E-05
Se	78	2	H2	0.219	0.0001	14.67	0.0004	6.3E-05
Se	78	2	H2	0.118	0.0001	10.67	0.0004	6.3E-05
Na	23	3	He	4773.381	12.6489	506202.34	0.0025	0.7502
Na	23	3	He	4954.201	13.0996	513866.83	0.0025	0.7502
Na	23	3	He	4965.352	13.1274	507591.48	0.0025	0.7502
Mg	24	3	He	4749.224	5.7769	231188.34	0.0012	0.02618
Mg	24	3	He	4978.17	6.0541	237488.43	0.0012	0.02618
Mg	24	3	He	4913.601	5.9759	231068.38	0.0012	0.02618
Al	27	3	He	541.975	0.2097	8392.43	0.0004	0.005329
Al	27	3	He	551.876	0.2134	8372.82	0.0004	0.005329
Al	27	3	He	494.186	0.1917	7411.88	0.0004	0.005329
K	39	3	He	2053.277	2.5695	102828.71	0.001	0.5307
K	39	3	He	1972.599	2.4894	97651.45	0.001	0.5307
K	39	3	He	2003.74	2.5203	97450.29	0.001	0.5307
Ca	44	3	He	3988.674	0.2144	8580.28	0.0001	0.004441
Ca	44	3	He	4149.386	0.2229	8742.35	0.0001	0.004441
Ca	44	3	He	4232.455	0.2272	8786.38	0.0001	0.004441
Ti	47	3	He	21.022	0.0091	362.30	0.0004	0.0004559
Ti	47	3	He	1.379	0.001	40.00	0.0004	0.0004559
Ti	47	3	He	5.209	0.0026	100.00	0.0004	0.0004559
V	51	3	He	1.216	0.0475	1900.14	0.0176	0.02609
V	51	3	He	1.099	0.0454	1782.11	0.0176	0.02609
V	51	3	He	1.299	0.0489	1892.16	0.0176	0.02609
Cr	52	3	He	0.328	0.0577	2310.24	0.0217	0.05061
Cr	52	3	He	-0.065	0.0492	1930.17	0.0217	0.05061
Cr	52	3	He	0.492	0.0613	2370.23	0.0217	0.05061
Mn	55	3	He	42.629	0.3993	15977.82	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	44.168	0.4133	16212.05	0.0091	0.01071
Mn	55	3	He	44.434	0.4157	16073.96	0.0091	0.01071
Fe	57	3	He	902.234	0.3687	14757.10	0.0004	0.008452
Fe	57	3	He	872.32	0.3568	13996.48	0.0004	0.008452
Fe	57	3	He	866.486	0.3545	13706.20	0.0004	0.008452
Co	59	3	He	1.811	0.0808	3232.33	0.0413	0.006013
Co	59	3	He	2.018	0.0893	3504.40	0.0413	0.006013
Co	59	3	He	1.902	0.0845	3268.34	0.0413	0.006013
Ni	60	3	He	6.628	0.0896	3584.41	0.0117	0.01172
Ni	60	3	He	6.352	0.0863	3386.37	0.0117	0.01172
Ni	60	3	He	6.763	0.0911	3524.40	0.0117	0.01172
Cu	63	3	He	14.23	0.2928	19411.61	0.0196	0.01443
Cu	63	3	He	13.832	0.285	19453.66	0.0196	0.01443
Cu	63	3	He	13.901	0.2864	19513.78	0.0196	0.01443
Zn	66	3	He	10.473	0.0266	1764.11	0.0023	0.002807
Zn	66	3	He	9.737	0.0249	1702.10	0.0023	0.002807
Zn	66	3	He	10.052	0.0257	1748.11	0.0023	0.002807
As	75	3	He	2.145	0.0052	346.01	0.0018	0.001271
As	75	3	He	2.509	0.0059	402.01	0.0018	0.001271
As	75	3	He	2.291	0.0055	374.01	0.0018	0.001271
Sr	88	3	He	52.426	0.4319	22636.57	0.0082	0.00114
Sr	88	3	He	52.837	0.4353	23197.55	0.0082	0.00114
Sr	88	3	He	52.247	0.4304	22416.42	0.0082	0.00114
Mo	98	3	He	0.238	0.0057	300.01	0.0177	0.001504
Mo	98	3	He	0.265	0.0062	330.01	0.0177	0.001504
Mo	98	3	He	0.175	0.0046	240.01	0.0177	0.001504
Ag	107	3	He	0.016	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	0.015	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	0.032	0.0025	130.00	0.0368	0.001325
Cd	111	3	He	0.063	0.0003	16.00	0.0041	4.798E-05
Cd	111	3	He	0.126	0.0006	30.00	0.0041	4.798E-05
Cd	111	3	He	0.054	0.0003	14.00	0.0041	4.798E-05
Sn	120	3	He	0.326	0.0151	790.05	0.0126	0.01097
Sn	120	3	He	0.545	0.0178	950.07	0.0126	0.01097
Sn	120	3	He	0.578	0.0182	950.07	0.0126	0.01097
Sb	121	3	He	0.229	0.0031	163.34	0.012	0.0003595
Sb	121	3	He	0.178	0.0025	133.34	0.012	0.0003595
Sb	121	3	He	0.14	0.002	106.67	0.012	0.0003595
Ba	137	3	He	50.978	0.1993	10443.79	0.0039	0.0003633
Ba	137	3	He	47.294	0.1849	9853.46	0.0039	0.0003633
Ba	137	3	He	49.581	0.1938	10093.72	0.0039	0.0003633
Tl	205	3	He	0.298	0.007	1330.10	0.0189	0.001334
Tl	205	3	He	0.246	0.006	1160.08	0.0189	0.001334
Tl	205	3	He	0.248	0.006	1140.08	0.0189	0.001334
Pb	208	3	He	0.498	0.014	1340.11	0.0252	0.001497
Pb	208	3	He	0.462	0.0131	1340.10	0.0252	0.001497
Pb	208	3	He	0.499	0.014	1390.14	0.0252	0.001497
U	238	3	He	0.151	0.0038	730.04	0.0245	0.0001141
U	238	3	He	0.16	0.004	780.05	0.0245	0.0001141
U	238	3	He	0.121	0.0031	580.03	0.0245	0.0001141
Sc	45	1	No Gas			1624143.57		
Sc	45	1	No Gas			1600244.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1613460.91		
Ge	72	1	No Gas			839773.27		
Ge	72	1	No Gas			838770.07		
Ge	72	1	No Gas			846307.57		
Sc	45	2	H2			128460.13		
Sc	45	2	H2			131182.08		
Sc	45	2	H2			128722.25		
Ge	72	2	H2			96950.72		
Ge	72	2	H2			99286.06		
Ge	72	2	H2			98268.97		
In	115	2	H2			242197.26		
In	115	2	H2			240886.48		
In	115	2	H2			241982.98		
Sc	45	3	He			40019.46		
Sc	45	3	He			39227.55		
Sc	45	3	He			38666.46		
Ge	72	3	He			66296.49		
Ge	72	3	He			68255.07		
Ge	72	3	He			68144.41		
In	115	3	He			52418.94		
In	115	3	He			53302.15		
In	115	3	He			52087.71		
Tb	159	3	He			190547.54		
Tb	159	3	He			193506.46		
Tb	159	3	He			188747.42		
Bi	209	3	He			144600.48		
Bi	209	3	He			141865.44		
Bi	209	3	He			143207.10		

Quantitation Report

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Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

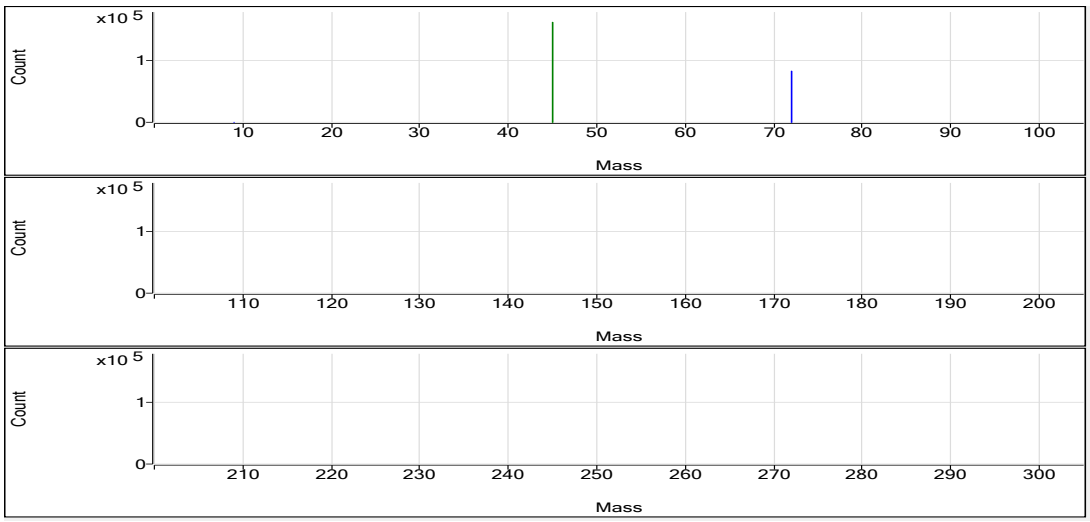
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.055	ppb	47.2	73.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.066	ppb	99.7	8.66	0.0001	Pulse	1.5000	3
Na	23	45	He	4805.086	ppb	2.3	490694.68	12.7279	Pulse	0.1000	3
Mg	24	45	He	4810.822	ppb	1.7	225598.65	5.8515	Pulse	0.1000	3
Al	27	45	He	523.193	ppb	1.6	7812.37	0.2026	Pulse	0.1000	3
K	39	45	He	1984.736	ppb	5.3	96409.13	2.5014	Pulse	0.5000	3
Ca	44	45	He	4082.359	ppb	2.4	8456.88	0.2193	Pulse	0.5000	3
Ti	47	45	He	2.869	ppb	48.5	62.67	0.0016	Pulse	0.5000	3
V	51	45	He	0.675	ppb	15.1	1464.74	0.0380	Pulse	0.5000	3
Cr	52	45	He	0.180	ppb	99.8	2100.20	0.0545	Pulse	0.1000	3
Mn	55	45	He	43.353	ppb	1.2	15648.20	0.4059	Pulse	0.5000	3
Fe	57	45	He	866.861	ppb	5.0	13666.09	0.3546	Pulse	0.1000	3
Co	59	45	He	1.458	ppb	2.2	2552.88	0.0662	Pulse	0.5000	3
Ni	60	45	He	6.090	ppb	3.7	3209.00	0.0832	Pulse	0.5000	3
Cu	63	72	He	13.108	ppb	1.2	18289.68	0.2709	Pulse	0.5000	3
Zn	66	72	He	9.617	ppb	1.0	1665.43	0.0247	Pulse	0.5000	3
As	75	72	He	1.594	ppb	9.1	284.00	0.0042	Pulse	0.5000	3
Sr	88	115	He	51.548	ppb	1.1	22406.43	0.4247	Pulse	0.1000	3
Mo	98	115	He	0.168	ppb	33.3	236.68	0.0045	Pulse	0.1000	3
Ag	107	115	He	-0.012	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Cd	111	115	He	0.038	ppb	75.7	10.67	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.350	ppb	49.8	810.05	0.0154	Pulse	0.1000	3
Sb	121	115	He	0.033	ppb	72.4	40.00	0.0008	Pulse	0.3000	3
Ba	137	115	He	43.940	ppb	0.9	9066.29	0.1718	Pulse	0.1000	3
Tl	205	159	He	0.023	ppb	35.1	340.02	0.0018	Pulse	0.1000	3
Pb	208	159	He	0.404	ppb	7.7	2240.16	0.0117	Pulse	0.1000	3
U	238	159	He	0.066	ppb	9.6	333.35	0.0017	Pulse	0.1000	3

ISTD Table:

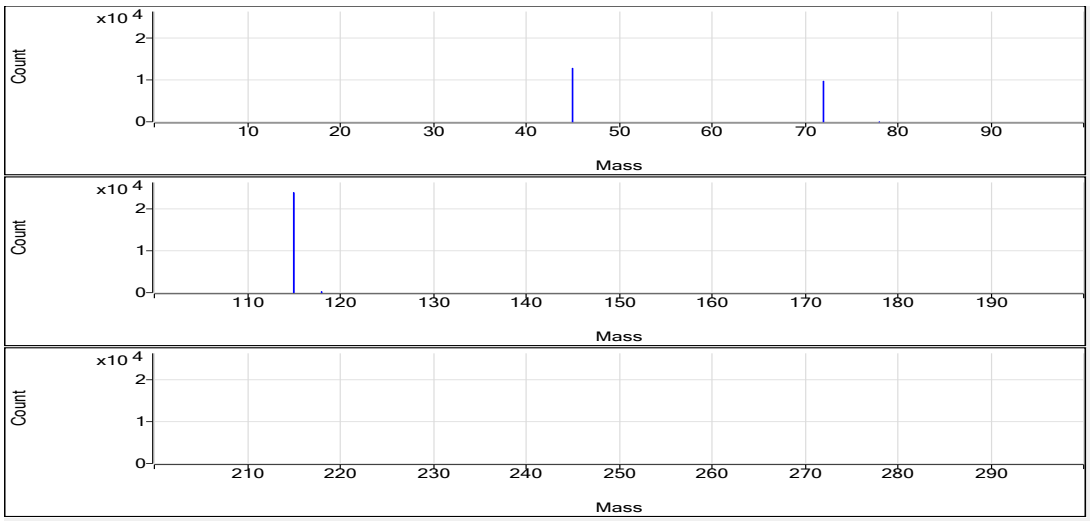
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1636380.55	0.9	95.8	Analog	0.1000	3
No Gas	Ge	72	838552.83	1.1	97.1	Pulse	0.1000	3
H2	Sc	45	129020.03	0.4	96.6	Pulse	0.1000	3
H2	Ge	72	98078.04	2.0	99.0	Pulse	0.1000	3
H2	In	115	240750.62	0.6	93.8	Pulse	0.1000	3
He	Sc	45	38562.87	2.1	97.7	Pulse	0.1000	3
He	Ge	72	67525.44	0.2	99.1	Pulse	0.1000	3
He	In	115	52767.74	1.5	95.2	Pulse	0.1000	3
He	Tb	159	191983.40	0.9	93.7	Pulse	0.1000	3
He	Bi	209	142874.17	0.9	94.5	Pulse	0.1000	3

No Gas

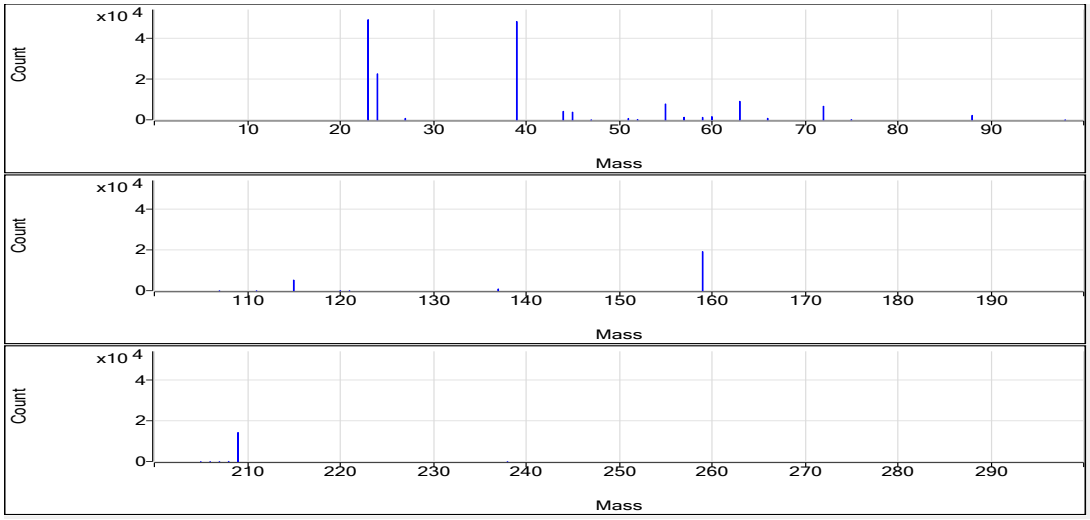


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.081	0.0001	88.00	0.0003	2.616E-05
Be	9	1	No Gas	0.028	0	58.00	0.0003	2.616E-05
Be	9	1	No Gas	0.057	0	74.00	0.0003	2.616E-05
Se	78	2	H2	0.142	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.029	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	0.027	0.0001	7.33	0.0004	6.3E-05
Na	23	3	He	4926.057	13.0295	493354.68	0.0025	0.7502
Na	23	3	He	4774.11	12.6507	485611.52	0.0025	0.7502
Na	23	3	He	4715.09	12.5036	493117.84	0.0025	0.7502
Mg	24	3	He	4877.174	5.9318	224605.64	0.0012	0.02618
Mg	24	3	He	4832.665	5.8779	225630.82	0.0012	0.02618
Mg	24	3	He	4722.626	5.7447	226559.49	0.0012	0.02618
Al	27	3	He	532.309	0.2061	7802.49	0.0004	0.005329
Al	27	3	He	520.727	0.2017	7742.32	0.0004	0.005329
Al	27	3	He	516.544	0.2001	7892.29	0.0004	0.005329
K	39	3	He	2096.347	2.6122	98910.91	0.001	0.5307
K	39	3	He	1968.292	2.4851	95392.52	0.001	0.5307
K	39	3	He	1889.568	2.4069	94923.95	0.001	0.5307
Ca	44	3	He	4189.357	0.225	8518.24	0.0001	0.004441
Ca	44	3	He	3991.655	0.2146	8236.10	0.0001	0.004441
Ca	44	3	He	4066.065	0.2185	8616.29	0.0001	0.004441
Ti	47	3	He	2.631	0.0015	58.00	0.0004	0.0004559
Ti	47	3	He	4.363	0.0022	86.00	0.0004	0.0004559
Ti	47	3	He	1.613	0.0011	44.00	0.0004	0.0004559
V	51	3	He	0.7	0.0384	1454.07	0.0176	0.02609
V	51	3	He	0.563	0.036	1382.07	0.0176	0.02609
V	51	3	He	0.763	0.0395	1558.08	0.0176	0.02609
Cr	52	3	He	0.382	0.0589	2230.22	0.0217	0.05061
Cr	52	3	He	0.117	0.0531	2040.18	0.0217	0.05061
Cr	52	3	He	0.04	0.0515	2030.20	0.0217	0.05061
Mn	55	3	He	43.776	0.4097	15513.38	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	43.537	0.4075	15643.52	0.0091	0.01071
Mn	55	3	He	42.746	0.4003	15787.71	0.0091	0.01071
Fe	57	3	He	910.433	0.372	14086.42	0.0004	0.008452
Fe	57	3	He	867.092	0.3547	13616.10	0.0004	0.008452
Fe	57	3	He	823.057	0.3371	13295.74	0.0004	0.008452
Co	59	3	He	1.459	0.0662	2508.21	0.0413	0.006013
Co	59	3	He	1.49	0.0675	2592.22	0.0413	0.006013
Co	59	3	He	1.425	0.0649	2558.21	0.0413	0.006013
Ni	60	3	He	6.086	0.0832	3150.32	0.0117	0.01172
Ni	60	3	He	6.314	0.0859	3296.36	0.0117	0.01172
Ni	60	3	He	5.868	0.0806	3180.33	0.0117	0.01172
Cu	63	3	He	13.046	0.2696	18242.28	0.0196	0.01443
Cu	63	3	He	12.986	0.2685	18082.12	0.0196	0.01443
Cu	63	3	He	13.291	0.2744	18544.64	0.0196	0.01443
Zn	66	3	He	9.51	0.0244	1652.10	0.0023	0.002807
Zn	66	3	He	9.688	0.0248	1672.10	0.0023	0.002807
Zn	66	3	He	9.653	0.0247	1672.09	0.0023	0.002807
As	75	3	He	1.751	0.0045	304.01	0.0018	0.001271
As	75	3	He	1.568	0.0042	280.00	0.0018	0.001271
As	75	3	He	1.464	0.004	268.00	0.0018	0.001271
Sr	88	3	He	50.997	0.4201	22556.70	0.0082	0.00114
Sr	88	3	He	51.517	0.4244	22266.17	0.0082	0.00114
Sr	88	3	He	52.13	0.4294	22396.43	0.0082	0.00114
Mo	98	3	He	0.22	0.0054	290.01	0.0177	0.001504
Mo	98	3	He	0.109	0.0034	180.01	0.0177	0.001504
Mo	98	3	He	0.175	0.0046	240.01	0.0177	0.001504
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.063	0.0003	16.00	0.0041	4.798E-05
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Sn	120	3	He	0.15	0.0129	690.04	0.0126	0.01097
Sn	120	3	He	0.431	0.0164	860.06	0.0126	0.01097
Sn	120	3	He	0.469	0.0169	880.05	0.0126	0.01097
Sb	121	3	He	0.037	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.055	0.001	53.33	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	44.319	0.1733	9303.15	0.0039	0.0003633
Ba	137	3	He	43.939	0.1718	9012.92	0.0039	0.0003633
Ba	137	3	He	43.562	0.1703	8882.80	0.0039	0.0003633
Tl	205	3	He	0.017	0.0017	320.02	0.0189	0.001334
Tl	205	3	He	0.02	0.0017	330.02	0.0189	0.001334
Tl	205	3	He	0.032	0.0019	370.02	0.0189	0.001334
Pb	208	3	He	0.435	0.0124	1290.10	0.0252	0.001497
Pb	208	3	He	0.373	0.0109	1090.08	0.0252	0.001497
Pb	208	3	He	0.404	0.0117	1260.11	0.0252	0.001497
U	238	3	He	0.071	0.0019	360.02	0.0245	0.0001141
U	238	3	He	0.059	0.0016	300.01	0.0245	0.0001141
U	238	3	He	0.068	0.0018	340.01	0.0245	0.0001141
Sc	45	1	No Gas			1652431.23		
Sc	45	1	No Gas			1623289.66		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1633420.76		
Ge	72	1	No Gas			845467.80		
Ge	72	1	No Gas			841925.69		
Ge	72	1	No Gas			828264.99		
Sc	45	2	H2			128378.83		
Sc	45	2	H2			129305.45		
Sc	45	2	H2			129375.82		
Ge	72	2	H2			95824.74		
Ge	72	2	H2			98721.45		
Ge	72	2	H2			99687.93		
In	115	2	H2			240135.80		
In	115	2	H2			242509.59		
In	115	2	H2			239606.46		
Sc	45	3	He			37864.48		
Sc	45	3	He			38386.07		
Sc	45	3	He			39438.06		
Ge	72	3	He			67652.80		
Ge	72	3	He			67351.10		
Ge	72	3	He			67572.41		
In	115	3	He			53693.52		
In	115	3	He			52468.84		
In	115	3	He			52157.87		
Tb	159	3	He			193647.44		
Tb	159	3	He			192099.12		
Tb	159	3	He			190203.63		
Bi	209	3	He			144186.46		
Bi	209	3	He			142784.10		
Bi	209	3	He			141651.96		

Quantitation Report

Data File Name	290SMPL.d
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Acq Time	7/10/2025 8:40:21 PM
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Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

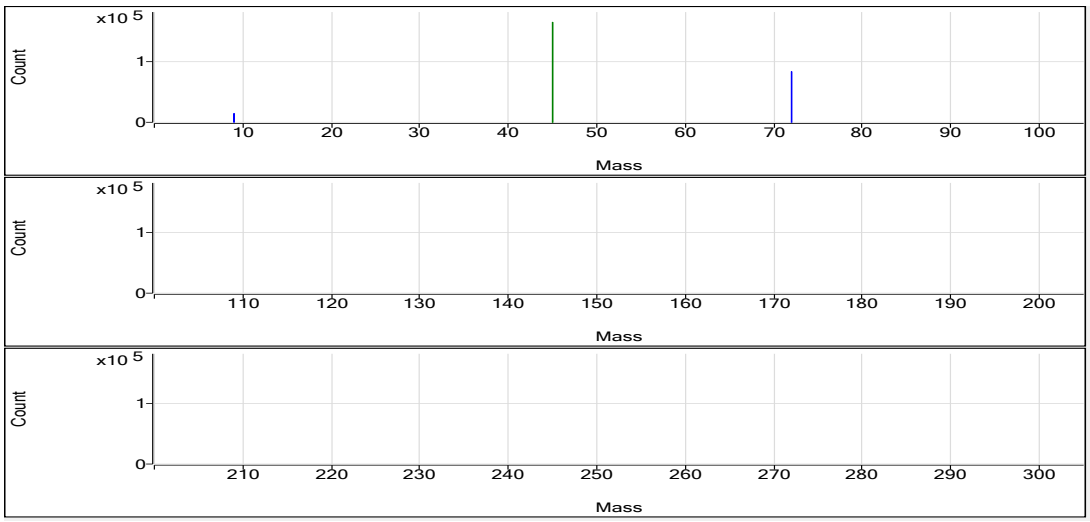
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	52.909	ppb	3.7	29218.53	0.0178	Pulse	0.5000	3
Se	78	72	H2	101.917	ppb	0.8	3866.91	0.0396	Pulse	1.5000	3
Na	23	45	He	10702.716	ppb	2.0	1061610.22	27.4291	Analog	0.1000	3
Mg	24	45	He	10330.010	ppb	2.5	485097.68	12.5345	Pulse	0.1000	3
Al	27	45	He	7220.326	ppb	2.4	105585.66	2.7281	Pulse	0.1000	3
K	39	45	He	7413.435	ppb	1.4	305468.03	7.8918	Pulse	0.5000	3
Ca	44	45	He	9521.735	ppb	3.1	19568.33	0.5057	Pulse	0.5000	3
Ti	47	45	He	567.394	ppb	4.6	8995.85	0.2325	Pulse	0.5000	3
V	51	45	He	539.455	ppb	2.3	368223.54	9.5143	Pulse	0.5000	3
Cr	52	45	He	544.492	ppb	2.4	459759.64	11.8795	Pulse	0.1000	3
Mn	55	45	He	586.596	ppb	2.2	207340.04	5.3573	Pulse	0.5000	3
Fe	57	45	He	6480.640	ppb	2.4	100495.82	2.5964	Pulse	0.1000	3
Co	59	45	He	535.008	ppb	2.0	855179.19	22.0957	Pulse	0.5000	3
Ni	60	45	He	540.031	ppb	2.3	245930.06	6.3544	Pulse	0.5000	3
Cu	63	72	He	533.618	ppb	1.2	696658.06	10.4531	Pulse	0.5000	3
Zn	66	72	He	531.285	ppb	1.3	80659.72	1.2103	Pulse	0.5000	3
As	75	72	He	519.323	ppb	2.1	63786.77	0.9572	Pulse	0.5000	3
Sr	88	115	He	105.747	ppb	1.1	45338.85	0.8700	Pulse	0.1000	3
Mo	98	115	He	53.232	ppb	1.5	49214.30	0.9444	Pulse	0.1000	3
Ag	107	115	He	53.379	ppb	0.4	102363.33	1.9642	Pulse	0.1000	3
Cd	111	115	He	53.738	ppb	1.6	11490.92	0.2205	Pulse	0.5000	3
Sn	120	115	He	107.795	ppb	1.2	71280.40	1.3678	Pulse	0.1000	3
Sb	121	115	He	106.189	ppb	1.0	66679.77	1.2795	Pulse	0.3000	3
Ba	137	115	He	575.604	ppb	1.4	117054.85	2.2461	Pulse	0.1000	3
Tl	205	159	He	103.945	ppb	2.0	375690.65	1.9700	Pulse	0.1000	3
Pb	208	159	He	53.758	ppb	0.7	258218.34	1.3539	Pulse	0.1000	3
U	238	159	He	54.047	ppb	1.0	253061.41	1.3269	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1638127.99	1.1	95.9	Analog	0.1000	3
No Gas	Ge	72	830436.55	0.7	96.1	Pulse	0.1000	3
H2	Sc	45	129625.68	1.4	97.0	Pulse	0.1000	3
H2	Ge	72	97682.72	3.2	98.6	Pulse	0.1000	3
H2	In	115	241736.37	0.7	94.2	Pulse	0.1000	3
He	Sc	45	38713.09	1.9	98.1	Pulse	0.1000	3
He	Ge	72	66655.11	1.8	97.9	Pulse	0.1000	3
He	In	115	52113.95	0.2	94.1	Pulse	0.1000	3
He	Tb	159	190728.50	1.0	93.1	Pulse	0.1000	3
He	Bi	209	142214.82	1.2	94.0	Pulse	0.1000	3

No Gas



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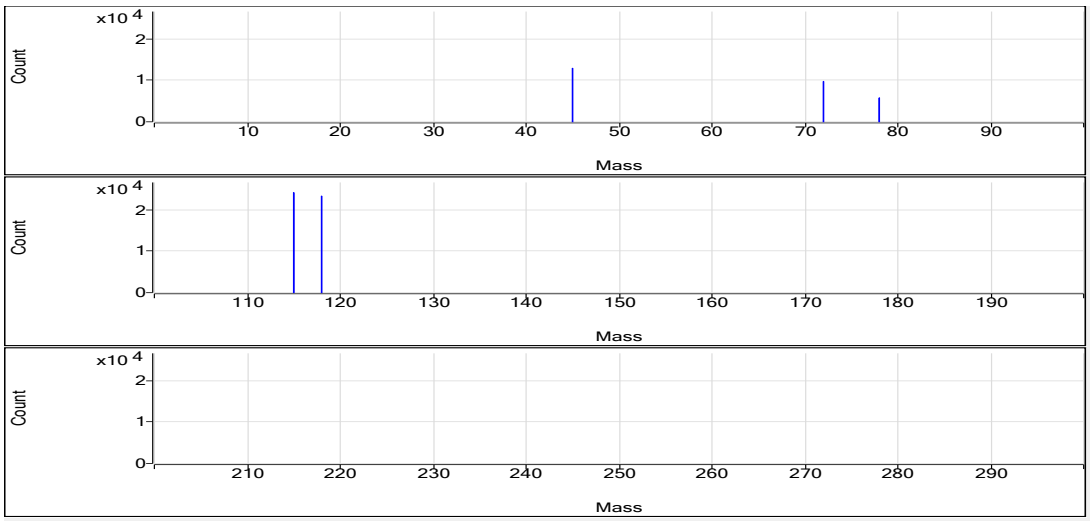
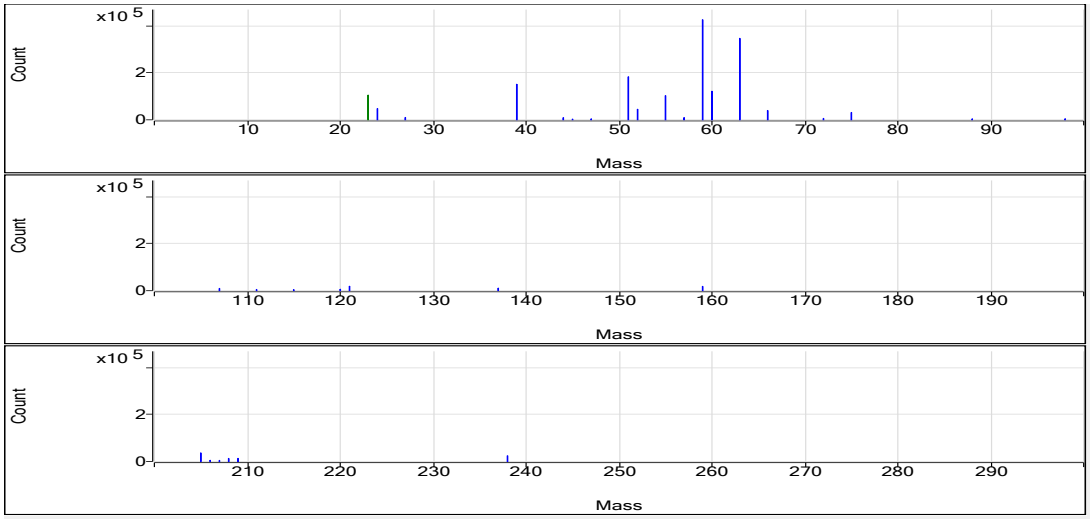


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	51.013	0.0172	27810.80	0.0003	2.616E-05
Be	9	1	No Gas	52.785	0.0178	29415.46	0.0003	2.616E-05
Be	9	1	No Gas	54.929	0.0185	30429.33	0.0003	2.616E-05
Se	78	2	H2	100.967	0.0392	3831.12	0.0004	6.3E-05
Se	78	2	H2	102.483	0.0398	3764.45	0.0004	6.3E-05
Se	78	2	H2	102.301	0.0397	4005.17	0.0004	6.3E-05
Na	23	3	He	10458.083	26.8193	1060660.84	0.0025	0.7502
Na	23	3	He	10837.989	27.7663	1063049.98	0.0025	0.7502
Na	23	3	He	10812.075	27.7017	1061119.83	0.0025	0.7502
Mg	24	3	He	10027.898	12.1687	481253.35	0.0012	0.02618
Mg	24	3	He	10474.255	12.7092	486579.41	0.0012	0.02618
Mg	24	3	He	10487.876	12.7257	487460.27	0.0012	0.02618
Al	27	3	He	7038.795	2.6597	105185.64	0.0004	0.005329
Al	27	3	He	7230.06	2.7318	104588.41	0.0004	0.005329
Al	27	3	He	7392.122	2.7929	106982.94	0.0004	0.005329
K	39	3	He	7293.184	7.7724	307387.94	0.001	0.5307
K	39	3	He	7461.83	7.9399	303984.09	0.001	0.5307
K	39	3	He	7485.291	7.9632	305032.06	0.001	0.5307
Ca	44	3	He	9188.994	0.4881	19305.36	0.0001	0.004441
Ca	44	3	He	9760.149	0.5182	19840.00	0.0001	0.004441
Ca	44	3	He	9616.064	0.5106	19559.63	0.0001	0.004441
Ti	47	3	He	537.792	0.2204	8716.34	0.0004	0.0004559
Ti	47	3	He	587.265	0.2406	9212.66	0.0004	0.0004559
Ti	47	3	He	577.126	0.2365	9058.55	0.0004	0.0004559
V	51	3	He	525.379	9.2667	366483.28	0.0176	0.02609
V	51	3	He	544.828	9.6088	367878.34	0.0176	0.02609
V	51	3	He	548.157	9.6673	370309.00	0.0176	0.02609
Cr	52	3	He	529.782	11.56	457177.96	0.0217	0.05061
Cr	52	3	He	550.547	12.0111	459850.74	0.0217	0.05061
Cr	52	3	He	553.147	12.0676	462250.23	0.0217	0.05061
Mn	55	3	He	571.821	5.2226	206545.56	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	592.601	5.412	207201.64	0.0091	0.01071
Mn	55	3	He	595.365	5.4372	208272.91	0.0091	0.01071
Fe	57	3	He	6362.682	2.5493	100821.11	0.0004	0.008452
Fe	57	3	He	6419.25	2.5719	98466.71	0.0004	0.008452
Fe	57	3	He	6659.989	2.668	102199.64	0.0004	0.008452
Co	59	3	He	522.524	21.5803	853467.19	0.0413	0.006013
Co	59	3	He	541.453	22.3618	856137.00	0.0413	0.006013
Co	59	3	He	541.047	22.3451	855933.38	0.0413	0.006013
Ni	60	3	He	525.799	6.1873	244697.38	0.0117	0.01172
Ni	60	3	He	549.26	6.4628	247434.08	0.0117	0.01172
Ni	60	3	He	545.033	6.4132	245658.72	0.0117	0.01172
Cu	63	3	He	536.868	10.5167	689727.13	0.0196	0.01443
Cu	63	3	He	525.969	10.3035	700370.19	0.0196	0.01443
Cu	63	3	He	538.018	10.5392	699876.88	0.0196	0.01443
Zn	66	3	He	534.534	1.2177	79859.19	0.0023	0.002807
Zn	66	3	He	523.28	1.1921	81030.88	0.0023	0.002807
Zn	66	3	He	536.042	1.2211	81089.09	0.0023	0.002807
As	75	3	He	528.931	0.9749	63938.05	0.0018	0.001271
As	75	3	He	507.098	0.9347	63536.38	0.0018	0.001271
As	75	3	He	521.939	0.962	63885.87	0.0018	0.001271
Sr	88	3	He	105.946	0.8716	45425.61	0.0082	0.00114
Sr	88	3	He	106.817	0.8788	45876.86	0.0082	0.00114
Sr	88	3	He	104.479	0.8596	44714.08	0.0082	0.00114
Mo	98	3	He	52.364	0.929	48415.02	0.0177	0.001504
Mo	98	3	He	53.88	0.9558	49899.57	0.0177	0.001504
Mo	98	3	He	53.453	0.9483	49328.32	0.0177	0.001504
Ag	107	3	He	53.466	1.9674	102535.24	0.0368	0.001325
Ag	107	3	He	53.563	1.971	102896.06	0.0368	0.001325
Ag	107	3	He	53.108	1.9542	101658.69	0.0368	0.001325
Cd	111	3	He	54.471	0.2235	11648.35	0.0041	4.798E-05
Cd	111	3	He	52.799	0.2166	11310.12	0.0041	4.798E-05
Cd	111	3	He	53.944	0.2213	11514.28	0.0041	4.798E-05
Sn	120	3	He	106.385	1.35	70359.31	0.0126	0.01097
Sn	120	3	He	108.833	1.3808	72087.53	0.0126	0.01097
Sn	120	3	He	108.166	1.3725	71394.35	0.0126	0.01097
Sb	121	3	He	105.088	1.2662	65992.32	0.012	0.0003595
Sb	121	3	He	106.171	1.2793	66785.90	0.012	0.0003595
Sb	121	3	He	107.309	1.293	67261.08	0.012	0.0003595
Ba	137	3	He	566.555	2.2108	115221.31	0.0039	0.0003633
Ba	137	3	He	579.841	2.2627	118123.66	0.0039	0.0003633
Ba	137	3	He	580.416	2.2649	117819.59	0.0039	0.0003633
Tl	205	3	He	101.99	1.933	372561.64	0.0189	0.001334
Tl	205	3	He	103.727	1.9659	374280.93	0.0189	0.001334
Tl	205	3	He	106.117	2.0112	380229.37	0.0189	0.001334
Pb	208	3	He	53.389	1.3446	139370.52	0.0252	0.001497
Pb	208	3	He	54.163	1.3641	140410.13	0.0252	0.001497
Pb	208	3	He	53.721	1.353	137178.59	0.0252	0.001497
U	238	3	He	53.481	1.313	253063.82	0.0245	0.0001141
U	238	3	He	54.15	1.3294	253106.34	0.0245	0.0001141
U	238	3	He	54.511	1.3383	253014.06	0.0245	0.0001141
Sc	45	1	No Gas			1617365.91		
Sc	45	1	No Gas			1653348.41		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1643669.66		
Ge	72	1	No Gas			827719.52		
Ge	72	1	No Gas			837072.49		
Ge	72	1	No Gas			826517.64		
Sc	45	2	H2			131553.79		
Sc	45	2	H2			127804.85		
Sc	45	2	H2			129518.39		
Ge	72	2	H2			97686.06		
Ge	72	2	H2			94567.78		
Ge	72	2	H2			100794.31		
In	115	2	H2			241778.57		
In	115	2	H2			239953.79		
In	115	2	H2			243476.75		
Sc	45	3	He			39548.42		
Sc	45	3	He			38285.62		
Sc	45	3	He			38305.22		
Ge	72	3	He			65584.06		
Ge	72	3	He			67974.12		
Ge	72	3	He			66407.16		
In	115	3	He			52609.30		
In	115	3	He			52710.10		
In	115	3	He			52519.34		
Tb	159	3	He			192737.58		
Tb	159	3	He			190387.48		
Tb	159	3	He			189060.43		
Bi	209	3	He			142318.23		
Bi	209	3	He			140400.97		
Bi	209	3	He			143925.26		

Quantitation Report

Data File Name	291SMPL.d
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Acq Time	7/10/2025 8:42:32 PM
Sample Name	410-228647-F-1-D MSD
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

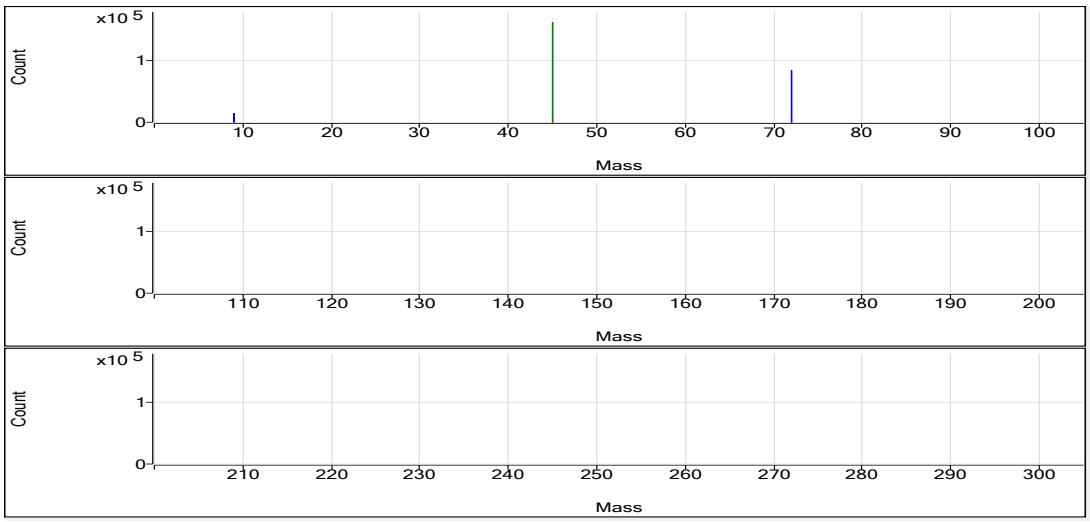
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	53.492	ppb	5.9	29021.53	0.0180	Pulse	0.5000	3
Se	78	72	H2	100.226	ppb	1.1	3797.34	0.0389	Pulse	1.5000	3
Na	23	45	He	10324.712	ppb	0.6	1038166.68	26.4868	Analog	0.1000	3
Mg	24	45	He	10298.748	ppb	1.0	489803.27	12.4967	Pulse	0.1000	3
Al	27	45	He	6445.087	ppb	0.5	95473.59	2.4358	Pulse	0.1000	3
K	39	45	He	7354.656	ppb	1.0	307034.89	7.8335	Pulse	0.5000	3
Ca	44	45	He	9463.414	ppb	1.7	19697.82	0.5026	Pulse	0.5000	3
Ti	47	45	He	554.245	ppb	4.2	8903.22	0.2271	Pulse	0.5000	3
V	51	45	He	531.571	ppb	0.8	367478.76	9.3756	Pulse	0.5000	3
Cr	52	45	He	535.582	ppb	1.0	458029.89	11.6859	Pulse	0.1000	3
Mn	55	45	He	575.693	ppb	1.3	206084.57	5.2579	Pulse	0.5000	3
Fe	57	45	He	6337.984	ppb	1.3	99540.50	2.5394	Pulse	0.1000	3
Co	59	45	He	525.206	ppb	1.2	850160.42	21.6910	Pulse	0.5000	3
Ni	60	45	He	529.909	ppb	0.9	244401.94	6.2356	Pulse	0.5000	3
Cu	63	72	He	528.995	ppb	1.4	692469.48	10.3627	Pulse	0.5000	3
Zn	66	72	He	531.577	ppb	1.4	80919.06	1.2109	Pulse	0.5000	3
As	75	72	He	515.850	ppb	1.4	63537.19	0.9508	Pulse	0.5000	3
Sr	88	115	He	105.977	ppb	2.6	45231.99	0.8719	Pulse	0.1000	3
Mo	98	115	He	51.440	ppb	0.6	47358.61	0.9126	Pulse	0.1000	3
Ag	107	115	He	52.570	ppb	1.9	100370.25	1.9345	Pulse	0.1000	3
Cd	111	115	He	54.346	ppb	3.4	11566.97	0.2230	Pulse	0.5000	3
Sn	120	115	He	106.704	ppb	3.1	70239.28	1.3540	Pulse	0.1000	3
Sb	121	115	He	104.866	ppb	1.7	65560.77	1.2636	Pulse	0.3000	3
Ba	137	115	He	585.907	ppb	2.5	118612.59	2.2863	Pulse	0.1000	3
Tl	205	159	He	103.013	ppb	0.3	372669.88	1.9524	Pulse	0.1000	3
Pb	208	159	He	52.999	ppb	0.6	254781.17	1.3348	Pulse	0.1000	3
U	238	159	He	54.258	ppb	0.9	254257.75	1.3321	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1609786.85	0.2	94.2	Analog	0.1000	3
No Gas	Ge	72	833882.17	0.4	96.5	Pulse	0.1000	3
H2	Sc	45	129481.28	1.3	96.9	Pulse	0.1000	3
H2	Ge	72	97548.35	1.5	98.5	Pulse	0.1000	3
H2	In	115	241257.79	0.8	94.0	Pulse	0.1000	3
He	Sc	45	39197.46	1.2	99.3	Pulse	0.1000	3
He	Ge	72	66832.56	1.6	98.1	Pulse	0.1000	3
He	In	115	51897.34	2.2	93.7	Pulse	0.1000	3
He	Tb	159	190883.37	0.9	93.2	Pulse	0.1000	3
He	Bi	209	141806.93	0.2	93.7	Pulse	0.1000	3

No Gas



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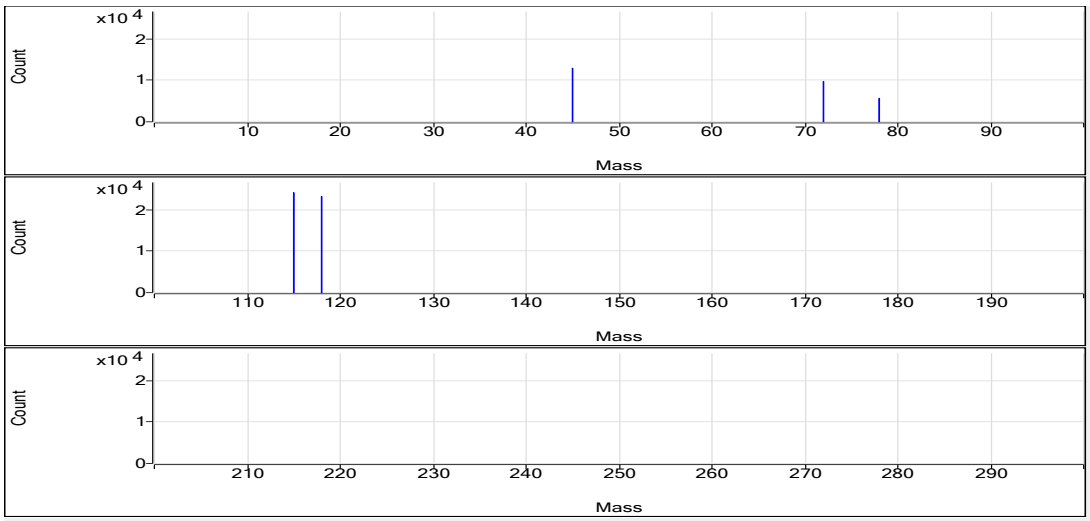
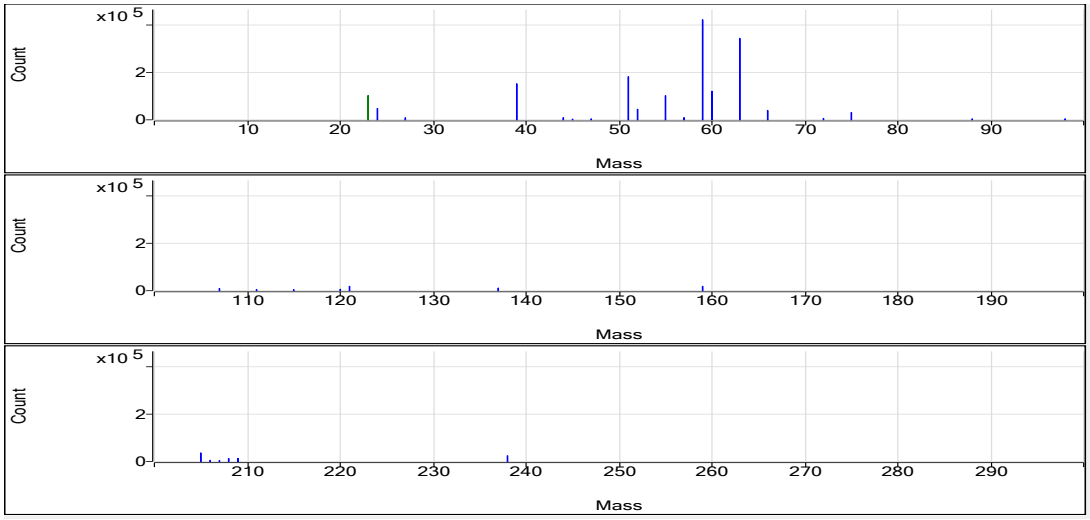


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	49.916	0.0168	27129.67	0.0003	2.616E-05
Be	9	1	No Gas	54.636	0.0184	29675.94	0.0003	2.616E-05
Be	9	1	No Gas	55.925	0.0188	30258.99	0.0003	2.616E-05
Se	78	2	H2	101.445	0.0394	3804.45	0.0004	6.3E-05
Se	78	2	H2	99.972	0.0388	3761.78	0.0004	6.3E-05
Se	78	2	H2	99.26	0.0386	3825.79	0.0004	6.3E-05
Na	23	3	He	10305.988	26.4402	1040364.05	0.0025	0.7502
Na	23	3	He	10398.536	26.6709	1031795.22	0.0025	0.7502
Na	23	3	He	10269.611	26.3495	1042340.77	0.0025	0.7502
Mg	24	3	He	10308.395	12.5084	492177.18	0.0012	0.02618
Mg	24	3	He	10395.198	12.6135	487967.49	0.0012	0.02618
Mg	24	3	He	10192.651	12.3682	489265.15	0.0012	0.02618
Al	27	3	He	6414.105	2.4241	95382.99	0.0004	0.005329
Al	27	3	He	6477.869	2.4481	94709.36	0.0004	0.005329
Al	27	3	He	6443.287	2.4351	96328.41	0.0004	0.005329
K	39	3	He	7376.931	7.8556	309101.13	0.001	0.5307
K	39	3	He	7410.858	7.8893	305206.88	0.001	0.5307
K	39	3	He	7276.178	7.7556	306796.66	0.001	0.5307
Ca	44	3	He	9375.457	0.498	19593.67	0.0001	0.004441
Ca	44	3	He	9644.436	0.5121	19811.96	0.0001	0.004441
Ca	44	3	He	9370.349	0.4977	19687.82	0.0001	0.004441
Ti	47	3	He	530.342	0.2174	8552.26	0.0004	0.0004559
Ti	47	3	He	556.001	0.2278	8814.41	0.0004	0.0004559
Ti	47	3	He	576.391	0.2362	9342.99	0.0004	0.0004559
V	51	3	He	529.187	9.3337	367260.53	0.0176	0.02609
V	51	3	He	536.252	9.4579	365892.06	0.0176	0.02609
V	51	3	He	529.272	9.3352	369283.69	0.0176	0.02609
Cr	52	3	He	530.501	11.5756	455473.59	0.0217	0.05061
Cr	52	3	He	541.497	11.8144	457056.52	0.0217	0.05061
Cr	52	3	He	534.748	11.6678	461559.56	0.0217	0.05061
Mn	55	3	He	567.521	5.1834	203955.80	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	581.92	5.3146	205603.50	0.0091	0.01071
Mn	55	3	He	577.638	5.2756	208694.41	0.0091	0.01071
Fe	57	3	He	6252.431	2.5053	98577.44	0.0004	0.008452
Fe	57	3	He	6352.618	2.5453	98467.65	0.0004	0.008452
Fe	57	3	He	6408.902	2.5678	101576.42	0.0004	0.008452
Co	59	3	He	520.922	21.5142	846536.06	0.0413	0.006013
Co	59	3	He	532.291	21.9836	850460.81	0.0413	0.006013
Co	59	3	He	522.404	21.5754	853484.38	0.0413	0.006013
Ni	60	3	He	528.287	6.2165	244606.36	0.0117	0.01172
Ni	60	3	He	535.05	6.2959	243566.11	0.0117	0.01172
Ni	60	3	He	526.39	6.1942	245033.34	0.0117	0.01172
Cu	63	3	He	532.342	10.4281	688106.69	0.0196	0.01443
Cu	63	3	He	534.247	10.4654	696135.94	0.0196	0.01443
Cu	63	3	He	520.396	10.1945	693165.81	0.0196	0.01443
Zn	66	3	He	539.021	1.2279	81021.02	0.0023	0.002807
Zn	66	3	He	531.573	1.2109	80548.51	0.0023	0.002807
Zn	66	3	He	524.138	1.194	81187.66	0.0023	0.002807
As	75	3	He	519.525	0.9576	63187.06	0.0018	0.001271
As	75	3	He	520.563	0.9595	63823.74	0.0018	0.001271
As	75	3	He	507.461	0.9354	63600.76	0.0018	0.001271
Sr	88	3	He	106.465	0.8759	44854.73	0.0082	0.00114
Sr	88	3	He	103.019	0.8476	45104.79	0.0082	0.00114
Sr	88	3	He	108.448	0.8922	45736.44	0.0082	0.00114
Mo	98	3	He	51.776	0.9186	47040.96	0.0177	0.001504
Mo	98	3	He	51.173	0.9079	48314.83	0.0177	0.001504
Mo	98	3	He	51.369	0.9114	46720.05	0.0177	0.001504
Ag	107	3	He	52.541	1.9334	99011.83	0.0368	0.001325
Ag	107	3	He	51.593	1.8985	101034.09	0.0368	0.001325
Ag	107	3	He	53.576	1.9715	101064.83	0.0368	0.001325
Cd	111	3	He	55.568	0.228	11676.38	0.0041	4.798E-05
Cd	111	3	He	52.19	0.2141	11396.19	0.0041	4.798E-05
Cd	111	3	He	55.282	0.2268	11628.34	0.0041	4.798E-05
Sn	120	3	He	109.047	1.3835	70852.04	0.0126	0.01097
Sn	120	3	He	102.894	1.3061	69505.97	0.0126	0.01097
Sn	120	3	He	108.17	1.3725	70359.82	0.0126	0.01097
Sb	121	3	He	105.189	1.2675	64907.95	0.012	0.0003595
Sb	121	3	He	102.962	1.2406	66022.74	0.012	0.0003595
Sb	121	3	He	106.446	1.2826	65751.61	0.012	0.0003595
Ba	137	3	He	590.842	2.3056	118071.74	0.0039	0.0003633
Ba	137	3	He	569.494	2.2223	118263.50	0.0039	0.0003633
Ba	137	3	He	597.384	2.3311	119502.52	0.0039	0.0003633
Tl	205	3	He	102.65	1.9455	374730.70	0.0189	0.001334
Tl	205	3	He	103.089	1.9538	369565.97	0.0189	0.001334
Tl	205	3	He	103.3	1.9578	373712.96	0.0189	0.001334
Pb	208	3	He	52.617	1.3252	137653.42	0.0252	0.001497
Pb	208	3	He	53.239	1.3408	136645.23	0.0252	0.001497
Pb	208	3	He	53.14	1.3384	138542.32	0.0252	0.001497
U	238	3	He	53.735	1.3192	254104.74	0.0245	0.0001141
U	238	3	He	54.752	1.3442	254256.73	0.0245	0.0001141
U	238	3	He	54.288	1.3328	254411.77	0.0245	0.0001141
Sc	45	1	No Gas			1612395.13		
Sc	45	1	No Gas			1611573.41		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1605392.01		
Ge	72	1	No Gas			833047.25		
Ge	72	1	No Gas			837671.55		
Ge	72	1	No Gas			830927.72		
Sc	45	2	H2			129296.48		
Sc	45	2	H2			127915.92		
Sc	45	2	H2			131231.44		
Ge	72	2	H2			96549.09		
Ge	72	2	H2			96871.06		
Ge	72	2	H2			99224.89		
In	115	2	H2			241007.26		
In	115	2	H2			239361.83		
In	115	2	H2			243404.29		
Sc	45	3	He			39347.86		
Sc	45	3	He			38686.23		
Sc	45	3	He			39558.29		
Ge	72	3	He			65985.54		
Ge	72	3	He			66517.78		
Ge	72	3	He			67994.37		
In	115	3	He			51707.05		
In	115	3	He			53703.35		
In	115	3	He			51756.65		
Tb	159	3	He			192615.11		
Tb	159	3	He			189151.75		
Tb	159	3	He			190883.26		
Bi	209	3	He			141934.49		
Bi	209	3	He			141459.70		
Bi	209	3	He			142026.61		

Quantitation Report

Data File Name	292SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 8:44:45 PM
Sample Name	180-192322-H-3-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

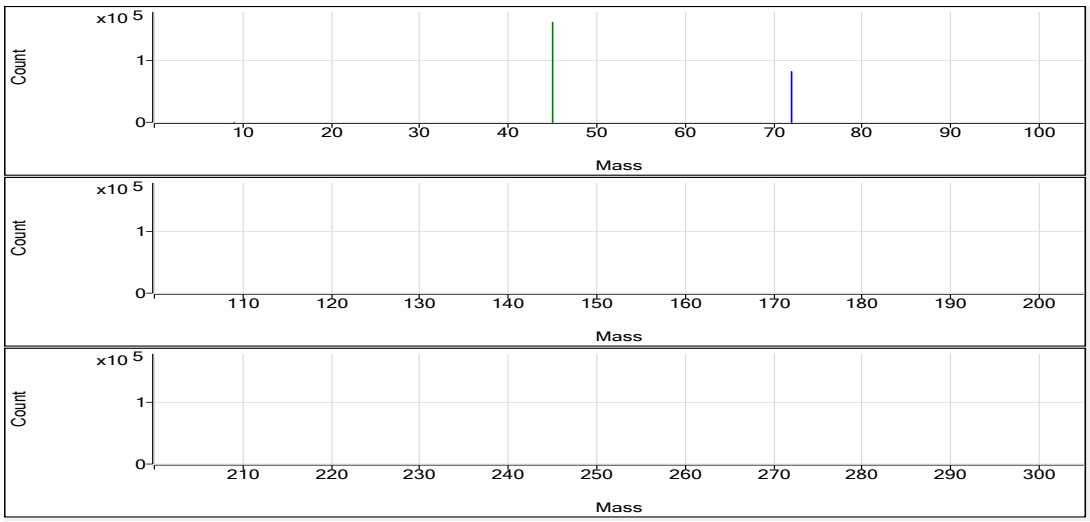
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.175	ppb	9.3	138.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.171	ppb	44.9	12.22	0.0001	Pulse	1.5000	3
Na	23	45	He	-11.647	ppb	N/A	27783.67	0.7212	Pulse	0.1000	3
Mg	24	45	He	8.180	ppb	38.8	1390.11	0.0361	Pulse	0.1000	3
Al	27	45	He	9.399	ppb	72.6	340.01	0.0089	Pulse	0.1000	3
K	39	45	He	34.541	ppb	305.2	21684.50	0.5650	Pulse	0.5000	3
Ca	44	45	He	72.285	ppb	24.2	318.01	0.0082	Pulse	0.5000	3
Ti	47	45	He	0.202	ppb	118.8	20.67	0.0005	Pulse	0.5000	3
V	51	45	He	0.420	ppb	36.9	1288.06	0.0335	Pulse	0.5000	3
Cr	52	45	He	0.144	ppb	151.8	2066.88	0.0537	Pulse	0.1000	3
Mn	55	45	He	0.519	ppb	29.5	594.01	0.0154	Pulse	0.5000	3
Fe	57	45	He	2.258	ppb	63.5	360.01	0.0094	Pulse	0.1000	3
Co	59	45	He	0.557	ppb	16.8	1114.04	0.0290	Pulse	0.5000	3
Ni	60	45	He	0.318	ppb	42.5	594.01	0.0154	Pulse	0.5000	3
Cu	63	72	He	0.426	ppb	12.9	1503.41	0.0228	Pulse	0.5000	3
Zn	66	72	He	7.051	ppb	5.4	1243.39	0.0188	Pulse	0.5000	3
As	75	72	He	2.595	ppb	3.6	399.34	0.0060	Pulse	0.5000	3
Sr	88	115	He	0.139	ppb	40.4	120.00	0.0023	Pulse	0.1000	3
Mo	98	115	He	0.162	ppb	39.5	230.01	0.0044	Pulse	0.1000	3
Ag	107	115	He	0.021	ppb	164.1	110.00	0.0021	Pulse	0.1000	3
Cd	111	115	He	0.035	ppb	69.8	10.00	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.294	ppb	53.0	770.04	0.0147	Pulse	0.1000	3
Sb	121	115	He	0.229	ppb	21.0	163.34	0.0031	Pulse	0.3000	3
Ba	137	115	He	0.967	ppb	32.4	216.68	0.0041	Pulse	0.1000	3
Tl	205	159	He	0.306	ppb	7.2	1350.11	0.0071	Pulse	0.1000	3
Pb	208	159	He	0.062	ppb	22.5	580.03	0.0031	Pulse	0.1000	3
U	238	159	He	0.091	ppb	22.1	446.69	0.0024	Pulse	0.1000	3

ISTD Table:

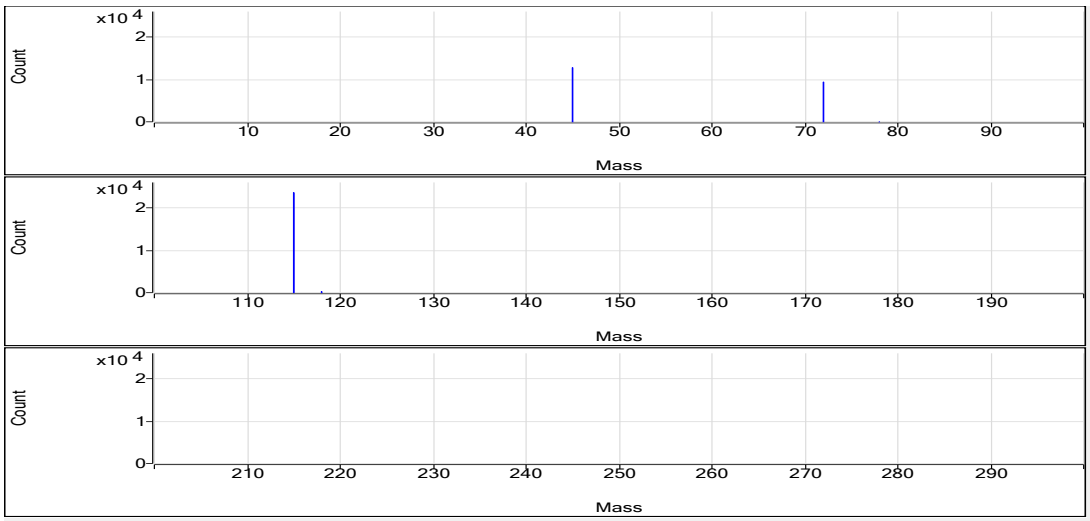
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1621477.01	1.1	94.9	Analog	0.1000	3
No Gas	Ge	72	821222.35	0.7	95.1	Pulse	0.1000	3
H2	Sc	45	128430.04	0.5	96.1	Pulse	0.1000	3
H2	Ge	72	94470.15	1.0	95.4	Pulse	0.1000	3
H2	In	115	237180.30	0.5	92.4	Pulse	0.1000	3
He	Sc	45	38539.60	3.3	97.6	Pulse	0.1000	3
He	Ge	72	66029.45	0.8	96.9	Pulse	0.1000	3
He	In	115	52537.61	1.8	94.8	Pulse	0.1000	3
He	Tb	159	189631.24	1.0	92.6	Pulse	0.1000	3
He	Bi	209	141073.65	1.2	93.3	Pulse	0.1000	3

No Gas

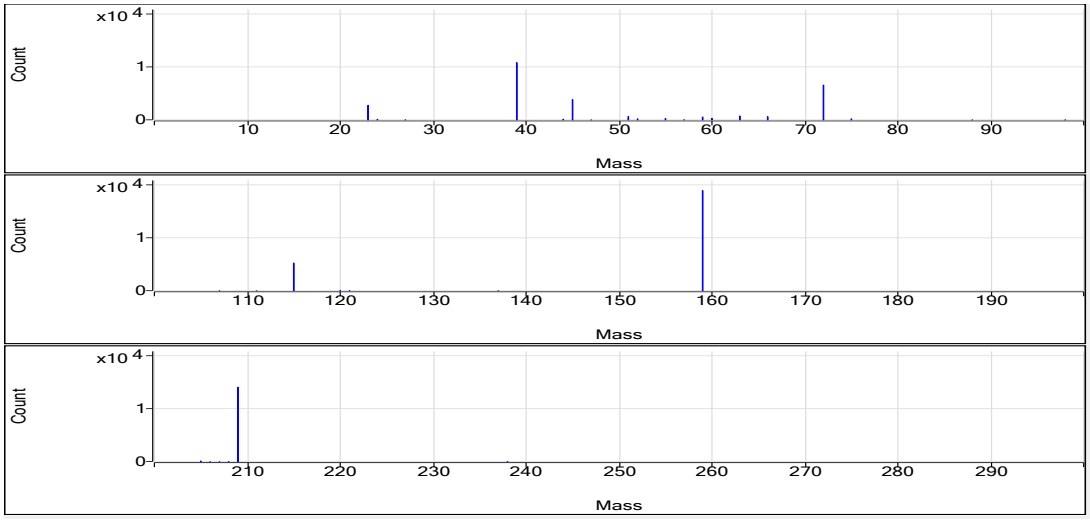


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.192	0.0001	148.00	0.0003	2.616E-05
Be	9	1	No Gas	0.173	0.0001	138.00	0.0003	2.616E-05
Be	9	1	No Gas	0.16	0.0001	128.00	0.0003	2.616E-05
Se	78	2	H2	0.112	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	0.258	0.0002	15.33	0.0004	6.3E-05
Se	78	2	H2	0.143	0.0001	11.33	0.0004	6.3E-05
Na	23	3	He	-9.978	0.7253	26962.27	0.0025	0.7502
Na	23	3	He	-4.734	0.7384	28595.04	0.0025	0.7502
Na	23	3	He	-20.229	0.6998	27793.71	0.0025	0.7502
Mg	24	3	He	7.483	0.0352	1310.10	0.0012	0.02618
Mg	24	3	He	11.648	0.0403	1560.13	0.0012	0.02618
Mg	24	3	He	5.409	0.0327	1300.09	0.0012	0.02618
Al	27	3	He	17.257	0.0118	440.02	0.0004	0.005329
Al	27	3	He	5.041	0.0072	280.01	0.0004	0.005329
Al	27	3	He	5.897	0.0076	300.01	0.0004	0.005329
K	39	3	He	151.797	0.6814	25329.52	0.001	0.5307
K	39	3	He	4.17	0.5348	20711.02	0.001	0.5307
K	39	3	He	-52.344	0.4787	19012.95	0.001	0.5307
Ca	44	3	He	59.75	0.0076	282.00	0.0001	0.004441
Ca	44	3	He	92.238	0.0093	360.01	0.0001	0.004441
Ca	44	3	He	64.867	0.0079	312.01	0.0001	0.004441
Ti	47	3	He	0.464	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	0.148	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	-0.007	0.0005	18.00	0.0004	0.0004559
V	51	3	He	0.569	0.0361	1342.06	0.0176	0.02609
V	51	3	He	0.431	0.0337	1304.06	0.0176	0.02609
V	51	3	He	0.26	0.0307	1218.05	0.0176	0.02609
Cr	52	3	He	0.383	0.0589	2190.25	0.0217	0.05061
Cr	52	3	He	0.095	0.0527	2040.20	0.0217	0.05061
Cr	52	3	He	-0.046	0.0496	1970.19	0.0217	0.05061
Mn	55	3	He	0.673	0.0168	626.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.519	0.0154	598.01	0.0091	0.01071
Mn	55	3	He	0.366	0.014	558.01	0.0091	0.01071
Fe	57	3	He	3.759	0.01	370.01	0.0004	0.008452
Fe	57	3	He	2.114	0.0093	360.02	0.0004	0.008452
Fe	57	3	He	0.901	0.0088	350.01	0.0004	0.008452
Co	59	3	He	0.657	0.0331	1232.05	0.0413	0.006013
Co	59	3	He	0.541	0.0284	1098.04	0.0413	0.006013
Co	59	3	He	0.471	0.0255	1012.04	0.0413	0.006013
Ni	60	3	He	0.468	0.0172	640.02	0.0117	0.01172
Ni	60	3	He	0.278	0.015	580.01	0.0117	0.01172
Ni	60	3	He	0.207	0.0141	562.01	0.0117	0.01172
Cu	63	3	He	0.48	0.0238	1570.09	0.0196	0.01443
Cu	63	3	He	0.429	0.0228	1496.08	0.0196	0.01443
Cu	63	3	He	0.37	0.0217	1444.07	0.0196	0.01443
Zn	66	3	He	6.695	0.018	1188.05	0.0023	0.002807
Zn	66	3	He	7.45	0.0197	1294.06	0.0023	0.002807
Zn	66	3	He	7.008	0.0187	1248.06	0.0023	0.002807
As	75	3	He	2.54	0.0059	392.01	0.0018	0.001271
As	75	3	He	2.542	0.0059	390.01	0.0018	0.001271
As	75	3	He	2.702	0.0062	416.01	0.0018	0.001271
Sr	88	3	He	0.095	0.0019	100.00	0.0082	0.00114
Sr	88	3	He	0.119	0.0021	110.00	0.0082	0.00114
Sr	88	3	He	0.202	0.0028	150.01	0.0082	0.00114
Mo	98	3	He	0.208	0.0052	270.01	0.0177	0.001504
Mo	98	3	He	0.089	0.0031	160.01	0.0177	0.001504
Mo	98	3	He	0.189	0.0048	260.02	0.0177	0.001504
Ag	107	3	He	0.058	0.0035	180.01	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	0.015	0.0019	100.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.045	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.052	0.0003	14.00	0.0041	4.798E-05
Sn	120	3	He	0.472	0.0169	880.06	0.0126	0.01097
Sn	120	3	He	0.23	0.0139	720.03	0.0126	0.01097
Sn	120	3	He	0.181	0.0132	710.04	0.0126	0.01097
Sb	121	3	He	0.284	0.0038	196.67	0.012	0.0003595
Sb	121	3	He	0.205	0.0028	146.67	0.012	0.0003595
Sb	121	3	He	0.197	0.0027	146.67	0.012	0.0003595
Ba	137	3	He	1.237	0.0052	270.01	0.0039	0.0003633
Ba	137	3	He	1.042	0.0044	230.01	0.0039	0.0003633
Ba	137	3	He	0.624	0.0028	150.01	0.0039	0.0003633
Tl	205	3	He	0.326	0.0075	1410.11	0.0189	0.001334
Tl	205	3	He	0.308	0.0072	1370.11	0.0189	0.001334
Tl	205	3	He	0.282	0.0067	1270.10	0.0189	0.001334
Pb	208	3	He	0.078	0.0035	400.02	0.0252	0.001497
Pb	208	3	He	0.053	0.0028	370.02	0.0252	0.001497
Pb	208	3	He	0.056	0.0029	300.01	0.0252	0.001497
U	238	3	He	0.115	0.0029	550.03	0.0245	0.0001141
U	238	3	He	0.081	0.0021	400.02	0.0245	0.0001141
U	238	3	He	0.079	0.0021	390.02	0.0245	0.0001141
Sc	45	1	No Gas			1628744.98		
Sc	45	1	No Gas			1634035.44		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1601650.60		
Ge	72	1	No Gas			820848.03		
Ge	72	1	No Gas			826883.03		
Ge	72	1	No Gas			815936.00		
Sc	45	2	H2			129115.51		
Sc	45	2	H2			127907.03		
Sc	45	2	H2			128267.58		
Ge	72	2	H2			93842.65		
Ge	72	2	H2			93974.34		
Ge	72	2	H2			95593.47		
In	115	2	H2			238560.00		
In	115	2	H2			236651.15		
In	115	2	H2			236329.76		
Sc	45	3	He			37173.33		
Sc	45	3	He			38726.47		
Sc	45	3	He			39718.99		
Ge	72	3	He			65915.44		
Ge	72	3	He			65554.35		
Ge	72	3	He			66618.57		
In	115	3	He			52048.13		
In	115	3	He			51947.66		
In	115	3	He			53633.22		
Tb	159	3	He			187613.51		
Tb	159	3	He			191227.87		
Tb	159	3	He			190052.34		
Bi	209	3	He			139269.84		
Bi	209	3	He			142440.95		
Bi	209	3	He			141510.17		

Quantitation Report

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Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

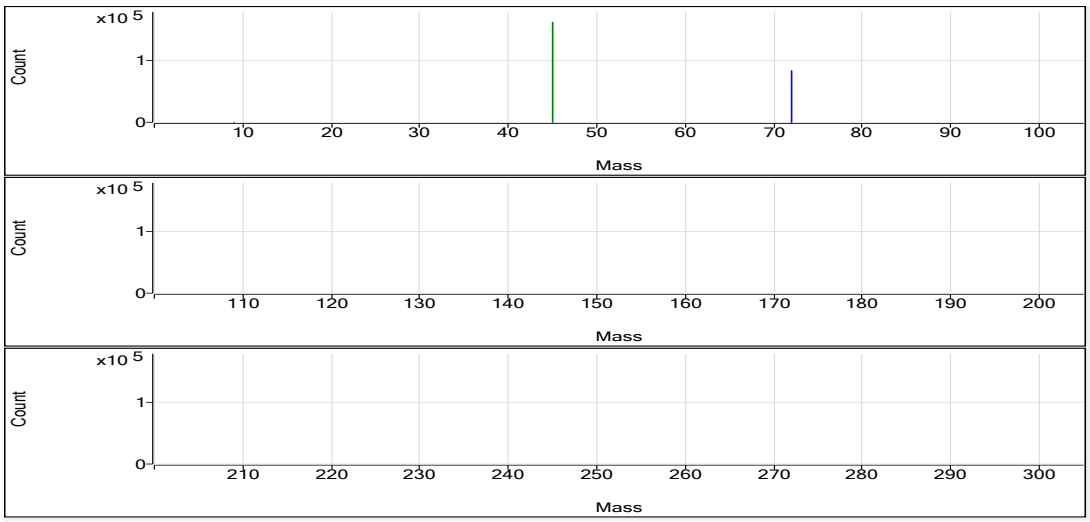
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.014	ppb	107.2	50.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	60.822	ppb	2.7	2325.51	0.0237	Pulse	1.5000	3
Na	23	45	He	608832.815	ppb	1.5	58183094.13	1,518.4023	Analog	0.1000	3
Mg	24	45	He	1.102	ppb	197.3	1053.40	0.0275	Pulse	0.1000	3
Al	27	45	He	7859.510	ppb	2.5	113773.88	2.9692	Pulse	0.1000	3
K	39	45	He	120289.216	ppb	1.5	4597174.50	119.9721	Analog	0.5000	3
Ca	44	45	He	16060.102	ppb	2.3	32565.42	0.8498	Pulse	0.5000	3
Ti	47	45	He	-0.182	ppb	N/A	14.67	0.0004	Pulse	0.5000	3
V	51	45	He	251.871	ppb	1.5	170752.55	4.4561	Pulse	0.5000	3
Cr	52	45	He	5.972	ppb	8.5	6908.36	0.1804	Pulse	0.1000	3
Mn	55	45	He	0.208	ppb	44.9	482.68	0.0126	Pulse	0.5000	3
Fe	57	45	He	-5.714	ppb	N/A	236.68	0.0062	Pulse	0.1000	3
Co	59	45	He	0.111	ppb	19.2	406.01	0.0106	Pulse	0.5000	3
Ni	60	45	He	0.244	ppb	57.5	558.01	0.0146	Pulse	0.5000	3
Cu	63	72	He	3.573	ppb	2.4	5723.70	0.0843	Pulse	0.5000	3
Zn	66	72	He	11.123	ppb	0.9	1906.79	0.0281	Pulse	0.5000	3
As	75	72	He	136.890	ppb	0.9	17192.56	0.2533	Pulse	0.5000	3
Sr	88	115	He	123.325	ppb	2.9	51868.64	1.0144	Pulse	0.1000	3
Mo	98	115	He	767.310	ppb	3.5	694695.17	13.5921	Pulse	0.1000	3
Ag	107	115	He	0.812	ppb	7.1	1593.47	0.0312	Pulse	0.1000	3
Cd	111	115	He	0.071	ppb	32.6	17.33	0.0003	Pulse	0.5000	3
Sn	120	115	He	9.634	ppb	3.2	6758.36	0.1322	Pulse	0.1000	3
Sb	121	115	He	158.556	ppb	3.1	97643.89	1.9103	Pulse	0.3000	3
Ba	137	115	He	5.828	ppb	7.9	1180.08	0.0231	Pulse	0.1000	3
Tl	205	159	He	0.049	ppb	3.5	426.69	0.0023	Pulse	0.1000	3
Pb	208	159	He	21.509	ppb	1.0	102424.61	0.5426	Pulse	0.1000	3
U	238	159	He	0.076	ppb	1.6	373.35	0.0020	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1613494.40	0.9	94.4	Analog	0.1000	3
No Gas	Ge	72	830692.93	0.8	96.2	Pulse	0.1000	3
H2	Sc	45	129266.08	1.3	96.7	Pulse	0.1000	3
H2	Ge	72	98333.59	1.3	99.3	Pulse	0.1000	3
H2	In	115	238351.55	0.8	92.9	Pulse	0.1000	3
He	Sc	45	38325.43	1.8	97.1	Pulse	0.1000	3
He	Ge	72	67887.04	1.3	99.7	Pulse	0.1000	3
He	In	115	51140.81	2.7	92.3	Pulse	0.1000	3
He	Tb	159	188765.91	0.2	92.2	Pulse	0.1000	3
He	Bi	209	140959.36	0.5	93.2	Pulse	0.1000	3

No Gas



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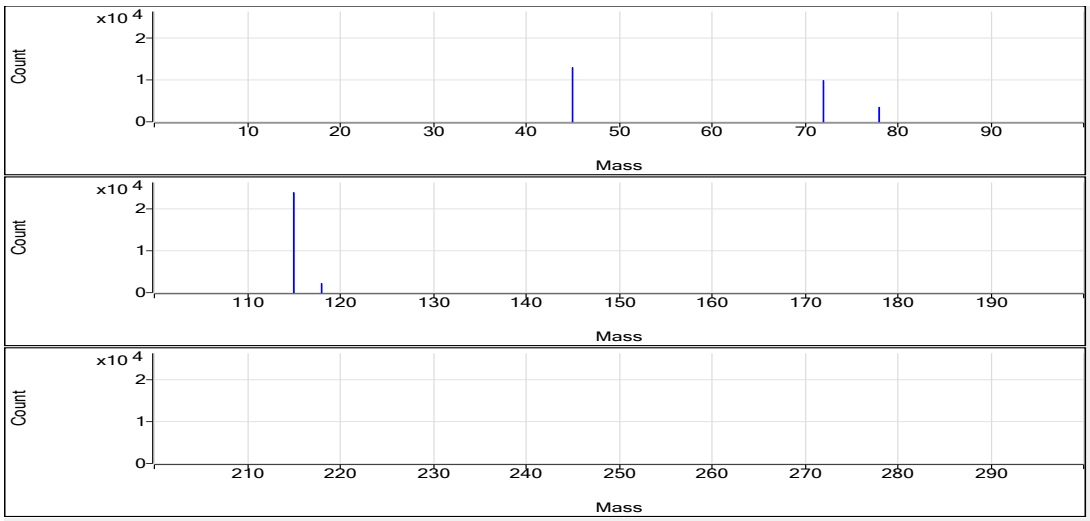
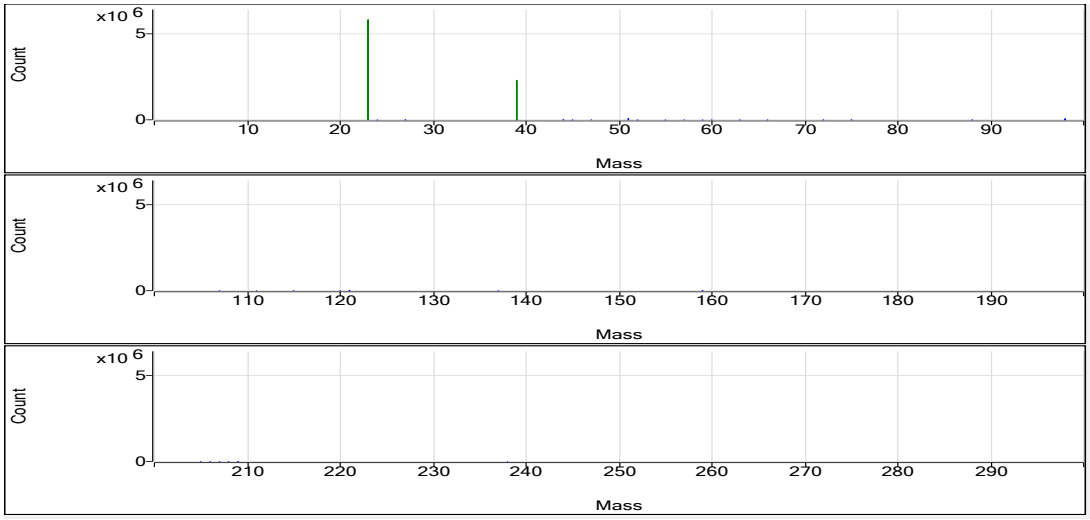


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.003	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.008	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	0.032	0	60.00	0.0003	2.616E-05
Se	78	2	H2	59.188	0.023	2286.17	0.0004	6.3E-05
Se	78	2	H2	60.864	0.0237	2292.83	0.0004	6.3E-05
Se	78	2	H2	62.415	0.0243	2397.52	0.0004	6.3E-05
Na	23	3	He	611732.012	1525.6292	57858634.14	0.0025	0.7502
Na	23	3	He	616264.423	1536.9273	58287429.13	0.0025	0.7502
Na	23	3	He	598502.01	1492.6505	58403219.13	0.0025	0.7502
Mg	24	3	He	2.769	0.0295	1120.08	0.0012	0.02618
Mg	24	3	He	1.897	0.0285	1080.07	0.0012	0.02618
Mg	24	3	He	-1.359	0.0245	960.06	0.0012	0.02618
Al	27	3	He	7772.598	2.9364	111360.77	0.0004	0.005329
Al	27	3	He	8081.667	3.0529	115781.51	0.0004	0.005329
Al	27	3	He	7724.264	2.9182	114179.35	0.0004	0.005329
K	39	3	He	121186.163	120.8627	4583651.50	0.001	0.5307
K	39	3	He	121421.552	121.0965	4592541.00	0.001	0.5307
K	39	3	He	118259.935	117.9571	4615331.00	0.001	0.5307
Ca	44	3	He	15869.297	0.8398	31848.67	0.0001	0.004441
Ca	44	3	He	16484.551	0.8722	33077.10	0.0001	0.004441
Ca	44	3	He	15826.459	0.8375	32770.50	0.0001	0.004441
Ti	47	3	He	-0.47	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.212	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	0.135	0.0005	20.00	0.0004	0.0004559
V	51	3	He	252.927	4.4747	169699.78	0.0176	0.02609
V	51	3	He	255.103	4.513	171152.70	0.0176	0.02609
V	51	3	He	247.584	4.3807	171405.16	0.0176	0.02609
Cr	52	3	He	5.841	0.1775	6731.62	0.0217	0.05061
Cr	52	3	He	6.533	0.1925	7301.84	0.0217	0.05061
Cr	52	3	He	5.543	0.171	6691.63	0.0217	0.05061
Mn	55	3	He	0.295	0.0134	508.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.219	0.0127	482.01	0.0091	0.01071
Mn	55	3	He	0.109	0.0117	458.01	0.0091	0.01071
Fe	57	3	He	-4.658	0.0066	250.01	0.0004	0.008452
Fe	57	3	He	-7.959	0.0053	200.01	0.0004	0.008452
Fe	57	3	He	-4.525	0.0066	260.01	0.0004	0.008452
Co	59	3	He	0.128	0.0113	428.01	0.0413	0.006013
Co	59	3	He	0.119	0.0109	414.01	0.0413	0.006013
Co	59	3	He	0.087	0.0096	376.01	0.0413	0.006013
Ni	60	3	He	0.354	0.0159	602.02	0.0117	0.01172
Ni	60	3	He	0.291	0.0151	574.01	0.0117	0.01172
Ni	60	3	He	0.086	0.0127	498.01	0.0117	0.01172
Cu	63	3	He	3.667	0.0862	5783.06	0.0196	0.01443
Cu	63	3	He	3.545	0.0838	5675.01	0.0196	0.01443
Cu	63	3	He	3.506	0.083	5713.03	0.0196	0.01443
Zn	66	3	He	11.013	0.0278	1868.12	0.0023	0.002807
Zn	66	3	He	11.186	0.0282	1912.12	0.0023	0.002807
Zn	66	3	He	11.169	0.0282	1940.12	0.0023	0.002807
As	75	3	He	137.774	0.2549	17105.13	0.0018	0.001271
As	75	3	He	135.459	0.2506	16975.00	0.0018	0.001271
As	75	3	He	137.438	0.2543	17497.55	0.0018	0.001271
Sr	88	3	He	119.273	0.9811	50801.74	0.0082	0.00114
Sr	88	3	He	125.108	1.0291	51002.46	0.0082	0.00114
Sr	88	3	He	125.594	1.033	53801.72	0.0082	0.00114
Mo	98	3	He	748.2	13.2536	686268.97	0.0177	0.001504
Mo	98	3	He	797.645	14.1294	700286.01	0.0177	0.001504
Mo	98	3	He	756.086	13.3933	697530.54	0.0177	0.001504
Ag	107	3	He	0.762	0.0294	1520.13	0.0368	0.001325
Ag	107	3	He	0.875	0.0335	1660.14	0.0368	0.001325
Ag	107	3	He	0.799	0.0307	1600.14	0.0368	0.001325
Cd	111	3	He	0.082	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.087	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.044	0.0002	12.00	0.0041	4.798E-05
Sn	120	3	He	9.534	0.131	6781.67	0.0126	0.01097
Sn	120	3	He	9.984	0.1366	6771.71	0.0126	0.01097
Sn	120	3	He	9.383	0.1291	6721.69	0.0126	0.01097
Sb	121	3	He	154.941	1.8668	96660.94	0.012	0.0003595
Sb	121	3	He	164.066	1.9767	97969.42	0.012	0.0003595
Sb	121	3	He	156.661	1.8875	98301.30	0.012	0.0003595
Ba	137	3	He	5.946	0.0236	1220.10	0.0039	0.0003633
Ba	137	3	He	6.216	0.0246	1220.08	0.0039	0.0003633
Ba	137	3	He	5.321	0.0211	1100.07	0.0039	0.0003633
Tl	205	3	He	0.047	0.0022	420.02	0.0189	0.001334
Tl	205	3	He	0.05	0.0023	430.02	0.0189	0.001334
Tl	205	3	He	0.05	0.0023	430.02	0.0189	0.001334
Pb	208	3	He	21.375	0.5392	54793.46	0.0252	0.001497
Pb	208	3	He	21.747	0.5486	55647.12	0.0252	0.001497
Pb	208	3	He	21.406	0.54	54853.79	0.0252	0.001497
U	238	3	He	0.077	0.002	380.02	0.0245	0.0001141
U	238	3	He	0.075	0.002	370.02	0.0245	0.0001141
U	238	3	He	0.075	0.002	370.02	0.0245	0.0001141
Sc	45	1	No Gas			1613443.57		
Sc	45	1	No Gas			1598922.94		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1628116.69		
Ge	72	1	No Gas			824487.10		
Ge	72	1	No Gas			830620.61		
Ge	72	1	No Gas			836971.08		
Sc	45	2	H2			130505.28		
Sc	45	2	H2			127331.27		
Sc	45	2	H2			129961.68		
Ge	72	2	H2			99326.31		
Ge	72	2	H2			96880.91		
Ge	72	2	H2			98793.56		
In	115	2	H2			236621.99		
In	115	2	H2			238196.21		
In	115	2	H2			240236.46		
Sc	45	3	He			37924.44		
Sc	45	3	He			37924.65		
Sc	45	3	He			39127.19		
Ge	72	3	He			67110.86		
Ge	72	3	He			67732.84		
Ge	72	3	He			68817.42		
In	115	3	He			51827.13		
In	115	3	He			49609.68		
In	115	3	He			52127.55		
Tb	159	3	He			188887.28		
Tb	159	3	He			188351.34		
Tb	159	3	He			189059.10		
Bi	209	3	He			141491.93		
Bi	209	3	He			140228.32		
Bi	209	3	He			141157.83		

Quantitation Report

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Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

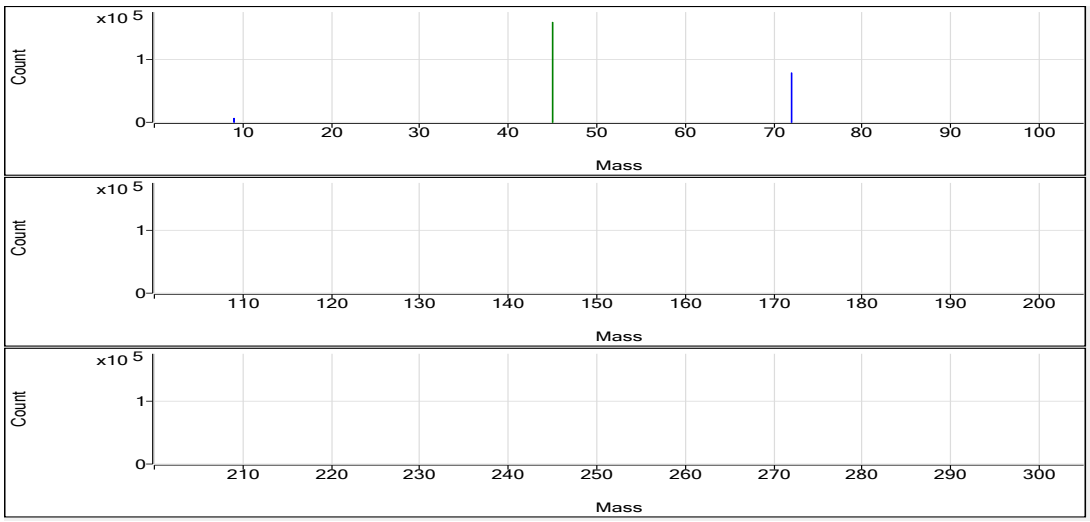
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.781	ppb	6.9	13371.99	0.0084	Pulse	0.5000	3
Se	78	72	H2	24.601	ppb	3.2	908.47	0.0096	Pulse	1.5000	3
Na	23	45	He	2644.242	ppb	1.8	276612.26	7.3416	Pulse	0.1000	3
Mg	24	45	He	2596.850	ppb	1.1	119472.27	3.1706	Pulse	0.1000	3
Al	27	45	He	2646.490	ppb	1.3	37806.77	1.0033	Pulse	0.1000	3
K	39	45	He	2664.563	ppb	3.4	119674.51	3.1764	Pulse	0.5000	3
Ca	44	45	He	2573.837	ppb	2.2	5272.20	0.1399	Pulse	0.5000	3
Ti	47	45	He	2632.195	ppb	1.1	40577.82	1.0769	Pulse	0.5000	3
V	51	45	He	261.405	ppb	0.7	174222.41	4.6238	Pulse	0.5000	3
Cr	52	45	He	261.258	ppb	0.5	215769.28	5.7263	Pulse	0.1000	3
Mn	55	45	He	262.495	ppb	0.6	90554.08	2.4032	Pulse	0.5000	3
Fe	57	45	He	2636.359	ppb	1.5	39986.61	1.0612	Pulse	0.1000	3
Co	59	45	He	260.072	ppb	0.8	404826.51	10.7440	Pulse	0.5000	3
Ni	60	45	He	260.349	ppb	0.7	115658.86	3.0695	Pulse	0.5000	3
Cu	63	72	He	258.732	ppb	2.4	320899.38	5.0758	Pulse	0.5000	3
Zn	66	72	He	260.052	ppb	2.5	37543.37	0.5938	Pulse	0.5000	3
As	75	72	He	256.333	ppb	3.0	29908.42	0.4731	Pulse	0.5000	3
Sr	88	115	He	25.257	ppb	4.7	10810.69	0.2087	Pulse	0.1000	3
Mo	98	115	He	25.578	ppb	2.6	23558.24	0.4545	Pulse	0.1000	3
Ag	107	115	He	25.407	ppb	2.9	48488.96	0.9356	Pulse	0.1000	3
Cd	111	115	He	25.812	ppb	3.4	5490.32	0.1059	Pulse	0.5000	3
Sn	120	115	He	25.073	ppb	4.3	16929.70	0.3266	Pulse	0.1000	3
Sb	121	115	He	25.537	ppb	3.1	15960.51	0.3080	Pulse	0.3000	3
Ba	137	115	He	249.246	ppb	2.6	50420.12	0.9728	Pulse	0.1000	3
Tl	205	159	He	24.875	ppb	1.6	88735.77	0.4725	Pulse	0.1000	3
Pb	208	159	He	25.326	ppb	2.3	119940.72	0.6386	Pulse	0.1000	3
U	238	159	He	25.604	ppb	1.6	118071.37	0.6287	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1598708.88	0.6	93.6	Analog	0.1000	3
No Gas	Ge	72	790549.60	1.2	91.5	Pulse	0.1000	3
H2	Sc	45	129356.84	0.6	96.8	Pulse	0.1000	3
H2	Ge	72	94584.47	0.6	95.5	Pulse	0.1000	3
H2	In	115	239992.65	0.6	93.5	Pulse	0.1000	3
He	Sc	45	37680.70	0.7	95.5	Pulse	0.1000	3
He	Ge	72	63248.78	2.6	92.9	Pulse	0.1000	3
He	In	115	51852.18	2.6	93.6	Pulse	0.1000	3
He	Tb	159	187830.18	0.9	91.7	Pulse	0.1000	3
He	Bi	209	138781.01	1.3	91.7	Pulse	0.1000	3

No Gas



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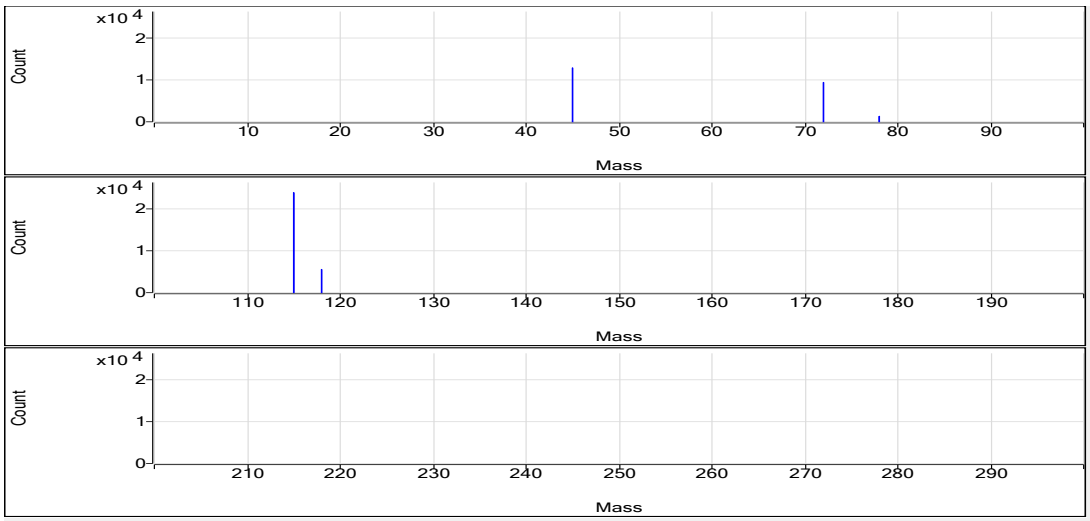
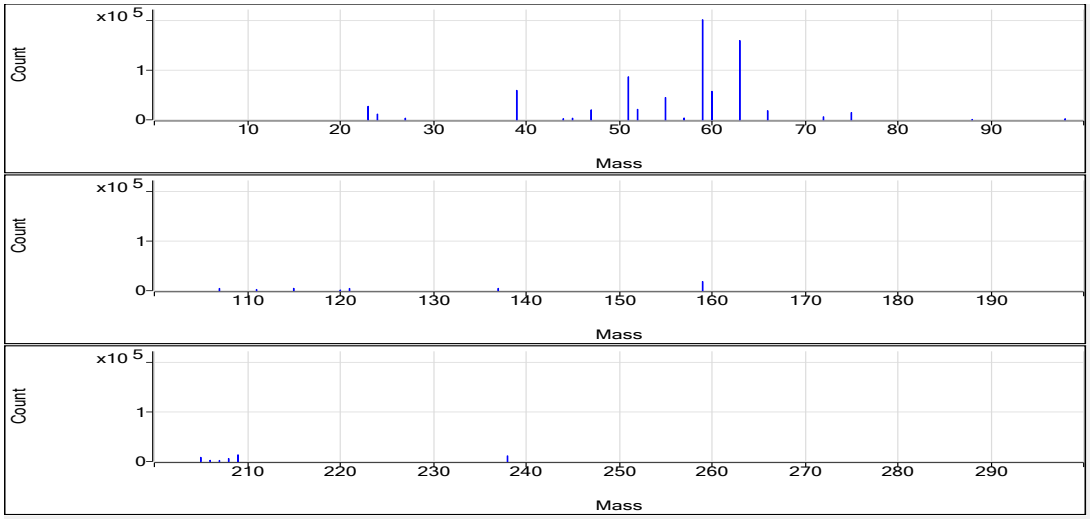


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	22.841	0.0077	12410.57	0.0003	2.616E-05
Be	9	1	No Gas	25.5	0.0086	13757.62	0.0003	2.616E-05
Be	9	1	No Gas	26.003	0.0088	13947.77	0.0003	2.616E-05
Se	78	2	H2	23.684	0.0092	868.69	0.0004	6.3E-05
Se	78	2	H2	25.018	0.0098	926.03	0.0004	6.3E-05
Se	78	2	H2	25.102	0.0098	930.70	0.0004	6.3E-05
Na	23	3	He	2690.912	7.4579	279174.78	0.0025	0.7502
Na	23	3	He	2648.046	7.351	276573.65	0.0025	0.7502
Na	23	3	He	2593.768	7.2157	274088.34	0.0025	0.7502
Mg	24	3	He	2616.86	3.1949	119595.27	0.0012	0.02618
Mg	24	3	He	2564.852	3.1319	117833.80	0.0012	0.02618
Mg	24	3	He	2608.838	3.1852	120987.73	0.0012	0.02618
Al	27	3	He	2612.759	0.9906	37081.77	0.0004	0.005329
Al	27	3	He	2680.007	1.016	38224.37	0.0004	0.005329
Al	27	3	He	2646.705	1.0034	38114.17	0.0004	0.005329
K	39	3	He	2761.078	3.2723	122492.91	0.001	0.5307
K	39	3	He	2652.677	3.1646	119065.87	0.001	0.5307
K	39	3	He	2579.933	3.0924	117464.76	0.001	0.5307
Ca	44	3	He	2637.256	0.1433	5362.90	0.0001	0.004441
Ca	44	3	He	2527.521	0.1375	5172.83	0.0001	0.004441
Ca	44	3	He	2556.733	0.139	5280.88	0.0001	0.004441
Ti	47	3	He	2653.63	1.0857	40642.00	0.0004	0.0004559
Ti	47	3	He	2645.154	1.0822	40718.17	0.0004	0.0004559
Ti	47	3	He	2597.801	1.0629	40373.30	0.0004	0.0004559
V	51	3	He	262.2	4.6378	173608.38	0.0176	0.02609
V	51	3	He	262.814	4.6486	174897.11	0.0176	0.02609
V	51	3	He	259.201	4.585	174161.75	0.0176	0.02609
Cr	52	3	He	262.77	5.7592	215587.16	0.0217	0.05061
Cr	52	3	He	260.289	5.7053	214655.19	0.0217	0.05061
Cr	52	3	He	260.714	5.7145	217065.49	0.0217	0.05061
Mn	55	3	He	262.348	2.4019	89911.10	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	264.095	2.4178	90967.20	0.0091	0.01071
Mn	55	3	He	261.044	2.39	90783.95	0.0091	0.01071
Fe	57	3	He	2680.843	1.079	40391.22	0.0004	0.008452
Fe	57	3	He	2609.772	1.0506	39528.73	0.0004	0.008452
Fe	57	3	He	2618.462	1.0541	40039.87	0.0004	0.008452
Co	59	3	He	262.003	10.8238	405171.13	0.0413	0.006013
Co	59	3	He	260.442	10.7593	404806.06	0.0413	0.006013
Co	59	3	He	257.772	10.649	404502.34	0.0413	0.006013
Ni	60	3	He	261.448	3.0825	115386.98	0.0117	0.01172
Ni	60	3	He	261.233	3.0799	115878.59	0.0117	0.01172
Ni	60	3	He	258.365	3.0462	115711.02	0.0117	0.01172
Cu	63	3	He	258.319	5.0677	320405.34	0.0196	0.01443
Cu	63	3	He	265.255	5.2034	320524.09	0.0196	0.01443
Cu	63	3	He	252.622	4.9562	321768.72	0.0196	0.01443
Zn	66	3	He	258.964	0.5914	37389.00	0.0023	0.002807
Zn	66	3	He	266.991	0.6096	37551.43	0.0023	0.002807
Zn	66	3	He	254.201	0.5805	37689.68	0.0023	0.002807
As	75	3	He	256.289	0.473	29907.79	0.0018	0.001271
As	75	3	He	264.008	0.4872	30013.95	0.0018	0.001271
As	75	3	He	248.7	0.4591	29803.52	0.0018	0.001271
Sr	88	3	He	26.602	0.2197	11064.17	0.0082	0.00114
Sr	88	3	He	24.353	0.2012	10653.88	0.0082	0.00114
Sr	88	3	He	24.816	0.205	10714.01	0.0082	0.00114
Mo	98	3	He	26.294	0.4672	23528.31	0.0177	0.001504
Mo	98	3	He	25.005	0.4444	23528.06	0.0177	0.001504
Mo	98	3	He	25.434	0.452	23618.34	0.0177	0.001504
Ag	107	3	He	26.153	0.963	48495.79	0.0368	0.001325
Ag	107	3	He	24.657	0.908	48074.54	0.0368	0.001325
Ag	107	3	He	25.411	0.9357	48896.56	0.0368	0.001325
Cd	111	3	He	26.471	0.1086	5470.98	0.0041	4.798E-05
Cd	111	3	He	24.818	0.1019	5392.95	0.0041	4.798E-05
Cd	111	3	He	26.145	0.1073	5607.03	0.0041	4.798E-05
Sn	120	3	He	25.049	0.3263	16429.23	0.0126	0.01097
Sn	120	3	He	24.007	0.3131	16579.36	0.0126	0.01097
Sn	120	3	He	26.162	0.3403	17780.51	0.0126	0.01097
Sb	121	3	He	26.41	0.3185	16038.36	0.012	0.0003595
Sb	121	3	He	24.877	0.3	15884.85	0.012	0.0003595
Sb	121	3	He	25.323	0.3054	15958.31	0.012	0.0003595
Ba	137	3	He	256.242	1.0001	50363.53	0.0039	0.0003633
Ba	137	3	He	243.132	0.949	50242.63	0.0039	0.0003633
Ba	137	3	He	248.365	0.9694	50654.21	0.0039	0.0003633
Tl	205	3	He	24.546	0.4662	88337.16	0.0189	0.001334
Tl	205	3	He	25.303	0.4806	89472.75	0.0189	0.001334
Tl	205	3	He	24.777	0.4706	88397.40	0.0189	0.001334
Pb	208	3	He	24.879	0.6274	64191.92	0.0252	0.001497
Pb	208	3	He	25.997	0.6555	65246.99	0.0252	0.001497
Pb	208	3	He	25.103	0.633	63719.20	0.0252	0.001497
U	238	3	He	25.322	0.6217	117802.56	0.0245	0.0001141
U	238	3	He	26.09	0.6406	119264.09	0.0245	0.0001141
U	238	3	He	25.401	0.6237	117147.46	0.0245	0.0001141
Sc	45	1	No Gas			1608974.66		
Sc	45	1	No Gas			1598157.01		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1588994.98		
Ge	72	1	No Gas			800980.93		
Ge	72	1	No Gas			788912.49		
Ge	72	1	No Gas			781755.38		
Sc	45	2	H2			128721.60		
Sc	45	2	H2			130133.36		
Sc	45	2	H2			129215.56		
Ge	72	2	H2			93934.01		
Ge	72	2	H2			94828.44		
Ge	72	2	H2			94990.95		
In	115	2	H2			238509.96		
In	115	2	H2			241322.89		
In	115	2	H2			240145.09		
Sc	45	3	He			37433.50		
Sc	45	3	He			37623.78		
Sc	45	3	He			37984.83		
Ge	72	3	He			63225.09		
Ge	72	3	He			61599.29		
Ge	72	3	He			64921.95		
In	115	3	He			50472.67		
In	115	3	He			53060.72		
In	115	3	He			52378.67		
Tb	159	3	He			189473.00		
Tb	159	3	He			186182.20		
Tb	159	3	He			187835.35		
Bi	209	3	He			140258.29		
Bi	209	3	He			139238.83		
Bi	209	3	He			136845.92		

Quantitation Report

Data File Name	297_CCB.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 8:55:45 PM
Sample Name	CCB 7996167
Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

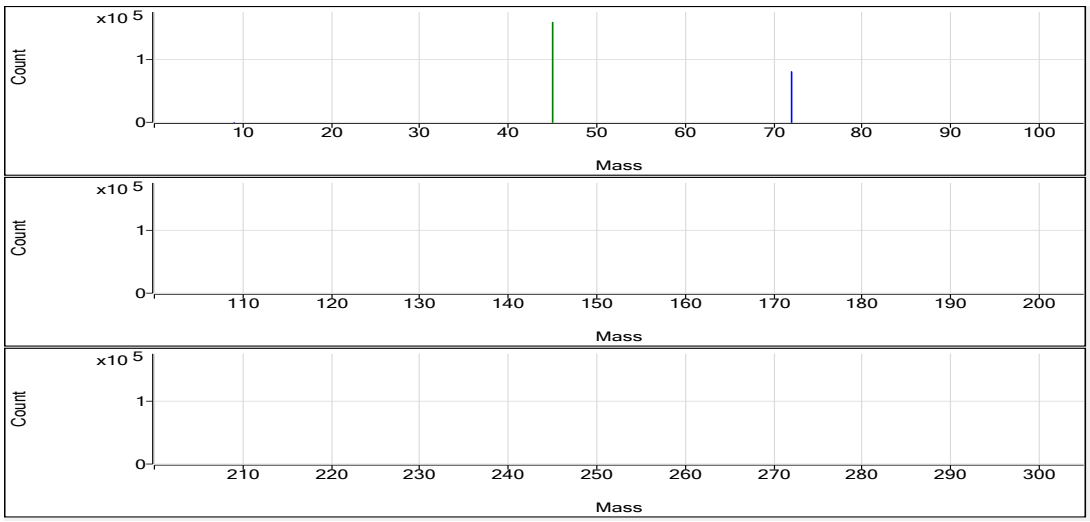
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.012	ppb	N/A	35.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.095	ppb	N/A	2.44	0.0000	Pulse	1.5000	3
Na	23	45	He	-72.982	ppb	N/A	21601.18	0.5683	Pulse	0.1000	3
Mg	24	45	He	-7.340	ppb	N/A	656.70	0.0173	Pulse	0.1000	3
Al	27	45	He	-3.917	ppb	N/A	146.67	0.0039	Pulse	0.1000	3
K	39	45	He	-2.526	ppb	N/A	20061.00	0.5282	Pulse	0.5000	3
Ca	44	45	He	-6.497	ppb	N/A	156.00	0.0041	Pulse	0.5000	3
Ti	47	45	He	0.000	ppb	N/A	17.33	0.0005	Pulse	0.5000	3
V	51	45	He	-0.001	ppb	N/A	991.37	0.0261	Pulse	0.5000	3
Cr	52	45	He	-0.195	ppb	N/A	1763.48	0.0464	Pulse	0.1000	3
Mn	55	45	He	-0.128	ppb	N/A	362.68	0.0095	Pulse	0.5000	3
Fe	57	45	He	-11.293	ppb	N/A	150.01	0.0039	Pulse	0.1000	3
Co	59	45	He	-0.022	ppb	N/A	194.00	0.0051	Pulse	0.5000	3
Ni	60	45	He	-0.176	ppb	N/A	366.68	0.0096	Pulse	0.5000	3
Cu	63	72	He	-0.312	ppb	N/A	532.68	0.0083	Pulse	0.5000	3
Zn	66	72	He	-0.033	ppb	N/A	174.67	0.0027	Pulse	0.5000	3
As	75	72	He	1.248	ppb	5.8	228.00	0.0036	Pulse	0.5000	3
Sr	88	115	He	-0.076	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Mo	98	115	He	0.087	ppb	73.1	156.67	0.0030	Pulse	0.1000	3
Ag	107	115	He	-0.018	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	266.8	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.114	ppb	N/A	490.03	0.0095	Pulse	0.1000	3
Sb	121	115	He	0.114	ppb	41.1	88.89	0.0017	Pulse	0.3000	3
Ba	137	115	He	0.023	ppb	248.2	23.33	0.0005	Pulse	0.1000	3
Tl	205	159	He	-0.020	ppb	N/A	176.68	0.0009	Pulse	0.1000	3
Pb	208	159	He	-0.007	ppb	N/A	246.67	0.0013	Pulse	0.1000	3
U	238	159	He	0.003	ppb	100.9	36.67	0.0002	Pulse	0.1000	3

ISTD Table:

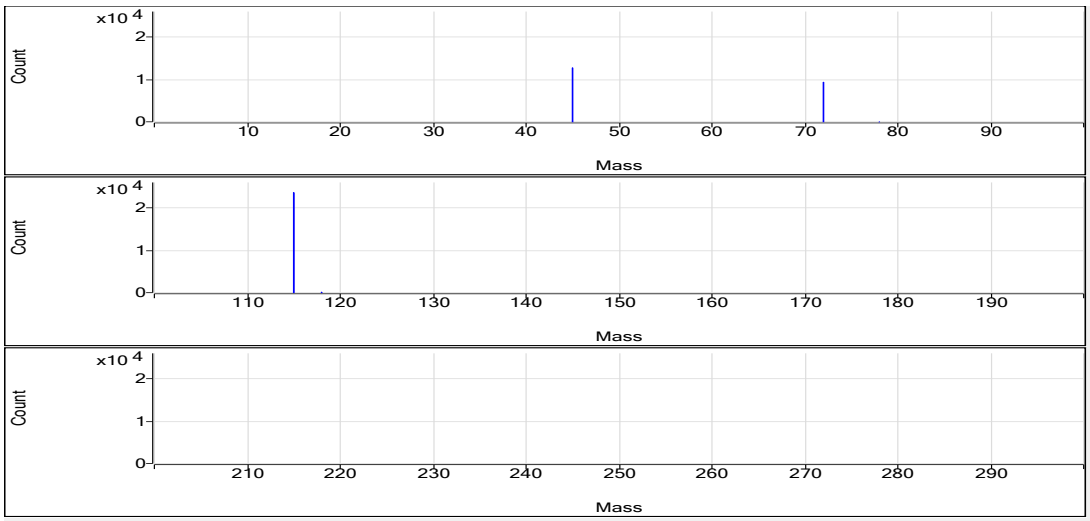
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1597160.18	1.1	93.5	Analog	0.1000	3
No Gas	Ge	72	807606.37	1.0	93.5	Pulse	0.1000	3
H2	Sc	45	127914.94	0.6	95.7	Pulse	0.1000	3
H2	Ge	72	94131.05	1.4	95.0	Pulse	0.1000	3
H2	In	115	237239.19	0.2	92.4	Pulse	0.1000	3
He	Sc	45	38014.82	1.0	96.3	Pulse	0.1000	3
He	Ge	72	63900.93	1.5	93.8	Pulse	0.1000	3
He	In	115	51425.59	0.3	92.8	Pulse	0.1000	3
He	Tb	159	186196.26	1.4	90.9	Pulse	0.1000	3
He	Bi	209	136487.00	1.4	90.2	Pulse	0.1000	3

No Gas

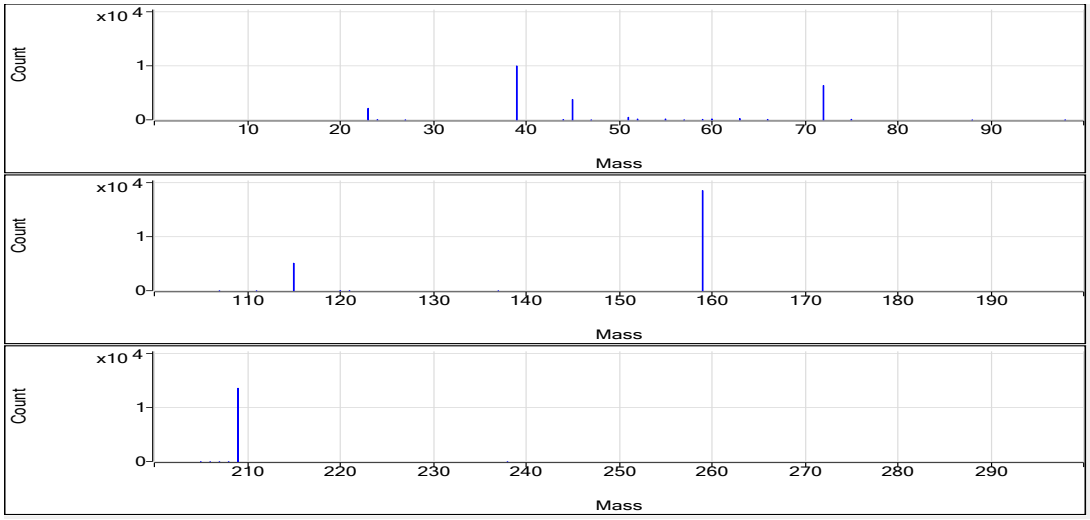


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.011	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.01	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Se	78	2	H2	-0.07	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.144	0	0.67	0.0004	6.3E-05
Se	78	2	H2	-0.072	0	3.33	0.0004	6.3E-05
Na	23	3	He	-73.978	0.5658	21264.20	0.0025	0.7502
Na	23	3	He	-79.755	0.5514	21153.86	0.0025	0.7502
Na	23	3	He	-65.215	0.5876	22385.49	0.0025	0.7502
Mg	24	3	He	-5.142	0.02	750.04	0.0012	0.02618
Mg	24	3	He	-9.998	0.0141	540.03	0.0012	0.02618
Mg	24	3	He	-6.88	0.0179	680.03	0.0012	0.02618
Al	27	3	He	-5.666	0.0032	120.00	0.0004	0.005329
Al	27	3	He	-0.308	0.0052	200.01	0.0004	0.005329
Al	27	3	He	-5.779	0.0032	120.01	0.0004	0.005329
K	39	3	He	79.52	0.6096	22911.98	0.001	0.5307
K	39	3	He	-33.813	0.4971	19070.99	0.001	0.5307
K	39	3	He	-53.285	0.4778	18200.02	0.001	0.5307
Ca	44	3	He	-18.654	0.0035	130.00	0.0001	0.004441
Ca	44	3	He	8.727	0.0049	188.00	0.0001	0.004441
Ca	44	3	He	-9.562	0.0039	150.00	0.0001	0.004441
Ti	47	3	He	-0.074	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.033	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	0.041	0.0005	18.00	0.0004	0.0004559
V	51	3	He	0.014	0.0263	990.04	0.0176	0.02609
V	51	3	He	-0.016	0.0258	990.04	0.0176	0.02609
V	51	3	He	0	0.0261	994.04	0.0176	0.02609
Cr	52	3	He	-0.37	0.0426	1600.13	0.0217	0.05061
Cr	52	3	He	-0.038	0.0498	1910.16	0.0217	0.05061
Cr	52	3	He	-0.179	0.0467	1780.16	0.0217	0.05061
Mn	55	3	He	-0.124	0.0096	360.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.128	0.0095	366.01	0.0091	0.01071
Mn	55	3	He	-0.132	0.0095	362.01	0.0091	0.01071
Fe	57	3	He	-12.504	0.0035	130.00	0.0004	0.008452
Fe	57	3	He	-10.069	0.0044	170.01	0.0004	0.008452
Fe	57	3	He	-11.305	0.0039	150.01	0.0004	0.008452
Co	59	3	He	-0.023	0.0051	190.00	0.0413	0.006013
Co	59	3	He	-0.011	0.0056	214.00	0.0413	0.006013
Co	59	3	He	-0.032	0.0047	178.00	0.0413	0.006013
Ni	60	3	He	-0.155	0.0099	372.01	0.0117	0.01172
Ni	60	3	He	-0.15	0.01	382.01	0.0117	0.01172
Ni	60	3	He	-0.224	0.0091	346.01	0.0117	0.01172
Cu	63	3	He	-0.304	0.0085	536.01	0.0196	0.01443
Cu	63	3	He	-0.313	0.0083	528.01	0.0196	0.01443
Cu	63	3	He	-0.318	0.0082	534.01	0.0196	0.01443
Zn	66	3	He	-0.12	0.0025	160.00	0.0023	0.002807
Zn	66	3	He	0.01	0.0028	180.00	0.0023	0.002807
Zn	66	3	He	0.01	0.0028	184.00	0.0023	0.002807
As	75	3	He	1.168	0.0034	216.00	0.0018	0.001271
As	75	3	He	1.309	0.0037	234.00	0.0018	0.001271
As	75	3	He	1.265	0.0036	234.00	0.0018	0.001271
Sr	88	3	He	-0.139	0	0.00	0.0082	0.00114
Sr	88	3	He	-0.044	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.044	0.0008	40.00	0.0082	0.00114
Mo	98	3	He	0.124	0.0037	190.01	0.0177	0.001504
Mo	98	3	He	0.124	0.0037	190.01	0.0177	0.001504
Mo	98	3	He	0.014	0.0017	90.00	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.017	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.051	0.0103	530.03	0.0126	0.01097
Sn	120	3	He	0.011	0.0111	570.03	0.0126	0.01097
Sn	120	3	He	-0.301	0.0072	370.02	0.0126	0.01097
Sb	121	3	He	0.164	0.0023	120.00	0.012	0.0003595
Sb	121	3	He	0.105	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.072	0.0012	63.33	0.012	0.0003595
Ba	137	3	He	0.057	0.0006	30.00	0.0039	0.0003633
Ba	137	3	He	0.057	0.0006	30.00	0.0039	0.0003633
Ba	137	3	He	-0.043	0.0002	10.00	0.0039	0.0003633
Tl	205	3	He	-0.016	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.02	0.001	180.01	0.0189	0.001334
Tl	205	3	He	-0.025	0.0009	160.01	0.0189	0.001334
Pb	208	3	He	0.014	0.0018	140.00	0.0252	0.001497
Pb	208	3	He	-0.022	0.001	120.00	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	100.00	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
Sc	45	1	No Gas			1602613.41		
Sc	45	1	No Gas			1578174.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1610692.32		
Ge	72	1	No Gas			801905.77		
Ge	72	1	No Gas			803959.99		
Ge	72	1	No Gas			816953.35		
Sc	45	2	H2			128015.54		
Sc	45	2	H2			127038.79		
Sc	45	2	H2			128690.49		
Ge	72	2	H2			92625.48		
Ge	72	2	H2			94898.50		
Ge	72	2	H2			94869.16		
In	115	2	H2			237349.68		
In	115	2	H2			236653.14		
In	115	2	H2			237714.76		
Sc	45	3	He			37583.94		
Sc	45	3	He			38365.46		
Sc	45	3	He			38095.06		
Ge	72	3	He			63124.48		
Ge	72	3	He			63586.49		
Ge	72	3	He			64991.81		
In	115	3	He			51345.58		
In	115	3	He			51355.30		
In	115	3	He			51586.18		
Tb	159	3	He			184081.74		
Tb	159	3	He			189050.35		
Tb	159	3	He			185456.68		
Bi	209	3	He			137300.54		
Bi	209	3	He			137835.75		
Bi	209	3	He			134324.72		

Quantitation Report

Data File Name	298SMPL.d
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Acq Time	7/10/2025 8:57:57 PM
Sample Name	180-192322-H-1-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

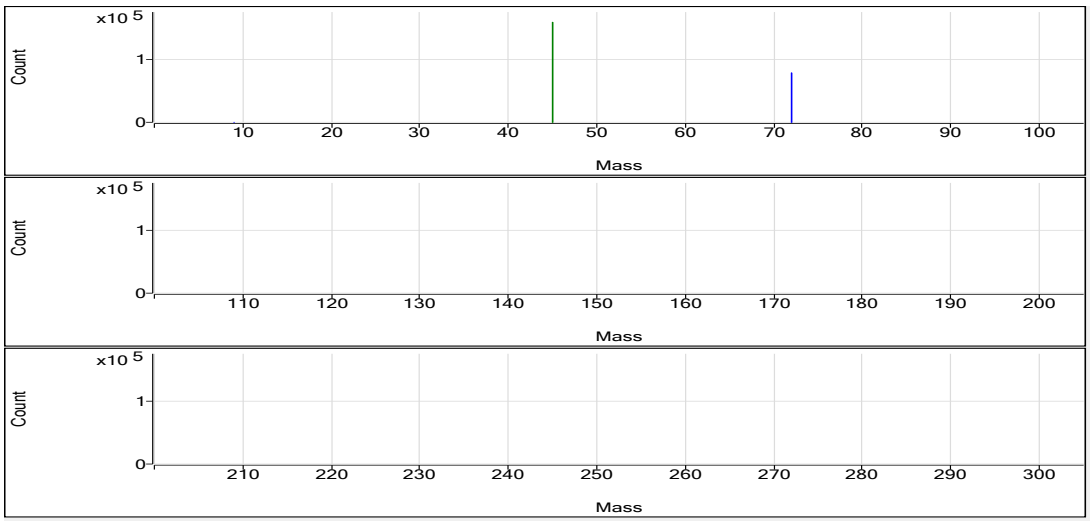
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.028	ppb	N/A	26.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	90.557	ppb	0.1	3322.57	0.0352	Pulse	1.5000	3
Na	23	45	He	724928.551	ppb	1.5	68180148.99	1,807.7970	Analog	0.1000	3
Mg	24	45	He	7816.867	ppb	2.2	357935.53	9.4914	Pulse	0.1000	3
Al	27	45	He	156.633	ppb	8.8	2430.26	0.0644	Pulse	0.1000	3
K	39	45	He	296400.009	ppb	2.6	11119421.67	294.8417	Analog	0.5000	3
Ca	44	45	He	137423.540	ppb	1.0	273005.06	7.2383	Pulse	0.5000	3
Ti	47	45	He	-0.250	ppb	N/A	13.33	0.0004	Pulse	0.5000	3
V	51	45	He	42.497	ppb	1.4	29174.57	0.7736	Pulse	0.5000	3
Cr	52	45	He	5.539	ppb	6.1	6451.48	0.1709	Pulse	0.1000	3
Mn	55	45	He	0.904	ppb	20.0	714.02	0.0189	Pulse	0.5000	3
Fe	57	45	He	-3.288	ppb	N/A	270.01	0.0071	Pulse	0.1000	3
Co	59	45	He	0.084	ppb	24.5	357.34	0.0095	Pulse	0.5000	3
Ni	60	45	He	45.681	ppb	1.5	20677.14	0.5482	Pulse	0.5000	3
Cu	63	72	He	7.664	ppb	2.0	10612.17	0.1644	Pulse	0.5000	3
Zn	66	72	He	927.524	ppb	1.2	136282.68	2.1108	Pulse	0.5000	3
As	75	72	He	24.923	ppb	1.7	3044.30	0.0471	Pulse	0.5000	3
Sr	88	115	He	1067.052	ppb	1.4	450170.70	8.7683	Pulse	0.1000	3
Mo	98	115	He	303.175	ppb	0.5	275778.10	5.3714	Pulse	0.1000	3
Ag	107	115	He	0.001	ppb	504.1	70.00	0.0014	Pulse	0.1000	3
Cd	111	115	He	4.958	ppb	6.2	1046.71	0.0204	Pulse	0.5000	3
Sn	120	115	He	0.238	ppb	46.2	716.71	0.0140	Pulse	0.1000	3
Sb	121	115	He	106.530	ppb	0.2	65905.61	1.2836	Pulse	0.3000	3
Ba	137	115	He	30.129	ppb	3.5	6054.75	0.1179	Pulse	0.1000	3
Tl	205	159	He	0.048	ppb	46.1	420.02	0.0022	Pulse	0.1000	3
Pb	208	159	He	3.428	ppb	2.3	16430.80	0.0877	Pulse	0.1000	3
U	238	159	He	1.102	ppb	2.3	5084.43	0.0272	Pulse	0.1000	3

ISTD Table:

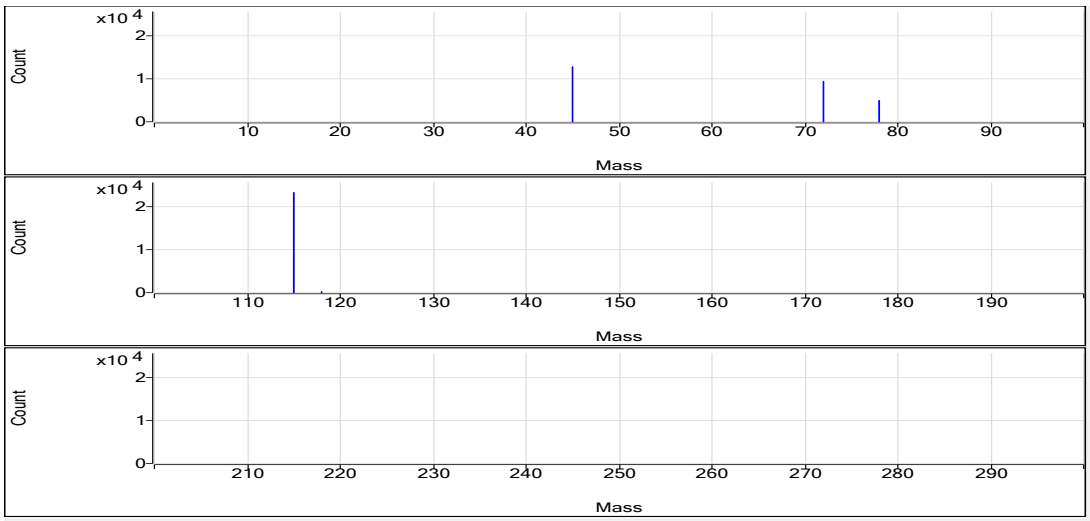
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1596276.17	1.5	93.4	Analog	0.1000	3
No Gas	Ge	72	789230.56	1.1	91.4	Pulse	0.1000	3
H2	Sc	45	128375.91	1.4	96.1	Pulse	0.1000	3
H2	Ge	72	94440.60	2.2	95.3	Pulse	0.1000	3
H2	In	115	233435.79	1.0	90.9	Pulse	0.1000	3
He	Sc	45	37720.87	1.7	95.6	Pulse	0.1000	3
He	Ge	72	64569.85	1.2	94.8	Pulse	0.1000	3
He	In	115	51343.71	0.7	92.7	Pulse	0.1000	3
He	Tb	159	187245.89	0.2	91.4	Pulse	0.1000	3
He	Bi	209	137520.47	0.5	90.9	Pulse	0.1000	3

No Gas

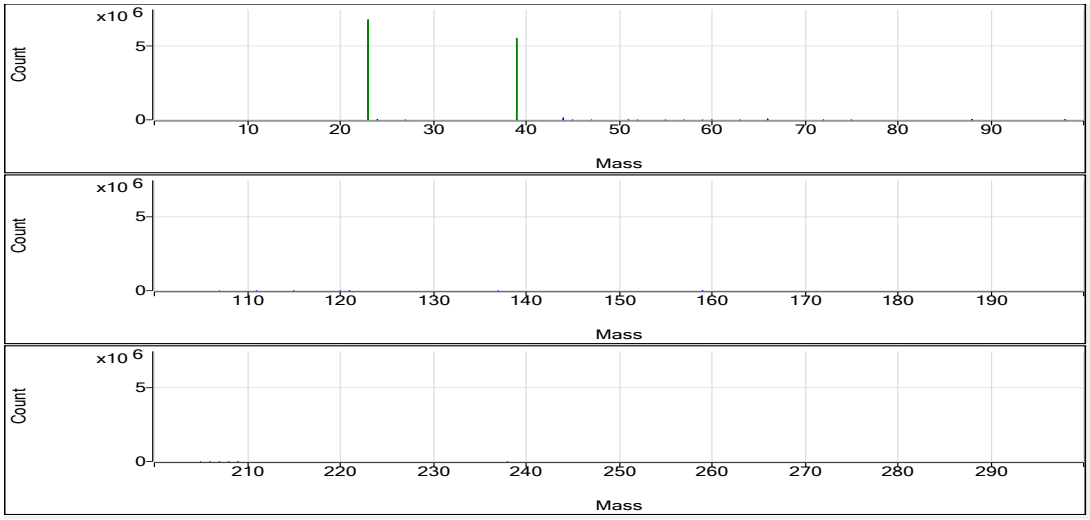


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.048	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.029	0	26.00	0.0003	2.616E-05
Se	78	2	H2	90.576	0.0352	3246.33	0.0004	6.3E-05
Se	78	2	H2	90.644	0.0352	3337.02	0.0004	6.3E-05
Se	78	2	H2	90.452	0.0351	3384.36	0.0004	6.3E-05
Na	23	3	He	736595.655	1836.8798	68024398.99	0.0025	0.7502
Na	23	3	He	715855.497	1785.1803	68453703.98	0.0025	0.7502
Na	23	3	He	722334.501	1801.3307	68062343.99	0.0025	0.7502
Mg	24	3	He	7995.476	9.7077	359501.32	0.0012	0.02618
Mg	24	3	He	7661.296	9.3031	356730.58	0.0012	0.02618
Mg	24	3	He	7793.828	9.4635	357574.68	0.0012	0.02618
Al	27	3	He	154.879	0.0637	2360.25	0.0004	0.005329
Al	27	3	He	171.227	0.0699	2680.32	0.0004	0.005329
Al	27	3	He	143.793	0.0596	2250.21	0.0004	0.005329
K	39	3	He	299096.646	297.5193	11017909.00	0.001	0.5307
K	39	3	He	287825.819	286.328	10979400.00	0.001	0.5307
K	39	3	He	302277.562	300.6778	11360956.00	0.001	0.5307
Ca	44	3	He	138691.127	7.3051	270525.69	0.0001	0.004441
Ca	44	3	He	135904.133	7.1584	274491.44	0.0001	0.004441
Ca	44	3	He	137675.36	7.2516	273998.06	0.0001	0.004441
Ti	47	3	He	-0.19	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.222	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.338	0.0003	12.00	0.0004	0.0004559
V	51	3	He	43.03	0.7829	28993.59	0.0176	0.02609
V	51	3	He	41.859	0.7623	29231.98	0.0176	0.02609
V	51	3	He	42.602	0.7754	29298.15	0.0176	0.02609
Cr	52	3	He	5.167	0.1629	6031.29	0.0217	0.05061
Cr	52	3	He	5.823	0.1771	6791.63	0.0217	0.05061
Cr	52	3	He	5.627	0.1729	6531.51	0.0217	0.05061
Mn	55	3	He	1.112	0.0208	772.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.788	0.0179	686.02	0.0091	0.01071
Mn	55	3	He	0.811	0.0181	684.02	0.0091	0.01071
Fe	57	3	He	-7.641	0.0054	200.01	0.0004	0.008452
Fe	57	3	He	0.385	0.0086	330.01	0.0004	0.008452
Fe	57	3	He	-2.608	0.0074	280.01	0.0004	0.008452
Co	59	3	He	0.106	0.0104	384.01	0.0413	0.006013
Co	59	3	He	0.082	0.0094	360.01	0.0413	0.006013
Co	59	3	He	0.065	0.0087	328.01	0.0413	0.006013
Ni	60	3	He	46.191	0.5542	20524.92	0.0117	0.01172
Ni	60	3	He	44.892	0.539	20667.18	0.0117	0.01172
Ni	60	3	He	45.961	0.5515	20839.33	0.0117	0.01172
Cu	63	3	He	7.514	0.1614	10547.46	0.0196	0.01443
Cu	63	3	He	7.822	0.1674	10803.63	0.0196	0.01443
Cu	63	3	He	7.657	0.1642	10485.41	0.0196	0.01443
Zn	66	3	He	915.386	2.0832	136125.31	0.0023	0.002807
Zn	66	3	He	929.082	2.1144	136417.94	0.0023	0.002807
Zn	66	3	He	938.104	2.1349	136304.80	0.0023	0.002807
As	75	3	He	24.603	0.0466	3042.30	0.0018	0.001271
As	75	3	He	25.397	0.048	3098.32	0.0018	0.001271
As	75	3	He	24.77	0.0469	2992.29	0.0018	0.001271
Sr	88	3	He	1055.158	8.6705	445932.02	0.0082	0.00114
Sr	88	3	He	1062.815	8.7334	451187.34	0.0082	0.00114
Sr	88	3	He	1083.183	8.9008	453392.73	0.0082	0.00114
Mo	98	3	He	302.849	5.3656	275954.98	0.0177	0.001504
Mo	98	3	He	301.726	5.3457	276168.84	0.0177	0.001504
Mo	98	3	He	304.951	5.4028	275210.48	0.0177	0.001504
Ag	107	3	He	-0.004	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	0.006	0.0015	80.00	0.0368	0.001325
Ag	107	3	He	0.001	0.0014	70.00	0.0368	0.001325
Cd	111	3	He	4.605	0.0189	974.04	0.0041	4.798E-05
Cd	111	3	He	5.15	0.0212	1094.04	0.0041	4.798E-05
Cd	111	3	He	5.119	0.021	1072.05	0.0041	4.798E-05
Sn	120	3	He	0.148	0.0128	660.03	0.0126	0.01097
Sn	120	3	He	0.205	0.0136	700.04	0.0126	0.01097
Sn	120	3	He	0.361	0.0155	790.05	0.0126	0.01097
Sb	121	3	He	106.783	1.2867	66173.73	0.012	0.0003595
Sb	121	3	He	106.422	1.2823	66246.88	0.012	0.0003595
Sb	121	3	He	106.385	1.2819	65296.22	0.012	0.0003595
Ba	137	3	He	29.366	0.1149	5911.35	0.0039	0.0003633
Ba	137	3	He	31.319	0.1226	6331.54	0.0039	0.0003633
Ba	137	3	He	29.701	0.1162	5921.36	0.0039	0.0003633
Tl	205	3	He	0.023	0.0018	330.02	0.0189	0.001334
Tl	205	3	He	0.059	0.0025	460.02	0.0189	0.001334
Tl	205	3	He	0.062	0.0025	470.02	0.0189	0.001334
Pb	208	3	He	3.513	0.0899	8883.02	0.0252	0.001497
Pb	208	3	He	3.411	0.0873	8392.68	0.0252	0.001497
Pb	208	3	He	3.361	0.0861	8272.61	0.0252	0.001497
U	238	3	He	1.08	0.0266	4991.08	0.0245	0.0001141
U	238	3	He	1.095	0.027	5061.09	0.0245	0.0001141
U	238	3	He	1.129	0.0278	5201.11	0.0245	0.0001141
Sc	45	1	No Gas			1601353.10		
Sc	45	1	No Gas			1617429.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1570046.38		
Ge	72	1	No Gas			790930.22		
Ge	72	1	No Gas			796538.74		
Ge	72	1	No Gas			780222.72		
Sc	45	2	H2			127461.23		
Sc	45	2	H2			127160.53		
Sc	45	2	H2			130505.98		
Ge	72	2	H2			92253.84		
Ge	72	2	H2			94759.67		
Ge	72	2	H2			96308.28		
In	115	2	H2			230877.97		
In	115	2	H2			234177.26		
In	115	2	H2			235252.13		
Sc	45	3	He			37032.58		
Sc	45	3	He			38345.54		
Sc	45	3	He			37784.48		
Ge	72	3	He			65343.13		
Ge	72	3	He			64519.54		
Ge	72	3	He			63846.89		
In	115	3	He			51435.34		
In	115	3	He			51666.89		
In	115	3	He			50943.94		
Tb	159	3	He			187432.65		
Tb	159	3	He			187409.24		
Tb	159	3	He			186895.78		
Bi	209	3	He			137020.61		
Bi	209	3	He			137270.69		
Bi	209	3	He			138270.12		

Quantitation Report

Data File Name	299SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 9:00:07 PM
Sample Name	180-192312-H-1-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

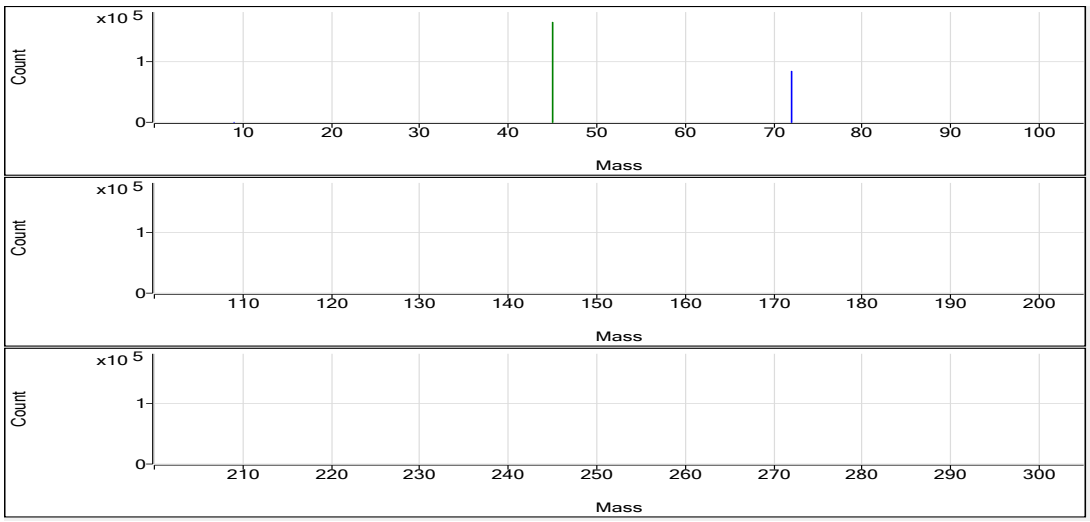
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.023	ppb	N/A	30.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.111	ppb	40.9	10.67	0.0001	Pulse	1.5000	3
Na	23	45	He	45325.714	ppb	1.6	4393110.87	113.7347	Analog	0.1000	3
Mg	24	45	He	14050.728	ppb	1.7	658161.74	17.0399	Pulse	0.1000	3
Al	27	45	He	-5.409	ppb	N/A	126.67	0.0033	Pulse	0.1000	3
K	39	45	He	2694.099	ppb	4.1	123817.45	3.2058	Pulse	0.5000	3
Ca	44	45	He	47895.980	ppb	1.4	97556.12	2.5257	Pulse	0.5000	3
Ti	47	45	He	-0.567	ppb	N/A	8.67	0.0002	Pulse	0.5000	3
V	51	45	He	-0.089	ppb	N/A	947.36	0.0245	Pulse	0.5000	3
Cr	52	45	He	-0.653	ppb	N/A	1406.77	0.0364	Pulse	0.1000	3
Mn	55	45	He	69.916	ppb	1.5	25027.81	0.6480	Pulse	0.5000	3
Fe	57	45	He	62.914	ppb	13.5	1296.76	0.0336	Pulse	0.1000	3
Co	59	45	He	-0.037	ppb	N/A	174.00	0.0045	Pulse	0.5000	3
Ni	60	45	He	0.539	ppb	25.4	696.69	0.0180	Pulse	0.5000	3
Cu	63	72	He	2.768	ppb	1.9	4625.35	0.0686	Pulse	0.5000	3
Zn	66	72	He	13.907	ppb	3.7	2320.85	0.0344	Pulse	0.5000	3
As	75	72	He	1.717	ppb	23.2	299.34	0.0044	Pulse	0.5000	3
Sr	88	115	He	663.243	ppb	1.0	293099.87	5.4505	Pulse	0.1000	3
Mo	98	115	He	1.685	ppb	7.7	1686.81	0.0314	Pulse	0.1000	3
Ag	107	115	He	-0.021	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.009	ppb	200.6	4.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.114	ppb	23.9	666.70	0.0124	Pulse	0.1000	3
Sb	121	115	He	0.953	ppb	7.3	636.69	0.0118	Pulse	0.3000	3
Ba	137	115	He	245.743	ppb	1.5	51574.03	0.9592	Pulse	0.1000	3
Tl	205	159	He	-0.033	ppb	N/A	136.67	0.0007	Pulse	0.1000	3
Pb	208	159	He	0.004	ppb	720.2	306.68	0.0016	Pulse	0.1000	3
U	238	159	He	0.041	ppb	26.4	216.68	0.0011	Pulse	0.1000	3

ISTD Table:

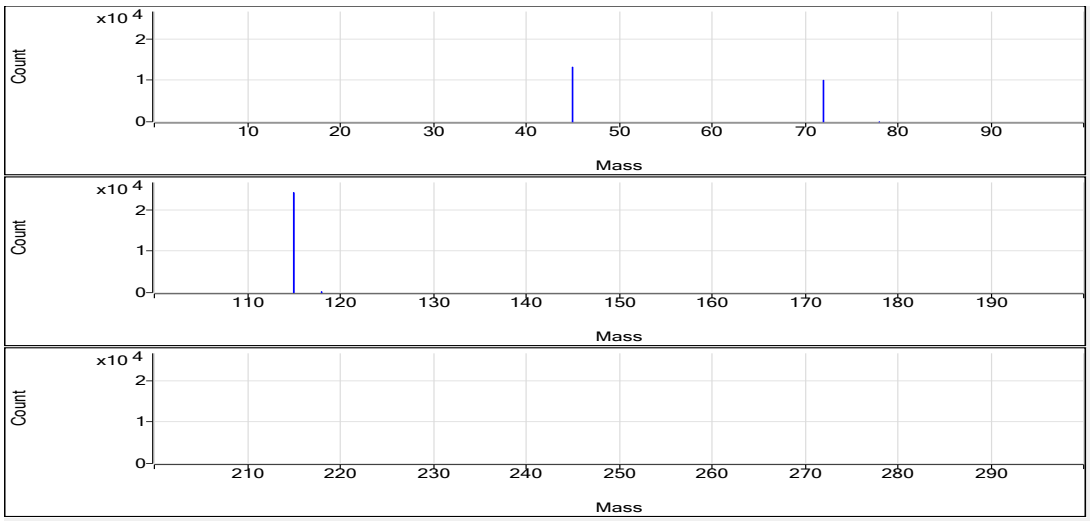
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1638802.58	0.5	95.9	Analog	0.1000	3
No Gas	Ge	72	837667.15	0.5	97.0	Pulse	0.1000	3
H2	Sc	45	132243.23	1.6	99.0	Pulse	0.1000	3
H2	Ge	72	100593.59	1.1	101.5	Pulse	0.1000	3
H2	In	115	241577.33	1.0	94.1	Pulse	0.1000	3
He	Sc	45	38629.56	1.2	97.9	Pulse	0.1000	3
He	Ge	72	67448.56	1.9	99.0	Pulse	0.1000	3
He	In	115	53775.48	1.1	97.1	Pulse	0.1000	3
He	Tb	159	191755.62	0.5	93.6	Pulse	0.1000	3
He	Bi	209	139787.37	0.6	92.4	Pulse	0.1000	3

No Gas

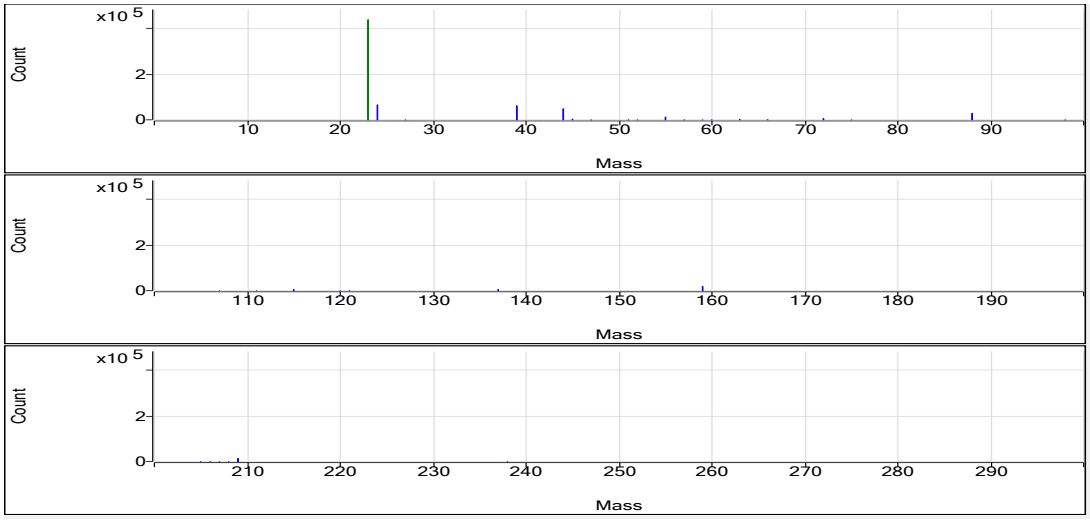


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	0.005	0	46.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Se	78	2	H2	0.059	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	0.132	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.143	0.0001	12.00	0.0004	6.3E-05
Na	23	3	He	44919.528	112.7222	4342736.50	0.0025	0.7502
Na	23	3	He	46166.741	115.8311	4430011.18	0.0025	0.7502
Na	23	3	He	44890.874	112.6507	4406584.93	0.0025	0.7502
Mg	24	3	He	14014.837	16.9964	654803.51	0.0012	0.02618
Mg	24	3	He	14303.578	17.346	663406.24	0.0012	0.02618
Mg	24	3	He	13833.769	16.7771	656275.46	0.0012	0.02618
Al	27	3	He	-4.495	0.0036	140.01	0.0004	0.005329
Al	27	3	He	-2.345	0.0044	170.01	0.0004	0.005329
Al	27	3	He	-9.387	0.0018	70.00	0.0004	0.005329
K	39	3	He	2808.423	3.3193	127879.10	0.001	0.5307
K	39	3	He	2686.497	3.1982	122317.50	0.001	0.5307
K	39	3	He	2587.378	3.0998	121255.76	0.001	0.5307
Ca	44	3	He	48356.77	2.5499	98238.16	0.0001	0.004441
Ca	44	3	He	48176.423	2.5404	97159.60	0.0001	0.004441
Ca	44	3	He	47154.748	2.4866	97270.60	0.0001	0.004441
Ti	47	3	He	-0.861	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.475	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.365	0.0003	12.00	0.0004	0.0004559
V	51	3	He	-0.123	0.0239	922.03	0.0176	0.02609
V	51	3	He	-0.086	0.0246	940.03	0.0176	0.02609
V	51	3	He	-0.059	0.0251	980.03	0.0176	0.02609
Cr	52	3	He	-0.8	0.0332	1280.08	0.0217	0.05061
Cr	52	3	He	-0.5	0.0397	1520.12	0.0217	0.05061
Cr	52	3	He	-0.658	0.0363	1420.10	0.0217	0.05061
Mn	55	3	He	70.497	0.6533	25167.36	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	70.551	0.6538	25003.10	0.0091	0.01071
Mn	55	3	He	68.7	0.6369	24912.97	0.0091	0.01071
Fe	57	3	He	54.238	0.0301	1160.08	0.0004	0.008452
Fe	57	3	He	71.161	0.0369	1410.10	0.0004	0.008452
Fe	57	3	He	63.343	0.0337	1320.11	0.0004	0.008452
Co	59	3	He	-0.046	0.0041	158.00	0.0413	0.006013
Co	59	3	He	-0.032	0.0047	180.00	0.0413	0.006013
Co	59	3	He	-0.032	0.0047	184.00	0.0413	0.006013
Ni	60	3	He	0.638	0.0192	740.02	0.0117	0.01172
Ni	60	3	He	0.596	0.0187	716.02	0.0117	0.01172
Ni	60	3	He	0.382	0.0162	634.02	0.0117	0.01172
Cu	63	3	He	2.825	0.0697	4600.68	0.0196	0.01443
Cu	63	3	He	2.757	0.0684	4680.70	0.0196	0.01443
Cu	63	3	He	2.723	0.0677	4594.67	0.0196	0.01443
Zn	66	3	He	14.271	0.0352	2326.18	0.0023	0.002807
Zn	66	3	He	14.125	0.0349	2390.19	0.0023	0.002807
Zn	66	3	He	13.326	0.0331	2246.17	0.0023	0.002807
As	75	3	He	1.301	0.0037	242.00	0.0018	0.001271
As	75	3	He	1.753	0.0045	308.01	0.0018	0.001271
As	75	3	He	2.095	0.0051	348.01	0.0018	0.001271
Sr	88	3	He	659.796	5.4222	288387.14	0.0082	0.00114
Sr	88	3	He	659.18	5.4171	294748.98	0.0082	0.00114
Sr	88	3	He	670.753	5.5122	296163.49	0.0082	0.00114
Mo	98	3	He	1.624	0.0303	1610.14	0.0177	0.001504
Mo	98	3	He	1.835	0.034	1850.16	0.0177	0.001504
Mo	98	3	He	1.597	0.0298	1600.13	0.0177	0.001504
Ag	107	3	He	-0.005	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.024	0.0001	8.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Sn	120	3	He	0.145	0.0128	680.04	0.0126	0.01097
Sn	120	3	He	0.093	0.0121	660.03	0.0126	0.01097
Sn	120	3	He	0.105	0.0123	660.04	0.0126	0.01097
Sb	121	3	He	1.026	0.0127	676.69	0.012	0.0003595
Sb	121	3	He	0.947	0.0118	640.02	0.012	0.0003595
Sb	121	3	He	0.887	0.011	593.35	0.012	0.0003595
Ba	137	3	He	247.248	0.965	51326.40	0.0039	0.0003633
Ba	137	3	He	241.448	0.9424	51276.56	0.0039	0.0003633
Ba	137	3	He	248.533	0.97	52119.13	0.0039	0.0003633
Tl	205	3	He	-0.026	0.0008	160.01	0.0189	0.001334
Tl	205	3	He	-0.046	0.0005	90.00	0.0189	0.001334
Tl	205	3	He	-0.027	0.0008	160.01	0.0189	0.001334
Pb	208	3	He	-0.016	0.0011	100.01	0.0252	0.001497
Pb	208	3	He	0.039	0.0025	260.01	0.0252	0.001497
Pb	208	3	He	-0.01	0.0012	150.01	0.0252	0.001497
U	238	3	He	0.031	0.0009	170.01	0.0245	0.0001141
U	238	3	He	0.053	0.0014	270.01	0.0245	0.0001141
U	238	3	He	0.04	0.0011	210.01	0.0245	0.0001141
Sc	45	1	No Gas			1639803.10		
Sc	45	1	No Gas			1646901.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629702.94		
Ge	72	1	No Gas			841862.88		
Ge	72	1	No Gas			833755.22		
Ge	72	1	No Gas			837383.35		
Sc	45	2	H2			131635.80		
Sc	45	2	H2			130475.07		
Sc	45	2	H2			134618.81		
Ge	72	2	H2			100955.71		
Ge	72	2	H2			99386.13		
Ge	72	2	H2			101438.92		
In	115	2	H2			243322.40		
In	115	2	H2			238947.65		
In	115	2	H2			242461.95		
Sc	45	3	He			38526.02		
Sc	45	3	He			38245.43		
Sc	45	3	He			39117.23		
Ge	72	3	He			66005.87		
Ge	72	3	He			68466.63		
Ge	72	3	He			67873.18		
In	115	3	He			53191.46		
In	115	3	He			54415.48		
In	115	3	He			53733.50		
Tb	159	3	He			192116.38		
Tb	159	3	He			190587.48		
Tb	159	3	He			192562.99		
Bi	209	3	He			139166.73		
Bi	209	3	He			140663.73		
Bi	209	3	He			139531.66		

Quantitation Report

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Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

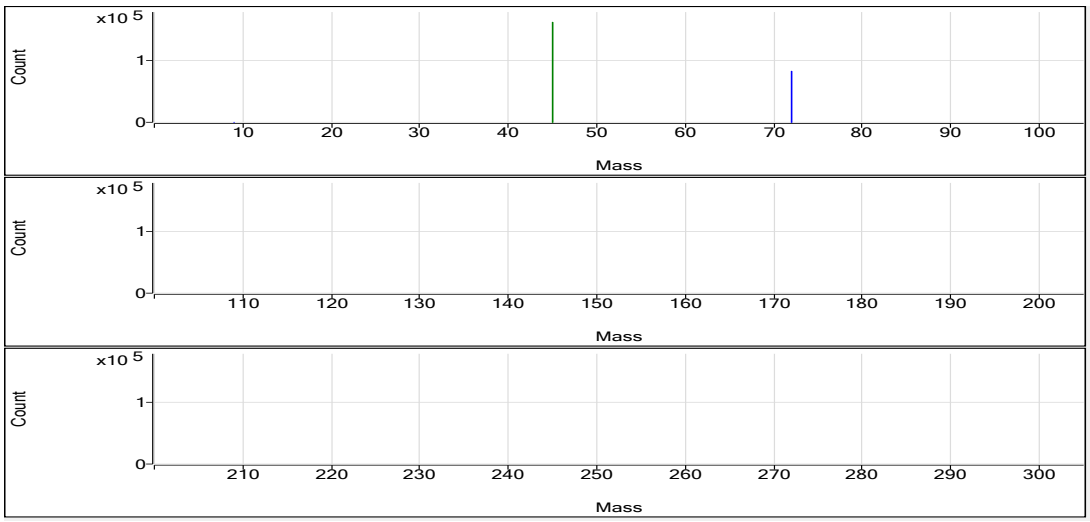
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.019	ppb	N/A	32.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.042	ppb	N/A	4.67	0.0000	Pulse	1.5000	3
Na	23	45	He	4795.278	ppb	1.4	488828.70	12.7035	Pulse	0.1000	3
Mg	24	45	He	14682.905	ppb	1.0	685159.47	17.8053	Pulse	0.1000	3
Al	27	45	He	0.332	ppb	887.5	210.01	0.0055	Pulse	0.1000	3
K	39	45	He	1793.701	ppb	3.6	88961.94	2.3117	Pulse	0.5000	3
Ca	44	45	He	67628.544	ppb	0.9	137160.62	3.5644	Pulse	0.5000	3
Ti	47	45	He	-0.946	ppb	N/A	2.67	0.0001	Pulse	0.5000	3
V	51	45	He	-0.156	ppb	N/A	898.70	0.0234	Pulse	0.5000	3
Cr	52	45	He	-0.579	ppb	N/A	1463.44	0.0380	Pulse	0.1000	3
Mn	55	45	He	212.353	ppb	0.8	74892.32	1.9462	Pulse	0.5000	3
Fe	57	45	He	49.526	ppb	10.2	1086.74	0.0282	Pulse	0.1000	3
Co	59	45	He	0.032	ppb	43.1	282.00	0.0073	Pulse	0.5000	3
Ni	60	45	He	-0.095	ppb	N/A	408.01	0.0106	Pulse	0.5000	3
Cu	63	72	He	2.292	ppb	3.5	3955.17	0.0593	Pulse	0.5000	3
Zn	66	72	He	13.574	ppb	2.2	2246.17	0.0337	Pulse	0.5000	3
As	75	72	He	1.957	ppb	11.2	325.34	0.0049	Pulse	0.5000	3
Sr	88	115	He	130.470	ppb	1.6	56547.93	1.0731	Pulse	0.1000	3
Mo	98	115	He	0.269	ppb	25.1	330.02	0.0063	Pulse	0.1000	3
Ag	107	115	He	-0.021	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.019	ppb	72.8	6.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.209	ppb	49.9	716.71	0.0136	Pulse	0.1000	3
Sb	121	115	He	0.333	ppb	13.2	230.00	0.0044	Pulse	0.3000	3
Ba	137	115	He	165.333	ppb	1.3	34011.68	0.6454	Pulse	0.1000	3
Tl	205	159	He	-0.056	ppb	N/A	53.33	0.0003	Pulse	0.1000	3
Pb	208	159	He	0.051	ppb	44.3	530.02	0.0028	Pulse	0.1000	3
U	238	159	He	0.104	ppb	12.8	510.03	0.0027	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1626680.76	0.2	95.2	Analog	0.1000	3
No Gas	Ge	72	831668.19	1.4	96.3	Pulse	0.1000	3
H2	Sc	45	130818.01	1.8	97.9	Pulse	0.1000	3
H2	Ge	72	99570.53	1.1	100.5	Pulse	0.1000	3
H2	In	115	242527.77	0.6	94.5	Pulse	0.1000	3
He	Sc	45	38482.38	0.8	97.5	Pulse	0.1000	3
He	Ge	72	66738.60	0.7	98.0	Pulse	0.1000	3
He	In	115	52698.17	0.7	95.1	Pulse	0.1000	3
He	Tb	159	190484.74	0.7	93.0	Pulse	0.1000	3
He	Bi	209	140700.61	0.7	93.0	Pulse	0.1000	3

No Gas



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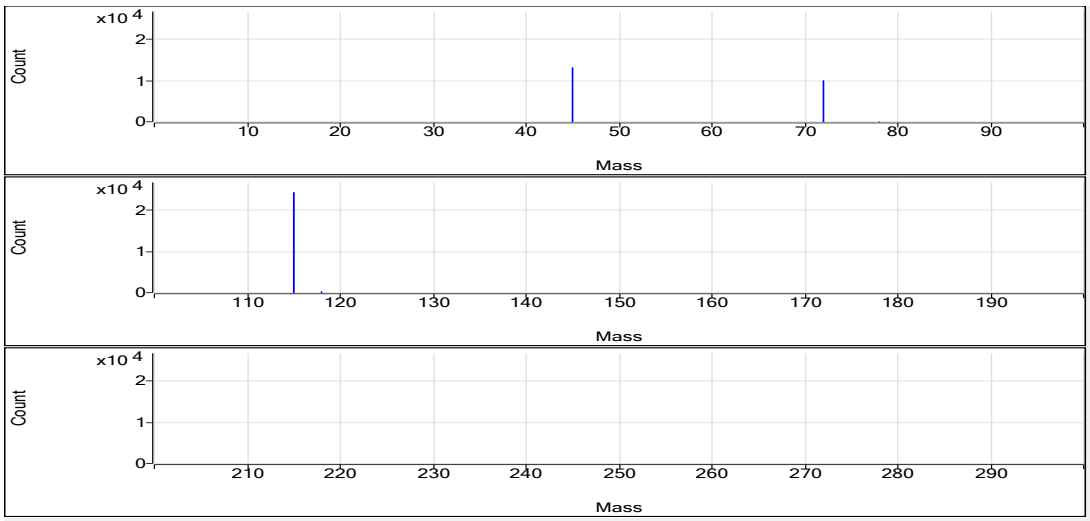
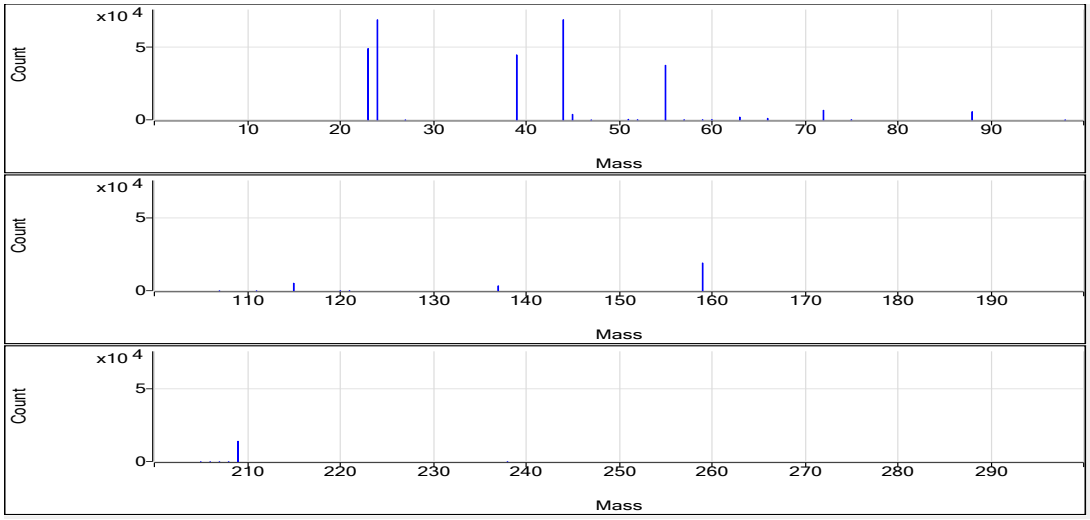


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Se	78	2	H2	0.008	0.0001	6.67	0.0004	6.3E-05
Se	78	2	H2	-0.041	0	4.67	0.0004	6.3E-05
Na	23	3	He	4771.02	12.643	489111.01	0.0025	0.7502
Na	23	3	He	4872.825	12.8968	491947.14	0.0025	0.7502
Na	23	3	He	4741.989	12.5707	485427.96	0.0025	0.7502
Mg	24	3	He	14534.167	17.6252	681854.44	0.0012	0.02618
Mg	24	3	He	14831.785	17.9856	686059.99	0.0012	0.02618
Mg	24	3	He	14682.763	17.8052	687563.97	0.0012	0.02618
Al	27	3	He	-1.108	0.0049	190.01	0.0004	0.005329
Al	27	3	He	-1.618	0.0047	180.01	0.0004	0.005329
Al	27	3	He	3.723	0.0067	260.01	0.0004	0.005329
K	39	3	He	1858.452	2.376	91919.15	0.001	0.5307
K	39	3	He	1794.515	2.3125	88211.25	0.001	0.5307
K	39	3	He	1728.138	2.2466	86755.41	0.001	0.5307
Ca	44	3	He	66947.368	3.5285	136505.09	0.0001	0.004441
Ca	44	3	He	68127.714	3.5906	136965.05	0.0001	0.004441
Ca	44	3	He	67810.551	3.574	138011.72	0.0001	0.004441
Ti	47	3	He	-0.862	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.861	0.0001	4.00	0.0004	0.0004559
V	51	3	He	-0.105	0.0242	938.03	0.0176	0.02609
V	51	3	He	-0.091	0.0245	934.03	0.0176	0.02609
V	51	3	He	-0.27	0.0213	824.03	0.0176	0.02609
Cr	52	3	He	-0.461	0.0406	1570.12	0.0217	0.05061
Cr	52	3	He	-0.568	0.0383	1460.11	0.0217	0.05061
Cr	52	3	He	-0.708	0.0352	1360.09	0.0217	0.05061
Mn	55	3	He	212.32	1.9459	75280.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	214.044	1.9616	74826.00	0.0091	0.01071
Mn	55	3	He	210.694	1.9311	74570.95	0.0091	0.01071
Fe	57	3	He	51.336	0.029	1120.07	0.0004	0.008452
Fe	57	3	He	43.83	0.026	990.06	0.0004	0.008452
Fe	57	3	He	53.414	0.0298	1150.08	0.0004	0.008452
Co	59	3	He	0.031	0.0073	282.00	0.0413	0.006013
Co	59	3	He	0.046	0.0079	302.00	0.0413	0.006013
Co	59	3	He	0.019	0.0068	262.00	0.0413	0.006013
Ni	60	3	He	-0.122	0.0103	398.01	0.0117	0.01172
Ni	60	3	He	-0.065	0.011	418.01	0.0117	0.01172
Ni	60	3	He	-0.098	0.0106	408.01	0.0117	0.01172
Cu	63	3	He	2.314	0.0597	3952.50	0.0196	0.01443
Cu	63	3	He	2.203	0.0575	3850.48	0.0196	0.01443
Cu	63	3	He	2.358	0.0606	4062.52	0.0196	0.01443
Zn	66	3	He	13.586	0.0337	2230.17	0.0023	0.002807
Zn	66	3	He	13.86	0.0343	2296.17	0.0023	0.002807
Zn	66	3	He	13.275	0.033	2212.17	0.0023	0.002807
As	75	3	He	1.738	0.0045	296.00	0.0018	0.001271
As	75	3	He	1.956	0.0049	326.01	0.0018	0.001271
As	75	3	He	2.176	0.0053	354.01	0.0018	0.001271
Sr	88	3	He	130.775	1.0756	56290.52	0.0082	0.00114
Sr	88	3	He	132.406	1.089	57364.08	0.0082	0.00114
Sr	88	3	He	128.227	1.0547	55989.19	0.0082	0.00114
Mo	98	3	He	0.25	0.0059	310.01	0.0177	0.001504
Mo	98	3	He	0.344	0.0076	400.02	0.0177	0.001504
Mo	98	3	He	0.213	0.0053	280.02	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.0009	50.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.298	0.0147	770.05	0.0126	0.01097
Sn	120	3	He	0.094	0.0122	640.03	0.0126	0.01097
Sn	120	3	He	0.236	0.0139	740.04	0.0126	0.01097
Sb	121	3	He	0.372	0.0048	253.34	0.012	0.0003595
Sb	121	3	He	0.285	0.0038	200.00	0.012	0.0003595
Sb	121	3	He	0.34	0.0045	236.67	0.012	0.0003595
Ba	137	3	He	167.496	0.6539	34218.79	0.0039	0.0003633
Ba	137	3	He	163.287	0.6374	33577.33	0.0039	0.0003633
Ba	137	3	He	165.216	0.645	34238.91	0.0039	0.0003633
Tl	205	3	He	-0.059	0.0002	40.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Pb	208	3	He	0.073	0.0033	350.02	0.0252	0.001497
Pb	208	3	He	0.028	0.0022	230.01	0.0252	0.001497
Pb	208	3	He	0.053	0.0028	290.01	0.0252	0.001497
U	238	3	He	0.114	0.0029	550.03	0.0245	0.0001141
U	238	3	He	0.11	0.0028	540.03	0.0245	0.0001141
U	238	3	He	0.089	0.0023	440.02	0.0245	0.0001141
Sc	45	1	No Gas			1622818.73		
Sc	45	1	No Gas			1627665.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629557.94		
Ge	72	1	No Gas			822459.21		
Ge	72	1	No Gas			827846.24		
Ge	72	1	No Gas			844699.13		
Sc	45	2	H2			133529.16		
Sc	45	2	H2			129870.80		
Sc	45	2	H2			129054.06		
Ge	72	2	H2			99044.59		
Ge	72	2	H2			100874.75		
Ge	72	2	H2			98792.25		
In	115	2	H2			242408.28		
In	115	2	H2			241079.94		
In	115	2	H2			244095.09		
Sc	45	3	He			38686.25		
Sc	45	3	He			38144.92		
Sc	45	3	He			38615.97		
Ge	72	3	He			66206.36		
Ge	72	3	He			66929.00		
Ge	72	3	He			67080.45		
In	115	3	He			52338.53		
In	115	3	He			52679.63		
In	115	3	He			53091.41		
Tb	159	3	He			188987.85		
Tb	159	3	He			191430.72		
Tb	159	3	He			191035.66		
Bi	209	3	He			141319.83		
Bi	209	3	He			141240.01		
Bi	209	3	He			139541.99		

Quantitation Report

Data File Name	301SMPL.d
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Acq Time	7/10/2025 9:04:31 PM
Sample Name	180-192289-F-1-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

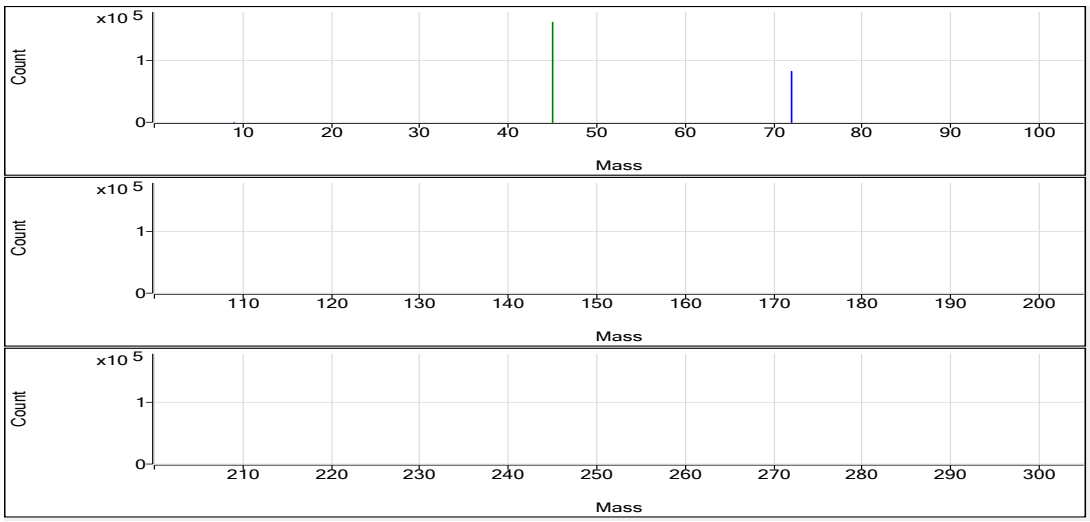
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.014	ppb	N/A	34.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.053	ppb	N/A	4.22	0.0000	Pulse	1.5000	3
Na	23	45	He	203865.521	ppb	1.6	19551498.04	508.9307	Analog	0.1000	3
Mg	24	45	He	191.269	ppb	2.2	9906.53	0.2578	Pulse	0.1000	3
Al	27	45	He	-0.617	ppb	N/A	196.70	0.0051	Pulse	0.1000	3
K	39	45	He	775.289	ppb	12.8	49939.18	1.3005	Pulse	0.5000	3
Ca	44	45	He	714.082	ppb	7.1	1614.09	0.0420	Pulse	0.5000	3
Ti	47	45	He	-0.903	ppb	N/A	3.33	0.0001	Pulse	0.5000	3
V	51	45	He	-0.058	ppb	N/A	964.03	0.0251	Pulse	0.5000	3
Cr	52	45	He	-0.871	ppb	N/A	1216.75	0.0317	Pulse	0.1000	3
Mn	55	45	He	2.111	ppb	4.3	1150.72	0.0299	Pulse	0.5000	3
Fe	57	45	He	2.078	ppb	41.4	356.68	0.0093	Pulse	0.1000	3
Co	59	45	He	-0.061	ppb	N/A	134.67	0.0035	Pulse	0.5000	3
Ni	60	45	He	-0.280	ppb	N/A	324.01	0.0084	Pulse	0.5000	3
Cu	63	72	He	-0.160	ppb	N/A	739.35	0.0113	Pulse	0.5000	3
Zn	66	72	He	1.081	ppb	6.4	344.68	0.0053	Pulse	0.5000	3
As	75	72	He	1.823	ppb	13.1	303.34	0.0046	Pulse	0.5000	3
Sr	88	115	He	28.477	ppb	3.3	12315.10	0.2351	Pulse	0.1000	3
Mo	98	115	He	0.123	ppb	33.0	193.34	0.0037	Pulse	0.1000	3
Ag	107	115	He	-0.026	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	-0.009	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.148	ppb	95.7	673.37	0.0128	Pulse	0.1000	3
Sb	121	115	He	0.173	ppb	32.8	127.78	0.0024	Pulse	0.3000	3
Ba	137	115	He	55.928	ppb	3.5	11444.64	0.2186	Pulse	0.1000	3
Tl	205	159	He	-0.048	ppb	N/A	80.00	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.018	ppb	N/A	196.67	0.0010	Pulse	0.1000	3
U	238	159	He	-0.003	ppb	N/A	10.00	0.0001	Pulse	0.1000	3

ISTD Table:

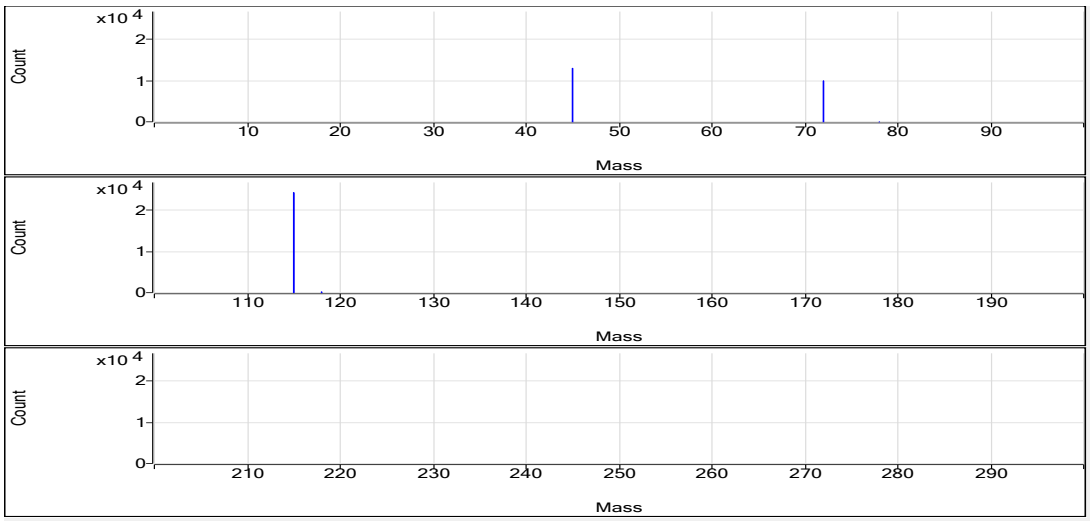
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1626064.35	0.9	95.2	Analog	0.1000	3
No Gas	Ge	72	828607.62	0.5	95.9	Pulse	0.1000	3
H2	Sc	45	130024.96	0.7	97.3	Pulse	0.1000	3
H2	Ge	72	99446.60	1.3	100.4	Pulse	0.1000	3
H2	In	115	242743.62	0.5	94.6	Pulse	0.1000	3
He	Sc	45	38422.50	1.4	97.3	Pulse	0.1000	3
He	Ge	72	65486.76	1.6	96.2	Pulse	0.1000	3
He	In	115	52387.36	2.2	94.6	Pulse	0.1000	3
He	Tb	159	190113.12	0.3	92.8	Pulse	0.1000	3
He	Bi	209	143238.39	0.7	94.7	Pulse	0.1000	3

No Gas

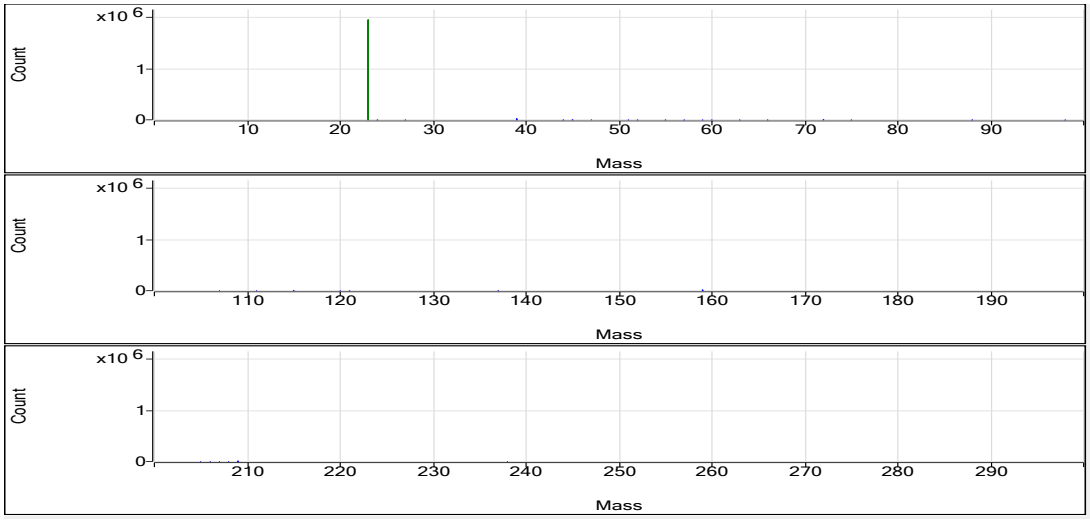


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.001	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.005	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Se	78	2	H2	-0.128	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.005	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.026	0.0001	5.33	0.0004	6.3E-05
Na	23	3	He	207449.081	517.8635	19634602.21	0.0025	0.7502
Na	23	3	He	200940.171	501.6386	19567580.96	0.0025	0.7502
Na	23	3	He	203207.312	507.2899	19452310.96	0.0025	0.7502
Mg	24	3	He	188.42	0.2543	9643.02	0.0012	0.02618
Mg	24	3	He	196.095	0.2636	10283.45	0.0012	0.02618
Mg	24	3	He	189.292	0.2554	9793.11	0.0012	0.02618
Al	27	3	He	-2.941	0.0042	160.01	0.0004	0.005329
Al	27	3	He	8.308	0.0085	330.09	0.0004	0.005329
Al	27	3	He	-7.217	0.0026	100.00	0.0004	0.005329
K	39	3	He	889.798	1.4142	53618.44	0.001	0.5307
K	39	3	He	718.494	1.2441	48528.72	0.001	0.5307
K	39	3	He	717.574	1.2432	47670.38	0.001	0.5307
Ca	44	3	He	772.482	0.0451	1710.10	0.0001	0.004441
Ca	44	3	He	683.215	0.0404	1576.09	0.0001	0.004441
Ca	44	3	He	686.549	0.0406	1556.08	0.0001	0.004441
Ti	47	3	He	-0.986	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.864	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.86	0.0001	4.00	0.0004	0.0004559
V	51	3	He	-0.116	0.0241	912.03	0.0176	0.02609
V	51	3	He	0.006	0.0262	1022.04	0.0176	0.02609
V	51	3	He	-0.063	0.025	958.03	0.0176	0.02609
Cr	52	3	He	-0.836	0.0324	1230.09	0.0217	0.05061
Cr	52	3	He	-0.996	0.029	1130.07	0.0217	0.05061
Cr	52	3	He	-0.781	0.0336	1290.09	0.0217	0.05061
Mn	55	3	He	2.153	0.0303	1150.05	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	2.172	0.0305	1190.05	0.0091	0.01071
Mn	55	3	He	2.007	0.029	1112.05	0.0091	0.01071
Fe	57	3	He	1.291	0.009	340.01	0.0004	0.008452
Fe	57	3	He	1.946	0.0092	360.02	0.0004	0.008452
Fe	57	3	He	2.998	0.0096	370.02	0.0004	0.008452
Co	59	3	He	-0.077	0.0028	108.00	0.0413	0.006013
Co	59	3	He	-0.048	0.0041	158.00	0.0413	0.006013
Co	59	3	He	-0.058	0.0036	138.00	0.0413	0.006013
Ni	60	3	He	-0.301	0.0082	310.00	0.0117	0.01172
Ni	60	3	He	-0.247	0.0088	344.01	0.0117	0.01172
Ni	60	3	He	-0.291	0.0083	318.01	0.0117	0.01172
Cu	63	3	He	-0.151	0.0115	750.02	0.0196	0.01443
Cu	63	3	He	-0.142	0.0117	752.02	0.0196	0.01443
Cu	63	3	He	-0.189	0.0107	716.02	0.0196	0.01443
Zn	66	3	He	1.001	0.0051	332.01	0.0023	0.002807
Zn	66	3	He	1.125	0.0054	346.01	0.0023	0.002807
Zn	66	3	He	1.115	0.0053	356.01	0.0023	0.002807
As	75	3	He	1.705	0.0044	288.00	0.0018	0.001271
As	75	3	He	1.668	0.0043	280.00	0.0018	0.001271
As	75	3	He	2.098	0.0051	342.01	0.0018	0.001271
Sr	88	3	He	27.412	0.2264	11984.79	0.0082	0.00114
Sr	88	3	He	28.912	0.2387	12185.04	0.0082	0.00114
Sr	88	3	He	29.107	0.2403	12775.47	0.0082	0.00114
Mo	98	3	He	0.096	0.0032	170.01	0.0177	0.001504
Mo	98	3	He	0.103	0.0033	170.01	0.0177	0.001504
Mo	98	3	He	0.17	0.0045	240.01	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.239	0.014	740.05	0.0126	0.01097
Sn	120	3	He	-0.015	0.0108	550.03	0.0126	0.01097
Sn	120	3	He	0.22	0.0137	730.04	0.0126	0.01097
Sb	121	3	He	0.116	0.0018	93.33	0.012	0.0003595
Sb	121	3	He	0.23	0.0031	160.00	0.012	0.0003595
Sb	121	3	He	0.173	0.0024	130.00	0.012	0.0003595
Ba	137	3	He	55.552	0.2171	11494.66	0.0039	0.0003633
Ba	137	3	He	58.019	0.2267	11574.77	0.0039	0.0003633
Ba	137	3	He	54.211	0.2119	11264.50	0.0039	0.0003633
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Pb	208	3	He	-0.003	0.0014	150.01	0.0252	0.001497
Pb	208	3	He	-0.024	0.0009	100.00	0.0252	0.001497
Pb	208	3	He	-0.028	0.0008	110.00	0.0252	0.001497
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	-0.003	0.0001	10.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1636300.76		
Sc	45	1	No Gas			1632974.66		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1608917.63		
Ge	72	1	No Gas			824688.03		
Ge	72	1	No Gas			828034.83		
Ge	72	1	No Gas			833099.99		
Sc	45	2	H2			130374.71		
Sc	45	2	H2			128993.32		
Sc	45	2	H2			130706.85		
Ge	72	2	H2			99768.15		
Ge	72	2	H2			98008.01		
Ge	72	2	H2			100563.64		
In	115	2	H2			243972.65		
In	115	2	H2			241698.32		
In	115	2	H2			242559.90		
Sc	45	3	He			37914.63		
Sc	45	3	He			39007.33		
Sc	45	3	He			38345.55		
Ge	72	3	He			65322.43		
Ge	72	3	He			64499.87		
Ge	72	3	He			66637.99		
In	115	3	He			52950.33		
In	115	3	He			51054.56		
In	115	3	He			53171.32		
Tb	159	3	He			189608.12		
Tb	159	3	He			190761.17		
Tb	159	3	He			189970.06		
Bi	209	3	He			144026.34		
Bi	209	3	He			142167.80		
Bi	209	3	He			143521.03		

Quantitation Report

Data File Name	302SMPL.d
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Acq Time	7/10/2025 9:06:42 PM
Sample Name	180-192288-F-1-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

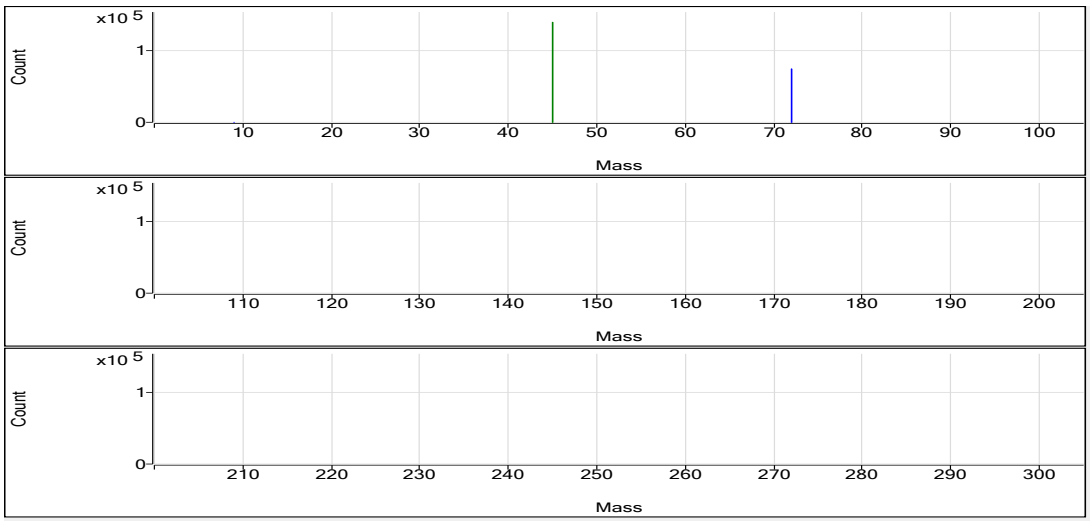
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.002	ppb	936.8	36.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.064	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	6940.664	ppb	2.4	695476.52	18.0513	Pulse	0.1000	3
Mg	24	45	He	32210.387	ppb	2.6	1503673.99	39.0289	Analog	0.1000	3
Al	27	45	He	0.334	ppb	596.8	210.01	0.0055	Pulse	0.1000	3
K	39	45	He	2099.690	ppb	2.5	100795.76	2.6156	Pulse	0.5000	3
Ca	44	45	He	138189.723	ppb	2.0	280436.05	7.2787	Pulse	0.5000	3
Ti	47	45	He	-0.988	ppb	N/A	2.00	0.0001	Pulse	0.5000	3
V	51	45	He	-0.206	ppb	N/A	866.03	0.0225	Pulse	0.5000	3
Cr	52	45	He	-0.740	ppb	N/A	1330.11	0.0345	Pulse	0.1000	3
Mn	55	45	He	518.901	ppb	2.6	182628.46	4.7403	Pulse	0.5000	3
Fe	57	45	He	2632.237	ppb	2.0	40825.55	1.0596	Pulse	0.1000	3
Co	59	45	He	0.022	ppb	91.8	266.00	0.0069	Pulse	0.5000	3
Ni	60	45	He	-0.180	ppb	N/A	370.01	0.0096	Pulse	0.5000	3
Cu	63	72	He	-0.315	ppb	N/A	540.01	0.0083	Pulse	0.5000	3
Zn	66	72	He	10.162	ppb	2.8	1693.43	0.0259	Pulse	0.5000	3
As	75	72	He	2.520	ppb	8.1	386.68	0.0059	Pulse	0.5000	3
Sr	88	115	He	272.704	ppb	0.4	116330.67	2.2417	Pulse	0.1000	3
Mo	98	115	He	0.126	ppb	35.6	193.34	0.0037	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	137.3	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.185	ppb	49.0	690.04	0.0133	Pulse	0.1000	3
Sb	121	115	He	0.130	ppb	15.7	100.00	0.0019	Pulse	0.3000	3
Ba	137	115	He	134.850	ppb	2.3	27321.60	0.5265	Pulse	0.1000	3
Tl	205	159	He	-0.055	ppb	N/A	56.67	0.0003	Pulse	0.1000	3
Pb	208	159	He	0.065	ppb	22.4	590.03	0.0031	Pulse	0.1000	3
U	238	159	He	0.000	ppb	867.6	23.33	0.0001	Pulse	0.1000	3

ISTD Table:

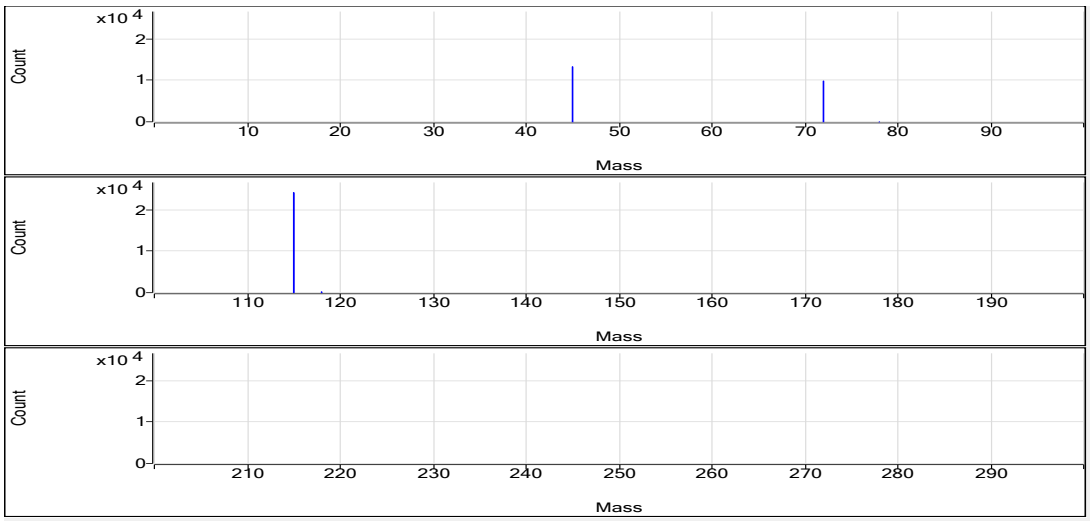
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1398955.16	14.4	81.9	Analog	0.1000	3
No Gas	Ge	72	747173.09	8.2	86.5	Pulse	0.1000	3
H2	Sc	45	132669.28	1.3	99.3	Pulse	0.1000	3
H2	Ge	72	98476.84	1.7	99.4	Pulse	0.1000	3
H2	In	115	241035.03	1.8	93.9	Pulse	0.1000	3
He	Sc	45	38536.08	1.5	97.6	Pulse	0.1000	3
He	Ge	72	65396.56	2.1	96.0	Pulse	0.1000	3
He	In	115	51892.53	1.0	93.7	Pulse	0.1000	3
He	Tb	159	188840.49	0.9	92.2	Pulse	0.1000	3
He	Bi	209	140585.39	0.4	92.9	Pulse	0.1000	3

No Gas

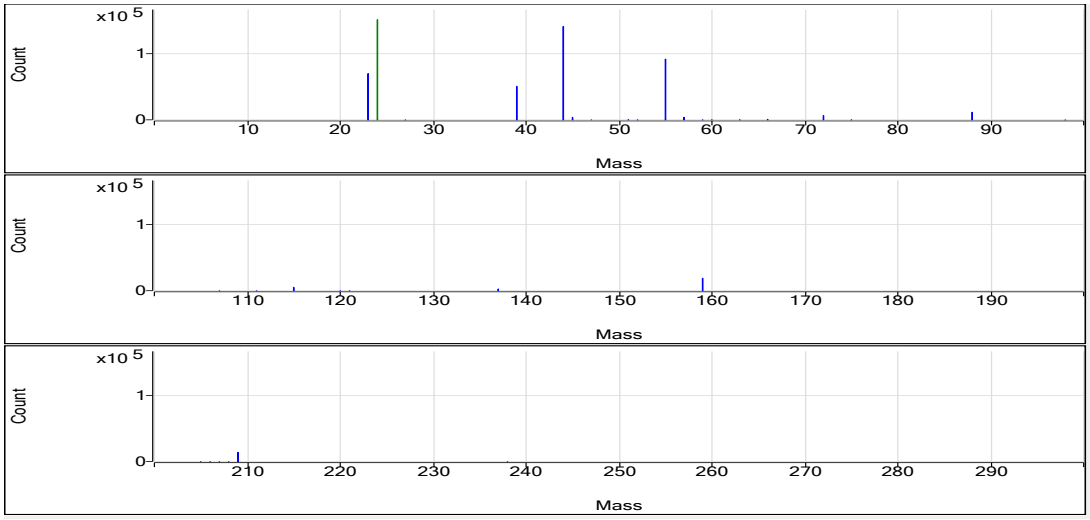


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.007	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	0.019	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.007	0	36.00	0.0003	2.616E-05
Se	78	2	H2	-0.077	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.004	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Na	23	3	He	6799.665	17.6999	692724.83	0.0025	0.7502
Na	23	3	He	7126.081	18.5135	703425.38	0.0025	0.7502
Na	23	3	He	6896.245	17.9406	690279.36	0.0025	0.7502
Mg	24	3	He	31606.038	38.2971	1498845.92	0.0012	0.02618
Mg	24	3	He	33173.584	40.1952	1527225.91	0.0012	0.02618
Mg	24	3	He	31851.54	38.5944	1484950.13	0.0012	0.02618
Al	27	3	He	-0.581	0.0051	200.01	0.0004	0.005329
Al	27	3	He	2.619	0.0063	240.01	0.0004	0.005329
Al	27	3	He	-1.037	0.0049	190.01	0.0004	0.005329
K	39	3	He	2131.691	2.6473	103609.28	0.001	0.5307
K	39	3	He	2127.565	2.6432	100430.12	0.001	0.5307
K	39	3	He	2039.812	2.5561	98347.87	0.001	0.5307
Ca	44	3	He	135426.864	7.1332	279175.75	0.0001	0.004441
Ca	44	3	He	140995.728	7.4264	282166.94	0.0001	0.004441
Ca	44	3	He	138146.577	7.2764	279965.47	0.0001	0.004441
Ti	47	3	He	-0.865	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.986	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	-0.263	0.0215	840.03	0.0176	0.02609
V	51	3	He	-0.227	0.0221	840.03	0.0176	0.02609
V	51	3	He	-0.127	0.0239	918.03	0.0176	0.02609
Cr	52	3	He	-0.8	0.0332	1300.10	0.0217	0.05061
Cr	52	3	He	-0.658	0.0363	1380.13	0.0217	0.05061
Cr	52	3	He	-0.762	0.034	1310.09	0.0217	0.05061
Mn	55	3	He	508.887	4.649	181948.56	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	534.221	4.8799	185412.55	0.0091	0.01071
Mn	55	3	He	513.595	4.6919	180524.27	0.0091	0.01071
Fe	57	3	He	2572.838	1.0359	40541.62	0.0004	0.008452
Fe	57	3	He	2666.004	1.0731	40772.14	0.0004	0.008452
Fe	57	3	He	2657.87	1.0698	41162.88	0.0004	0.008452
Co	59	3	He	0.029	0.0072	282.00	0.0413	0.006013
Co	59	3	He	0.037	0.0075	286.00	0.0413	0.006013
Co	59	3	He	-0.001	0.006	230.00	0.0413	0.006013
Ni	60	3	He	-0.162	0.0098	384.01	0.0117	0.01172
Ni	60	3	He	-0.119	0.0103	392.01	0.0117	0.01172
Ni	60	3	He	-0.258	0.0087	334.01	0.0117	0.01172
Cu	63	3	He	-0.339	0.0078	514.01	0.0196	0.01443
Cu	63	3	He	-0.27	0.0091	584.01	0.0196	0.01443
Cu	63	3	He	-0.337	0.0078	522.01	0.0196	0.01443
Zn	66	3	He	10.234	0.0261	1716.10	0.0023	0.002807
Zn	66	3	He	10.398	0.0264	1688.10	0.0023	0.002807
Zn	66	3	He	9.853	0.0252	1676.10	0.0023	0.002807
As	75	3	He	2.396	0.0057	374.01	0.0018	0.001271
As	75	3	He	2.407	0.0057	364.01	0.0018	0.001271
As	75	3	He	2.757	0.0063	422.01	0.0018	0.001271
Sr	88	3	He	272.41	2.2393	117191.00	0.0082	0.00114
Sr	88	3	He	273.85	2.2512	117089.03	0.0082	0.00114
Sr	88	3	He	271.852	2.2347	114711.99	0.0082	0.00114
Mo	98	3	He	0.077	0.0029	150.01	0.0177	0.001504
Mo	98	3	He	0.165	0.0044	230.01	0.0177	0.001504
Mo	98	3	He	0.135	0.0039	200.01	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.283	0.0145	760.04	0.0126	0.01097
Sn	120	3	He	0.168	0.0131	680.04	0.0126	0.01097
Sn	120	3	He	0.104	0.0123	630.03	0.0126	0.01097
Sb	121	3	He	0.129	0.0019	100.00	0.012	0.0003595
Sb	121	3	He	0.151	0.0022	113.34	0.012	0.0003595
Sb	121	3	He	0.11	0.0017	86.67	0.012	0.0003595
Ba	137	3	He	132.8	0.5185	27134.51	0.0039	0.0003633
Ba	137	3	He	138.457	0.5406	28116.43	0.0039	0.0003633
Ba	137	3	He	133.293	0.5204	26713.85	0.0039	0.0003633
Tl	205	3	He	-0.056	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Pb	208	3	He	0.052	0.0028	210.01	0.0252	0.001497
Pb	208	3	He	0.081	0.0035	310.01	0.0252	0.001497
Pb	208	3	He	0.062	0.003	330.02	0.0252	0.001497
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	-0.002	0.0001	10.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1515922.16		
Sc	45	1	No Gas			1165945.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1514997.63		
Ge	72	1	No Gas			776552.80		
Ge	72	1	No Gas			676835.15		
Ge	72	1	No Gas			788131.32		
Sc	45	2	H2			134668.62		
Sc	45	2	H2			132076.93		
Sc	45	2	H2			131262.29		
Ge	72	2	H2			100311.77		
Ge	72	2	H2			97916.90		
Ge	72	2	H2			97201.86		
In	115	2	H2			245841.17		
In	115	2	H2			237790.06		
In	115	2	H2			239473.86		
Sc	45	3	He			39137.28		
Sc	45	3	He			37995.19		
Sc	45	3	He			38475.78		
Ge	72	3	He			65834.52		
Ge	72	3	He			63847.30		
Ge	72	3	He			66507.86		
In	115	3	He			52338.65		
In	115	3	He			52017.68		
In	115	3	He			51335.76		
Tb	159	3	He			188715.13		
Tb	159	3	He			187297.34		
Tb	159	3	He			190509.00		
Bi	209	3	He			140157.76		
Bi	209	3	He			140430.42		
Bi	209	3	He			141167.99		

Quantitation Report

Data File Name	303SMPL.d
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Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

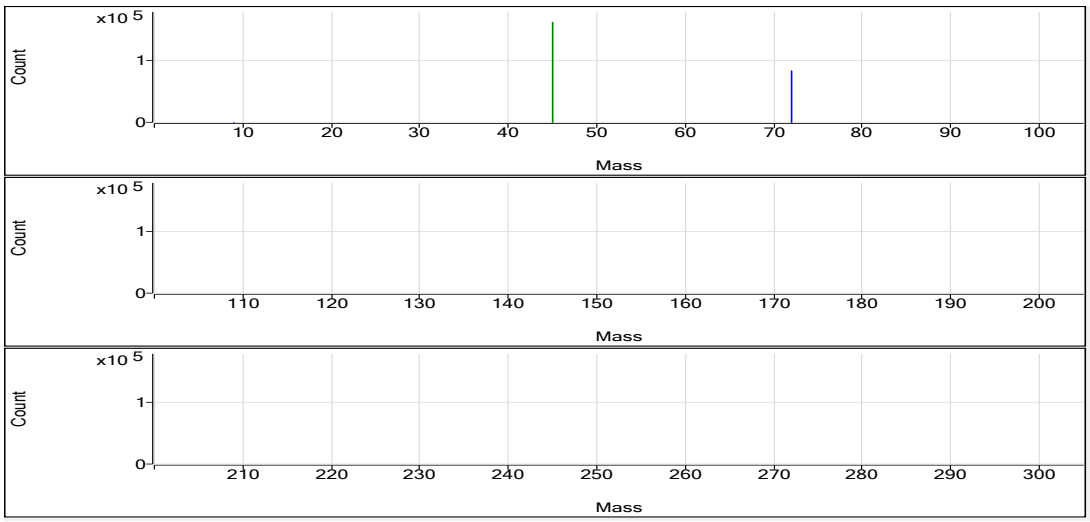
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.027	ppb	N/A	27.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.041	ppb	N/A	4.67	0.0000	Pulse	1.5000	3
Na	23	45	He	17032.231	ppb	0.7	1647942.16	43.2068	Analog	0.1000	3
Mg	24	45	He	6043.199	ppb	0.7	280096.15	7.3437	Pulse	0.1000	3
Al	27	45	He	1.401	ppb	203.9	223.34	0.0059	Pulse	0.1000	3
K	39	45	He	1729.401	ppb	4.1	85724.96	2.2479	Pulse	0.5000	3
Ca	44	45	He	58749.654	ppb	0.6	118121.21	3.0970	Pulse	0.5000	3
Ti	47	45	He	-1.029	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
V	51	45	He	-0.051	ppb	N/A	960.70	0.0252	Pulse	0.5000	3
Cr	52	45	He	-0.615	ppb	N/A	1420.11	0.0372	Pulse	0.1000	3
Mn	55	45	He	3.860	ppb	4.0	1750.10	0.0459	Pulse	0.5000	3
Fe	57	45	He	-0.776	ppb	N/A	310.01	0.0081	Pulse	0.1000	3
Co	59	45	He	-0.027	ppb	N/A	186.67	0.0049	Pulse	0.5000	3
Ni	60	45	He	0.007	ppb	393.2	450.01	0.0118	Pulse	0.5000	3
Cu	63	72	He	4.792	ppb	4.0	7127.60	0.1082	Pulse	0.5000	3
Zn	66	72	He	6.552	ppb	4.4	1166.05	0.0177	Pulse	0.5000	3
As	75	72	He	4.168	ppb	4.8	589.35	0.0089	Pulse	0.5000	3
Sr	88	115	He	607.073	ppb	1.2	264399.02	4.9890	Pulse	0.1000	3
Mo	98	115	He	0.994	ppb	16.4	1013.40	0.0191	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	-0.006	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.394	ppb	29.8	843.39	0.0159	Pulse	0.1000	3
Sb	121	115	He	0.073	ppb	26.7	65.56	0.0012	Pulse	0.3000	3
Ba	137	115	He	159.705	ppb	2.1	33039.70	0.6235	Pulse	0.1000	3
Tl	205	159	He	-0.054	ppb	N/A	60.00	0.0003	Pulse	0.1000	3
Pb	208	159	He	0.591	ppb	6.1	3096.91	0.0164	Pulse	0.1000	3
U	238	159	He	2.993	ppb	1.1	13933.97	0.0736	Pulse	0.1000	3

ISTD Table:

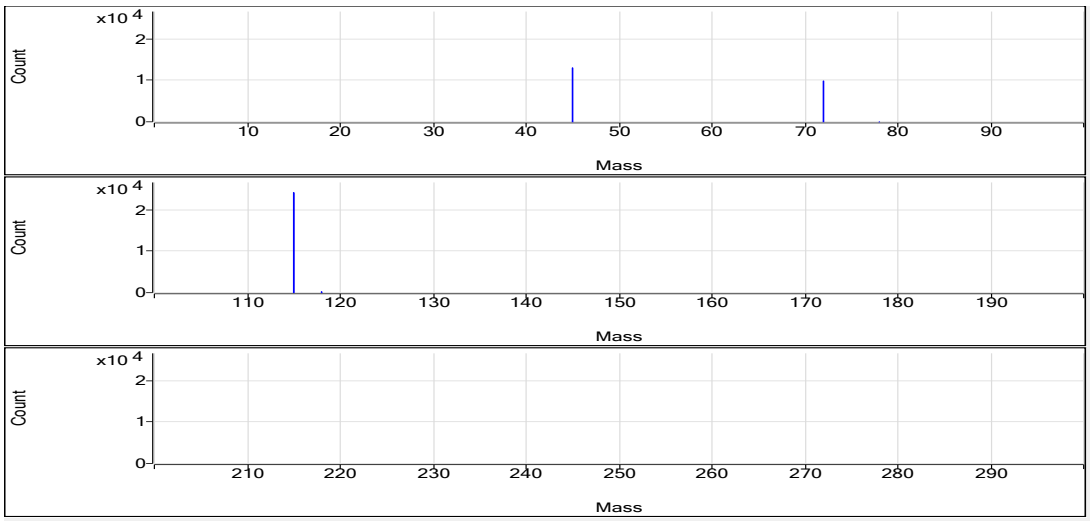
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1611379.35	1.4	94.3	Analog	0.1000	3
No Gas	Ge	72	828081.81	0.6	95.9	Pulse	0.1000	3
H2	Sc	45	130331.06	1.7	97.5	Pulse	0.1000	3
H2	Ge	72	98826.03	1.9	99.8	Pulse	0.1000	3
H2	In	115	241710.74	1.0	94.2	Pulse	0.1000	3
He	Sc	45	38141.86	0.8	96.6	Pulse	0.1000	3
He	Ge	72	65895.42	1.1	96.8	Pulse	0.1000	3
He	In	115	53001.46	1.2	95.7	Pulse	0.1000	3
He	Tb	159	189353.52	0.5	92.5	Pulse	0.1000	3
He	Bi	209	139864.97	1.3	92.5	Pulse	0.1000	3

No Gas

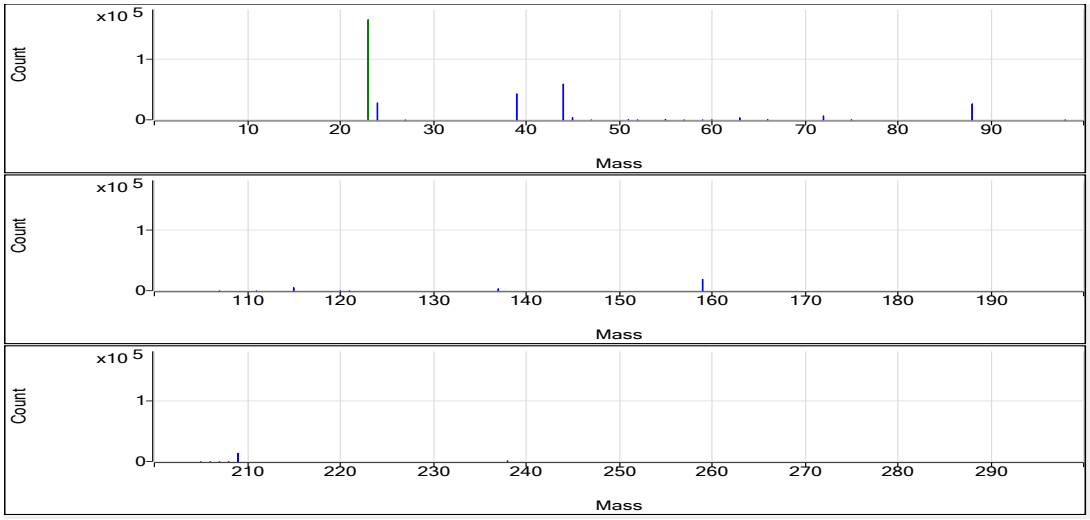


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.048	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Se	78	2	H2	-0.022	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	-0.043	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.057	0	4.00	0.0004	6.3E-05
Na	23	3	He	17179.618	43.5742	1651230.60	0.0025	0.7502
Na	23	3	He	16961.763	43.0312	1636244.19	0.0025	0.7502
Na	23	3	He	16955.311	43.0151	1656351.69	0.0025	0.7502
Mg	24	3	He	6037.975	7.3374	278048.82	0.0012	0.02618
Mg	24	3	He	6089.631	7.4	281380.80	0.0012	0.02618
Mg	24	3	He	6001.991	7.2938	280858.82	0.0012	0.02618
Al	27	3	He	-0.136	0.0053	200.01	0.0004	0.005329
Al	27	3	He	4.698	0.0071	270.01	0.0004	0.005329
Al	27	3	He	-0.358	0.0052	200.01	0.0004	0.005329
K	39	3	He	1806.579	2.3245	88086.45	0.001	0.5307
K	39	3	He	1713.864	2.2324	84887.94	0.001	0.5307
K	39	3	He	1667.761	2.1867	84200.50	0.001	0.5307
Ca	44	3	He	59027.436	3.1116	117913.63	0.0001	0.004441
Ca	44	3	He	58854.601	3.1025	117972.06	0.0001	0.004441
Ca	44	3	He	58366.924	3.0768	118477.95	0.0001	0.004441
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.986	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.988	0.0001	2.00	0.0004	0.0004559
V	51	3	He	-0.079	0.0247	936.03	0.0176	0.02609
V	51	3	He	0.021	0.0265	1006.04	0.0176	0.02609
V	51	3	He	-0.096	0.0244	940.03	0.0176	0.02609
Cr	52	3	He	-0.41	0.0417	1580.13	0.0217	0.05061
Cr	52	3	He	-0.768	0.0339	1290.10	0.0217	0.05061
Cr	52	3	He	-0.668	0.0361	1390.10	0.0217	0.05061
Mn	55	3	He	3.811	0.0454	1722.10	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	4.031	0.0474	1804.11	0.0091	0.01071
Mn	55	3	He	3.737	0.0448	1724.10	0.0091	0.01071
Fe	57	3	He	9.233	0.0121	460.02	0.0004	0.008452
Fe	57	3	He	-4.701	0.0066	250.01	0.0004	0.008452
Fe	57	3	He	-6.858	0.0057	220.01	0.0004	0.008452
Co	59	3	He	-0.041	0.0043	164.00	0.0413	0.006013
Co	59	3	He	-0.009	0.0056	214.00	0.0413	0.006013
Co	59	3	He	-0.031	0.0047	182.00	0.0413	0.006013
Ni	60	3	He	0.009	0.0118	448.01	0.0117	0.01172
Ni	60	3	He	-0.021	0.0115	436.01	0.0117	0.01172
Ni	60	3	He	0.033	0.0121	466.01	0.0117	0.01172
Cu	63	3	He	4.903	0.1104	7185.62	0.0196	0.01443
Cu	63	3	He	4.571	0.1038	6899.50	0.0196	0.01443
Cu	63	3	He	4.903	0.1103	7297.67	0.0196	0.01443
Zn	66	3	He	6.739	0.0181	1180.05	0.0023	0.002807
Zn	66	3	He	6.222	0.0169	1126.05	0.0023	0.002807
Zn	66	3	He	6.695	0.018	1192.05	0.0023	0.002807
As	75	3	He	4.232	0.0091	590.02	0.0018	0.001271
As	75	3	He	4.33	0.0092	614.02	0.0018	0.001271
As	75	3	He	3.942	0.0085	564.01	0.0018	0.001271
Sr	88	3	He	613.663	5.0431	264120.13	0.0082	0.00114
Sr	88	3	He	608.413	5	265125.89	0.0082	0.00114
Sr	88	3	He	599.144	4.9238	263951.03	0.0082	0.00114
Mo	98	3	He	0.928	0.0179	940.06	0.0177	0.001504
Mo	98	3	He	0.873	0.017	900.05	0.0177	0.001504
Mo	98	3	He	1.179	0.0224	1200.08	0.0177	0.001504
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.525	0.0176	920.06	0.0126	0.01097
Sn	120	3	He	0.298	0.0147	780.05	0.0126	0.01097
Sn	120	3	He	0.359	0.0155	830.05	0.0126	0.01097
Sb	121	3	He	0.092	0.0015	76.67	0.012	0.0003595
Sb	121	3	He	0.075	0.0013	66.67	0.012	0.0003595
Sb	121	3	He	0.053	0.001	53.33	0.012	0.0003595
Ba	137	3	He	163.546	0.6385	33437.21	0.0039	0.0003633
Ba	137	3	He	158.043	0.617	32715.75	0.0039	0.0003633
Ba	137	3	He	157.525	0.615	32966.13	0.0039	0.0003633
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Tl	205	3	He	-0.062	0.0002	30.00	0.0189	0.001334
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Pb	208	3	He	0.603	0.0167	1750.17	0.0252	0.001497
Pb	208	3	He	0.55	0.0153	1500.14	0.0252	0.001497
Pb	208	3	He	0.619	0.0171	1870.18	0.0252	0.001497
U	238	3	He	3.005	0.0739	13957.33	0.0245	0.0001141
U	238	3	He	3.018	0.0742	14137.46	0.0245	0.0001141
U	238	3	He	2.955	0.0727	13707.11	0.0245	0.0001141
Sc	45	1	No Gas			1588532.79		
Sc	45	1	No Gas			1634834.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1610770.44		
Ge	72	1	No Gas			830318.35		
Ge	72	1	No Gas			831964.05		
Ge	72	1	No Gas			821963.03		
Sc	45	2	H2			127925.56		
Sc	45	2	H2			130919.48		
Sc	45	2	H2			132148.13		
Ge	72	2	H2			97756.90		
Ge	72	2	H2			101015.31		
Ge	72	2	H2			97705.88		
In	115	2	H2			241300.89		
In	115	2	H2			239556.01		
In	115	2	H2			244275.33		
Sc	45	3	He			37894.66		
Sc	45	3	He			38024.62		
Sc	45	3	He			38506.29		
Ge	72	3	He			65112.52		
Ge	72	3	He			66437.30		
Ge	72	3	He			66136.45		
In	115	3	He			52378.73		
In	115	3	He			53030.73		
In	115	3	He			53612.64		
Tb	159	3	He			188919.96		
Tb	159	3	He			190506.77		
Tb	159	3	He			188633.83		
Bi	209	3	He			137844.92		
Bi	209	3	He			140370.10		
Bi	209	3	He			141379.89		

Quantitation Report

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Sample Type	Sample
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Auto Dilution	1.0000
Total Dilution	1.0000
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Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

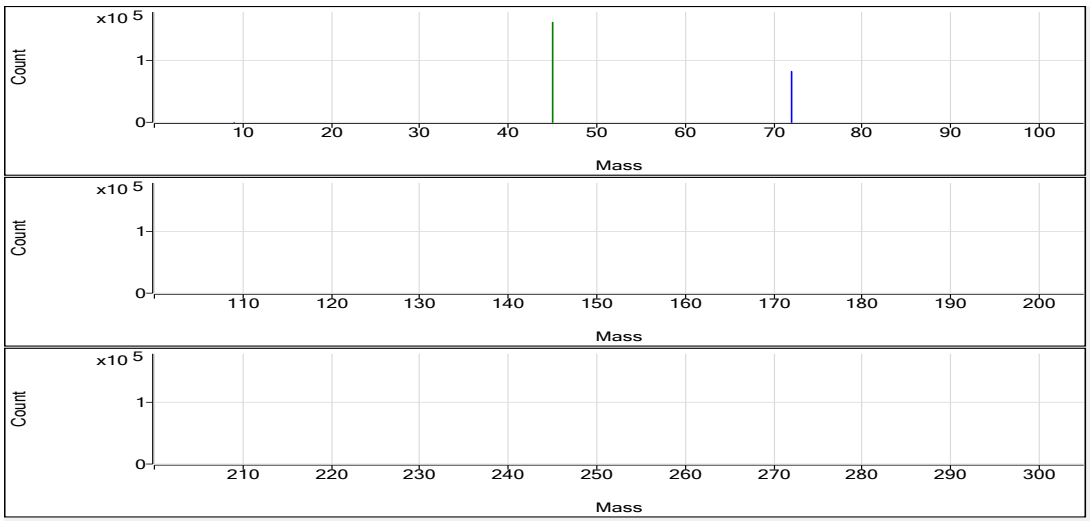
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.021	ppb	N/A	30.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.073	ppb	N/A	3.33	0.0000	Pulse	1.5000	3
Na	23	45	He	-32.505	ppb	N/A	26041.02	0.6692	Pulse	0.1000	3
Mg	24	45	He	26.328	ppb	19.0	2260.23	0.0581	Pulse	0.1000	3
Al	27	45	He	74.881	ppb	83.3	1312.62	0.0336	Pulse	0.1000	3
K	39	45	He	21.619	ppb	358.8	21482.87	0.5521	Pulse	0.5000	3
Ca	44	45	He	218.770	ppb	11.6	621.35	0.0160	Pulse	0.5000	3
Ti	47	45	He	1.794	ppb	148.4	46.00	0.0012	Pulse	0.5000	3
V	51	45	He	-0.117	ppb	N/A	935.37	0.0240	Pulse	0.5000	3
Cr	52	45	He	-0.153	ppb	N/A	1840.16	0.0473	Pulse	0.1000	3
Mn	55	45	He	45.038	ppb	1.0	16393.60	0.4212	Pulse	0.5000	3
Fe	57	45	He	51.291	ppb	11.3	1126.74	0.0289	Pulse	0.1000	3
Co	59	45	He	0.164	ppb	5.8	497.34	0.0128	Pulse	0.5000	3
Ni	60	45	He	0.348	ppb	16.4	615.35	0.0158	Pulse	0.5000	3
Cu	63	72	He	-0.240	ppb	N/A	634.68	0.0097	Pulse	0.5000	3
Zn	66	72	He	1.474	ppb	17.8	401.34	0.0062	Pulse	0.5000	3
As	75	72	He	2.061	ppb	12.9	330.01	0.0051	Pulse	0.5000	3
Sr	88	115	He	1.076	ppb	19.7	513.36	0.0100	Pulse	0.1000	3
Mo	98	115	He	0.087	ppb	18.4	156.68	0.0030	Pulse	0.1000	3
Ag	107	115	He	-0.027	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	576.5	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.232	ppb	89.0	713.37	0.0139	Pulse	0.1000	3
Sb	121	115	He	0.128	ppb	18.7	97.78	0.0019	Pulse	0.3000	3
Ba	137	115	He	3.926	ppb	4.1	806.71	0.0157	Pulse	0.1000	3
Tl	205	159	He	-0.060	ppb	N/A	36.67	0.0002	Pulse	0.1000	3
Pb	208	159	He	0.068	ppb	27.4	596.70	0.0032	Pulse	0.1000	3
U	238	159	He	0.006	ppb	60.7	46.67	0.0003	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1611545.34	1.4	94.3	Analog	0.1000	3
No Gas	Ge	72	819827.75	0.1	94.9	Pulse	0.1000	3
H2	Sc	45	129323.91	1.5	96.8	Pulse	0.1000	3
H2	Ge	72	96512.32	0.2	97.4	Pulse	0.1000	3
H2	In	115	239697.66	0.9	93.4	Pulse	0.1000	3
He	Sc	45	38920.07	1.2	98.6	Pulse	0.1000	3
He	Ge	72	65162.66	0.3	95.7	Pulse	0.1000	3
He	In	115	51437.13	1.0	92.8	Pulse	0.1000	3
He	Tb	159	185363.03	0.9	90.5	Pulse	0.1000	3
He	Bi	209	141104.41	1.7	93.3	Pulse	0.1000	3

No Gas



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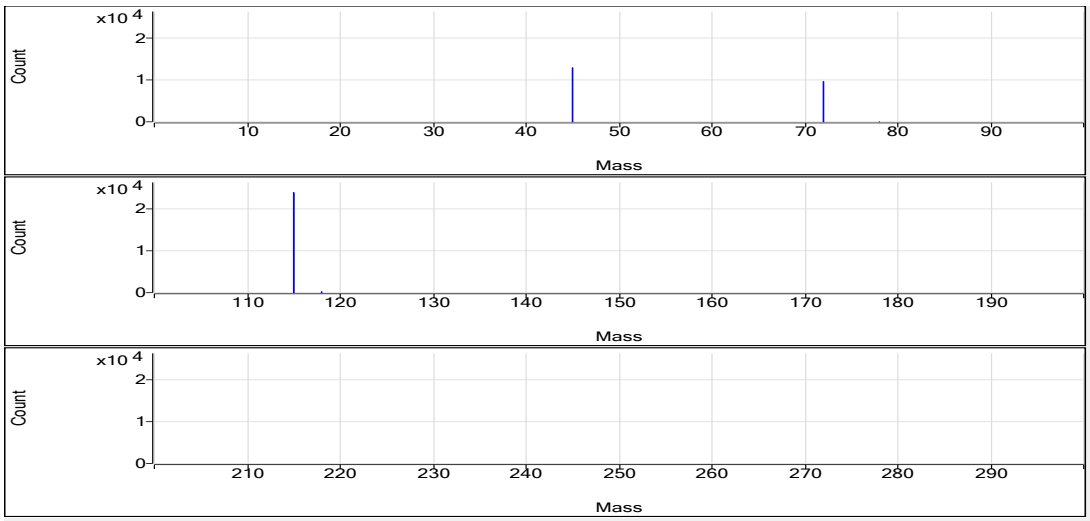
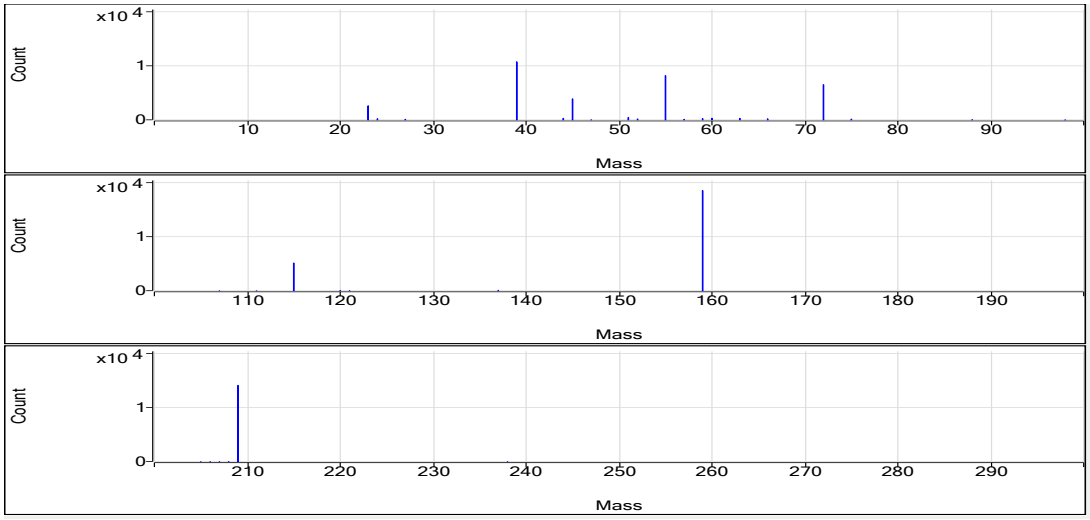


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.012	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.022	0	30.00	0.0003	2.616E-05
Se	78	2	H2	-0.073	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.127	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.02	0.0001	5.33	0.0004	6.3E-05
Na	23	3	He	-29.073	0.6777	26401.47	0.0025	0.7502
Na	23	3	He	-30.474	0.6742	25920.92	0.0025	0.7502
Na	23	3	He	-37.967	0.6555	25800.67	0.0025	0.7502
Mg	24	3	He	32.017	0.065	2530.27	0.0012	0.02618
Mg	24	3	He	22.632	0.0536	2060.20	0.0012	0.02618
Mg	24	3	He	24.335	0.0556	2190.22	0.0012	0.02618
Al	27	3	He	43.05	0.0216	840.05	0.0004	0.005329
Al	27	3	He	34.843	0.0185	710.04	0.0004	0.005329
Al	27	3	He	146.749	0.0607	2387.78	0.0004	0.005329
K	39	3	He	106.402	0.6363	24788.71	0.001	0.5307
K	39	3	He	4.275	0.5349	20564.87	0.001	0.5307
K	39	3	He	-45.819	0.4852	19095.03	0.001	0.5307
Ca	44	3	He	239.444	0.017	664.02	0.0001	0.004441
Ca	44	3	He	190.377	0.0145	556.01	0.0001	0.004441
Ca	44	3	He	226.491	0.0164	644.02	0.0001	0.004441
Ti	47	3	He	0.141	0.0005	20.00	0.0004	0.0004559
Ti	47	3	He	4.864	0.0024	94.01	0.0004	0.0004559
Ti	47	3	He	0.376	0.0006	24.00	0.0004	0.0004559
V	51	3	He	-0.211	0.0224	872.03	0.0176	0.02609
V	51	3	He	-0.031	0.0255	982.04	0.0176	0.02609
V	51	3	He	-0.108	0.0242	952.03	0.0176	0.02609
Cr	52	3	He	-0.238	0.0454	1770.15	0.0217	0.05061
Cr	52	3	He	-0.102	0.0484	1860.17	0.0217	0.05061
Cr	52	3	He	-0.119	0.048	1890.17	0.0217	0.05061
Mn	55	3	He	44.545	0.4167	16234.10	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	45.182	0.4225	16244.12	0.0091	0.01071
Mn	55	3	He	45.386	0.4244	16702.58	0.0091	0.01071
Fe	57	3	He	55.333	0.0305	1190.08	0.0004	0.008452
Fe	57	3	He	44.624	0.0263	1010.06	0.0004	0.008452
Fe	57	3	He	53.917	0.03	1180.08	0.0004	0.008452
Co	59	3	He	0.17	0.013	508.01	0.0413	0.006013
Co	59	3	He	0.153	0.0123	474.01	0.0413	0.006013
Co	59	3	He	0.168	0.013	510.01	0.0413	0.006013
Ni	60	3	He	0.406	0.0165	642.02	0.0117	0.01172
Ni	60	3	He	0.291	0.0151	582.01	0.0117	0.01172
Ni	60	3	He	0.348	0.0158	622.02	0.0117	0.01172
Cu	63	3	He	-0.251	0.0095	620.02	0.0196	0.01443
Cu	63	3	He	-0.267	0.0092	602.01	0.0196	0.01443
Cu	63	3	He	-0.201	0.0105	682.02	0.0196	0.01443
Zn	66	3	He	1.264	0.0057	370.01	0.0023	0.002807
Zn	66	3	He	1.768	0.0068	446.01	0.0023	0.002807
Zn	66	3	He	1.392	0.006	388.01	0.0023	0.002807
As	75	3	He	2.045	0.005	328.01	0.0018	0.001271
As	75	3	He	1.803	0.0046	300.01	0.0018	0.001271
As	75	3	He	2.335	0.0056	362.01	0.0018	0.001271
Sr	88	3	He	0.833	0.008	410.02	0.0082	0.00114
Sr	88	3	He	1.222	0.0112	570.03	0.0082	0.00114
Sr	88	3	He	1.172	0.0108	560.03	0.0082	0.00114
Mo	98	3	He	0.069	0.0027	140.01	0.0177	0.001504
Mo	98	3	He	0.092	0.0031	160.01	0.0177	0.001504
Mo	98	3	He	0.1	0.0033	170.01	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.197	0.0134	690.04	0.0126	0.01097
Sn	120	3	He	0.454	0.0167	850.05	0.0126	0.01097
Sn	120	3	He	0.046	0.0115	600.03	0.0126	0.01097
Sb	121	3	He	0.121	0.0018	93.33	0.012	0.0003595
Sb	121	3	He	0.155	0.0022	113.34	0.012	0.0003595
Sb	121	3	He	0.109	0.0017	86.67	0.012	0.0003595
Ba	137	3	He	4.101	0.0164	840.05	0.0039	0.0003633
Ba	137	3	He	3.779	0.0151	770.04	0.0039	0.0003633
Ba	137	3	He	3.899	0.0156	810.04	0.0039	0.0003633
Tl	205	3	He	-0.065	0.0001	20.00	0.0189	0.001334
Tl	205	3	He	-0.065	0.0001	20.00	0.0189	0.001334
Tl	205	3	He	-0.05	0.0004	70.00	0.0189	0.001334
Pb	208	3	He	0.07	0.0033	350.02	0.0252	0.001497
Pb	208	3	He	0.086	0.0037	350.02	0.0252	0.001497
Pb	208	3	He	0.049	0.0027	260.01	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	0.009	0.0003	60.00	0.0245	0.0001141
Sc	45	1	No Gas			1616340.91		
Sc	45	1	No Gas			1630655.91		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1587639.20		
Ge	72	1	No Gas			818449.44		
Ge	72	1	No Gas			820339.28		
Ge	72	1	No Gas			820694.52		
Sc	45	2	H2			131352.87		
Sc	45	2	H2			127634.93		
Sc	45	2	H2			128983.92		
Ge	72	2	H2			96348.08		
Ge	72	2	H2			96539.34		
Ge	72	2	H2			96649.53		
In	115	2	H2			237867.79		
In	115	2	H2			239304.23		
In	115	2	H2			241920.95		
Sc	45	3	He			38956.75		
Sc	45	3	He			38445.70		
Sc	45	3	He			39357.76		
Ge	72	3	He			65142.18		
Ge	72	3	He			65354.07		
Ge	72	3	He			64991.73		
In	115	3	He			51345.29		
In	115	3	He			50973.92		
In	115	3	He			52007.17		
Tb	159	3	He			186896.99		
Tb	159	3	He			185647.48		
Tb	159	3	He			183544.63		
Bi	209	3	He			142853.07		
Bi	209	3	He			142096.85		
Bi	209	3	He			138363.30		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 9:13:18 PM
Sample Name	400-278169-I-1-A
Sample Type	Sample
Comment	F5
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

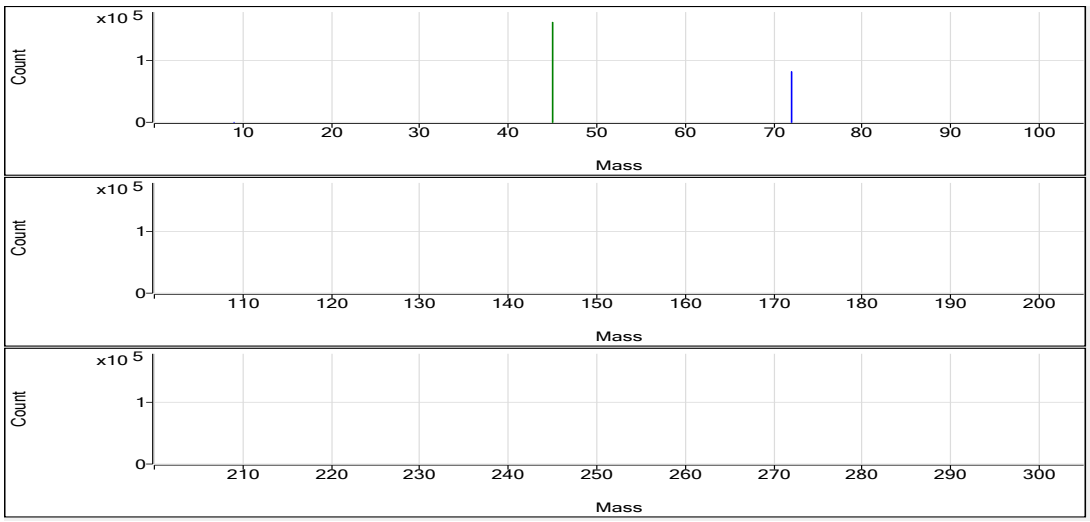
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.033	ppb	27.0	60.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.039	ppb	N/A	4.67	0.0000	Pulse	1.5000	3
Na	23	45	He	16531.868	ppb	1.6	1606684.04	41.9596	Analog	0.1000	3
Mg	24	45	He	52908.618	ppb	0.5	2454436.58	64.0919	Analog	0.1000	3
Al	27	45	He	1040.757	ppb	3.8	15235.21	0.3978	Pulse	0.1000	3
K	39	45	He	954.831	ppb	10.0	56650.42	1.4788	Pulse	0.5000	3
Ca	44	45	He	114023.903	ppb	1.0	230010.10	6.0066	Pulse	0.5000	3
Ti	47	45	He	24.390	ppb	35.7	400.05	0.0104	Pulse	0.5000	3
V	51	45	He	1.998	ppb	6.3	2344.19	0.0612	Pulse	0.5000	3
Cr	52	45	He	1.277	ppb	16.2	3000.37	0.0784	Pulse	0.1000	3
Mn	55	45	He	322.391	ppb	1.4	112928.43	2.9492	Pulse	0.5000	3
Fe	57	45	He	1733.497	ppb	3.7	26836.86	0.7007	Pulse	0.1000	3
Co	59	45	He	1.586	ppb	3.8	2737.58	0.0715	Pulse	0.5000	3
Ni	60	45	He	2.405	ppb	6.3	1530.08	0.0400	Pulse	0.5000	3
Cu	63	72	He	0.238	ppb	26.2	1257.39	0.0191	Pulse	0.5000	3
Zn	66	72	He	3.637	ppb	5.3	730.02	0.0111	Pulse	0.5000	3
As	75	72	He	3.908	ppb	5.5	558.01	0.0085	Pulse	0.5000	3
Sr	88	115	He	1207.222	ppb	0.4	507947.01	9.9199	Pulse	0.1000	3
Mo	98	115	He	1.177	ppb	16.6	1143.42	0.0224	Pulse	0.1000	3
Ag	107	115	He	-0.029	ppb	N/A	13.33	0.0003	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	464.0	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.282	ppb	12.8	743.38	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.102	ppb	7.3	81.11	0.0016	Pulse	0.3000	3
Ba	137	115	He	533.863	ppb	1.7	106683.42	2.0833	Pulse	0.1000	3
Tl	205	159	He	-0.037	ppb	N/A	120.00	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.354	ppb	5.6	1966.78	0.0104	Pulse	0.1000	3
U	238	159	He	1.632	ppb	1.4	7605.60	0.0402	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1623733.73	0.9	95.0	Analog	0.1000	3
No Gas	Ge	72	822053.55	1.0	95.2	Pulse	0.1000	3
H2	Sc	45	131638.04	1.2	98.5	Pulse	0.1000	3
H2	Ge	72	97592.41	3.3	98.5	Pulse	0.1000	3
H2	In	115	235295.67	0.7	91.7	Pulse	0.1000	3
He	Sc	45	38295.50	1.1	97.0	Pulse	0.1000	3
He	Ge	72	65938.86	1.4	96.8	Pulse	0.1000	3
He	In	115	51206.21	1.2	92.4	Pulse	0.1000	3
He	Tb	159	189326.90	1.1	92.4	Pulse	0.1000	3
He	Bi	209	140181.65	1.7	92.7	Pulse	0.1000	3

No Gas



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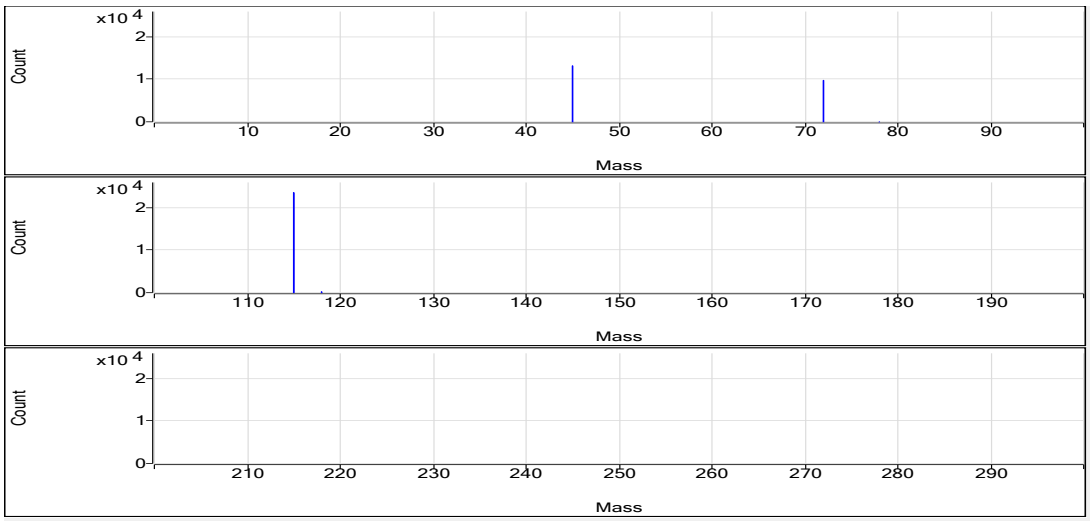
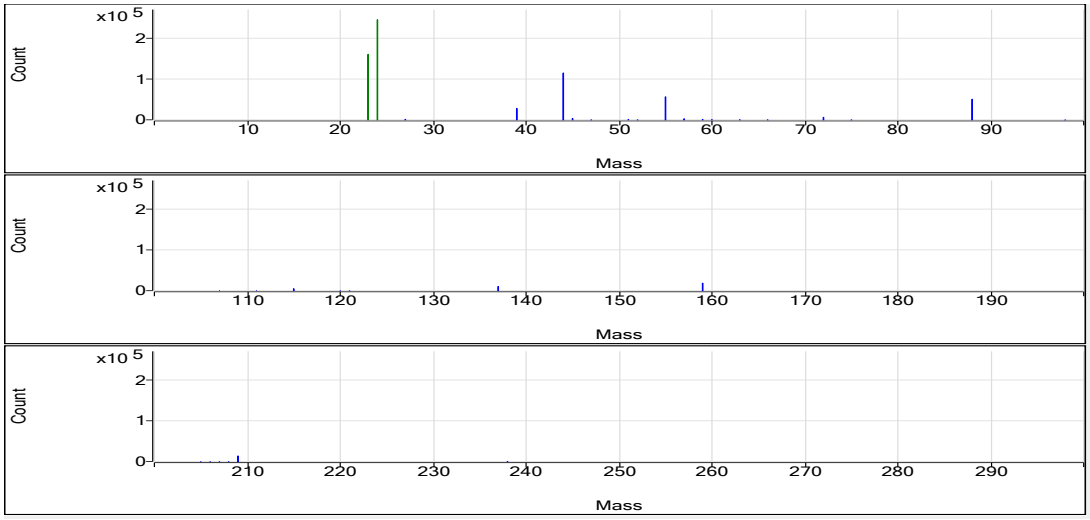


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.027	0	58.00	0.0003	2.616E-05
Be	9	1	No Gas	0.044	0	66.00	0.0003	2.616E-05
Be	9	1	No Gas	0.029	0	58.00	0.0003	2.616E-05
Se	78	2	H2	-0.06	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.003	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.053	0	4.00	0.0004	6.3E-05
Na	23	3	He	16288.188	41.3521	1598106.38	0.0025	0.7502
Na	23	3	He	16805.698	42.6421	1613337.16	0.0025	0.7502
Na	23	3	He	16501.718	41.8844	1608608.57	0.0025	0.7502
Mg	24	3	He	52708.681	63.8498	2467557.31	0.0012	0.02618
Mg	24	3	He	52802.934	63.9639	2420032.46	0.0012	0.02618
Mg	24	3	He	53214.239	64.462	2475719.96	0.0012	0.02618
Al	27	3	He	1080.298	0.4127	15949.74	0.0004	0.005329
Al	27	3	He	1039.914	0.3975	15038.47	0.0004	0.005329
Al	27	3	He	1002.06	0.3832	14717.43	0.0004	0.005329
K	39	3	He	1065	1.5882	61376.33	0.001	0.5307
K	39	3	He	893.199	1.4176	53632.64	0.001	0.5307
K	39	3	He	906.294	1.4306	54942.29	0.001	0.5307
Ca	44	3	He	112909.086	5.9479	229864.94	0.0001	0.004441
Ca	44	3	He	115126.919	6.0647	229452.52	0.0001	0.004441
Ca	44	3	He	114035.705	6.0072	230712.83	0.0001	0.004441
Ti	47	3	He	23.436	0.01	388.02	0.0004	0.0004559
Ti	47	3	He	16.206	0.0071	268.01	0.0004	0.0004559
Ti	47	3	He	33.528	0.0142	544.13	0.0004	0.0004559
V	51	3	He	1.939	0.0602	2326.19	0.0176	0.02609
V	51	3	He	2.141	0.0638	2412.20	0.0176	0.02609
V	51	3	He	1.913	0.0597	2294.17	0.0176	0.02609
Cr	52	3	He	1.387	0.0807	3120.39	0.0217	0.05061
Cr	52	3	He	1.406	0.0812	3070.38	0.0217	0.05061
Cr	52	3	He	1.039	0.0732	2810.34	0.0217	0.05061
Mn	55	3	He	319.296	2.921	112883.88	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	327.484	2.9956	113335.56	0.0091	0.01071
Mn	55	3	He	320.394	2.931	112565.84	0.0091	0.01071
Fe	57	3	He	1711.046	0.6917	26733.05	0.0004	0.008452
Fe	57	3	He	1683.211	0.6806	25750.85	0.0004	0.008452
Fe	57	3	He	1806.234	0.7297	28026.67	0.0004	0.008452
Co	59	3	He	1.518	0.0687	2654.23	0.0413	0.006013
Co	59	3	He	1.606	0.0723	2736.25	0.0413	0.006013
Co	59	3	He	1.634	0.0735	2822.26	0.0413	0.006013
Ni	60	3	He	2.325	0.039	1508.08	0.0117	0.01172
Ni	60	3	He	2.581	0.042	1590.09	0.0117	0.01172
Ni	60	3	He	2.31	0.0389	1492.08	0.0117	0.01172
Cu	63	3	He	0.182	0.018	1204.05	0.0196	0.01443
Cu	63	3	He	0.305	0.0204	1326.06	0.0196	0.01443
Cu	63	3	He	0.225	0.0188	1242.05	0.0196	0.01443
Zn	66	3	He	3.66	0.0111	744.02	0.0023	0.002807
Zn	66	3	He	3.815	0.0115	746.02	0.0023	0.002807
Zn	66	3	He	3.435	0.0106	700.02	0.0023	0.002807
As	75	3	He	3.68	0.008	538.01	0.0018	0.001271
As	75	3	He	3.94	0.0085	554.01	0.0018	0.001271
As	75	3	He	4.104	0.0088	582.01	0.0018	0.001271
Sr	88	3	He	1203.123	9.8863	508055.66	0.0082	0.00114
Sr	88	3	He	1212.809	9.9658	503344.88	0.0082	0.00114
Sr	88	3	He	1205.733	9.9077	512440.50	0.0082	0.00114
Mo	98	3	He	1.047	0.02	1030.08	0.0177	0.001504
Mo	98	3	He	1.402	0.0263	1330.10	0.0177	0.001504
Mo	98	3	He	1.083	0.0207	1070.07	0.0177	0.001504
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.027	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.242	0.014	720.05	0.0126	0.01097
Sn	120	3	He	0.293	0.0147	740.04	0.0126	0.01097
Sn	120	3	He	0.312	0.0149	770.04	0.0126	0.01097
Sb	121	3	He	0.105	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.107	0.0016	83.33	0.012	0.0003595
Sb	121	3	He	0.093	0.0015	76.67	0.012	0.0003595
Ba	137	3	He	526.034	2.0527	105490.11	0.0039	0.0003633
Ba	137	3	He	531.815	2.0753	104816.68	0.0039	0.0003633
Ba	137	3	He	543.74	2.1218	109743.48	0.0039	0.0003633
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.028	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.035	0.0007	130.00	0.0189	0.001334
Pb	208	3	He	0.356	0.0104	1040.07	0.0252	0.001497
Pb	208	3	He	0.372	0.0109	1030.07	0.0252	0.001497
Pb	208	3	He	0.333	0.0099	1100.08	0.0252	0.001497
U	238	3	He	1.637	0.0403	7562.26	0.0245	0.0001141
U	238	3	He	1.606	0.0395	7462.21	0.0245	0.0001141
U	238	3	He	1.652	0.0407	7792.33	0.0245	0.0001141
Sc	45	1	No Gas			1639985.29		
Sc	45	1	No Gas			1615276.38		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1615939.51		
Ge	72	1	No Gas			831821.39		
Ge	72	1	No Gas			817044.52		
Ge	72	1	No Gas			817294.75		
Sc	45	2	H2			132087.89		
Sc	45	2	H2			129821.28		
Sc	45	2	H2			133004.94		
Ge	72	2	H2			100906.50		
Ge	72	2	H2			97292.64		
Ge	72	2	H2			94578.08		
In	115	2	H2			237070.64		
In	115	2	H2			234590.62		
In	115	2	H2			234225.74		
Sc	45	3	He			38646.28		
Sc	45	3	He			37834.33		
Sc	45	3	He			38405.90		
Ge	72	3	He			66879.48		
Ge	72	3	He			64991.49		
Ge	72	3	He			65945.62		
In	115	3	He			51395.15		
In	115	3	He			50512.24		
In	115	3	He			51726.85		
Tb	159	3	He			187592.71		
Tb	159	3	He			188765.50		
Tb	159	3	He			191622.48		
Bi	209	3	He			142994.85		
Bi	209	3	He			138734.31		
Bi	209	3	He			138815.78		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

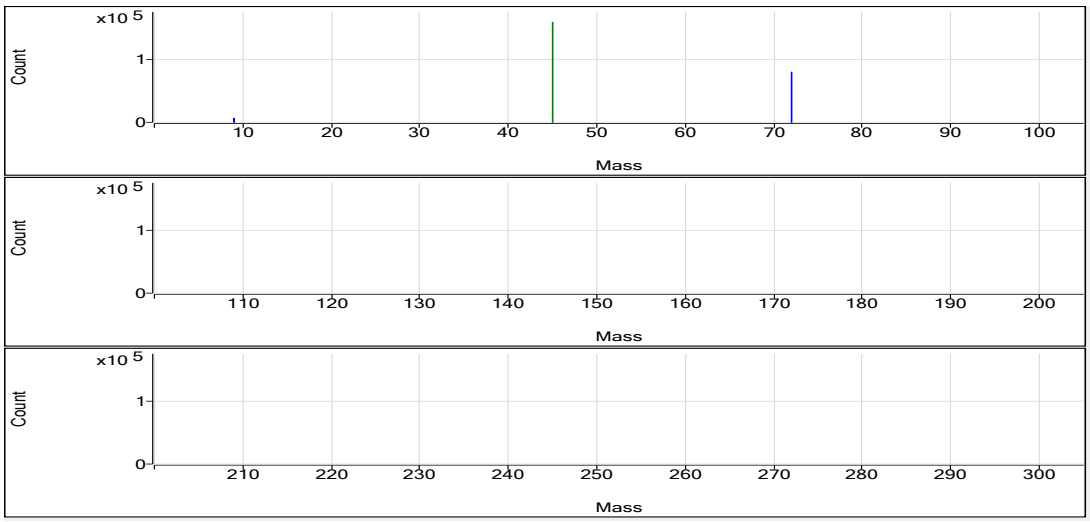
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	25.382	ppb	3.4	13735.60	0.0086	Pulse	0.5000	3
Se	78	72	H2	25.392	ppb	1.4	931.36	0.0099	Pulse	1.5000	3
Na	23	45	He	2522.230	ppb	2.4	269154.99	7.0374	Pulse	0.1000	3
Mg	24	45	He	2604.654	ppb	1.2	121638.06	3.1801	Pulse	0.1000	3
Al	27	45	He	2655.210	ppb	3.3	38505.38	1.0066	Pulse	0.1000	3
K	39	45	He	2600.066	ppb	4.4	119011.80	3.1124	Pulse	0.5000	3
Ca	44	45	He	2607.506	ppb	1.6	5420.25	0.1417	Pulse	0.5000	3
Ti	47	45	He	2567.094	ppb	2.3	40169.56	1.0503	Pulse	0.5000	3
V	51	45	He	258.768	ppb	1.8	175072.61	4.5774	Pulse	0.5000	3
Cr	52	45	He	258.834	ppb	1.2	217018.49	5.6737	Pulse	0.1000	3
Mn	55	45	He	259.292	ppb	1.2	90806.14	2.3740	Pulse	0.5000	3
Fe	57	45	He	2560.222	ppb	2.8	39421.78	1.0308	Pulse	0.1000	3
Co	59	45	He	256.848	ppb	1.6	405845.86	10.6109	Pulse	0.5000	3
Ni	60	45	He	256.495	ppb	1.6	115672.86	3.0243	Pulse	0.5000	3
Cu	63	72	He	254.870	ppb	0.7	321696.87	5.0002	Pulse	0.5000	3
Zn	66	72	He	253.892	ppb	1.4	37303.46	0.5798	Pulse	0.5000	3
As	75	72	He	253.408	ppb	0.4	30094.08	0.4677	Pulse	0.5000	3
Sr	88	115	He	24.147	ppb	1.0	10266.99	0.1995	Pulse	0.1000	3
Mo	98	115	He	25.637	ppb	2.9	23444.72	0.4556	Pulse	0.1000	3
Ag	107	115	He	25.630	ppb	1.8	48559.23	0.9438	Pulse	0.1000	3
Cd	111	115	He	25.972	ppb	1.9	5484.99	0.1066	Pulse	0.5000	3
Sn	120	115	He	25.485	ppb	1.9	17069.80	0.3317	Pulse	0.1000	3
Sb	121	115	He	25.639	ppb	1.1	15909.34	0.3092	Pulse	0.3000	3
Ba	137	115	He	253.116	ppb	1.0	50831.65	0.9879	Pulse	0.1000	3
Tl	205	159	He	24.991	ppb	1.4	89805.02	0.4746	Pulse	0.1000	3
Pb	208	159	He	25.352	ppb	1.5	120956.63	0.6393	Pulse	0.1000	3
U	238	159	He	25.722	ppb	1.5	119489.85	0.6316	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1602591.95	1.8	93.8	Analog	0.1000	3
No Gas	Ge	72	805148.66	0.6	93.2	Pulse	0.1000	3
H2	Sc	45	129229.43	0.9	96.7	Pulse	0.1000	3
H2	Ge	72	93980.81	0.4	94.9	Pulse	0.1000	3
H2	In	115	238791.68	1.0	93.0	Pulse	0.1000	3
He	Sc	45	38255.43	1.9	96.9	Pulse	0.1000	3
He	Ge	72	64339.30	0.9	94.5	Pulse	0.1000	3
He	In	115	51453.22	0.7	92.9	Pulse	0.1000	3
He	Tb	159	189205.11	0.4	92.4	Pulse	0.1000	3
He	Bi	209	139993.96	0.7	92.5	Pulse	0.1000	3

No Gas



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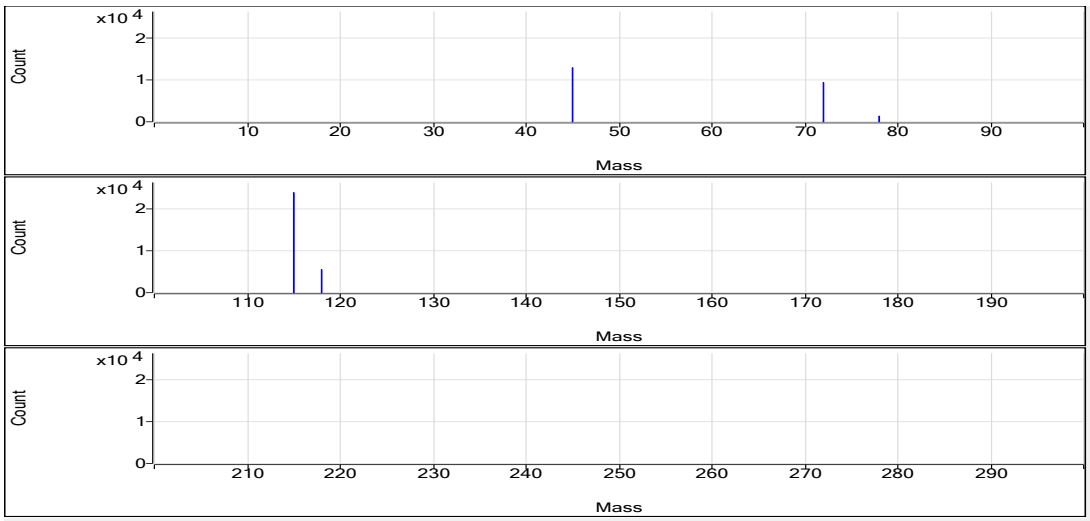
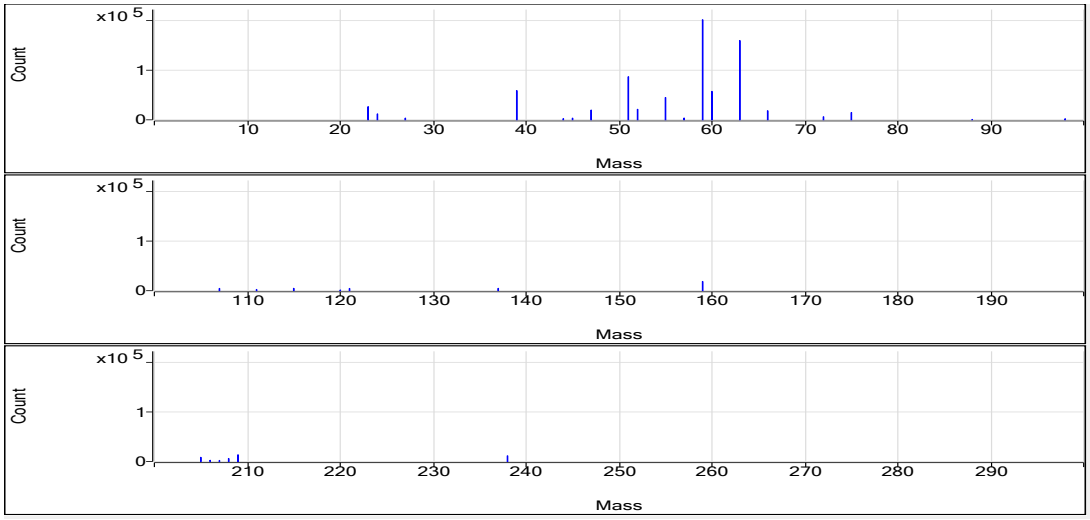


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	24.784	0.0084	13137.12	0.0003	2.616E-05
Be	9	1	No Gas	24.976	0.0084	13633.51	0.0003	2.616E-05
Be	9	1	No Gas	26.386	0.0089	14436.17	0.0003	2.616E-05
Se	78	2	H2	25.473	0.0099	937.36	0.0004	6.3E-05
Se	78	2	H2	25.006	0.0098	918.03	0.0004	6.3E-05
Se	78	2	H2	25.697	0.01	938.70	0.0004	6.3E-05
Na	23	3	He	2576.721	7.1732	268519.49	0.0025	0.7502
Na	23	3	He	2533.194	7.0647	272247.12	0.0025	0.7502
Na	23	3	He	2456.776	6.8742	266698.37	0.0025	0.7502
Mg	24	3	He	2638.446	3.221	120573.70	0.0012	0.02618
Mg	24	3	He	2596.652	3.1704	122174.80	0.0012	0.02618
Mg	24	3	He	2578.865	3.1489	122165.67	0.0012	0.02618
Al	27	3	He	2656.091	1.0069	37693.47	0.0004	0.005329
Al	27	3	He	2742.485	1.0395	40059.14	0.0004	0.005329
Al	27	3	He	2567.054	0.9734	37763.52	0.0004	0.005329
K	39	3	He	2727.036	3.2385	121227.61	0.001	0.5307
K	39	3	He	2568.078	3.0806	118715.73	0.001	0.5307
K	39	3	He	2505.084	3.0181	117092.05	0.001	0.5307
Ca	44	3	He	2622.026	0.1425	5332.89	0.0001	0.004441
Ca	44	3	He	2640.255	0.1434	5526.94	0.0001	0.004441
Ca	44	3	He	2560.237	0.1392	5400.91	0.0001	0.004441
Ti	47	3	He	2634.121	1.0777	40343.34	0.0004	0.0004559
Ti	47	3	He	2524.247	1.0328	39799.96	0.0004	0.0004559
Ti	47	3	He	2542.915	1.0404	40365.39	0.0004	0.0004559
V	51	3	He	263.899	4.6677	174727.61	0.0176	0.02609
V	51	3	He	257.336	4.5522	175425.20	0.0176	0.02609
V	51	3	He	255.069	4.5124	175065.03	0.0176	0.02609
Cr	52	3	He	262.321	5.7494	215221.91	0.0217	0.05061
Cr	52	3	He	257.255	5.6394	217320.07	0.0217	0.05061
Cr	52	3	He	256.927	5.6323	218513.49	0.0217	0.05061
Mn	55	3	He	262.814	2.4061	90070.27	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	257.997	2.3622	91031.26	0.0091	0.01071
Mn	55	3	He	257.063	2.3537	91316.89	0.0091	0.01071
Fe	57	3	He	2643.923	1.0643	39839.33	0.0004	0.008452
Fe	57	3	He	2514.921	1.0128	39027.54	0.0004	0.008452
Fe	57	3	He	2521.823	1.0155	39398.48	0.0004	0.008452
Co	59	3	He	261.355	10.797	404168.97	0.0413	0.006013
Co	59	3	He	255.467	10.5539	406704.78	0.0413	0.006013
Co	59	3	He	253.724	10.4819	406663.84	0.0413	0.006013
Ni	60	3	He	260.838	3.0753	115118.84	0.0117	0.01172
Ni	60	3	He	255.848	3.0167	116250.98	0.0117	0.01172
Ni	60	3	He	252.801	2.9809	115648.77	0.0117	0.01172
Cu	63	3	He	256.726	5.0365	320812.81	0.0196	0.01443
Cu	63	3	He	254.774	4.9983	322142.25	0.0196	0.01443
Cu	63	3	He	253.111	4.9658	322135.56	0.0196	0.01443
Zn	66	3	He	256.605	0.586	37326.84	0.0023	0.002807
Zn	66	3	He	255.305	0.583	37577.50	0.0023	0.002807
Zn	66	3	He	249.765	0.5705	37006.03	0.0023	0.002807
As	75	3	He	252.282	0.4657	29661.32	0.0018	0.001271
As	75	3	He	254.546	0.4698	30280.38	0.0018	0.001271
As	75	3	He	253.394	0.4677	30340.53	0.0018	0.001271
Sr	88	3	He	24.379	0.2014	10323.65	0.0082	0.00114
Sr	88	3	He	24.177	0.1998	10363.77	0.0082	0.00114
Sr	88	3	He	23.886	0.1974	10113.54	0.0082	0.00114
Mo	98	3	He	25.361	0.4507	23097.45	0.0177	0.001504
Mo	98	3	He	26.492	0.4707	24419.70	0.0177	0.001504
Mo	98	3	He	25.058	0.4453	22817.02	0.0177	0.001504
Ag	107	3	He	25.479	0.9383	48084.80	0.0368	0.001325
Ag	107	3	He	25.255	0.93	48244.80	0.0368	0.001325
Ag	107	3	He	26.156	0.9632	49348.09	0.0368	0.001325
Cd	111	3	He	25.535	0.1048	5370.95	0.0041	4.798E-05
Cd	111	3	He	26.505	0.1088	5643.04	0.0041	4.798E-05
Cd	111	3	He	25.875	0.1062	5440.97	0.0041	4.798E-05
Sn	120	3	He	24.924	0.3247	16639.32	0.0126	0.01097
Sn	120	3	He	25.67	0.3341	17330.03	0.0126	0.01097
Sn	120	3	He	25.862	0.3365	17240.05	0.0126	0.01097
Sb	121	3	He	25.409	0.3064	15704.64	0.012	0.0003595
Sb	121	3	He	25.561	0.3083	15991.65	0.012	0.0003595
Sb	121	3	He	25.946	0.3129	16031.72	0.012	0.0003595
Ba	137	3	He	255.552	0.9974	51116.49	0.0039	0.0003633
Ba	137	3	He	253.152	0.9881	51256.39	0.0039	0.0003633
Ba	137	3	He	250.644	0.9783	50122.06	0.0039	0.0003633
Tl	205	3	He	25.163	0.4779	89996.55	0.0189	0.001334
Tl	205	3	He	25.21	0.4788	90841.39	0.0189	0.001334
Tl	205	3	He	24.599	0.4672	88577.12	0.0189	0.001334
Pb	208	3	He	25.162	0.6345	64301.81	0.0252	0.001497
Pb	208	3	He	25.777	0.65	65628.25	0.0252	0.001497
Pb	208	3	He	25.116	0.6333	64191.52	0.0252	0.001497
U	238	3	He	26.041	0.6394	120403.77	0.0245	0.0001141
U	238	3	He	25.277	0.6206	117752.48	0.0245	0.0001141
U	238	3	He	25.848	0.6346	120313.31	0.0245	0.0001141
Sc	45	1	No Gas			1570052.63		
Sc	45	1	No Gas			1616865.13		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1620858.10		
Ge	72	1	No Gas			799957.72		
Ge	72	1	No Gas			807955.53		
Ge	72	1	No Gas			807532.72		
Sc	45	2	H2			130354.57		
Sc	45	2	H2			128127.16		
Sc	45	2	H2			129206.57		
Ge	72	2	H2			94285.52		
Ge	72	2	H2			94054.65		
Ge	72	2	H2			93602.27		
In	115	2	H2			237646.54		
In	115	2	H2			237141.19		
In	115	2	H2			241587.30		
Sc	45	3	He			37433.51		
Sc	45	3	He			38536.05		
Sc	45	3	He			38796.73		
Ge	72	3	He			63697.27		
Ge	72	3	He			64449.95		
Ge	72	3	He			64870.68		
In	115	3	He			51365.07		
In	115	3	He			51997.10		
In	115	3	He			51355.96		
Tb	159	3	He			188311.09		
Tb	159	3	He			189727.85		
Tb	159	3	He			189576.40		
Bi	209	3	He			139986.63		
Bi	209	3	He			141037.48		
Bi	209	3	He			138957.77		

Quantitation Report

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Sample Type	CCB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

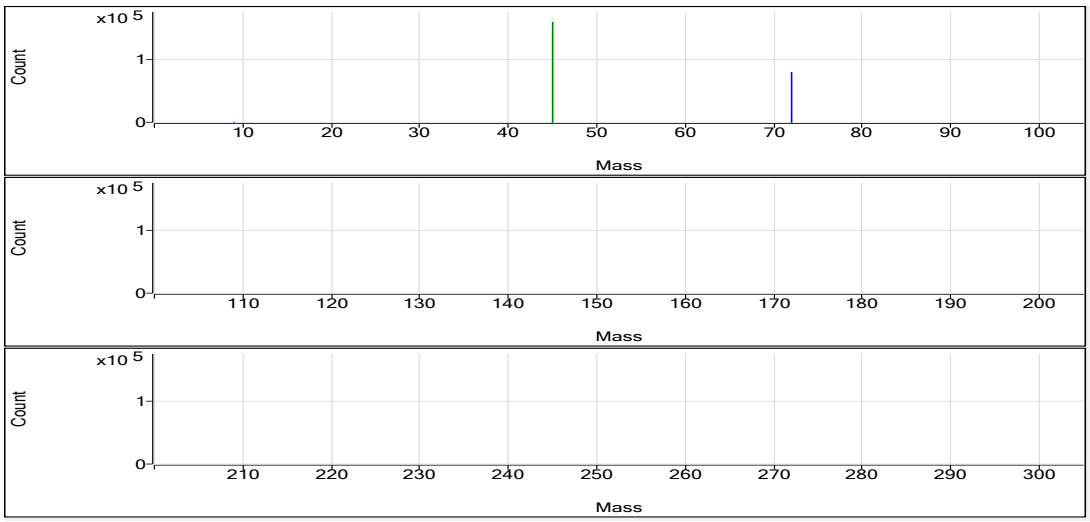
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.008	ppb	N/A	37.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.119	ppb	N/A	1.56	0.0000	Pulse	1.5000	3
Na	23	45	He	-92.040	ppb	N/A	19735.46	0.5208	Pulse	0.1000	3
Mg	24	45	He	-6.674	ppb	N/A	686.70	0.0181	Pulse	0.1000	3
Al	27	45	He	-3.174	ppb	N/A	156.67	0.0041	Pulse	0.1000	3
K	39	45	He	0.500	ppb	14850.3	20127.83	0.5312	Pulse	0.5000	3
Ca	44	45	He	-7.128	ppb	N/A	154.00	0.0041	Pulse	0.5000	3
Ti	47	45	He	0.176	ppb	130.1	20.00	0.0005	Pulse	0.5000	3
V	51	45	He	0.041	ppb	51.2	1016.04	0.0268	Pulse	0.5000	3
Cr	52	45	He	-0.215	ppb	N/A	1740.15	0.0459	Pulse	0.1000	3
Mn	55	45	He	-0.173	ppb	N/A	346.01	0.0091	Pulse	0.5000	3
Fe	57	45	He	-8.610	ppb	N/A	190.01	0.0050	Pulse	0.1000	3
Co	59	45	He	0.001	ppb	1332.5	229.33	0.0060	Pulse	0.5000	3
Ni	60	45	He	-0.172	ppb	N/A	367.34	0.0097	Pulse	0.5000	3
Cu	63	72	He	-0.289	ppb	N/A	550.68	0.0088	Pulse	0.5000	3
Zn	66	72	He	-0.073	ppb	N/A	165.33	0.0026	Pulse	0.5000	3
As	75	72	He	1.346	ppb	22.0	234.67	0.0037	Pulse	0.5000	3
Sr	88	115	He	-0.020	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Mo	98	115	He	0.010	ppb	165.2	86.67	0.0017	Pulse	0.1000	3
Ag	107	115	He	-0.020	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.020	ppb	741.4	576.73	0.0112	Pulse	0.1000	3
Sb	121	115	He	0.068	ppb	64.6	60.00	0.0012	Pulse	0.3000	3
Ba	137	115	He	0.007	ppb	706.6	20.00	0.0004	Pulse	0.1000	3
Tl	205	159	He	-0.033	ppb	N/A	133.34	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.014	ppb	N/A	213.34	0.0011	Pulse	0.1000	3
U	238	159	He	0.006	ppb	92.6	50.00	0.0003	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1594529.66	0.1	93.3	Analog	0.1000	3
No Gas	Ge	72	794618.69	1.0	92.0	Pulse	0.1000	3
H2	Sc	45	125779.21	1.3	94.1	Pulse	0.1000	3
H2	Ge	72	92505.52	0.9	93.4	Pulse	0.1000	3
H2	In	115	234625.99	1.4	91.4	Pulse	0.1000	3
He	Sc	45	37897.71	0.6	96.0	Pulse	0.1000	3
He	Ge	72	62679.26	1.6	92.0	Pulse	0.1000	3
He	In	115	51321.23	1.5	92.6	Pulse	0.1000	3
He	Tb	159	186066.57	0.9	90.9	Pulse	0.1000	3
He	Bi	209	135884.68	0.2	89.8	Pulse	0.1000	3

No Gas



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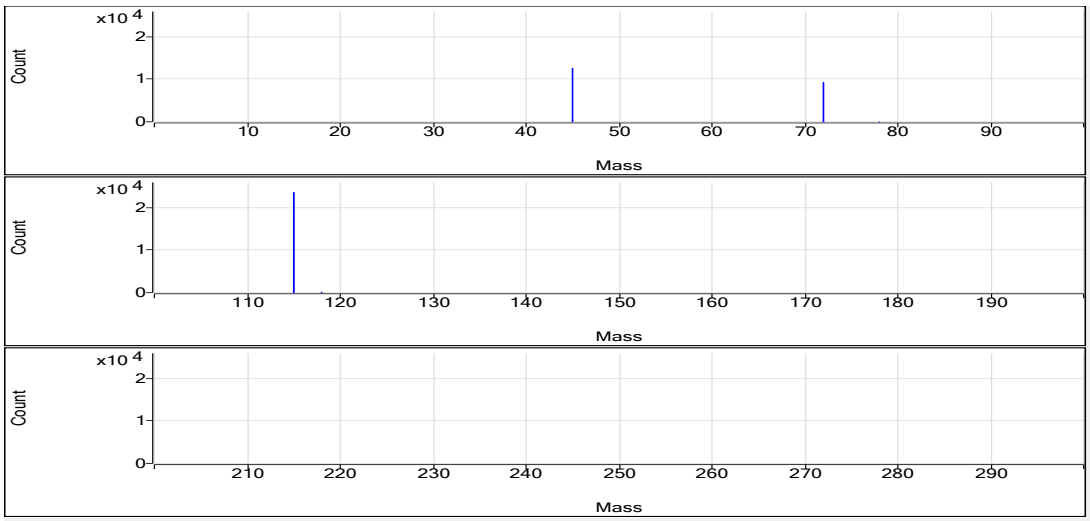
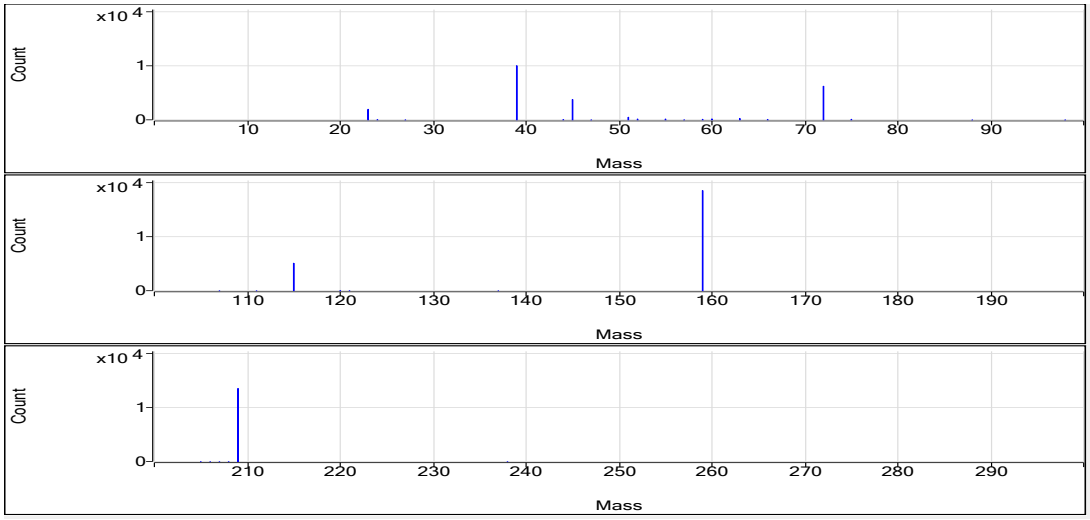


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.007	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	0.012	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.029	0	26.00	0.0003	2.616E-05
Se	78	2	H2	-0.087	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.162	0	0.00	0.0004	6.3E-05
Se	78	2	H2	-0.107	0	2.00	0.0004	6.3E-05
Na	23	3	He	-93.527	0.517	19551.75	0.0025	0.7502
Na	23	3	He	-91.641	0.5217	19912.51	0.0025	0.7502
Na	23	3	He	-90.951	0.5235	19742.11	0.0025	0.7502
Mg	24	3	He	-6.771	0.018	680.03	0.0012	0.02618
Mg	24	3	He	-2.579	0.0231	880.05	0.0012	0.02618
Mg	24	3	He	-10.673	0.0133	500.02	0.0012	0.02618
Al	27	3	He	-7.821	0.0024	90.00	0.0004	0.005329
Al	27	3	He	-0.93	0.005	190.01	0.0004	0.005329
Al	27	3	He	-0.772	0.005	190.01	0.0004	0.005329
K	39	3	He	85.279	0.6153	23268.59	0.001	0.5307
K	39	3	He	-30.812	0.5001	19085.06	0.001	0.5307
K	39	3	He	-52.967	0.4781	18029.83	0.001	0.5307
Ca	44	3	He	4.055	0.0047	176.00	0.0001	0.004441
Ca	44	3	He	-19.655	0.0034	130.00	0.0001	0.004441
Ca	44	3	He	-5.784	0.0041	156.00	0.0001	0.004441
Ti	47	3	He	0.049	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	0.039	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	0.441	0.0006	24.00	0.0004	0.0004559
V	51	3	He	0.059	0.0271	1026.04	0.0176	0.02609
V	51	3	He	0.018	0.0264	1008.04	0.0176	0.02609
V	51	3	He	0.045	0.0269	1014.04	0.0176	0.02609
Cr	52	3	He	-0.284	0.0444	1680.14	0.0217	0.05061
Cr	52	3	He	-0.376	0.0425	1620.13	0.0217	0.05061
Cr	52	3	He	0.014	0.0509	1920.17	0.0217	0.05061
Mn	55	3	He	-0.159	0.0093	350.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.186	0.009	344.01	0.0091	0.01071
Mn	55	3	He	-0.174	0.0091	344.01	0.0091	0.01071
Fe	57	3	He	-5.934	0.0061	230.01	0.0004	0.008452
Fe	57	3	He	-9.355	0.0047	180.01	0.0004	0.008452
Fe	57	3	He	-10.542	0.0042	160.01	0.0004	0.008452
Co	59	3	He	-0.005	0.0058	220.00	0.0413	0.006013
Co	59	3	He	0.014	0.0066	252.00	0.0413	0.006013
Co	59	3	He	-0.007	0.0057	216.00	0.0413	0.006013
Ni	60	3	He	-0.178	0.0096	364.01	0.0117	0.01172
Ni	60	3	He	-0.168	0.0097	372.01	0.0117	0.01172
Ni	60	3	He	-0.171	0.0097	366.01	0.0117	0.01172
Cu	63	3	He	-0.273	0.0091	562.01	0.0196	0.01443
Cu	63	3	He	-0.281	0.0089	570.01	0.0196	0.01443
Cu	63	3	He	-0.313	0.0083	520.01	0.0196	0.01443
Zn	66	3	He	-0.053	0.0027	166.00	0.0023	0.002807
Zn	66	3	He	-0.269	0.0022	140.00	0.0023	0.002807
Zn	66	3	He	0.102	0.003	190.00	0.0023	0.002807
As	75	3	He	1.683	0.0044	270.00	0.0018	0.001271
As	75	3	He	1.219	0.0035	224.00	0.0018	0.001271
As	75	3	He	1.134	0.0034	210.00	0.0018	0.001271
Sr	88	3	He	-0.043	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.02	0.001	50.00	0.0082	0.00114
Sr	88	3	He	0.001	0.0012	60.00	0.0082	0.00114
Mo	98	3	He	0.027	0.002	100.00	0.0177	0.001504
Mo	98	3	He	-0.008	0.0014	70.00	0.0177	0.001504
Mo	98	3	He	0.013	0.0017	90.00	0.0177	0.001504
Ag	107	3	He	-0.004	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.133	0.0093	470.02	0.0126	0.01097
Sn	120	3	He	0.028	0.0113	580.03	0.0126	0.01097
Sn	120	3	He	0.165	0.013	680.13	0.0126	0.01097
Sb	121	3	He	0.085	0.0014	70.00	0.012	0.0003595
Sb	121	3	He	0.1	0.0016	80.00	0.012	0.0003595
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Ba	137	3	He	0.059	0.0006	30.00	0.0039	0.0003633
Ba	137	3	He	0.007	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Tl	205	3	He	-0.03	0.0008	140.01	0.0189	0.001334
Tl	205	3	He	-0.028	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	-0.019	0.001	130.00	0.0252	0.001497
Pb	208	3	He	-0.014	0.0011	120.01	0.0252	0.001497
Pb	208	3	He	-0.009	0.0013	110.01	0.0252	0.001497
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.013	0.0004	80.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
Sc	45	1	No Gas			1594532.16		
Sc	45	1	No Gas			1592861.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1596195.29		
Ge	72	1	No Gas			796266.24		
Ge	72	1	No Gas			802008.97		
Ge	72	1	No Gas			785580.85		
Sc	45	2	H2			126979.01		
Sc	45	2	H2			126493.76		
Sc	45	2	H2			123864.87		
Ge	72	2	H2			91549.41		
Ge	72	2	H2			93210.44		
Ge	72	2	H2			92756.72		
In	115	2	H2			232331.50		
In	115	2	H2			238346.13		
In	115	2	H2			233200.33		
Sc	45	3	He			37814.20		
Sc	45	3	He			38165.00		
Sc	45	3	He			37713.93		
Ge	72	3	He			61789.17		
Ge	72	3	He			63727.20		
Ge	72	3	He			62521.40		
In	115	3	He			50602.41		
In	115	3	He			51225.10		
In	115	3	He			52148.30		
Tb	159	3	He			184949.82		
Tb	159	3	He			185312.67		
Tb	159	3	He			187937.22		
Bi	209	3	He			136119.52		
Bi	209	3	He			135685.58		
Bi	209	3	He			135848.95		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 9:24:28 PM
Sample Name	MB 410-667869/1-A
Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

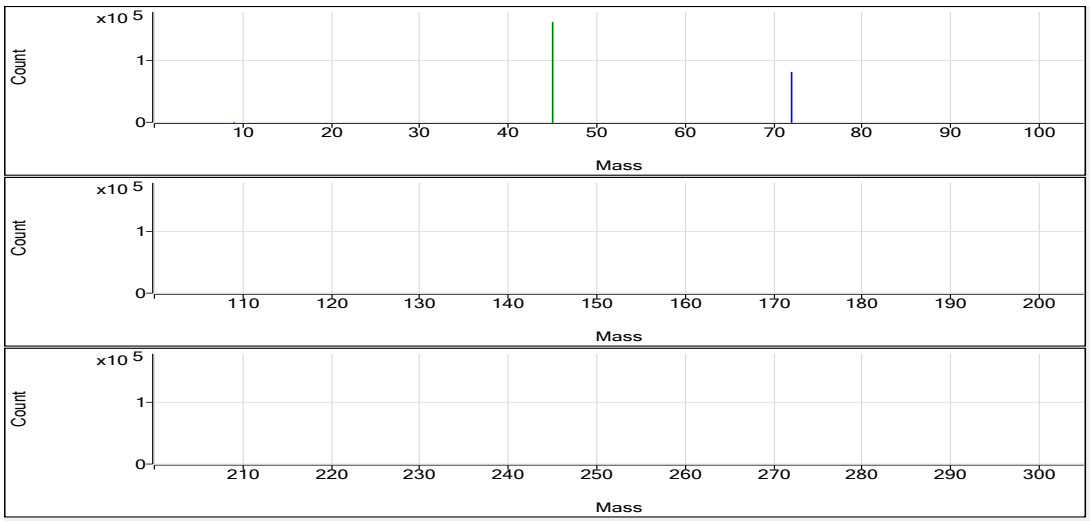
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.035	ppb	N/A	23.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.109	ppb	N/A	2.00	0.0000	Pulse	1.5000	3
Na	23	45	He	-98.133	ppb	N/A	19588.67	0.5056	Pulse	0.1000	3
Mg	24	45	He	-8.688	ppb	N/A	606.70	0.0157	Pulse	0.1000	3
Al	27	45	He	-4.975	ppb	N/A	133.34	0.0035	Pulse	0.1000	3
K	39	45	He	4.591	ppb	1703.4	20734.54	0.5352	Pulse	0.5000	3
Ca	44	45	He	-6.872	ppb	N/A	158.67	0.0041	Pulse	0.5000	3
Ti	47	45	He	-0.616	ppb	N/A	8.00	0.0002	Pulse	0.5000	3
V	51	45	He	-0.360	ppb	N/A	765.36	0.0198	Pulse	0.5000	3
Cr	52	45	He	-0.912	ppb	N/A	1193.42	0.0308	Pulse	0.1000	3
Mn	55	45	He	0.779	ppb	9.6	691.35	0.0178	Pulse	0.5000	3
Fe	57	45	He	-5.406	ppb	N/A	243.34	0.0063	Pulse	0.1000	3
Co	59	45	He	-0.057	ppb	N/A	142.00	0.0037	Pulse	0.5000	3
Ni	60	45	He	-0.307	ppb	N/A	314.00	0.0081	Pulse	0.5000	3
Cu	63	72	He	-0.374	ppb	N/A	472.01	0.0071	Pulse	0.5000	3
Zn	66	72	He	0.526	ppb	19.6	265.33	0.0040	Pulse	0.5000	3
As	75	72	He	0.923	ppb	9.0	196.67	0.0030	Pulse	0.5000	3
Sr	88	115	He	-0.046	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Mo	98	115	He	-0.027	ppb	N/A	53.33	0.0010	Pulse	0.1000	3
Ag	107	115	He	-0.012	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	0.084	ppb	12.1	630.03	0.0120	Pulse	0.1000	3
Sb	121	115	He	0.018	ppb	108.4	30.00	0.0006	Pulse	0.3000	3
Ba	137	115	He	0.037	ppb	303.8	26.67	0.0005	Pulse	0.1000	3
Tl	205	159	He	-0.045	ppb	N/A	90.00	0.0005	Pulse	0.1000	3
Pb	208	159	He	-0.017	ppb	N/A	200.00	0.0011	Pulse	0.1000	3
U	238	159	He	-0.003	ppb	N/A	6.67	0.0000	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1620578.88	1.0	94.9	Analog	0.1000	3
No Gas	Ge	72	809351.11	1.2	93.7	Pulse	0.1000	3
H2	Sc	45	128023.59	1.0	95.8	Pulse	0.1000	3
H2	Ge	72	95660.60	2.1	96.6	Pulse	0.1000	3
H2	In	115	241078.99	0.8	93.9	Pulse	0.1000	3
He	Sc	45	38783.27	3.0	98.3	Pulse	0.1000	3
He	Ge	72	66240.20	1.4	97.3	Pulse	0.1000	3
He	In	115	52417.83	1.1	94.6	Pulse	0.1000	3
He	Tb	159	187605.56	0.9	91.6	Pulse	0.1000	3
He	Bi	209	141969.13	1.7	93.9	Pulse	0.1000	3

No Gas



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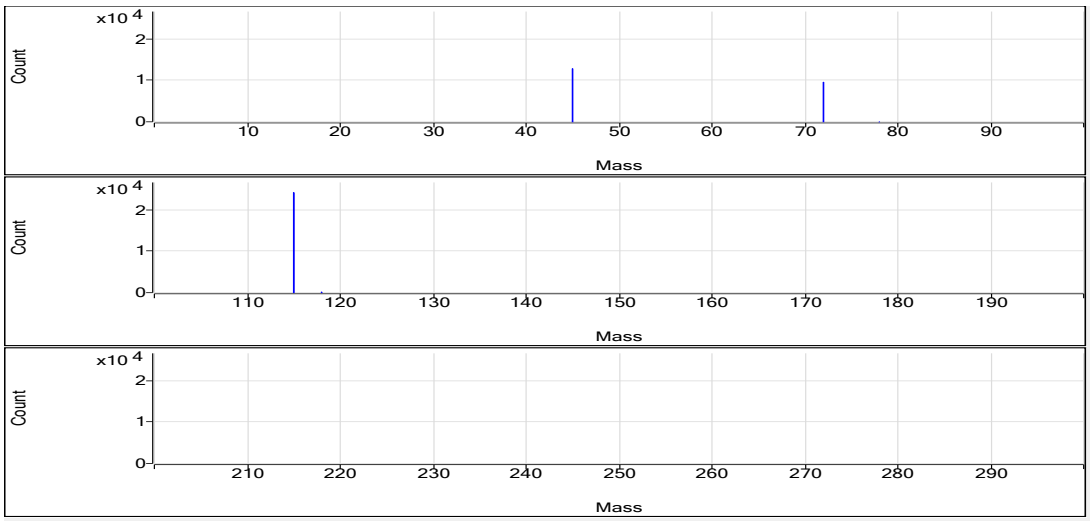
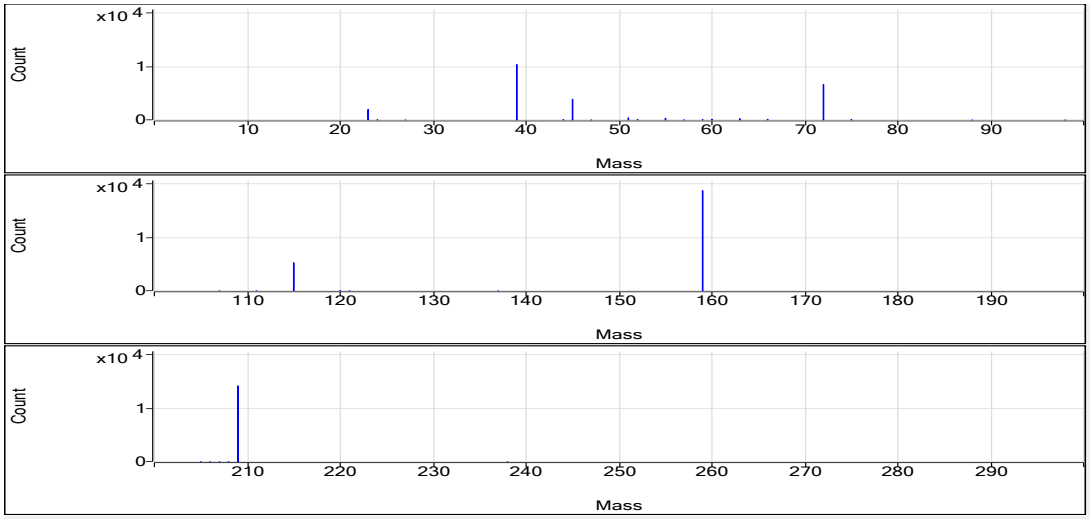


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.026	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.031	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.048	0	16.00	0.0003	2.616E-05
Se	78	2	H2	-0.09	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.092	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.144	0	0.67	0.0004	6.3E-05
Na	23	3	He	-97.538	0.507	19692.17	0.0025	0.7502
Na	23	3	He	-88.676	0.5291	19892.31	0.0025	0.7502
Na	23	3	He	-108.185	0.4805	19181.53	0.0025	0.7502
Mg	24	3	He	-8.013	0.0165	640.03	0.0012	0.02618
Mg	24	3	He	-8.222	0.0162	610.03	0.0012	0.02618
Mg	24	3	He	-9.83	0.0143	570.03	0.0012	0.02618
Al	27	3	He	-5.255	0.0033	130.01	0.0004	0.005329
Al	27	3	He	-2.846	0.0043	160.01	0.0004	0.005329
Al	27	3	He	-6.825	0.0028	110.00	0.0004	0.005329
K	39	3	He	86.565	0.6166	23947.46	0.001	0.5307
K	39	3	He	-3.581	0.5271	19815.88	0.001	0.5307
K	39	3	He	-69.21	0.4619	18440.28	0.001	0.5307
Ca	44	3	He	-16.861	0.0036	138.00	0.0001	0.004441
Ca	44	3	He	-13.618	0.0037	140.00	0.0001	0.004441
Ca	44	3	He	9.862	0.005	198.00	0.0001	0.004441
Ti	47	3	He	-0.737	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.855	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.257	0.0004	14.00	0.0004	0.0004559
V	51	3	He	-0.356	0.0198	770.02	0.0176	0.02609
V	51	3	He	-0.28	0.0212	796.03	0.0176	0.02609
V	51	3	He	-0.444	0.0183	730.02	0.0176	0.02609
Cr	52	3	He	-0.801	0.0332	1290.09	0.0217	0.05061
Cr	52	3	He	-0.909	0.0309	1160.07	0.0217	0.05061
Cr	52	3	He	-1.026	0.0283	1130.09	0.0217	0.05061
Mn	55	3	He	0.82	0.0182	706.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.693	0.017	640.02	0.0091	0.01071
Mn	55	3	He	0.826	0.0182	728.02	0.0091	0.01071
Fe	57	3	He	-5.046	0.0064	250.01	0.0004	0.008452
Fe	57	3	He	-3.18	0.0072	270.01	0.0004	0.008452
Fe	57	3	He	-7.992	0.0053	210.01	0.0004	0.008452
Co	59	3	He	-0.047	0.0041	158.00	0.0413	0.006013
Co	59	3	He	-0.064	0.0034	126.00	0.0413	0.006013
Co	59	3	He	-0.059	0.0036	142.00	0.0413	0.006013
Ni	60	3	He	-0.327	0.0079	306.00	0.0117	0.01172
Ni	60	3	He	-0.218	0.0092	344.01	0.0117	0.01172
Ni	60	3	He	-0.375	0.0073	292.00	0.0117	0.01172
Cu	63	3	He	-0.36	0.0074	482.01	0.0196	0.01443
Cu	63	3	He	-0.397	0.0067	442.01	0.0196	0.01443
Cu	63	3	He	-0.363	0.0073	492.01	0.0196	0.01443
Zn	66	3	He	0.437	0.0038	248.00	0.0023	0.002807
Zn	66	3	He	0.503	0.0039	262.00	0.0023	0.002807
Zn	66	3	He	0.639	0.0043	286.00	0.0023	0.002807
As	75	3	He	0.991	0.0031	202.00	0.0018	0.001271
As	75	3	He	0.947	0.003	200.00	0.0018	0.001271
As	75	3	He	0.831	0.0028	188.00	0.0018	0.001271
Sr	88	3	He	-0.045	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.046	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.047	0.0008	40.00	0.0082	0.00114
Mo	98	3	He	-0.02	0.0012	60.00	0.0177	0.001504
Mo	98	3	He	-0.02	0.0011	60.00	0.0177	0.001504
Mo	98	3	He	-0.042	0.0008	40.00	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	0.006	0.0015	80.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	0.093	0.0121	630.03	0.0126	0.01097
Sn	120	3	He	0.086	0.012	630.04	0.0126	0.01097
Sn	120	3	He	0.073	0.0119	630.03	0.0126	0.01097
Sb	121	3	He	0.013	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.039	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.001	0.0004	20.00	0.012	0.0003595
Ba	137	3	He	0.104	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	-0.093	0	0.00	0.0039	0.0003633
Ba	137	3	He	0.1	0.0008	40.00	0.0039	0.0003633
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.036	0.0006	120.00	0.0189	0.001334
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	-0.017	0.0011	80.00	0.0252	0.001497
Pb	208	3	He	-0.01	0.0012	160.01	0.0252	0.001497
Pb	208	3	He	-0.024	0.0009	80.00	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
Sc	45	1	No Gas			1618896.38		
Sc	45	1	No Gas			1638128.73		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1604711.54		
Ge	72	1	No Gas			813647.02		
Ge	72	1	No Gas			816023.89		
Ge	72	1	No Gas			798382.41		
Sc	45	2	H2			127069.62		
Sc	45	2	H2			129448.88		
Sc	45	2	H2			127552.27		
Ge	72	2	H2			95352.50		
Ge	72	2	H2			97765.63		
Ge	72	2	H2			93863.67		
In	115	2	H2			239841.87		
In	115	2	H2			243201.48		
In	115	2	H2			240193.63		
Sc	45	3	He			38836.86		
Sc	45	3	He			37593.72		
Sc	45	3	He			39919.23		
Ge	72	3	He			65252.78		
Ge	72	3	He			66337.53		
Ge	72	3	He			67130.29		
In	115	3	He			51927.61		
In	115	3	He			52308.36		
In	115	3	He			53030.76		
Tb	159	3	He			188786.05		
Tb	159	3	He			185567.09		
Tb	159	3	He			188463.55		
Bi	209	3	He			142914.82		
Bi	209	3	He			143722.34		
Bi	209	3	He			139270.24		

Quantitation Report

Data File Name	311SMPL.d
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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

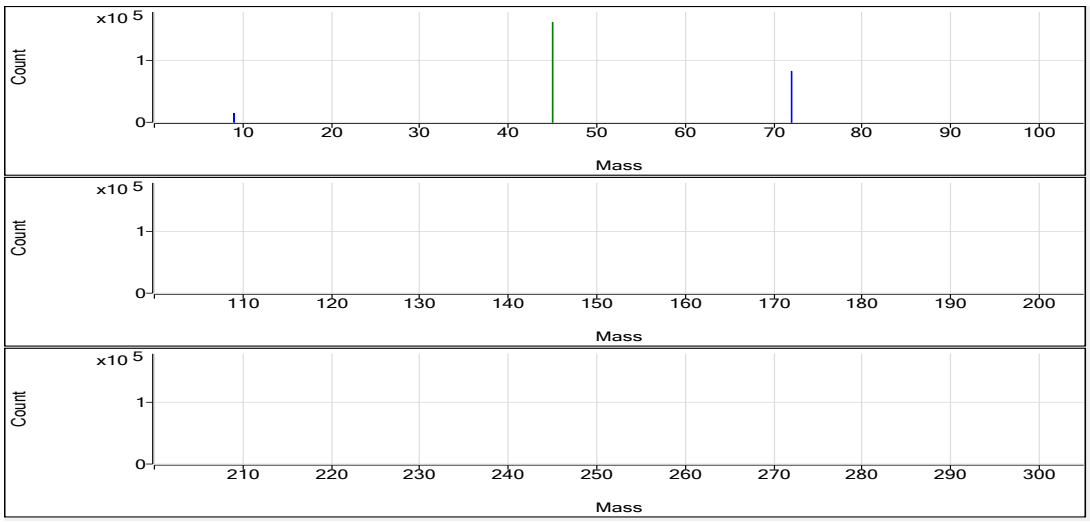
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	54.303	ppb	3.5	29582.47	0.0183	Pulse	0.5000	3
Se	78	72	H2	99.059	ppb	2.3	3783.56	0.0385	Pulse	1.5000	3
Na	23	45	He	5126.031	ppb	1.9	529403.21	13.5280	Pulse	0.1000	3
Mg	24	45	He	5241.423	ppb	0.5	249411.65	6.3729	Pulse	0.1000	3
Al	27	45	He	5337.747	ppb	2.4	78977.85	2.0182	Pulse	0.1000	3
K	39	45	He	5234.875	ppb	1.4	224187.93	5.7286	Pulse	0.5000	3
Ca	44	45	He	5146.501	ppb	1.6	10775.57	0.2754	Pulse	0.5000	3
Ti	47	45	He	535.493	ppb	2.5	8588.28	0.2195	Pulse	0.5000	3
V	51	45	He	521.442	ppb	0.7	359950.65	9.1975	Pulse	0.5000	3
Cr	52	45	He	526.934	ppb	0.4	449995.66	11.4981	Pulse	0.1000	3
Mn	55	45	He	526.292	ppb	0.6	188151.33	4.8076	Pulse	0.5000	3
Fe	57	45	He	5316.106	ppb	1.3	83410.15	2.1314	Pulse	0.1000	3
Co	59	45	He	518.955	ppb	1.4	838760.83	21.4330	Pulse	0.5000	3
Ni	60	45	He	520.880	ppb	1.1	239877.95	6.1295	Pulse	0.5000	3
Cu	63	72	He	519.237	ppb	0.4	667786.83	10.1718	Pulse	0.5000	3
Zn	66	72	He	524.802	ppb	0.2	78489.13	1.1955	Pulse	0.5000	3
As	75	72	He	515.230	ppb	0.9	62347.89	0.9497	Pulse	0.5000	3
Sr	88	115	He	51.956	ppb	1.0	21982.41	0.4280	Pulse	0.1000	3
Mo	98	115	He	51.735	ppb	3.0	47131.41	0.9178	Pulse	0.1000	3
Ag	107	115	He	52.985	ppb	1.1	100131.80	1.9497	Pulse	0.1000	3
Cd	111	115	He	53.842	ppb	2.1	11344.82	0.2209	Pulse	0.5000	3
Sn	120	115	He	107.688	ppb	1.1	70179.12	1.3664	Pulse	0.1000	3
Sb	121	115	He	104.426	ppb	0.2	64626.79	1.2583	Pulse	0.3000	3
Ba	137	115	He	534.959	ppb	1.1	107210.26	2.0876	Pulse	0.1000	3
Tl	205	159	He	102.173	ppb	0.9	370216.57	1.9365	Pulse	0.1000	3
Pb	208	159	He	52.442	ppb	0.7	252512.42	1.3208	Pulse	0.1000	3
U	238	159	He	53.275	ppb	1.8	250054.00	1.3079	Pulse	0.1000	3

ISTD Table:

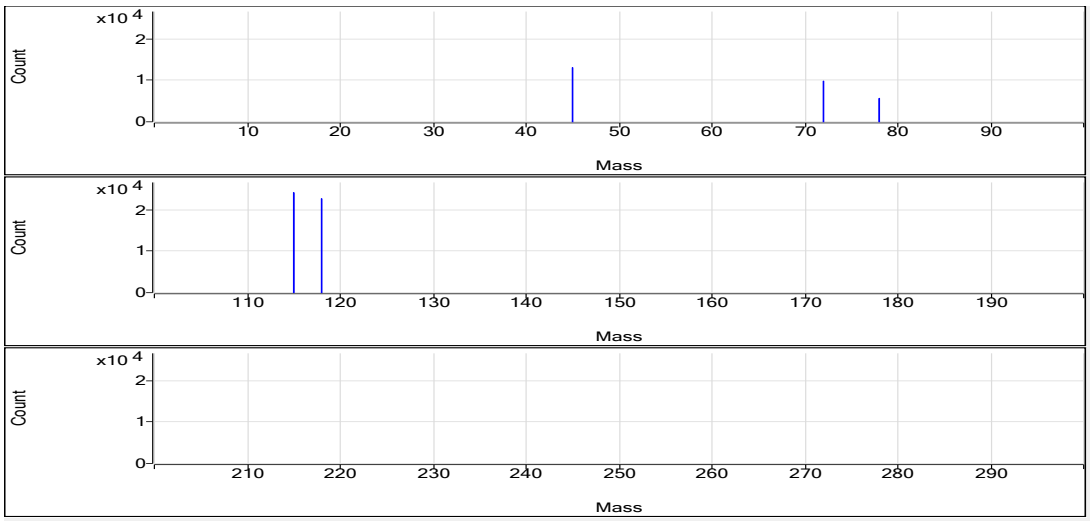
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1616346.80	0.1	94.6	Analog	0.1000	3
No Gas	Ge	72	825335.87	0.6	95.5	Pulse	0.1000	3
H2	Sc	45	130659.95	0.9	97.8	Pulse	0.1000	3
H2	Ge	72	98346.38	1.5	99.3	Pulse	0.1000	3
H2	In	115	241085.12	1.0	93.9	Pulse	0.1000	3
He	Sc	45	39137.40	0.9	99.2	Pulse	0.1000	3
He	Ge	72	65651.39	0.5	96.4	Pulse	0.1000	3
He	In	115	51362.35	1.5	92.7	Pulse	0.1000	3
He	Tb	159	191184.83	0.6	93.4	Pulse	0.1000	3
He	Bi	209	142548.13	1.8	94.2	Pulse	0.1000	3

No Gas

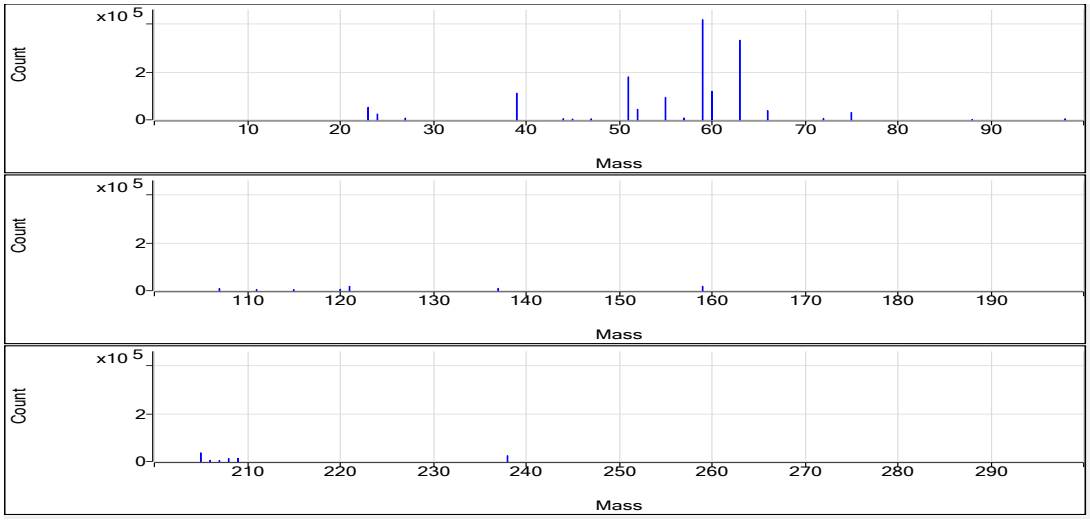


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	52.448	0.0177	28602.12	0.0003	2.616E-05
Be	9	1	No Gas	54.174	0.0183	29475.61	0.0003	2.616E-05
Be	9	1	No Gas	56.285	0.019	30669.68	0.0003	2.616E-05
Se	78	2	H2	97.305	0.0378	3779.12	0.0004	6.3E-05
Se	78	2	H2	101.689	0.0395	3839.80	0.0004	6.3E-05
Se	78	2	H2	98.183	0.0381	3731.77	0.0004	6.3E-05
Na	23	3	He	5156.778	13.6046	528225.42	0.0025	0.7502
Na	23	3	He	5019.227	13.2617	524074.84	0.0025	0.7502
Na	23	3	He	5202.089	13.7176	535909.37	0.0025	0.7502
Mg	24	3	He	5250.722	6.3841	247877.05	0.0012	0.02618
Mg	24	3	He	5209.815	6.3346	250330.29	0.0012	0.02618
Mg	24	3	He	5263.731	6.3999	250027.61	0.0012	0.02618
Al	27	3	He	5374.391	2.032	78897.09	0.0004	0.005329
Al	27	3	He	5193.916	1.964	77611.49	0.0004	0.005329
Al	27	3	He	5444.933	2.0586	80424.96	0.0004	0.005329
K	39	3	He	5306.993	5.8003	225206.11	0.001	0.5307
K	39	3	He	5164.453	5.6587	223620.22	0.001	0.5307
K	39	3	He	5233.18	5.727	223737.47	0.001	0.5307
Ca	44	3	He	5186.908	0.2775	10773.59	0.0001	0.004441
Ca	44	3	He	5052.405	0.2704	10685.50	0.0001	0.004441
Ca	44	3	He	5200.192	0.2782	10867.63	0.0001	0.004441
Ti	47	3	He	533.314	0.2186	8486.23	0.0004	0.0004559
Ti	47	3	He	523.351	0.2145	8476.22	0.0004	0.0004559
Ti	47	3	He	549.813	0.2253	8802.40	0.0004	0.0004559
V	51	3	He	523.517	9.2339	358526.09	0.0176	0.02609
V	51	3	He	517.266	9.124	360561.13	0.0176	0.02609
V	51	3	He	523.544	9.2344	360764.75	0.0176	0.02609
Cr	52	3	He	529.037	11.5438	448209.37	0.0217	0.05061
Cr	52	3	He	525.191	11.4602	452882.73	0.0217	0.05061
Cr	52	3	He	526.574	11.4903	448894.88	0.0217	0.05061
Mn	55	3	He	529.17	4.8339	187683.78	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	523.18	4.7793	188865.83	0.0091	0.01071
Mn	55	3	He	526.525	4.8097	187904.38	0.0091	0.01071
Fe	57	3	He	5386.464	2.1595	83845.56	0.0004	0.008452
Fe	57	3	He	5250.521	2.1052	83192.19	0.0004	0.008452
Fe	57	3	He	5311.332	2.1295	83192.69	0.0004	0.008452
Co	59	3	He	524.385	21.6571	840880.63	0.0413	0.006013
Co	59	3	He	510.661	21.0905	833450.13	0.0413	0.006013
Co	59	3	He	521.821	21.5513	841951.75	0.0413	0.006013
Ni	60	3	He	524.137	6.1678	239475.80	0.0117	0.01172
Ni	60	3	He	513.994	6.0486	239029.00	0.0117	0.01172
Ni	60	3	He	524.508	6.1721	241129.05	0.0117	0.01172
Cu	63	3	He	520.92	10.2047	666404.00	0.0196	0.01443
Cu	63	3	He	516.767	10.1235	665773.00	0.0196	0.01443
Cu	63	3	He	520.023	10.1872	671183.50	0.0196	0.01443
Zn	66	3	He	525.175	1.1964	78128.77	0.0023	0.002807
Zn	66	3	He	523.751	1.1932	78468.30	0.0023	0.002807
Zn	66	3	He	525.481	1.1971	78870.33	0.0023	0.002807
As	75	3	He	516.49	0.952	62169.24	0.0018	0.001271
As	75	3	He	510.023	0.9401	61825.85	0.0018	0.001271
As	75	3	He	519.176	0.9569	63048.58	0.0018	0.001271
Sr	88	3	He	52.348	0.4312	22135.94	0.0082	0.00114
Sr	88	3	He	52.165	0.4297	21755.42	0.0082	0.00114
Sr	88	3	He	51.355	0.4231	22055.86	0.0082	0.00114
Mo	98	3	He	52.825	0.9371	48104.54	0.0177	0.001504
Mo	98	3	He	52.41	0.9298	47071.09	0.0177	0.001504
Mo	98	3	He	49.971	0.8866	46218.61	0.0177	0.001504
Ag	107	3	He	52.839	1.9444	99806.11	0.0368	0.001325
Ag	107	3	He	53.62	1.9731	99887.01	0.0368	0.001325
Ag	107	3	He	52.495	1.9317	100702.29	0.0368	0.001325
Cd	111	3	He	53.794	0.2207	11330.14	0.0041	4.798E-05
Cd	111	3	He	54.997	0.2257	11424.23	0.0041	4.798E-05
Cd	111	3	He	52.734	0.2164	11280.10	0.0041	4.798E-05
Sn	120	3	He	106.52	1.3517	69385.18	0.0126	0.01097
Sn	120	3	He	108.885	1.3815	69938.13	0.0126	0.01097
Sn	120	3	He	107.658	1.3661	71214.04	0.0126	0.01097
Sb	121	3	He	104.645	1.2609	64723.84	0.012	0.0003595
Sb	121	3	He	104.415	1.2581	63693.08	0.012	0.0003595
Sb	121	3	He	104.216	1.2557	65463.44	0.012	0.0003595
Ba	137	3	He	534.493	2.0857	107062.77	0.0039	0.0003633
Ba	137	3	He	541.078	2.1114	106890.95	0.0039	0.0003633
Ba	137	3	He	529.307	2.0655	107677.05	0.0039	0.0003633
Tl	205	3	He	101.52	1.9241	370418.94	0.0189	0.001334
Tl	205	3	He	101.766	1.9288	366915.54	0.0189	0.001334
Tl	205	3	He	103.233	1.9565	373315.23	0.0189	0.001334
Pb	208	3	He	52.068	1.3114	134705.32	0.0252	0.001497
Pb	208	3	He	52.483	1.3218	135111.34	0.0252	0.001497
Pb	208	3	He	52.776	1.3292	136209.77	0.0252	0.001497
U	238	3	He	52.684	1.2934	249007.05	0.0245	0.0001141
U	238	3	He	52.78	1.2958	246504.57	0.0245	0.0001141
U	238	3	He	54.362	1.3346	254650.39	0.0245	0.0001141
Sc	45	1	No Gas			1617938.41		
Sc	45	1	No Gas			1614312.32		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1616789.66		
Ge	72	1	No Gas			825626.78		
Ge	72	1	No Gas			820001.16		
Ge	72	1	No Gas			830379.68		
Sc	45	2	H2			130898.23		
Sc	45	2	H2			129376.06		
Sc	45	2	H2			131705.56		
Ge	72	2	H2			99980.01		
Ge	72	2	H2			97212.97		
Ge	72	2	H2			97846.15		
In	115	2	H2			243091.50		
In	115	2	H2			238477.01		
In	115	2	H2			241686.85		
Sc	45	3	He			38826.95		
Sc	45	3	He			39517.83		
Sc	45	3	He			39067.41		
Ge	72	3	He			65303.63		
Ge	72	3	He			65765.35		
Ge	72	3	He			65885.19		
In	115	3	He			51816.64		
In	115	3	He			51114.53		
In	115	3	He			52629.65		
Tb	159	3	He			192516.42		
Tb	159	3	He			190234.68		
Tb	159	3	He			190803.38		
Bi	209	3	He			141026.61		
Bi	209	3	He			141178.51		
Bi	209	3	He			145439.28		

Quantitation Report

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Sample Type	Sample
Comment	MS G9 RR
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

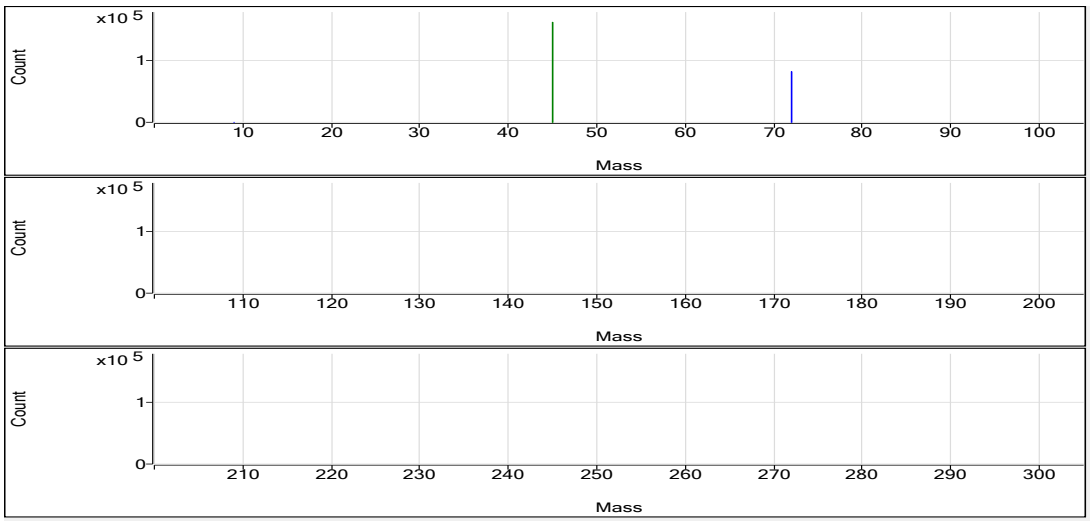
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.097	ppb	18.7	95.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.129	ppb	87.3	10.89	0.0001	Pulse	1.5000	3
Na	23	45	He	104951.411	ppb	0.0	10286688.60	262.3651	Analog	0.1000	3
Mg	24	45	He	13990.866	ppb	0.7	665242.41	16.9674	Pulse	0.1000	3
Al	27	45	He	480.630	ppb	1.1	7315.15	0.1866	Pulse	0.1000	3
K	39	45	He	11137.817	ppb	0.6	454409.31	11.5900	Pulse	0.5000	3
Ca	44	45	He	117179.428	ppb	0.5	242013.67	6.1727	Pulse	0.5000	3
Ti	47	45	He	1.587	ppb	50.8	43.33	0.0011	Pulse	0.5000	3
V	51	45	He	0.355	ppb	16.9	1268.06	0.0323	Pulse	0.5000	3
Cr	52	45	He	-0.236	ppb	N/A	1783.49	0.0455	Pulse	0.1000	3
Mn	55	45	He	452.034	ppb	0.3	161956.94	4.1308	Pulse	0.5000	3
Fe	57	45	He	1514.098	ppb	1.7	24038.54	0.6131	Pulse	0.1000	3
Co	59	45	He	0.762	ppb	3.4	1470.08	0.0375	Pulse	0.5000	3
Ni	60	45	He	10.919	ppb	2.4	5487.62	0.1400	Pulse	0.5000	3
Cu	63	72	He	2.337	ppb	5.3	3981.17	0.0602	Pulse	0.5000	3
Zn	66	72	He	4.593	ppb	12.4	876.03	0.0132	Pulse	0.5000	3
As	75	72	He	2.193	ppb	4.5	351.34	0.0053	Pulse	0.5000	3
Sr	88	115	He	410.513	ppb	2.9	177492.05	3.3740	Pulse	0.1000	3
Mo	98	115	He	2.381	ppb	4.8	2300.24	0.0437	Pulse	0.1000	3
Ag	107	115	He	0.024	ppb	33.3	116.67	0.0022	Pulse	0.1000	3
Cd	111	115	He	0.044	ppb	57.2	12.00	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.162	ppb	111.0	683.37	0.0130	Pulse	0.1000	3
Sb	121	115	He	0.423	ppb	7.4	286.67	0.0054	Pulse	0.3000	3
Ba	137	115	He	109.825	ppb	1.4	22567.34	0.4289	Pulse	0.1000	3
Tl	205	159	He	0.184	ppb	11.5	920.06	0.0048	Pulse	0.1000	3
Pb	208	159	He	10.765	ppb	0.9	51954.88	0.2723	Pulse	0.1000	3
U	238	159	He	0.145	ppb	8.1	700.04	0.0037	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1622330.86	1.2	95.0	Analog	0.1000	3
No Gas	Ge	72	822415.17	0.5	95.2	Pulse	0.1000	3
H2	Sc	45	128930.59	2.0	96.5	Pulse	0.1000	3
H2	Ge	72	96643.03	1.7	97.6	Pulse	0.1000	3
H2	In	115	238902.81	0.5	93.1	Pulse	0.1000	3
He	Sc	45	39207.52	0.4	99.3	Pulse	0.1000	3
He	Ge	72	66206.92	1.6	97.2	Pulse	0.1000	3
He	In	115	52624.90	2.0	95.0	Pulse	0.1000	3
He	Tb	159	190794.43	1.1	93.2	Pulse	0.1000	3
He	Bi	209	138549.14	1.8	91.6	Pulse	0.1000	3

No Gas



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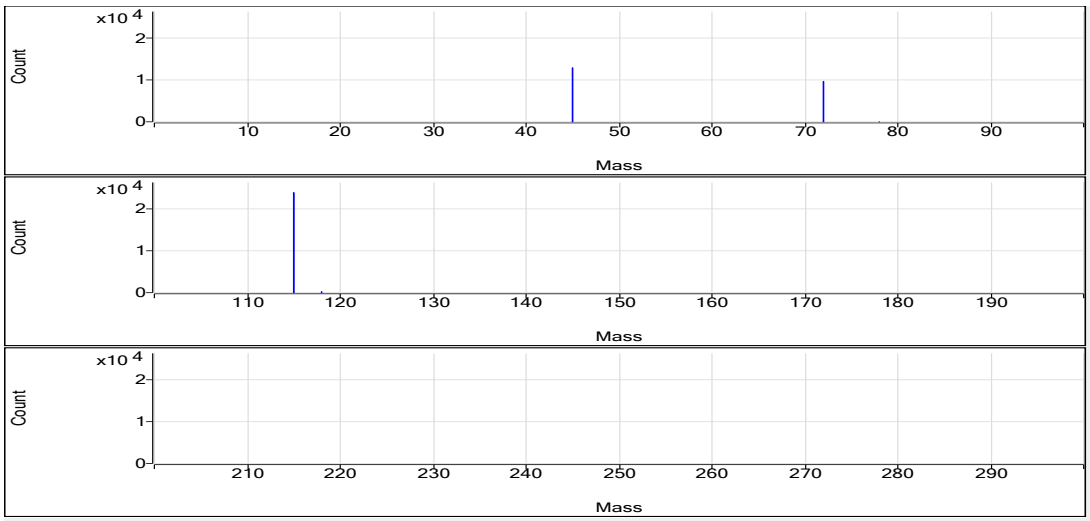
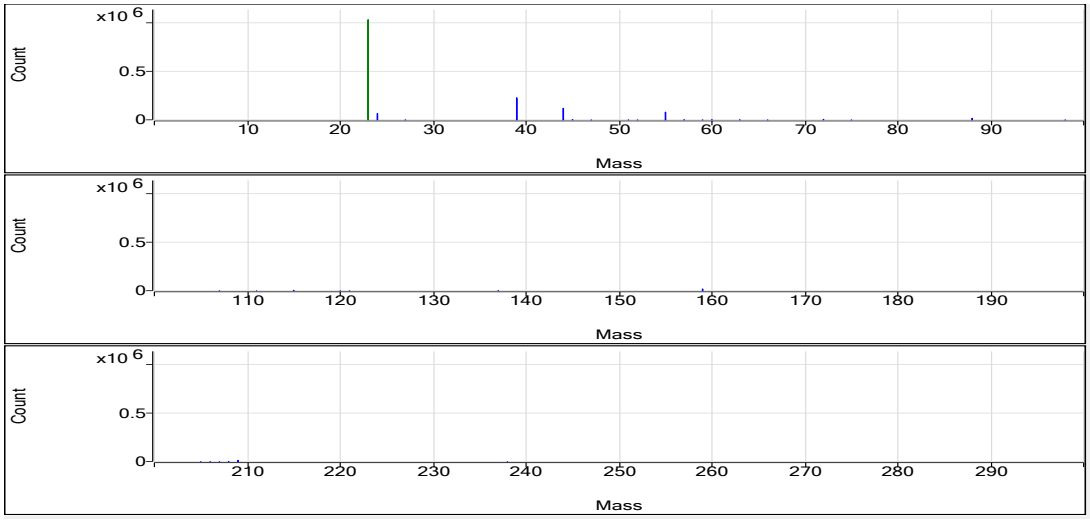


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.117	0.0001	108.00	0.0003	2.616E-05
Be	9	1	No Gas	0.089	0.0001	90.00	0.0003	2.616E-05
Be	9	1	No Gas	0.084	0.0001	88.00	0.0003	2.616E-05
Se	78	2	H2	0.1	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	0.034	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	0.253	0.0002	15.33	0.0004	6.3E-05
Na	23	3	He	104984.192	262.4468	10289914.22	0.0025	0.7502
Na	23	3	He	104912.466	262.268	10246107.97	0.0025	0.7502
Na	23	3	He	104957.576	262.3804	10324043.60	0.0025	0.7502
Mg	24	3	He	14081.146	17.0767	669536.32	0.0012	0.02618
Mg	24	3	He	13999.209	16.9775	663264.37	0.0012	0.02618
Mg	24	3	He	13892.242	16.8479	662926.55	0.0012	0.02618
Al	27	3	He	474.311	0.1842	7221.76	0.0004	0.005329
Al	27	3	He	484.212	0.1879	7341.78	0.0004	0.005329
Al	27	3	He	483.367	0.1876	7381.91	0.0004	0.005329
K	39	3	He	11188.231	11.64	456378.31	0.001	0.5307
K	39	3	He	11167.911	11.6199	453956.97	0.001	0.5307
K	39	3	He	11057.31	11.51	452892.66	0.001	0.5307
Ca	44	3	He	117316.784	6.1799	242300.66	0.0001	0.004441
Ca	44	3	He	117693.235	6.1998	242207.78	0.0001	0.004441
Ca	44	3	He	116528.266	6.1384	241532.58	0.0001	0.004441
Ti	47	3	He	0.756	0.0008	30.00	0.0004	0.0004559
Ti	47	3	He	1.639	0.0011	44.00	0.0004	0.0004559
Ti	47	3	He	2.365	0.0014	56.00	0.0004	0.0004559
V	51	3	He	0.294	0.0313	1226.05	0.0176	0.02609
V	51	3	He	0.414	0.0334	1304.06	0.0176	0.02609
V	51	3	He	0.357	0.0324	1274.06	0.0176	0.02609
Cr	52	3	He	-0.263	0.0449	1760.15	0.0217	0.05061
Cr	52	3	He	-0.15	0.0474	1850.16	0.0217	0.05061
Cr	52	3	He	-0.294	0.0442	1740.17	0.0217	0.05061
Mn	55	3	He	452.509	4.1351	162128.53	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	453.323	4.1425	161838.09	0.0091	0.01071
Mn	55	3	He	450.27	4.1147	161904.20	0.0091	0.01071
Fe	57	3	He	1523.751	0.6169	24188.87	0.0004	0.008452
Fe	57	3	He	1485.636	0.6017	23507.68	0.0004	0.008452
Fe	57	3	He	1532.906	0.6206	24419.08	0.0004	0.008452
Co	59	3	He	0.785	0.0384	1506.08	0.0413	0.006013
Co	59	3	He	0.733	0.0363	1418.07	0.0413	0.006013
Co	59	3	He	0.769	0.0378	1486.08	0.0413	0.006013
Ni	60	3	He	10.696	0.1373	5384.92	0.0117	0.01172
Ni	60	3	He	10.86	0.1393	5440.94	0.0117	0.01172
Ni	60	3	He	11.2	0.1433	5637.01	0.0117	0.01172
Cu	63	3	He	2.458	0.0625	4062.52	0.0196	0.01443
Cu	63	3	He	2.212	0.0577	3848.47	0.0196	0.01443
Cu	63	3	He	2.342	0.0603	4032.53	0.0196	0.01443
Zn	66	3	He	5.21	0.0146	952.03	0.0023	0.002807
Zn	66	3	He	4.478	0.013	866.03	0.0023	0.002807
Zn	66	3	He	4.09	0.0121	810.03	0.0023	0.002807
As	75	3	He	2.302	0.0055	358.01	0.0018	0.001271
As	75	3	He	2.111	0.0052	344.01	0.0018	0.001271
As	75	3	He	2.167	0.0053	352.01	0.0018	0.001271
Sr	88	3	He	399.972	3.2874	175076.17	0.0082	0.00114
Sr	88	3	He	408.127	3.3544	178412.95	0.0082	0.00114
Sr	88	3	He	423.438	3.4802	178987.03	0.0082	0.00114
Mo	98	3	He	2.47	0.0453	2410.25	0.0177	0.001504
Mo	98	3	He	2.42	0.0444	2360.26	0.0177	0.001504
Mo	98	3	He	2.254	0.0414	2130.21	0.0177	0.001504
Ag	107	3	He	0.03	0.0024	130.00	0.0368	0.001325
Ag	107	3	He	0.015	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	0.027	0.0023	120.01	0.0368	0.001325
Cd	111	3	He	0.052	0.0003	14.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.064	0.0003	16.00	0.0041	4.798E-05
Sn	120	3	He	0.203	0.0135	720.04	0.0126	0.01097
Sn	120	3	He	-0.035	0.0105	560.03	0.0126	0.01097
Sn	120	3	He	0.318	0.015	770.04	0.0126	0.01097
Sb	121	3	He	0.443	0.0057	303.34	0.012	0.0003595
Sb	121	3	He	0.386	0.005	266.67	0.012	0.0003595
Sb	121	3	He	0.438	0.0056	290.01	0.012	0.0003595
Ba	137	3	He	110.973	0.4333	23077.93	0.0039	0.0003633
Ba	137	3	He	108.126	0.4222	22457.39	0.0039	0.0003633
Ba	137	3	He	110.376	0.431	22166.69	0.0039	0.0003633
Tl	205	3	He	0.204	0.0052	990.07	0.0189	0.001334
Tl	205	3	He	0.162	0.0044	830.05	0.0189	0.001334
Tl	205	3	He	0.187	0.0049	940.07	0.0189	0.001334
Pb	208	3	He	10.656	0.2696	28197.92	0.0252	0.001497
Pb	208	3	He	10.846	0.2744	28127.70	0.0252	0.001497
Pb	208	3	He	10.792	0.273	27797.21	0.0252	0.001497
U	238	3	He	0.158	0.004	760.04	0.0245	0.0001141
U	238	3	He	0.142	0.0036	680.04	0.0245	0.0001141
U	238	3	He	0.135	0.0034	660.04	0.0245	0.0001141
Sc	45	1	No Gas			1644461.54		
Sc	45	1	No Gas			1605493.57		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1617037.48		
Ge	72	1	No Gas			827095.30		
Ge	72	1	No Gas			820526.47		
Ge	72	1	No Gas			819623.74		
Sc	45	2	H2			131292.22		
Sc	45	2	H2			129337.14		
Sc	45	2	H2			126162.42		
Ge	72	2	H2			98379.52		
Ge	72	2	H2			96368.07		
Ge	72	2	H2			95181.51		
In	115	2	H2			240135.47		
In	115	2	H2			238631.60		
In	115	2	H2			237941.36		
Sc	45	3	He			39207.62		
Sc	45	3	He			39067.32		
Sc	45	3	He			39347.61		
Ge	72	3	He			64991.61		
Ge	72	3	He			66699.26		
Ge	72	3	He			66929.89		
In	115	3	He			53261.85		
In	115	3	He			53191.70		
In	115	3	He			51435.49		
Tb	159	3	He			190739.72		
Tb	159	3	He			188796.68		
Tb	159	3	He			192846.89		
Bi	209	3	He			141218.24		
Bi	209	3	He			136199.52		
Bi	209	3	He			138229.65		

Quantitation Report

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Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 9:31:04 PM
Sample Name	410-230677-E-6-A DU
Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

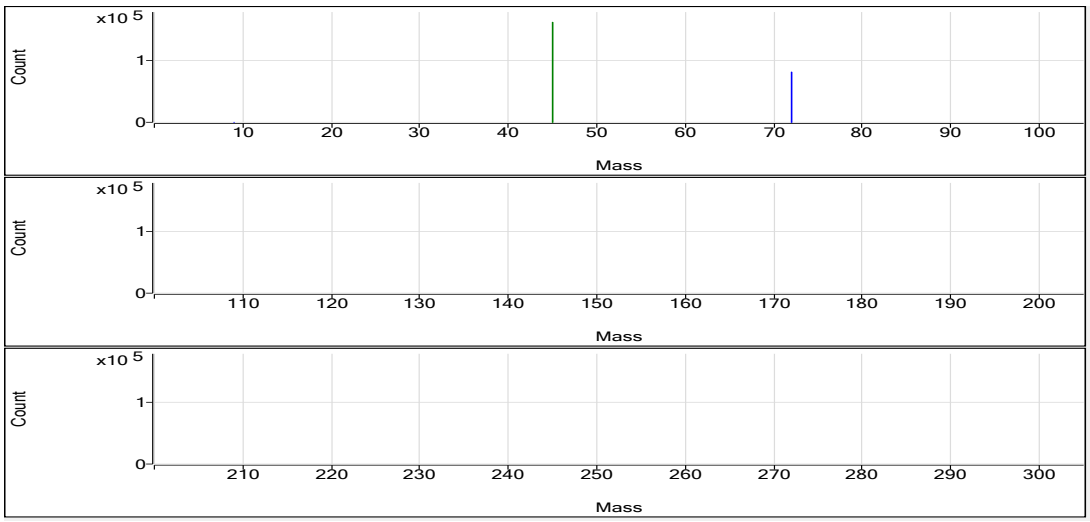
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.021	ppb	91.8	54.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.150	ppb	28.4	11.78	0.0001	Pulse	1.5000	3
Na	23	45	He	104685.502	ppb	1.0	10146532.97	261.7022	Analog	0.1000	3
Mg	24	45	He	13950.552	ppb	1.7	655929.13	16.9186	Pulse	0.1000	3
Al	27	45	He	466.240	ppb	6.0	7021.70	0.1811	Pulse	0.1000	3
K	39	45	He	11186.861	ppb	1.1	451244.29	11.6387	Pulse	0.5000	3
Ca	44	45	He	117672.752	ppb	1.8	240320.74	6.1987	Pulse	0.5000	3
Ti	47	45	He	1.109	ppb	119.8	35.33	0.0009	Pulse	0.5000	3
V	51	45	He	0.128	ppb	14.1	1099.37	0.0284	Pulse	0.5000	3
Cr	52	45	He	-0.442	ppb	N/A	1590.13	0.0410	Pulse	0.1000	3
Mn	55	45	He	453.296	ppb	1.0	160603.00	4.1423	Pulse	0.5000	3
Fe	57	45	He	1583.247	ppb	0.6	24842.94	0.6407	Pulse	0.1000	3
Co	59	45	He	0.551	ppb	2.9	1116.05	0.0288	Pulse	0.5000	3
Ni	60	45	He	11.113	ppb	1.4	5514.96	0.1422	Pulse	0.5000	3
Cu	63	72	He	2.047	ppb	7.5	3593.75	0.0545	Pulse	0.5000	3
Zn	66	72	He	4.693	ppb	2.8	889.36	0.0135	Pulse	0.5000	3
As	75	72	He	1.684	ppb	24.2	288.00	0.0044	Pulse	0.5000	3
Sr	88	115	He	413.936	ppb	2.3	176051.53	3.4021	Pulse	0.1000	3
Mo	98	115	He	2.214	ppb	7.0	2106.87	0.0407	Pulse	0.1000	3
Ag	107	115	He	-0.010	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Cd	111	115	He	0.032	ppb	19.7	9.33	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.047	ppb	350.7	596.70	0.0116	Pulse	0.1000	3
Sb	121	115	He	0.340	ppb	12.3	230.00	0.0045	Pulse	0.3000	3
Ba	137	115	He	114.390	ppb	5.8	23098.00	0.4467	Pulse	0.1000	3
Tl	205	159	He	0.031	ppb	81.5	363.35	0.0019	Pulse	0.1000	3
Pb	208	159	He	10.537	ppb	0.9	50505.87	0.2666	Pulse	0.1000	3
U	238	159	He	0.058	ppb	41.7	290.02	0.0015	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1626786.48	0.5	95.2	Analog	0.1000	3
No Gas	Ge	72	817924.49	0.6	94.7	Pulse	0.1000	3
H2	Sc	45	131466.58	1.9	98.4	Pulse	0.1000	3
H2	Ge	72	97049.52	1.2	98.0	Pulse	0.1000	3
H2	In	115	241644.79	1.4	94.1	Pulse	0.1000	3
He	Sc	45	38773.35	0.8	98.2	Pulse	0.1000	3
He	Ge	72	66016.13	1.8	96.9	Pulse	0.1000	3
He	In	115	51772.63	3.2	93.4	Pulse	0.1000	3
He	Tb	159	189456.46	0.8	92.5	Pulse	0.1000	3
He	Bi	209	140083.83	0.7	92.6	Pulse	0.1000	3

No Gas



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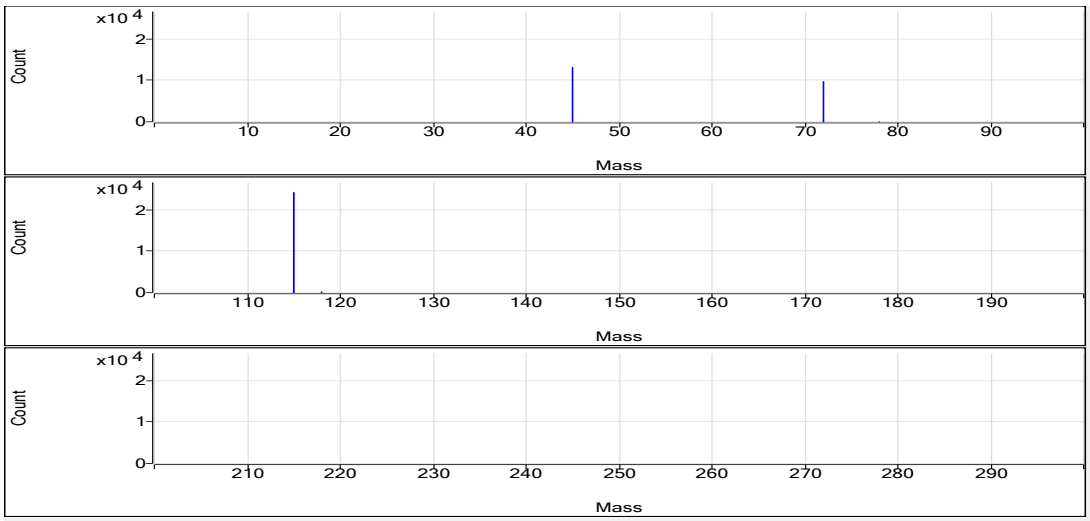
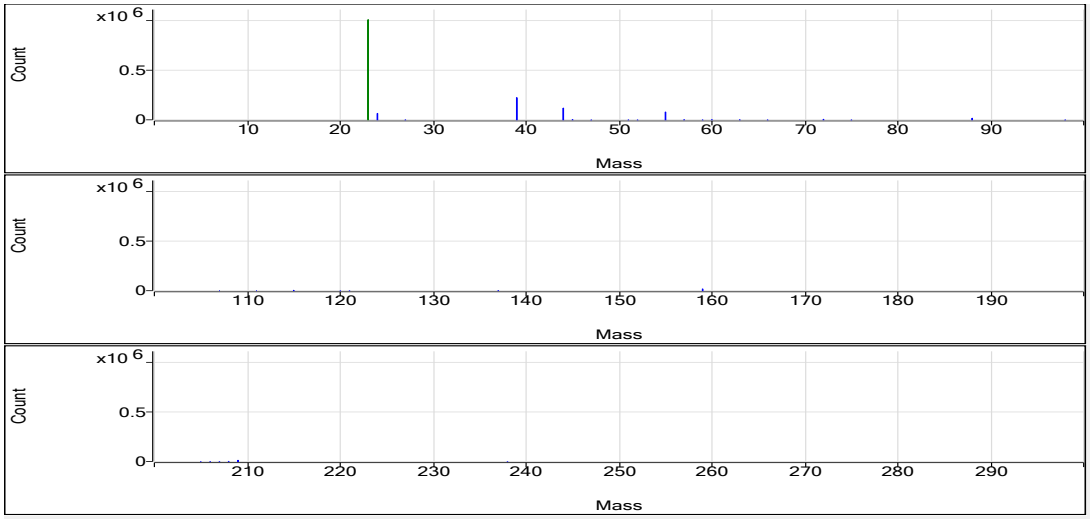


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.032	0	60.00	0.0003	2.616E-05
Be	9	1	No Gas	0.032	0	60.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.001	0	42.00	0.0003	2.616E-05
Se	78	2	H2	0.104	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	0.16	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.187	0.0001	13.33	0.0004	6.3E-05
Na	23	3	He	103978.912	259.9409	10105761.72	0.0025	0.7502
Na	23	3	He	105920.924	264.7818	10171767.97	0.0025	0.7502
Na	23	3	He	104156.669	260.384	10162069.22	0.0025	0.7502
Mg	24	3	He	13808.295	16.7463	651048.43	0.0012	0.02618
Mg	24	3	He	14228.387	17.255	662861.40	0.0012	0.02618
Mg	24	3	He	13814.975	16.7544	653877.57	0.0012	0.02618
Al	27	3	He	445.024	0.1731	6731.52	0.0004	0.005329
Al	27	3	He	498.194	0.1932	7421.87	0.0004	0.005329
Al	27	3	He	455.501	0.1771	6911.70	0.0004	0.005329
K	39	3	He	11131.47	11.5837	450340.47	0.001	0.5307
K	39	3	He	11330.605	11.7814	452590.69	0.001	0.5307
K	39	3	He	11098.508	11.551	450801.72	0.001	0.5307
Ca	44	3	He	116515.334	6.1378	238618.23	0.0001	0.004441
Ca	44	3	He	120071.504	6.3249	242976.94	0.0001	0.004441
Ca	44	3	He	116431.418	6.1333	239367.05	0.0001	0.004441
Ti	47	3	He	2.533	0.0015	58.00	0.0004	0.0004559
Ti	47	3	He	-0.096	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.89	0.0008	32.00	0.0004	0.0004559
V	51	3	He	0.149	0.0287	1116.04	0.0176	0.02609
V	51	3	He	0.124	0.0283	1086.04	0.0176	0.02609
V	51	3	He	0.113	0.0281	1096.04	0.0176	0.02609
Cr	52	3	He	-0.257	0.045	1750.15	0.0217	0.05061
Cr	52	3	He	-0.556	0.0385	1480.11	0.0217	0.05061
Cr	52	3	He	-0.513	0.0395	1540.12	0.0217	0.05061
Mn	55	3	He	449.806	4.1105	159803.97	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	458.365	4.1885	160904.03	0.0091	0.01071
Mn	55	3	He	451.718	4.1279	161101.00	0.0091	0.01071
Fe	57	3	He	1582.035	0.6402	24889.85	0.0004	0.008452
Fe	57	3	He	1573.852	0.637	24468.86	0.0004	0.008452
Fe	57	3	He	1593.853	0.6449	25170.12	0.0004	0.008452
Co	59	3	He	0.54	0.0283	1100.05	0.0413	0.006013
Co	59	3	He	0.545	0.0285	1096.04	0.0413	0.006013
Co	59	3	He	0.569	0.0295	1152.05	0.0413	0.006013
Ni	60	3	He	10.94	0.1402	5450.94	0.0117	0.01172
Ni	60	3	He	11.243	0.1438	5522.97	0.0117	0.01172
Ni	60	3	He	11.156	0.1427	5570.98	0.0117	0.01172
Cu	63	3	He	2.172	0.0569	3688.44	0.0196	0.01443
Cu	63	3	He	1.875	0.0511	3432.38	0.0196	0.01443
Cu	63	3	He	2.093	0.0554	3660.44	0.0196	0.01443
Zn	66	3	He	4.835	0.0138	894.03	0.0023	0.002807
Zn	66	3	He	4.675	0.0134	902.03	0.0023	0.002807
Zn	66	3	He	4.57	0.0132	872.03	0.0023	0.002807
As	75	3	He	2.143	0.0052	338.01	0.0018	0.001271
As	75	3	He	1.364	0.0038	254.00	0.0018	0.001271
As	75	3	He	1.545	0.0041	272.00	0.0018	0.001271
Sr	88	3	He	424.535	3.4892	173992.20	0.0082	0.00114
Sr	88	3	He	410.645	3.3751	177178.32	0.0082	0.00114
Sr	88	3	He	406.629	3.3421	176984.06	0.0082	0.00114
Mo	98	3	He	2.304	0.0423	2110.21	0.0177	0.001504
Mo	98	3	He	2.034	0.0375	1970.17	0.0177	0.001504
Mo	98	3	He	2.303	0.0423	2240.23	0.0177	0.001504
Ag	107	3	He	-0.003	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.037	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.025	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	0.196	0.0134	670.04	0.0126	0.01097
Sn	120	3	He	-0.13	0.0093	490.03	0.0126	0.01097
Sn	120	3	He	0.074	0.0119	630.04	0.0126	0.01097
Sb	121	3	He	0.381	0.0049	246.67	0.012	0.0003595
Sb	121	3	He	0.297	0.0039	206.67	0.012	0.0003595
Sb	121	3	He	0.341	0.0045	236.67	0.012	0.0003595
Ba	137	3	He	121.872	0.4759	23729.04	0.0039	0.0003633
Ba	137	3	He	109.404	0.4272	22426.99	0.0039	0.0003633
Ba	137	3	He	111.894	0.4369	23137.98	0.0039	0.0003633
Tl	205	3	He	0.024	0.0018	340.02	0.0189	0.001334
Tl	205	3	He	0.01	0.0015	290.01	0.0189	0.001334
Tl	205	3	He	0.059	0.0025	460.02	0.0189	0.001334
Pb	208	3	He	10.517	0.2661	27135.79	0.0252	0.001497
Pb	208	3	He	10.64	0.2692	27657.25	0.0252	0.001497
Pb	208	3	He	10.453	0.2645	25803.28	0.0252	0.001497
U	238	3	He	0.068	0.0018	340.02	0.0245	0.0001141
U	238	3	He	0.075	0.0019	370.02	0.0245	0.0001141
U	238	3	He	0.03	0.0009	160.01	0.0245	0.0001141
Sc	45	1	No Gas			1617797.16		
Sc	45	1	No Gas			1630691.85		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1631870.44		
Ge	72	1	No Gas			812642.57		
Ge	72	1	No Gas			817887.33		
Ge	72	1	No Gas			823243.58		
Sc	45	2	H2			129165.11		
Sc	45	2	H2			131059.99		
Sc	45	2	H2			134174.64		
Ge	72	2	H2			96933.13		
Ge	72	2	H2			95915.80		
Ge	72	2	H2			98299.64		
In	115	2	H2			238287.40		
In	115	2	H2			241667.11		
In	115	2	H2			244979.86		
Sc	45	3	He			38877.15		
Sc	45	3	He			38415.66		
Sc	45	3	He			39027.24		
Ge	72	3	He			64801.48		
Ge	72	3	He			67150.61		
Ge	72	3	He			66096.31		
In	115	3	He			49870.52		
In	115	3	He			52499.37		
In	115	3	He			52960.52		
Tb	159	3	He			190336.72		
Tb	159	3	He			190319.10		
Tb	159	3	He			187713.55		
Bi	209	3	He			140653.43		
Bi	209	3	He			140632.20		
Bi	209	3	He			138965.86		

Quantitation Report

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Sample Type	Sample
Comment	MS G9 RR
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

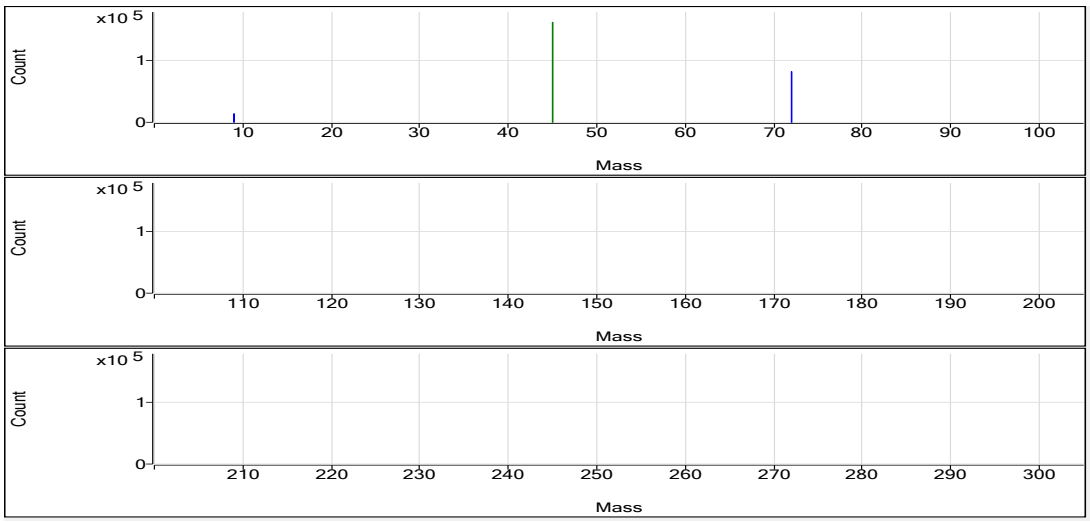
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	51.370	ppb	5.2	28244.88	0.0173	Pulse	0.5000	3
Se	78	72	H2	96.099	ppb	0.9	3659.75	0.0373	Pulse	1.5000	3
Na	23	45	He	105742.674	ppb	1.6	10361035.89	264.3375	Analog	0.1000	3
Mg	24	45	He	18340.497	ppb	1.6	871503.09	22.2342	Pulse	0.1000	3
Al	27	45	He	5479.677	ppb	2.1	81201.64	2.0717	Pulse	0.1000	3
K	39	45	He	15718.987	ppb	1.7	632581.98	16.1389	Pulse	0.5000	3
Ca	44	45	He	118075.321	ppb	1.3	243802.31	6.2199	Pulse	0.5000	3
Ti	47	45	He	509.628	ppb	2.7	8187.42	0.2089	Pulse	0.5000	3
V	51	45	He	501.351	ppb	2.1	346642.43	8.8441	Pulse	0.5000	3
Cr	52	45	He	498.334	ppb	1.4	426334.62	10.8768	Pulse	0.1000	3
Mn	55	45	He	929.198	ppb	1.7	332379.79	8.4799	Pulse	0.5000	3
Fe	57	45	He	6476.806	ppb	2.4	101703.57	2.5949	Pulse	0.1000	3
Co	59	45	He	488.398	ppb	2.1	790607.92	20.1713	Pulse	0.5000	3
Ni	60	45	He	500.081	ppb	1.7	230679.29	5.8852	Pulse	0.5000	3
Cu	63	72	He	486.059	ppb	1.9	637306.86	9.5228	Pulse	0.5000	3
Zn	66	72	He	491.658	ppb	1.4	74973.45	1.1202	Pulse	0.5000	3
As	75	72	He	489.710	ppb	1.7	60414.58	0.9027	Pulse	0.5000	3
Sr	88	115	He	446.510	ppb	1.9	191532.20	3.6698	Pulse	0.1000	3
Mo	98	115	He	51.982	ppb	0.3	48134.25	0.9222	Pulse	0.1000	3
Ag	107	115	He	49.187	ppb	0.8	94477.45	1.8100	Pulse	0.1000	3
Cd	111	115	He	49.771	ppb	0.6	10659.67	0.2042	Pulse	0.5000	3
Sn	120	115	He	98.774	ppb	1.8	65458.43	1.2542	Pulse	0.1000	3
Sb	121	115	He	100.173	ppb	0.9	62998.15	1.2070	Pulse	0.3000	3
Ba	137	115	He	605.646	ppb	0.6	123356.47	2.3633	Pulse	0.1000	3
Tl	205	159	He	97.577	ppb	0.7	348129.41	1.8494	Pulse	0.1000	3
Pb	208	159	He	60.623	ppb	1.2	287346.59	1.5266	Pulse	0.1000	3
U	238	159	He	51.759	ppb	0.8	239189.35	1.2707	Pulse	0.1000	3

ISTD Table:

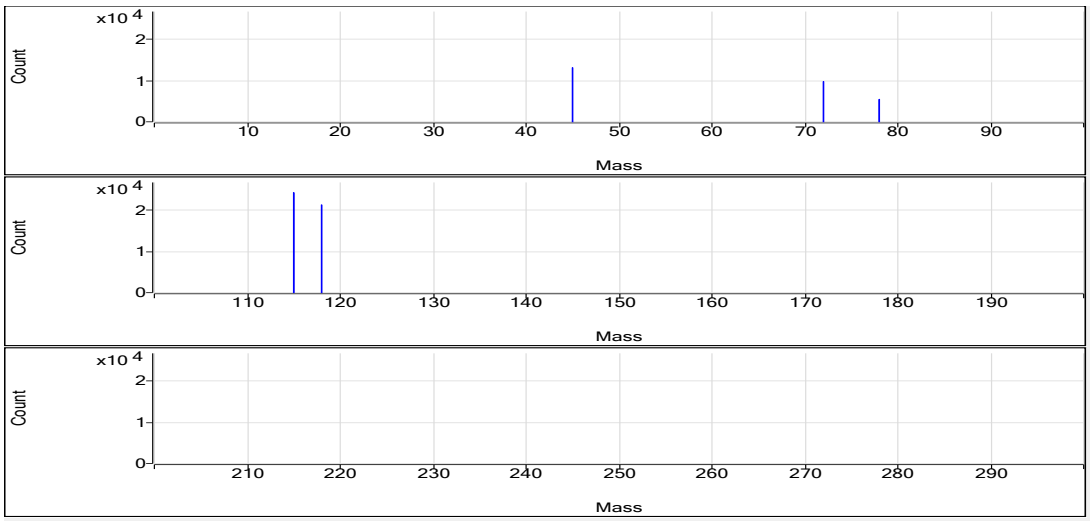
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1631770.03	1.0	95.5	Analog	0.1000	3
No Gas	Ge	72	827285.43	0.4	95.8	Pulse	0.1000	3
H2	Sc	45	131739.15	0.3	98.6	Pulse	0.1000	3
H2	Ge	72	98040.92	1.2	99.0	Pulse	0.1000	3
H2	In	115	243315.24	0.7	94.8	Pulse	0.1000	3
He	Sc	45	39201.12	1.2	99.3	Pulse	0.1000	3
He	Ge	72	66932.97	1.0	98.3	Pulse	0.1000	3
He	In	115	52194.96	0.8	94.2	Pulse	0.1000	3
He	Tb	159	188246.92	1.7	91.9	Pulse	0.1000	3
He	Bi	209	139276.19	1.1	92.1	Pulse	0.1000	3

No Gas

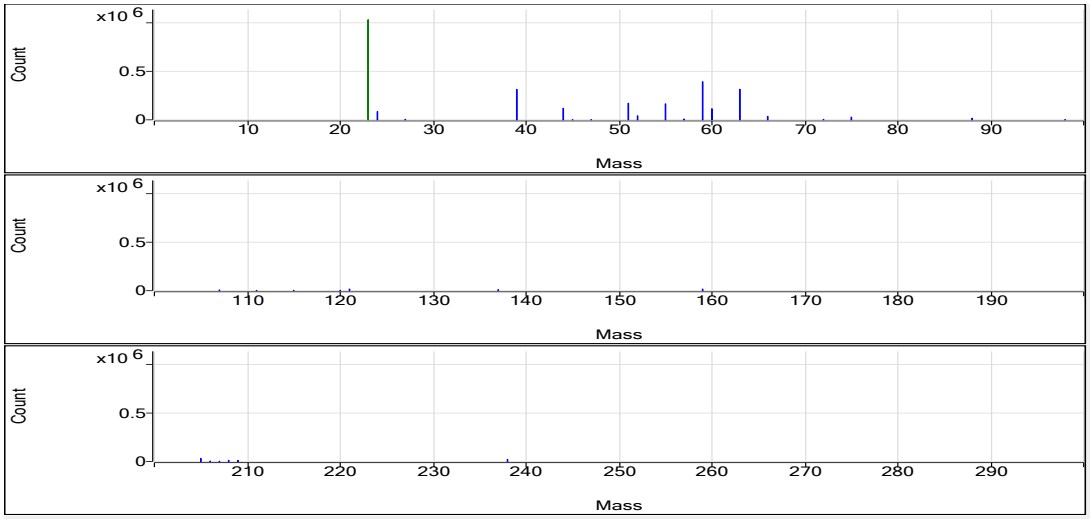


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	48.699	0.0164	27061.59	0.0003	2.616E-05
Be	9	1	No Gas	51.327	0.0173	28195.43	0.0003	2.616E-05
Be	9	1	No Gas	54.084	0.0182	29477.62	0.0003	2.616E-05
Se	78	2	H2	96.669	0.0376	3686.43	0.0004	6.3E-05
Se	78	2	H2	96.53	0.0375	3629.08	0.0004	6.3E-05
Se	78	2	H2	95.097	0.0369	3663.75	0.0004	6.3E-05
Na	23	3	He	103794.586	259.4814	10301104.22	0.0025	0.7502
Na	23	3	He	107030.396	267.5474	10380002.35	0.0025	0.7502
Na	23	3	He	106403.039	265.9836	10402001.09	0.0025	0.7502
Mg	24	3	He	18016.411	21.8418	867093.58	0.0012	0.02618
Mg	24	3	He	18550.085	22.488	872464.60	0.0012	0.02618
Mg	24	3	He	18454.994	22.3729	874951.08	0.0012	0.02618
Al	27	3	He	5347.31	2.0218	80263.30	0.0004	0.005329
Al	27	3	He	5540.007	2.0945	81258.98	0.0004	0.005329
Al	27	3	He	5551.715	2.0989	82082.63	0.0004	0.005329
K	39	3	He	15426.501	15.8484	629164.25	0.001	0.5307
K	39	3	He	15936.74	16.3551	634526.06	0.001	0.5307
K	39	3	He	15793.72	16.2131	634055.63	0.001	0.5307
Ca	44	3	He	116283.704	6.1256	243177.33	0.0001	0.004441
Ca	44	3	He	118966.902	6.2668	243132.20	0.0001	0.004441
Ca	44	3	He	118975.357	6.2672	245097.39	0.0001	0.004441
Ti	47	3	He	497.421	0.2039	8094.04	0.0004	0.0004559
Ti	47	3	He	506.614	0.2076	8056.01	0.0004	0.0004559
Ti	47	3	He	524.849	0.2151	8412.20	0.0004	0.0004559
V	51	3	He	489.421	8.6342	342769.38	0.0176	0.02609
V	51	3	He	509.119	8.9807	348423.56	0.0176	0.02609
V	51	3	He	505.513	8.9173	348734.34	0.0176	0.02609
Cr	52	3	He	490.43	10.705	424977.73	0.0217	0.05061
Cr	52	3	He	503.944	10.9986	426712.30	0.0217	0.05061
Cr	52	3	He	500.628	10.9266	427313.82	0.0217	0.05061
Mn	55	3	He	912.162	8.3247	330478.91	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	942.237	8.5988	333605.34	0.0091	0.01071
Mn	55	3	He	933.195	8.5164	333055.13	0.0091	0.01071
Fe	57	3	He	6318.2	2.5315	100499.32	0.0004	0.008452
Fe	57	3	He	6627.928	2.6552	103014.65	0.0004	0.008452
Fe	57	3	He	6484.292	2.5979	101596.73	0.0004	0.008452
Co	59	3	He	476.696	19.6881	781595.38	0.0413	0.006013
Co	59	3	He	496.467	20.5044	795507.94	0.0413	0.006013
Co	59	3	He	492.032	20.3213	794720.44	0.0413	0.006013
Ni	60	3	He	490.198	5.7692	229028.48	0.0117	0.01172
Ni	60	3	He	504.319	5.935	230259.63	0.0117	0.01172
Ni	60	3	He	505.724	5.9515	232749.78	0.0117	0.01172
Cu	63	3	He	478.087	9.3668	633029.69	0.0196	0.01443
Cu	63	3	He	495.828	9.7139	643320.00	0.0196	0.01443
Cu	63	3	He	484.262	9.4876	635570.88	0.0196	0.01443
Zn	66	3	He	483.774	1.1023	74495.84	0.0023	0.002807
Zn	66	3	He	495.916	1.1299	74829.53	0.0023	0.002807
Zn	66	3	He	495.284	1.1285	75594.97	0.0023	0.002807
As	75	3	He	479.914	0.8847	59788.32	0.0018	0.001271
As	75	3	He	495.348	0.9131	60470.88	0.0018	0.001271
As	75	3	He	493.867	0.9104	60984.55	0.0018	0.001271
Sr	88	3	He	437.956	3.5995	187939.22	0.0082	0.00114
Sr	88	3	He	455.265	3.7417	193727.61	0.0082	0.00114
Sr	88	3	He	446.308	3.6681	192929.78	0.0082	0.00114
Mo	98	3	He	51.888	0.9205	48064.17	0.0177	0.001504
Mo	98	3	He	52.174	0.9256	47923.70	0.0177	0.001504
Mo	98	3	He	51.885	0.9205	48414.88	0.0177	0.001504
Ag	107	3	He	48.839	1.7973	93840.14	0.0368	0.001325
Ag	107	3	He	49.136	1.8082	93618.82	0.0368	0.001325
Ag	107	3	He	49.585	1.8247	95973.40	0.0368	0.001325
Cd	111	3	He	49.446	0.2029	10593.62	0.0041	4.798E-05
Cd	111	3	He	49.808	0.2044	10581.60	0.0041	4.798E-05
Cd	111	3	He	50.06	0.2054	10803.78	0.0041	4.798E-05
Sn	120	3	He	98.486	1.2506	65297.87	0.0126	0.01097
Sn	120	3	He	100.697	1.2784	66191.59	0.0126	0.01097
Sn	120	3	He	97.139	1.2337	64885.82	0.0126	0.01097
Sb	121	3	He	100.1	1.2062	62976.98	0.012	0.0003595
Sb	121	3	He	101.08	1.218	63060.79	0.012	0.0003595
Sb	121	3	He	99.337	1.197	62956.69	0.012	0.0003595
Ba	137	3	He	601.868	2.3486	122627.40	0.0039	0.0003633
Ba	137	3	He	605.904	2.3644	122415.47	0.0039	0.0003633
Ba	137	3	He	609.167	2.3771	125026.53	0.0039	0.0003633
Tl	205	3	He	97.897	1.8555	342717.81	0.0189	0.001334
Tl	205	3	He	96.796	1.8346	349735.46	0.0189	0.001334
Tl	205	3	He	98.036	1.8581	351934.96	0.0189	0.001334
Pb	208	3	He	61.281	1.5432	153571.28	0.0252	0.001497
Pb	208	3	He	59.823	1.5065	154156.95	0.0252	0.001497
Pb	208	3	He	60.766	1.5302	154833.55	0.0252	0.001497
U	238	3	He	52.246	1.2827	236918.06	0.0245	0.0001141
U	238	3	He	51.497	1.2643	241011.29	0.0245	0.0001141
U	238	3	He	51.535	1.2652	239638.69	0.0245	0.0001141
Sc	45	1	No Gas			1648460.60		
Sc	45	1	No Gas			1629736.38		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1617113.10		
Ge	72	1	No Gas			827906.39		
Ge	72	1	No Gas			823960.38		
Ge	72	1	No Gas			829989.52		
Sc	45	2	H2			131261.94		
Sc	45	2	H2			131937.41		
Sc	45	2	H2			132018.09		
Ge	72	2	H2			98168.22		
Ge	72	2	H2			96780.09		
Ge	72	2	H2			99174.44		
In	115	2	H2			244383.10		
In	115	2	H2			241275.93		
In	115	2	H2			244286.68		
Sc	45	3	He			39698.81		
Sc	45	3	He			38796.87		
Sc	45	3	He			39107.68		
Ge	72	3	He			67582.29		
Ge	72	3	He			66227.02		
Ge	72	3	He			66989.59		
In	115	3	He			52669.94		
In	115	3	He			52238.78		
In	115	3	He			53050.80		
Tb	159	3	He			184705.99		
Tb	159	3	He			190629.84		
Tb	159	3	He			189404.92		
Bi	209	3	He			140571.58		
Bi	209	3	He			137583.94		
Bi	209	3	He			139673.06		

Quantitation Report

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Sample Type	Sample
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Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
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Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

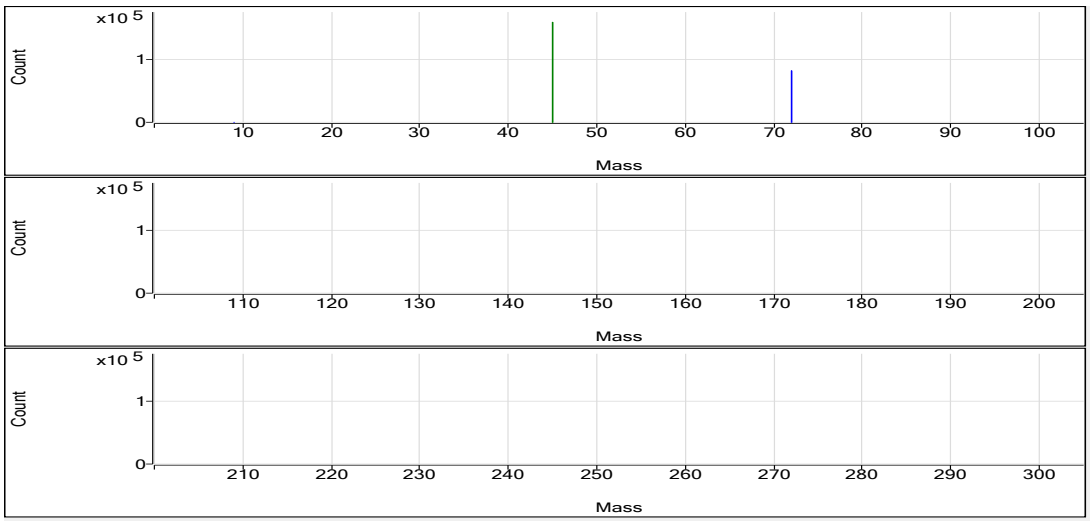
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.057	ppb	22.1	72.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.359	ppb	39.2	20.22	0.0002	Pulse	1.5000	3
Na	23	45	He	81430.027	ppb	2.4	7846247.80	203.7328	Analog	0.1000	3
Mg	24	45	He	13304.735	ppb	2.5	621409.09	16.1366	Pulse	0.1000	3
Al	27	45	He	97.645	ppb	9.1	1623.47	0.0422	Pulse	0.1000	3
K	39	45	He	11730.074	ppb	3.4	468891.35	12.1781	Pulse	0.5000	3
Ca	44	45	He	50181.246	ppb	2.6	101892.73	2.6460	Pulse	0.5000	3
Ti	47	45	He	2.274	ppb	20.6	53.33	0.0014	Pulse	0.5000	3
V	51	45	He	0.426	ppb	14.0	1293.39	0.0336	Pulse	0.5000	3
Cr	52	45	He	0.134	ppb	126.1	2060.20	0.0535	Pulse	0.1000	3
Mn	55	45	He	116.904	ppb	2.9	41442.30	1.0762	Pulse	0.5000	3
Fe	57	45	He	1632.244	ppb	1.2	25433.86	0.6603	Pulse	0.1000	3
Co	59	45	He	0.441	ppb	17.4	931.37	0.0242	Pulse	0.5000	3
Ni	60	45	He	1.537	ppb	12.3	1147.38	0.0298	Pulse	0.5000	3
Cu	63	72	He	98.789	ppb	1.6	130923.49	1.9469	Pulse	0.5000	3
Zn	66	72	He	89.126	ppb	1.8	13809.92	0.2054	Pulse	0.5000	3
As	75	72	He	3.601	ppb	2.2	531.34	0.0079	Pulse	0.5000	3
Sr	88	115	He	213.327	ppb	1.5	92052.63	1.7539	Pulse	0.1000	3
Mo	98	115	He	1.611	ppb	3.4	1576.80	0.0300	Pulse	0.1000	3
Ag	107	115	He	0.071	ppb	68.1	206.67	0.0039	Pulse	0.1000	3
Cd	111	115	He	0.140	ppb	43.4	32.67	0.0006	Pulse	0.5000	3
Sn	120	115	He	1.270	ppb	19.8	1413.44	0.0269	Pulse	0.1000	3
Sb	121	115	He	0.984	ppb	12.1	641.13	0.0122	Pulse	0.3000	3
Ba	137	115	He	99.950	ppb	2.0	20487.55	0.3903	Pulse	0.1000	3
Tl	205	159	He	0.223	ppb	11.6	1060.08	0.0056	Pulse	0.1000	3
Pb	208	159	He	0.991	ppb	3.7	5040.53	0.0264	Pulse	0.1000	3
U	238	159	He	0.116	ppb	6.0	563.36	0.0030	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1603901.07	2.3	93.9	Analog	0.1000	3
No Gas	Ge	72	826559.34	0.2	95.7	Pulse	0.1000	3
H2	Sc	45	130744.62	0.1	97.9	Pulse	0.1000	3
H2	Ge	72	99976.89	0.6	100.9	Pulse	0.1000	3
H2	In	115	242260.75	0.6	94.4	Pulse	0.1000	3
He	Sc	45	38529.23	3.1	97.6	Pulse	0.1000	3
He	Ge	72	67254.39	1.3	98.7	Pulse	0.1000	3
He	In	115	52489.44	1.1	94.7	Pulse	0.1000	3
He	Tb	159	190866.02	1.5	93.2	Pulse	0.1000	3
He	Bi	209	145562.76	0.9	96.2	Pulse	0.1000	3

No Gas



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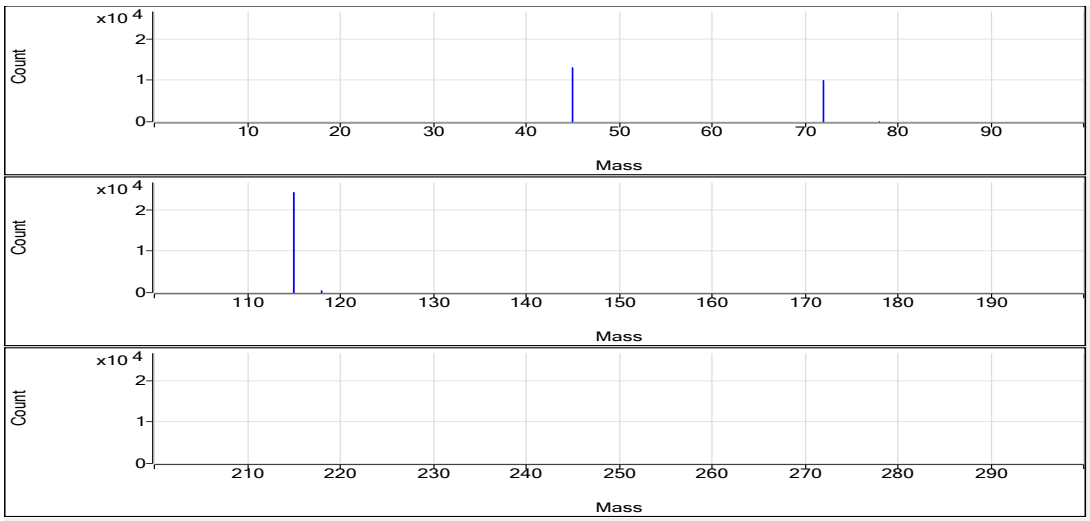
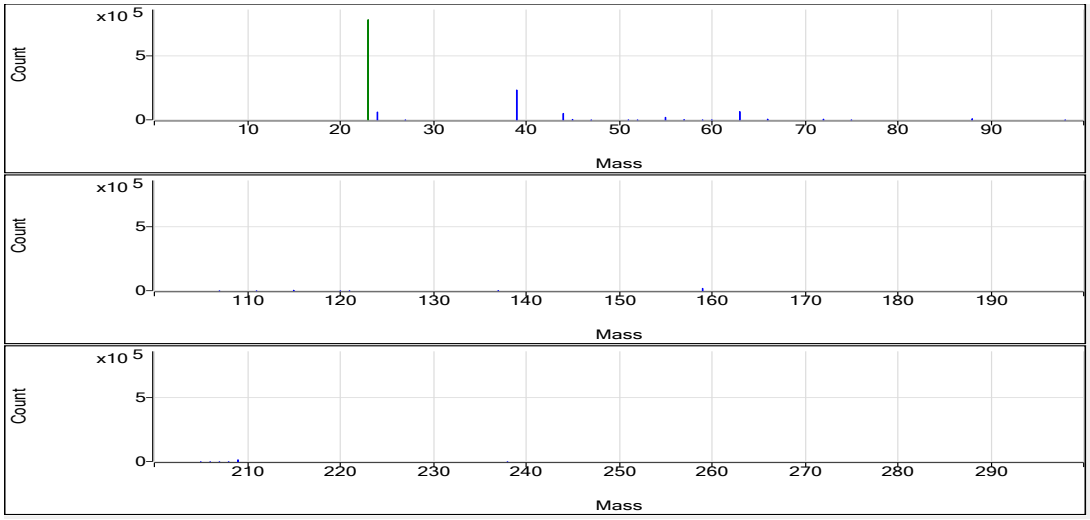


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.051	0	68.00	0.0003	2.616E-05
Be	9	1	No Gas	0.071	0.0001	80.00	0.0003	2.616E-05
Be	9	1	No Gas	0.049	0	70.00	0.0003	2.616E-05
Se	78	2	H2	0.27	0.0002	16.67	0.0004	6.3E-05
Se	78	2	H2	0.521	0.0003	26.67	0.0004	6.3E-05
Se	78	2	H2	0.285	0.0002	17.33	0.0004	6.3E-05
Na	23	3	He	83291.234	208.3722	7739474.26	0.0025	0.7502
Na	23	3	He	79445.735	198.7865	7819842.38	0.0025	0.7502
Na	23	3	He	81553.111	204.0396	7979426.76	0.0025	0.7502
Mg	24	3	He	13676.837	16.5871	616087.80	0.0012	0.02618
Mg	24	3	He	13038.994	15.8148	622119.95	0.0012	0.02618
Mg	24	3	He	13198.373	16.0078	626019.52	0.0012	0.02618
Al	27	3	He	100.823	0.0434	1610.13	0.0004	0.005329
Al	27	3	He	104.522	0.0447	1760.16	0.0004	0.005329
Al	27	3	He	87.589	0.0384	1500.12	0.0004	0.005329
K	39	3	He	12185.738	12.6305	469129.50	0.001	0.5307
K	39	3	He	11418.041	11.8682	466871.28	0.001	0.5307
K	39	3	He	11586.445	12.0354	470673.28	0.001	0.5307
Ca	44	3	He	51620.3	2.7217	101091.14	0.0001	0.004441
Ca	44	3	He	49109.831	2.5896	101867.77	0.0001	0.004441
Ca	44	3	He	49813.606	2.6266	102719.27	0.0001	0.004441
Ti	47	3	He	2.44	0.0015	54.00	0.0004	0.0004559
Ti	47	3	He	1.745	0.0012	46.00	0.0004	0.0004559
Ti	47	3	He	2.637	0.0015	60.00	0.0004	0.0004559
V	51	3	He	0.482	0.0346	1284.06	0.0176	0.02609
V	51	3	He	0.364	0.0325	1278.06	0.0176	0.02609
V	51	3	He	0.433	0.0337	1318.06	0.0176	0.02609
Cr	52	3	He	0.261	0.0563	2090.19	0.0217	0.05061
Cr	52	3	He	0.198	0.0549	2160.24	0.0217	0.05061
Cr	52	3	He	-0.058	0.0494	1930.17	0.0217	0.05061
Mn	55	3	He	120.572	1.1097	41215.75	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	113.766	1.0476	41211.71	0.0091	0.01071
Mn	55	3	He	116.373	1.0714	41899.43	0.0091	0.01071
Fe	57	3	He	1653.512	0.6688	24839.50	0.0004	0.008452
Fe	57	3	He	1625.735	0.6577	25871.32	0.0004	0.008452
Fe	57	3	He	1617.484	0.6544	25590.77	0.0004	0.008452
Co	59	3	He	0.529	0.0278	1034.04	0.0413	0.006013
Co	59	3	He	0.384	0.0219	860.03	0.0413	0.006013
Co	59	3	He	0.412	0.023	900.03	0.0413	0.006013
Ni	60	3	He	1.446	0.0287	1066.04	0.0117	0.01172
Ni	60	3	He	1.409	0.0283	1112.05	0.0117	0.01172
Ni	60	3	He	1.755	0.0323	1264.06	0.0117	0.01172
Cu	63	3	He	100.43	1.9791	131444.31	0.0196	0.01443
Cu	63	3	He	98.636	1.944	130714.32	0.0196	0.01443
Cu	63	3	He	97.3	1.9178	130611.84	0.0196	0.01443
Zn	66	3	He	90.477	0.2084	13843.95	0.0023	0.002807
Zn	66	3	He	89.55	0.2063	13873.98	0.0023	0.002807
Zn	66	3	He	87.352	0.2013	13711.83	0.0023	0.002807
As	75	3	He	3.645	0.008	530.01	0.0018	0.001271
As	75	3	He	3.511	0.0077	520.01	0.0018	0.001271
As	75	3	He	3.649	0.008	544.01	0.0018	0.001271
Sr	88	3	He	215.07	1.7682	91674.08	0.0082	0.00114
Sr	88	3	He	215.377	1.7707	93192.41	0.0082	0.00114
Sr	88	3	He	209.534	1.7227	91291.41	0.0082	0.00114
Mo	98	3	He	1.581	0.0295	1530.14	0.0177	0.001504
Mo	98	3	He	1.675	0.0312	1640.14	0.0177	0.001504
Mo	98	3	He	1.577	0.0294	1560.12	0.0177	0.001504
Ag	107	3	He	0.022	0.0021	110.00	0.0368	0.001325
Ag	107	3	He	0.072	0.004	210.01	0.0368	0.001325
Ag	107	3	He	0.118	0.0057	300.01	0.0368	0.001325
Cd	111	3	He	0.186	0.0008	42.00	0.0041	4.798E-05
Cd	111	3	He	0.164	0.0007	38.00	0.0041	4.798E-05
Cd	111	3	He	0.071	0.0003	18.00	0.0041	4.798E-05
Sn	120	3	He	1.474	0.0295	1530.12	0.0126	0.01097
Sn	120	3	He	1.348	0.0279	1470.12	0.0126	0.01097
Sn	120	3	He	0.988	0.0234	1240.09	0.0126	0.01097
Sb	121	3	He	1.038	0.0129	666.69	0.012	0.0003595
Sb	121	3	He	0.848	0.0106	556.68	0.012	0.0003595
Sb	121	3	He	1.067	0.0132	700.02	0.012	0.0003595
Ba	137	3	He	100.974	0.3943	20444.09	0.0039	0.0003633
Ba	137	3	He	97.616	0.3812	20063.62	0.0039	0.0003633
Ba	137	3	He	101.258	0.3954	20954.95	0.0039	0.0003633
Tl	205	3	He	0.233	0.0058	1110.09	0.0189	0.001334
Tl	205	3	He	0.242	0.0059	1110.09	0.0189	0.001334
Tl	205	3	He	0.194	0.005	960.06	0.0189	0.001334
Pb	208	3	He	0.952	0.0255	2690.33	0.0252	0.001497
Pb	208	3	He	1.025	0.0273	2500.34	0.0252	0.001497
Pb	208	3	He	0.994	0.0265	2940.40	0.0252	0.001497
U	238	3	He	0.114	0.0029	560.03	0.0245	0.0001141
U	238	3	He	0.123	0.0031	590.03	0.0245	0.0001141
U	238	3	He	0.11	0.0028	540.03	0.0245	0.0001141
Sc	45	1	No Gas			1573538.73		
Sc	45	1	No Gas			1593675.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1644488.73		
Ge	72	1	No Gas			826069.44		
Ge	72	1	No Gas			825039.83		
Ge	72	1	No Gas			828568.74		
Sc	45	2	H2			130656.42		
Sc	45	2	H2			130798.98		
Sc	45	2	H2			130778.46		
Ge	72	2	H2			99466.97		
Ge	72	2	H2			100685.40		
Ge	72	2	H2			99778.29		
In	115	2	H2			242593.63		
In	115	2	H2			240603.57		
In	115	2	H2			243585.04		
Sc	45	3	He			37142.54		
Sc	45	3	He			39337.90		
Sc	45	3	He			39107.25		
Ge	72	3	He			66417.71		
Ge	72	3	He			67241.23		
Ge	72	3	He			68104.23		
In	115	3	He			51856.75		
In	115	3	He			52639.96		
In	115	3	He			53001.29		
Tb	159	3	He			192926.46		
Tb	159	3	He			187643.94		
Tb	159	3	He			192027.65		
Bi	209	3	He			146458.98		
Bi	209	3	He			146083.93		
Bi	209	3	He			144145.38		

Quantitation Report

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Acq Time	7/10/2025 9:37:40 PM
Sample Name	410-230687-G-1-A
Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

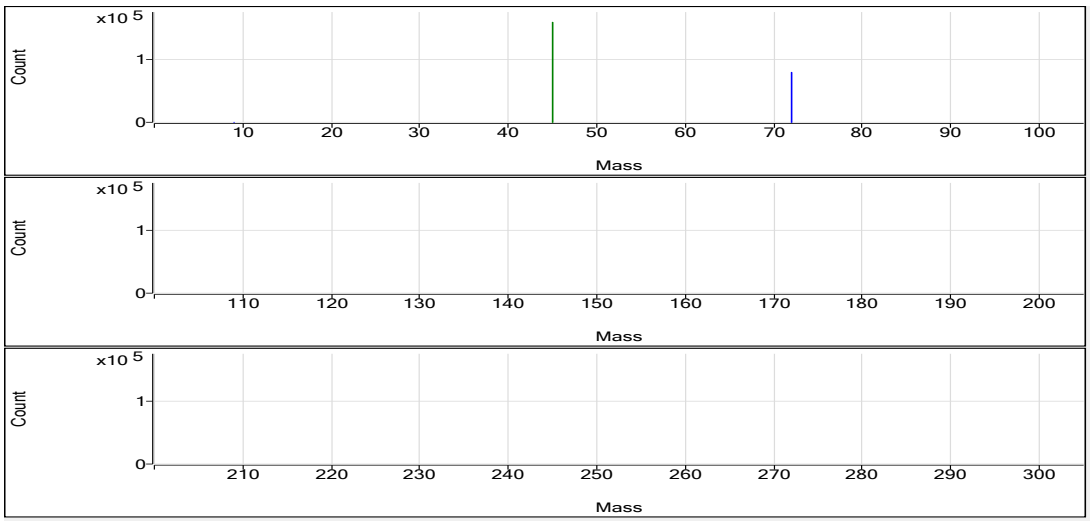
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.075	ppb	39.1	81.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.035	ppb	134.8	7.11	0.0001	Pulse	1.5000	3
Na	23	45	He	482816.593	ppb	1.2	45346662.66	1,204.2787	Analog	0.1000	3
Mg	24	45	He	1197.466	ppb	2.4	55573.23	1.4762	Pulse	0.1000	3
Al	27	45	He	1499.916	ppb	3.5	21491.07	0.5709	Pulse	0.1000	3
K	39	45	He	213124.038	ppb	1.7	7987593.83	212.1527	Analog	0.5000	3
Ca	44	45	He	4823.566	ppb	3.9	9723.58	0.2584	Pulse	0.5000	3
Ti	47	45	He	23.960	ppb	9.9	386.68	0.0103	Pulse	0.5000	3
V	51	45	He	6.402	ppb	3.5	5220.86	0.1387	Pulse	0.5000	3
Cr	52	45	He	75.141	ppb	3.5	63349.95	1.6830	Pulse	0.1000	3
Mn	55	45	He	72.846	ppb	1.5	25402.40	0.6747	Pulse	0.5000	3
Fe	57	45	He	5346.425	ppb	2.4	80693.48	2.1435	Pulse	0.1000	3
Co	59	45	He	2.487	ppb	2.4	4094.54	0.1087	Pulse	0.5000	3
Ni	60	45	He	43.037	ppb	5.1	19462.33	0.5172	Pulse	0.5000	3
Cu	63	72	He	30.388	ppb	0.7	38514.83	0.6089	Pulse	0.5000	3
Zn	66	72	He	1023.661	ppb	1.1	147334.80	2.3293	Pulse	0.5000	3
As	75	72	He	2.000	ppb	9.2	313.34	0.0050	Pulse	0.5000	3
Sr	88	115	He	22.689	ppb	1.6	9513.19	0.1876	Pulse	0.1000	3
Mo	98	115	He	4.043	ppb	5.3	3710.56	0.0731	Pulse	0.1000	3
Ag	107	115	He	0.014	ppb	251.9	93.34	0.0019	Pulse	0.1000	3
Cd	111	115	He	0.101	ppb	36.7	23.33	0.0005	Pulse	0.5000	3
Sn	120	115	He	0.153	ppb	45.8	653.37	0.0129	Pulse	0.1000	3
Sb	121	115	He	0.853	ppb	9.0	540.02	0.0106	Pulse	0.3000	3
Ba	137	115	He	6.375	ppb	0.5	1280.10	0.0252	Pulse	0.1000	3
Tl	205	159	He	0.051	ppb	63.5	423.35	0.0023	Pulse	0.1000	3
Pb	208	159	He	3.053	ppb	2.7	14413.28	0.0783	Pulse	0.1000	3
U	238	159	He	0.161	ppb	3.8	750.05	0.0041	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1586707.79	0.5	92.9	Analog	0.1000	3
No Gas	Ge	72	792999.00	1.3	91.8	Pulse	0.1000	3
H2	Sc	45	126461.47	1.1	94.6	Pulse	0.1000	3
H2	Ge	72	92743.10	1.2	93.6	Pulse	0.1000	3
H2	In	115	229632.92	1.3	89.5	Pulse	0.1000	3
He	Sc	45	37660.85	2.5	95.4	Pulse	0.1000	3
He	Ge	72	63258.29	1.4	92.9	Pulse	0.1000	3
He	In	115	50728.77	1.5	91.6	Pulse	0.1000	3
He	Tb	159	184096.71	0.2	89.9	Pulse	0.1000	3
He	Bi	209	135820.63	0.6	89.8	Pulse	0.1000	3

No Gas



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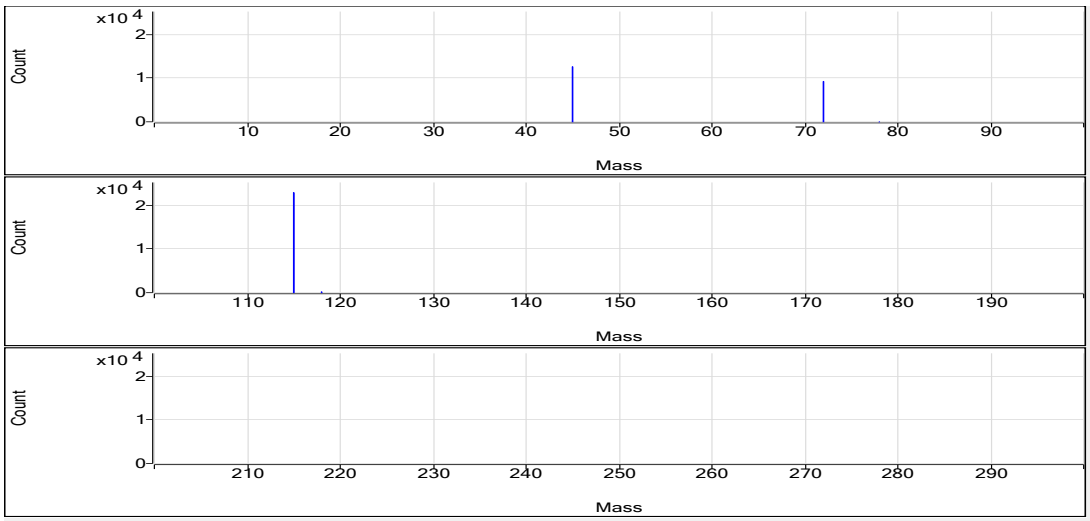
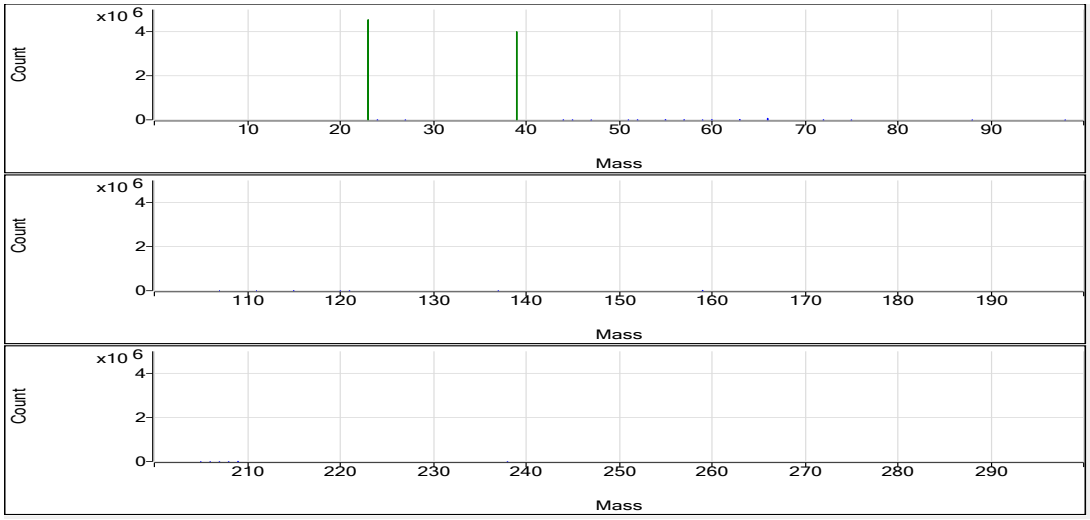


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.098	0.0001	94.00	0.0003	2.616E-05
Be	9	1	No Gas	0.084	0.0001	86.00	0.0003	2.616E-05
Be	9	1	No Gas	0.042	0	64.00	0.0003	2.616E-05
Se	78	2	H2	0.081	0.0001	8.67	0.0004	6.3E-05
Se	78	2	H2	0.039	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	-0.014	0.0001	5.33	0.0004	6.3E-05
Na	23	3	He	479169.126	1195.1865	44955854.33	0.0025	0.7502
Na	23	3	He	479664.103	1196.4204	46201424.31	0.0025	0.7502
Na	23	3	He	489616.551	1221.2291	44882709.33	0.0025	0.7502
Mg	24	3	He	1188.403	1.4652	55111.75	0.0012	0.02618
Mg	24	3	He	1174.589	1.4485	55934.38	0.0012	0.02618
Mg	24	3	He	1229.407	1.5148	55673.55	0.0012	0.02618
Al	27	3	He	1478.641	0.5629	21173.98	0.0004	0.005329
Al	27	3	He	1461.212	0.5564	21484.38	0.0004	0.005329
Al	27	3	He	1559.895	0.5936	21814.84	0.0004	0.005329
K	39	3	He	213944.101	212.9669	8010557.50	0.001	0.5307
K	39	3	He	209089.728	208.1468	8037875.00	0.001	0.5307
K	39	3	He	216338.285	215.3442	7914349.00	0.001	0.5307
Ca	44	3	He	4849.477	0.2597	9768.94	0.0001	0.004441
Ca	44	3	He	4623.955	0.2478	9570.82	0.0001	0.004441
Ca	44	3	He	4997.267	0.2675	9830.98	0.0001	0.004441
Ti	47	3	He	25.539	0.0109	410.01	0.0004	0.0004559
Ti	47	3	He	25.1	0.0107	414.01	0.0004	0.0004559
Ti	47	3	He	21.241	0.0091	336.01	0.0004	0.0004559
V	51	3	He	6.447	0.1395	5246.87	0.0176	0.02609
V	51	3	He	6.156	0.1344	5188.84	0.0176	0.02609
V	51	3	He	6.602	0.1422	5226.87	0.0176	0.02609
Cr	52	3	He	74.512	1.6694	62791.26	0.0217	0.05061
Cr	52	3	He	72.9	1.6343	63112.58	0.0217	0.05061
Cr	52	3	He	78.011	1.7454	64146.02	0.0217	0.05061
Mn	55	3	He	72.965	0.6758	25417.74	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	71.718	0.6644	25656.13	0.0091	0.01071
Mn	55	3	He	73.855	0.6839	25133.34	0.0091	0.01071
Fe	57	3	He	5354.775	2.1468	80750.43	0.0004	0.008452
Fe	57	3	He	5214.578	2.0908	80740.20	0.0004	0.008452
Fe	57	3	He	5469.922	2.1928	80589.81	0.0004	0.008452
Co	59	3	He	2.424	0.1061	3990.52	0.0413	0.006013
Co	59	3	He	2.543	0.111	4286.58	0.0413	0.006013
Co	59	3	He	2.495	0.109	4006.52	0.0413	0.006013
Ni	60	3	He	42.674	0.5129	19293.45	0.0117	0.01172
Ni	60	3	He	41.064	0.494	19077.20	0.0117	0.01172
Ni	60	3	He	45.373	0.5446	20016.34	0.0117	0.01172
Cu	63	3	He	30.63	0.6136	38210.84	0.0196	0.01443
Cu	63	3	He	30.332	0.6078	38683.87	0.0196	0.01443
Cu	63	3	He	30.202	0.6053	38649.79	0.0196	0.01443
Zn	66	3	He	1035.869	2.3571	146777.28	0.0023	0.002807
Zn	66	3	He	1019.655	2.3202	147673.11	0.0023	0.002807
Zn	66	3	He	1015.46	2.3107	147554.02	0.0023	0.002807
As	75	3	He	1.979	0.0049	306.00	0.0018	0.001271
As	75	3	He	2.195	0.0053	338.01	0.0018	0.001271
As	75	3	He	1.828	0.0046	296.01	0.0018	0.001271
Sr	88	3	He	22.27	0.1841	9493.19	0.0082	0.00114
Sr	88	3	He	22.895	0.1892	9473.12	0.0082	0.00114
Sr	88	3	He	22.903	0.1893	9573.27	0.0082	0.00114
Mo	98	3	He	4.142	0.0749	3860.58	0.0177	0.001504
Mo	98	3	He	3.796	0.0687	3440.50	0.0177	0.001504
Mo	98	3	He	4.192	0.0758	3830.61	0.0177	0.001504
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	0.024	0.0022	110.00	0.0368	0.001325
Ag	107	3	He	0.045	0.003	150.01	0.0368	0.001325
Cd	111	3	He	0.073	0.0003	18.00	0.0041	4.798E-05
Cd	111	3	He	0.086	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.143	0.0006	32.00	0.0041	4.798E-05
Sn	120	3	He	0.084	0.012	620.04	0.0126	0.01097
Sn	120	3	He	0.224	0.0138	690.04	0.0126	0.01097
Sn	120	3	He	0.15	0.0129	650.04	0.0126	0.01097
Sb	121	3	He	0.942	0.0117	603.35	0.012	0.0003595
Sb	121	3	He	0.805	0.0101	503.35	0.012	0.0003595
Sb	121	3	He	0.813	0.0102	513.35	0.012	0.0003595
Ba	137	3	He	6.369	0.0252	1300.10	0.0039	0.0003633
Ba	137	3	He	6.41	0.0254	1270.09	0.0039	0.0003633
Ba	137	3	He	6.344	0.0251	1270.10	0.0039	0.0003633
Tl	205	3	He	0.079	0.0028	520.03	0.0189	0.001334
Tl	205	3	He	0.016	0.0016	300.01	0.0189	0.001334
Tl	205	3	He	0.058	0.0024	450.02	0.0189	0.001334
Pb	208	3	He	3.04	0.078	7462.12	0.0252	0.001497
Pb	208	3	He	2.979	0.0764	7342.06	0.0252	0.001497
Pb	208	3	He	3.139	0.0805	7992.49	0.0252	0.001497
U	238	3	He	0.166	0.0042	770.06	0.0245	0.0001141
U	238	3	He	0.163	0.0041	760.05	0.0245	0.0001141
U	238	3	He	0.154	0.0039	720.04	0.0245	0.0001141
Sc	45	1	No Gas			1591918.57		
Sc	45	1	No Gas			1576903.41		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1591301.38		
Ge	72	1	No Gas			782356.16		
Ge	72	1	No Gas			793400.30		
Ge	72	1	No Gas			803240.53		
Sc	45	2	H2			125649.08		
Sc	45	2	H2			125699.62		
Sc	45	2	H2			128035.72		
Ge	72	2	H2			91740.47		
Ge	72	2	H2			94003.58		
Ge	72	2	H2			92485.26		
In	115	2	H2			226624.59		
In	115	2	H2			232686.34		
In	115	2	H2			229587.83		
Sc	45	3	He			37614.09		
Sc	45	3	He			38616.38		
Sc	45	3	He			36752.08		
Ge	72	3	He			62271.21		
Ge	72	3	He			63646.31		
Ge	72	3	He			63857.36		
In	115	3	He			51566.01		
In	115	3	He			50061.11		
In	115	3	He			50572.91		
Tb	159	3	He			183696.46		
Tb	159	3	He			184130.60		
Tb	159	3	He			184463.08		
Bi	209	3	He			134938.51		
Bi	209	3	He			136109.82		
Bi	209	3	He			136413.57		

Quantitation Report

Data File Name	317SMPL.d
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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

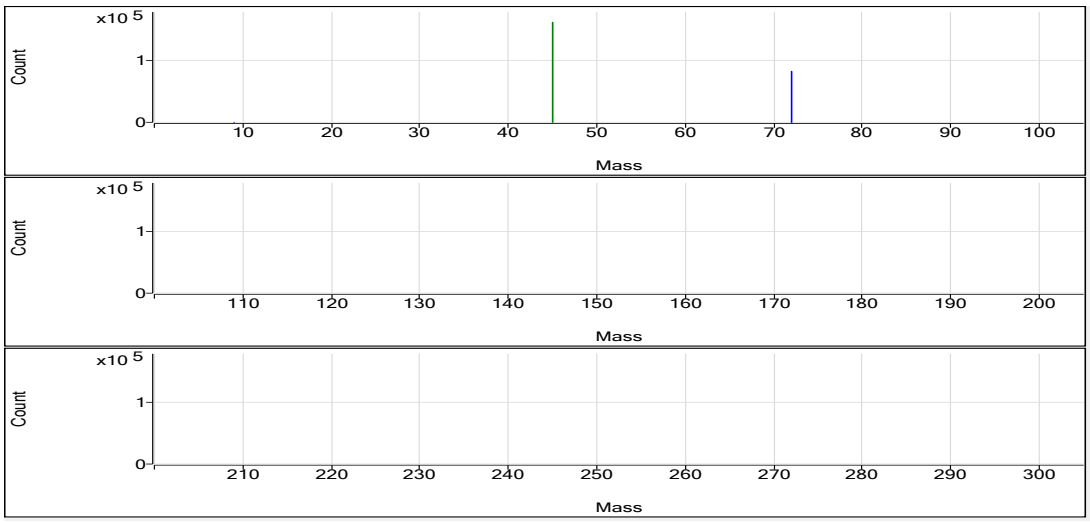
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.012	ppb	N/A	36.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.071	ppb	N/A	3.56	0.0000	Pulse	1.5000	3
Na	23	45	He	31752.824	ppb	0.4	3093175.89	79.9012	Analog	0.1000	3
Mg	24	45	He	8265.607	ppb	1.4	388444.54	10.0348	Pulse	0.1000	3
Al	27	45	He	84.735	ppb	1.6	1443.45	0.0373	Pulse	0.1000	3
K	39	45	He	3724.723	ppb	2.6	163714.33	4.2291	Pulse	0.5000	3
Ca	44	45	He	18589.622	ppb	0.6	38055.11	0.9830	Pulse	0.5000	3
Ti	47	45	He	0.270	ppb	286.2	22.00	0.0006	Pulse	0.5000	3
V	51	45	He	0.354	ppb	21.8	1251.39	0.0323	Pulse	0.5000	3
Cr	52	45	He	-0.412	ppb	N/A	1613.46	0.0417	Pulse	0.1000	3
Mn	55	45	He	9.673	ppb	3.7	3827.14	0.0989	Pulse	0.5000	3
Fe	57	45	He	105.021	ppb	7.4	1950.18	0.0504	Pulse	0.1000	3
Co	59	45	He	0.039	ppb	11.9	294.67	0.0076	Pulse	0.5000	3
Ni	60	45	He	0.264	ppb	32.6	573.35	0.0148	Pulse	0.5000	3
Cu	63	72	He	19.389	ppb	1.5	26644.48	0.3937	Pulse	0.5000	3
Zn	66	72	He	95.971	ppb	1.1	14951.61	0.2209	Pulse	0.5000	3
As	75	72	He	1.385	ppb	7.7	258.67	0.0038	Pulse	0.5000	3
Sr	88	115	He	97.962	ppb	4.6	42333.80	0.8060	Pulse	0.1000	3
Mo	98	115	He	28.359	ppb	4.4	26462.82	0.5038	Pulse	0.1000	3
Ag	107	115	He	-0.019	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.007	ppb	265.9	4.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.278	ppb	34.8	760.04	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.139	ppb	13.4	106.67	0.0020	Pulse	0.3000	3
Ba	137	115	He	45.058	ppb	9.0	9246.43	0.1762	Pulse	0.1000	3
Tl	205	159	He	-0.014	ppb	N/A	203.34	0.0011	Pulse	0.1000	3
Pb	208	159	He	0.509	ppb	8.0	2726.87	0.0143	Pulse	0.1000	3
U	238	159	He	0.065	ppb	26.0	326.68	0.0017	Pulse	0.1000	3

ISTD Table:

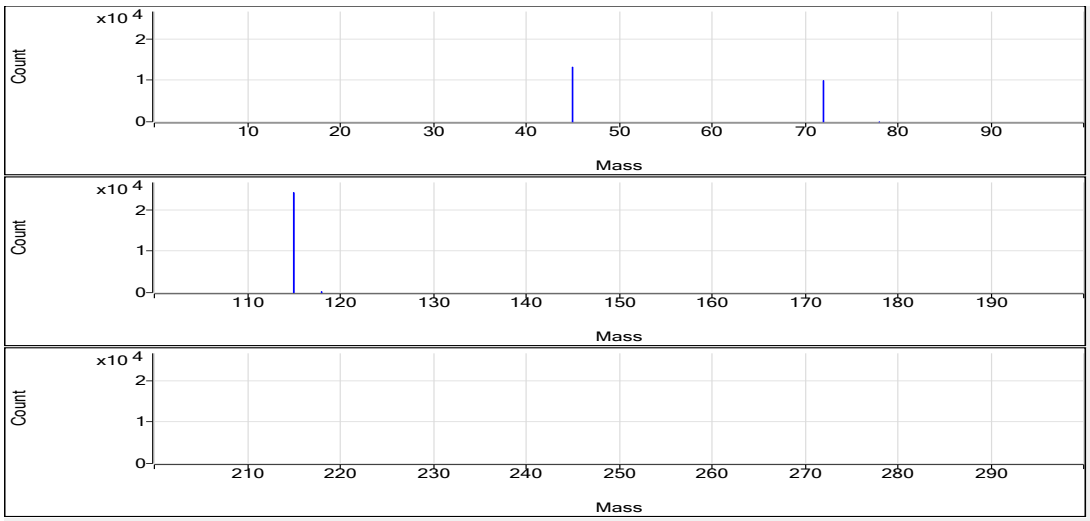
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1633654.97	0.6	95.6	Analog	0.1000	3
No Gas	Ge	72	834027.36	1.2	96.5	Pulse	0.1000	3
H2	Sc	45	132582.88	1.8	99.2	Pulse	0.1000	3
H2	Ge	72	99812.70	1.3	100.8	Pulse	0.1000	3
H2	In	115	242202.04	0.3	94.4	Pulse	0.1000	3
He	Sc	45	38713.03	0.9	98.1	Pulse	0.1000	3
He	Ge	72	67682.94	1.4	99.4	Pulse	0.1000	3
He	In	115	52554.24	2.1	94.9	Pulse	0.1000	3
He	Tb	159	190697.84	0.5	93.1	Pulse	0.1000	3
He	Bi	209	141958.51	1.3	93.8	Pulse	0.1000	3

No Gas

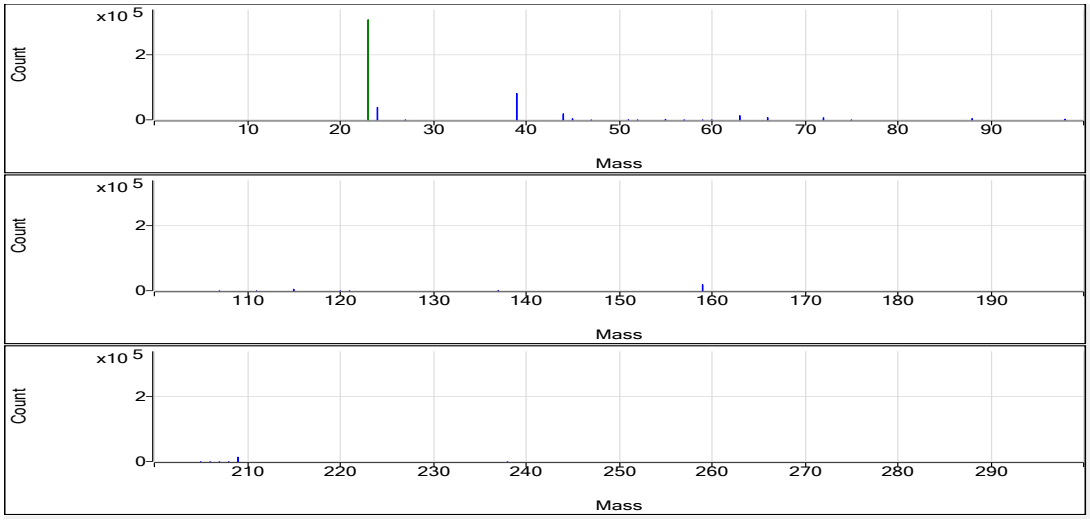


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.016	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.005	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.077	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.042	0	4.67	0.0004	6.3E-05
Na	23	3	He	31675.713	79.709	3076437.14	0.0025	0.7502
Na	23	3	He	31698.63	79.7661	3120244.02	0.0025	0.7502
Na	23	3	He	31884.129	80.2285	3082846.52	0.0025	0.7502
Mg	24	3	He	8306.116	10.0838	389194.84	0.0012	0.02618
Mg	24	3	He	8137.711	9.8799	386477.38	0.0012	0.02618
Mg	24	3	He	8352.995	10.1406	389661.40	0.0012	0.02618
Al	27	3	He	83.439	0.0368	1420.11	0.0004	0.005329
Al	27	3	He	86.206	0.0378	1480.12	0.0004	0.005329
Al	27	3	He	84.561	0.0372	1430.11	0.0004	0.005329
K	39	3	He	3837.416	4.341	167545.89	0.001	0.5307
K	39	3	He	3660.87	4.1657	162952.63	0.001	0.5307
K	39	3	He	3675.884	4.1806	160644.48	0.001	0.5307
Ca	44	3	He	18674.558	0.9875	38111.88	0.0001	0.004441
Ca	44	3	He	18619.122	0.9845	38512.74	0.0001	0.004441
Ca	44	3	He	18475.186	0.977	37540.70	0.0001	0.004441
Ti	47	3	He	0.026	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	1.136	0.0009	36.00	0.0004	0.0004559
Ti	47	3	He	-0.351	0.0003	12.00	0.0004	0.0004559
V	51	3	He	0.284	0.0311	1200.05	0.0176	0.02609
V	51	3	He	0.342	0.0321	1256.06	0.0176	0.02609
V	51	3	He	0.437	0.0338	1298.06	0.0176	0.02609
Cr	52	3	He	-0.588	0.0378	1460.11	0.0217	0.05061
Cr	52	3	He	-0.235	0.0455	1780.15	0.0217	0.05061
Cr	52	3	He	-0.413	0.0416	1600.13	0.0217	0.05061
Mn	55	3	He	9.998	0.1018	3930.49	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	9.282	0.0953	3728.45	0.0091	0.01071
Mn	55	3	He	9.739	0.0995	3822.48	0.0091	0.01071
Fe	57	3	He	111.854	0.0531	2050.21	0.0004	0.008452
Fe	57	3	He	96.634	0.047	1840.16	0.0004	0.008452
Fe	57	3	He	106.576	0.051	1960.18	0.0004	0.008452
Co	59	3	He	0.041	0.0077	298.01	0.0413	0.006013
Co	59	3	He	0.041	0.0077	302.00	0.0413	0.006013
Co	59	3	He	0.033	0.0074	284.00	0.0413	0.006013
Ni	60	3	He	0.264	0.0148	572.01	0.0117	0.01172
Ni	60	3	He	0.178	0.0138	540.01	0.0117	0.01172
Ni	60	3	He	0.35	0.0158	608.02	0.0117	0.01172
Cu	63	3	He	19.051	0.3871	26627.79	0.0196	0.01443
Cu	63	3	He	19.519	0.3963	26597.73	0.0196	0.01443
Cu	63	3	He	19.597	0.3978	26707.91	0.0196	0.01443
Zn	66	3	He	95.026	0.2188	15049.01	0.0023	0.002807
Zn	66	3	He	95.724	0.2204	14790.81	0.0023	0.002807
Zn	66	3	He	97.163	0.2236	15015.00	0.0023	0.002807
As	75	3	He	1.41	0.0039	266.00	0.0018	0.001271
As	75	3	He	1.268	0.0036	242.00	0.0018	0.001271
As	75	3	He	1.478	0.004	268.00	0.0018	0.001271
Sr	88	3	He	95.261	0.7838	41956.08	0.0082	0.00114
Sr	88	3	He	103.128	0.8485	43560.19	0.0082	0.00114
Sr	88	3	He	95.498	0.7858	41485.14	0.0082	0.00114
Mo	98	3	He	27.859	0.4949	26492.69	0.0177	0.001504
Mo	98	3	He	29.765	0.5287	27143.95	0.0177	0.001504
Mo	98	3	He	27.454	0.4878	25751.83	0.0177	0.001504
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.025	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	0.346	0.0153	820.05	0.0126	0.01097
Sn	120	3	He	0.32	0.015	770.04	0.0126	0.01097
Sn	120	3	He	0.167	0.0131	690.04	0.0126	0.01097
Sb	121	3	He	0.136	0.002	106.67	0.012	0.0003595
Sb	121	3	He	0.159	0.0023	116.67	0.012	0.0003595
Sb	121	3	He	0.122	0.0018	96.67	0.012	0.0003595
Ba	137	3	He	42.153	0.1648	8822.79	0.0039	0.0003633
Ba	137	3	He	49.698	0.1943	9973.61	0.0039	0.0003633
Ba	137	3	He	43.322	0.1694	8942.90	0.0039	0.0003633
Tl	205	3	He	-0.007	0.0012	230.01	0.0189	0.001334
Tl	205	3	He	-0.029	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.006	0.0012	230.01	0.0189	0.001334
Pb	208	3	He	0.463	0.0131	1280.11	0.0252	0.001497
Pb	208	3	He	0.54	0.0151	1600.14	0.0252	0.001497
Pb	208	3	He	0.523	0.0147	1600.15	0.0252	0.001497
U	238	3	He	0.083	0.0021	410.03	0.0245	0.0001141
U	238	3	He	0.063	0.0017	320.01	0.0245	0.0001141
U	238	3	He	0.049	0.0013	250.01	0.0245	0.0001141
Sc	45	1	No Gas			1633114.66		
Sc	45	1	No Gas			1623769.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1644081.07		
Ge	72	1	No Gas			834473.58		
Ge	72	1	No Gas			823924.44		
Ge	72	1	No Gas			843684.05		
Sc	45	2	H2			135304.18		
Sc	45	2	H2			130586.94		
Sc	45	2	H2			131857.51		
Ge	72	2	H2			98511.44		
Ge	72	2	H2			101066.45		
Ge	72	2	H2			99860.20		
In	115	2	H2			242590.93		
In	115	2	H2			242551.95		
In	115	2	H2			241463.24		
Sc	45	3	He			38595.86		
Sc	45	3	He			39117.41		
Sc	45	3	He			38425.82		
Ge	72	3	He			68787.45		
Ge	72	3	He			67120.48		
Ge	72	3	He			67140.88		
In	115	3	He			53532.92		
In	115	3	He			51345.63		
In	115	3	He			52800.14		
Tb	159	3	He			190972.81		
Tb	159	3	He			191492.81		
Tb	159	3	He			189627.91		
Bi	209	3	He			143984.79		
Bi	209	3	He			141691.85		
Bi	209	3	He			140198.88		

Quantitation Report

Data File Name	318SMPL.d
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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

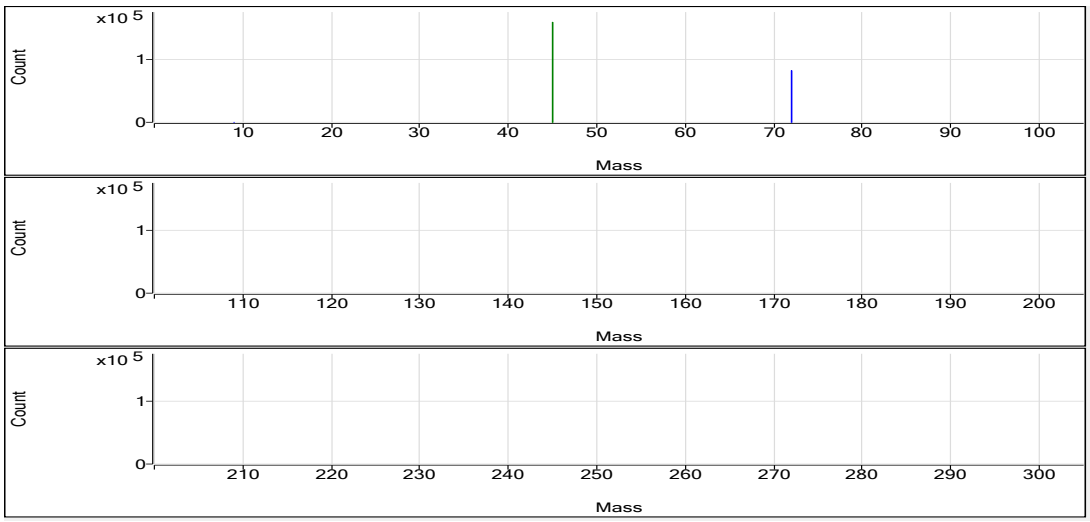
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.029	ppb	N/A	26.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.081	ppb	N/A	3.11	0.0000	Pulse	1.5000	3
Na	23	45	He	3057.751	ppb	1.7	324260.21	8.3723	Pulse	0.1000	3
Mg	24	45	He	795.602	ppb	3.1	38327.90	0.9896	Pulse	0.1000	3
Al	27	45	He	6.867	ppb	67.0	306.68	0.0079	Pulse	0.1000	3
K	39	45	He	383.043	ppb	21.6	35272.39	0.9110	Pulse	0.5000	3
Ca	44	45	He	1788.204	ppb	0.9	3817.80	0.0986	Pulse	0.5000	3
Ti	47	45	He	-0.362	ppb	N/A	12.00	0.0003	Pulse	0.5000	3
V	51	45	He	-0.094	ppb	N/A	947.37	0.0244	Pulse	0.5000	3
Cr	52	45	He	-0.353	ppb	N/A	1663.47	0.0429	Pulse	0.1000	3
Mn	55	45	He	0.734	ppb	6.7	674.02	0.0174	Pulse	0.5000	3
Fe	57	45	He	3.199	ppb	237.0	376.70	0.0097	Pulse	0.1000	3
Co	59	45	He	-0.044	ppb	N/A	162.67	0.0042	Pulse	0.5000	3
Ni	60	45	He	-0.145	ppb	N/A	388.01	0.0100	Pulse	0.5000	3
Cu	63	72	He	1.641	ppb	2.9	3020.30	0.0465	Pulse	0.5000	3
Zn	66	72	He	10.192	ppb	1.5	1685.43	0.0260	Pulse	0.5000	3
As	75	72	He	0.889	ppb	8.7	188.67	0.0029	Pulse	0.5000	3
Sr	88	115	He	9.826	ppb	4.8	4214.03	0.0819	Pulse	0.1000	3
Mo	98	115	He	2.997	ppb	1.9	2810.33	0.0546	Pulse	0.1000	3
Ag	107	115	He	-0.009	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.088	ppb	N/A	506.69	0.0099	Pulse	0.1000	3
Sb	121	115	He	0.035	ppb	43.5	40.00	0.0008	Pulse	0.3000	3
Ba	137	115	He	4.475	ppb	8.3	916.73	0.0178	Pulse	0.1000	3
Tl	205	159	He	-0.018	ppb	N/A	186.68	0.0010	Pulse	0.1000	3
Pb	208	159	He	0.032	ppb	25.5	430.02	0.0023	Pulse	0.1000	3
U	238	159	He	0.006	ppb	35.8	50.00	0.0003	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1595406.64	1.4	93.4	Analog	0.1000	3
No Gas	Ge	72	824819.31	0.2	95.5	Pulse	0.1000	3
H2	Sc	45	129669.48	0.9	97.0	Pulse	0.1000	3
H2	Ge	72	98158.35	1.0	99.1	Pulse	0.1000	3
H2	In	115	241047.26	0.4	93.9	Pulse	0.1000	3
He	Sc	45	38733.16	0.8	98.1	Pulse	0.1000	3
He	Ge	72	64904.80	1.6	95.3	Pulse	0.1000	3
He	In	115	51468.83	1.7	92.9	Pulse	0.1000	3
He	Tb	159	186421.55	1.3	91.0	Pulse	0.1000	3
He	Bi	209	138361.71	1.2	91.5	Pulse	0.1000	3

No Gas



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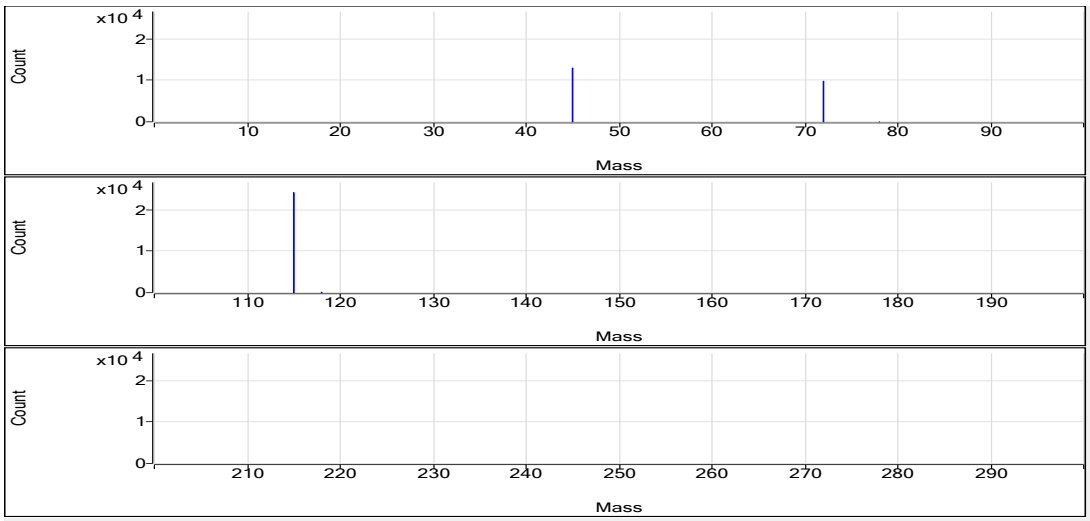
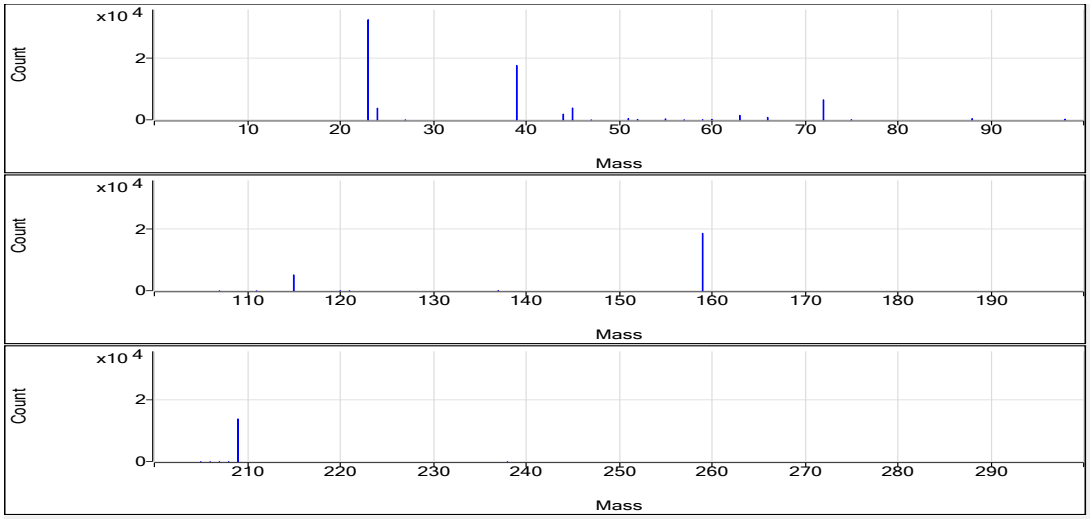


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.017	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.04	0	20.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Se	78	2	H2	-0.092	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.056	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Na	23	3	He	3102.255	8.4832	326742.12	0.0025	0.7502
Na	23	3	He	3068.232	8.3984	324062.75	0.0025	0.7502
Na	23	3	He	3002.765	8.2352	321975.76	0.0025	0.7502
Mg	24	3	He	820.533	1.0197	39276.63	0.0012	0.02618
Mg	24	3	He	770.959	0.9597	37031.71	0.0012	0.02618
Mg	24	3	He	795.315	0.9892	38675.37	0.0012	0.02618
Al	27	3	He	3.08	0.0065	250.01	0.0004	0.005329
Al	27	3	He	11.984	0.0098	380.02	0.0004	0.005329
Al	27	3	He	5.538	0.0074	290.01	0.0004	0.005329
K	39	3	He	474.835	1.0022	38598.98	0.001	0.5307
K	39	3	He	359.743	0.8879	34259.41	0.001	0.5307
K	39	3	He	314.549	0.843	32958.78	0.001	0.5307
Ca	44	3	He	1795.056	0.0989	3810.47	0.0001	0.004441
Ca	44	3	He	1799.523	0.0992	3826.46	0.0001	0.004441
Ca	44	3	He	1770.032	0.0976	3816.46	0.0001	0.004441
Ti	47	3	He	-0.988	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.734	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	0.636	0.0007	28.00	0.0004	0.0004559
V	51	3	He	-0.173	0.0231	888.03	0.0176	0.02609
V	51	3	He	-0.122	0.0239	924.03	0.0176	0.02609
V	51	3	He	0.014	0.0263	1030.04	0.0176	0.02609
Cr	52	3	He	-0.441	0.041	1580.11	0.0217	0.05061
Cr	52	3	He	-0.337	0.0433	1670.15	0.0217	0.05061
Cr	52	3	He	-0.281	0.0445	1740.15	0.0217	0.05061
Mn	55	3	He	0.791	0.0179	690.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.713	0.0172	664.02	0.0091	0.01071
Mn	55	3	He	0.7	0.0171	668.02	0.0091	0.01071
Fe	57	3	He	11.346	0.013	500.06	0.0004	0.008452
Fe	57	3	He	-3.643	0.007	270.01	0.0004	0.008452
Fe	57	3	He	1.893	0.0092	360.02	0.0004	0.008452
Co	59	3	He	-0.041	0.0043	166.00	0.0413	0.006013
Co	59	3	He	-0.041	0.0043	166.00	0.0413	0.006013
Co	59	3	He	-0.049	0.004	156.00	0.0413	0.006013
Ni	60	3	He	-0.215	0.0092	354.01	0.0117	0.01172
Ni	60	3	He	-0.102	0.0105	406.01	0.0117	0.01172
Ni	60	3	He	-0.118	0.0103	404.01	0.0117	0.01172
Cu	63	3	He	1.603	0.0458	3026.30	0.0196	0.01443
Cu	63	3	He	1.627	0.0463	2982.29	0.0196	0.01443
Cu	63	3	He	1.694	0.0476	3052.31	0.0196	0.01443
Zn	66	3	He	10.057	0.0257	1696.10	0.0023	0.002807
Zn	66	3	He	10.356	0.0263	1698.10	0.0023	0.002807
Zn	66	3	He	10.162	0.0259	1662.09	0.0023	0.002807
As	75	3	He	0.838	0.0028	186.00	0.0018	0.001271
As	75	3	He	0.978	0.0031	198.00	0.0018	0.001271
As	75	3	He	0.85	0.0028	182.00	0.0018	0.001271
Sr	88	3	He	9.925	0.0827	4340.73	0.0082	0.00114
Sr	88	3	He	10.239	0.0853	4340.72	0.0082	0.00114
Sr	88	3	He	9.313	0.0777	3960.63	0.0082	0.00114
Mo	98	3	He	3.056	0.0556	2920.35	0.0177	0.001504
Mo	98	3	He	2.943	0.0536	2730.33	0.0177	0.001504
Mo	98	3	He	2.993	0.0545	2780.30	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	0.017	0.002	100.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	-0.16	0.009	470.02	0.0126	0.01097
Sn	120	3	He	0.003	0.011	560.03	0.0126	0.01097
Sn	120	3	He	-0.108	0.0096	490.03	0.0126	0.01097
Sb	121	3	He	0.018	0.0006	30.00	0.012	0.0003595
Sb	121	3	He	0.041	0.0009	43.33	0.012	0.0003595
Sb	121	3	He	0.046	0.0009	46.67	0.012	0.0003595
Ba	137	3	He	4.155	0.0166	870.06	0.0039	0.0003633
Ba	137	3	He	4.388	0.0175	890.05	0.0039	0.0003633
Ba	137	3	He	4.883	0.0194	990.08	0.0039	0.0003633
Tl	205	3	He	-0.02	0.001	180.01	0.0189	0.001334
Tl	205	3	He	-0.014	0.0011	200.01	0.0189	0.001334
Tl	205	3	He	-0.019	0.001	180.01	0.0189	0.001334
Pb	208	3	He	0.041	0.0025	280.01	0.0252	0.001497
Pb	208	3	He	0.026	0.0022	220.01	0.0252	0.001497
Pb	208	3	He	0.029	0.0022	210.01	0.0252	0.001497
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.009	0.0003	60.00	0.0245	0.0001141
Sc	45	1	No Gas			1575670.29		
Sc	45	1	No Gas			1591169.98		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1619379.66		
Ge	72	1	No Gas			822707.33		
Ge	72	1	No Gas			826197.41		
Ge	72	1	No Gas			825553.19		
Sc	45	2	H2			130758.91		
Sc	45	2	H2			129759.29		
Sc	45	2	H2			128490.24		
Ge	72	2	H2			98258.40		
Ge	72	2	H2			97132.87		
Ge	72	2	H2			99083.79		
In	115	2	H2			242223.51		
In	115	2	H2			240429.49		
In	115	2	H2			240488.79		
Sc	45	3	He			38516.15		
Sc	45	3	He			38586.07		
Sc	45	3	He			39097.27		
Ge	72	3	He			66086.63		
Ge	72	3	He			64459.91		
Ge	72	3	He			64167.85		
In	115	3	He			52499.41		
In	115	3	He			50913.38		
In	115	3	He			51004.34		
Tb	159	3	He			189041.34		
Tb	159	3	He			185831.50		
Tb	159	3	He			184391.81		
Bi	209	3	He			140220.33		
Bi	209	3	He			138057.29		
Bi	209	3	He			136807.52		

Quantitation Report

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Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

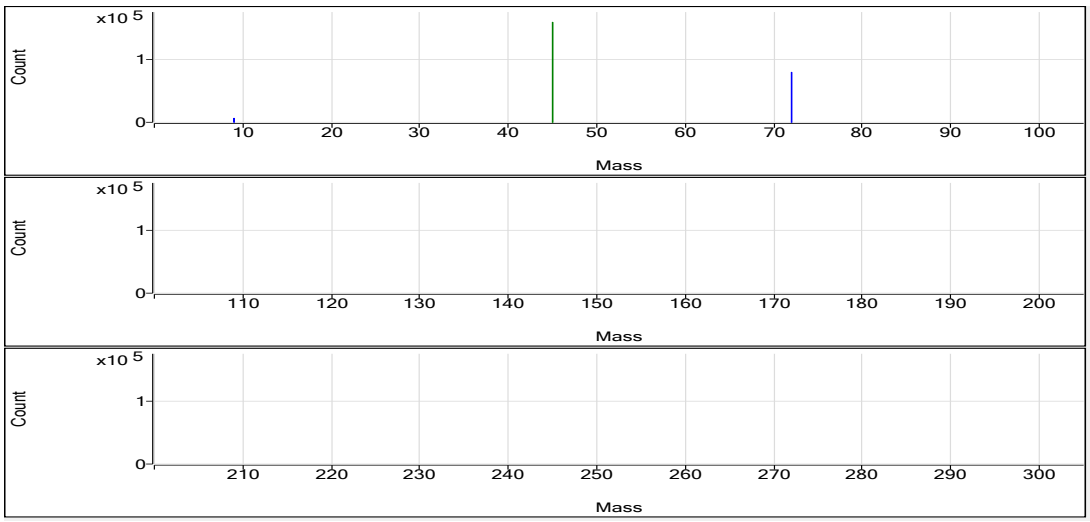
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.650	ppb	4.5	13336.63	0.0083	Pulse	0.5000	3
Se	78	72	H2	24.514	ppb	3.4	915.14	0.0096	Pulse	1.5000	3
Na	23	45	He	2508.125	ppb	0.7	265336.10	7.0022	Pulse	0.1000	3
Mg	24	45	He	2594.933	ppb	1.6	120049.82	3.1683	Pulse	0.1000	3
Al	27	45	He	2538.964	ppb	1.1	36483.94	0.9628	Pulse	0.1000	3
K	39	45	He	2601.325	ppb	2.1	117999.39	3.1137	Pulse	0.5000	3
Ca	44	45	He	2555.901	ppb	4.0	5265.54	0.1390	Pulse	0.5000	3
Ti	47	45	He	2562.903	ppb	1.2	39733.12	1.0486	Pulse	0.5000	3
V	51	45	He	257.086	ppb	1.3	172323.46	4.5478	Pulse	0.5000	3
Cr	52	45	He	259.008	ppb	1.3	215126.65	5.6775	Pulse	0.1000	3
Mn	55	45	He	257.249	ppb	0.7	89253.60	2.3554	Pulse	0.5000	3
Fe	57	45	He	2577.137	ppb	2.3	39325.00	1.0376	Pulse	0.1000	3
Co	59	45	He	254.853	ppb	0.7	398954.57	10.5285	Pulse	0.5000	3
Ni	60	45	He	257.155	ppb	1.1	114889.23	3.0320	Pulse	0.5000	3
Cu	63	72	He	253.363	ppb	0.9	317129.85	4.9707	Pulse	0.5000	3
Zn	66	72	He	251.501	ppb	2.4	36642.59	0.5744	Pulse	0.5000	3
As	75	72	He	249.027	ppb	1.4	29329.35	0.4597	Pulse	0.5000	3
Sr	88	115	He	24.583	ppb	5.4	10400.39	0.2031	Pulse	0.1000	3
Mo	98	115	He	25.684	ppb	2.1	23377.83	0.4564	Pulse	0.1000	3
Ag	107	115	He	25.206	ppb	1.1	47549.52	0.9282	Pulse	0.1000	3
Cd	111	115	He	25.541	ppb	3.7	5368.29	0.1048	Pulse	0.5000	3
Sn	120	115	He	25.385	ppb	2.5	16929.79	0.3305	Pulse	0.1000	3
Sb	121	115	He	25.504	ppb	2.5	15754.76	0.3076	Pulse	0.3000	3
Ba	137	115	He	248.324	ppb	1.4	49647.56	0.9692	Pulse	0.1000	3
Tl	205	159	He	24.934	ppb	1.1	89214.58	0.4736	Pulse	0.1000	3
Pb	208	159	He	24.836	ppb	1.2	117982.75	0.6263	Pulse	0.1000	3
U	238	159	He	25.541	ppb	1.4	118134.62	0.6271	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1602154.14	0.9	93.8	Analog	0.1000	3
No Gas	Ge	72	802166.00	0.2	92.9	Pulse	0.1000	3
H2	Sc	45	129867.48	1.1	97.2	Pulse	0.1000	3
H2	Ge	72	95646.78	1.0	96.6	Pulse	0.1000	3
H2	In	115	239149.88	0.6	93.2	Pulse	0.1000	3
He	Sc	45	37894.44	1.0	96.0	Pulse	0.1000	3
He	Ge	72	63803.63	1.1	93.7	Pulse	0.1000	3
He	In	115	51230.09	1.5	92.5	Pulse	0.1000	3
He	Tb	159	188385.18	0.3	92.0	Pulse	0.1000	3
He	Bi	209	140400.29	1.1	92.8	Pulse	0.1000	3

No Gas



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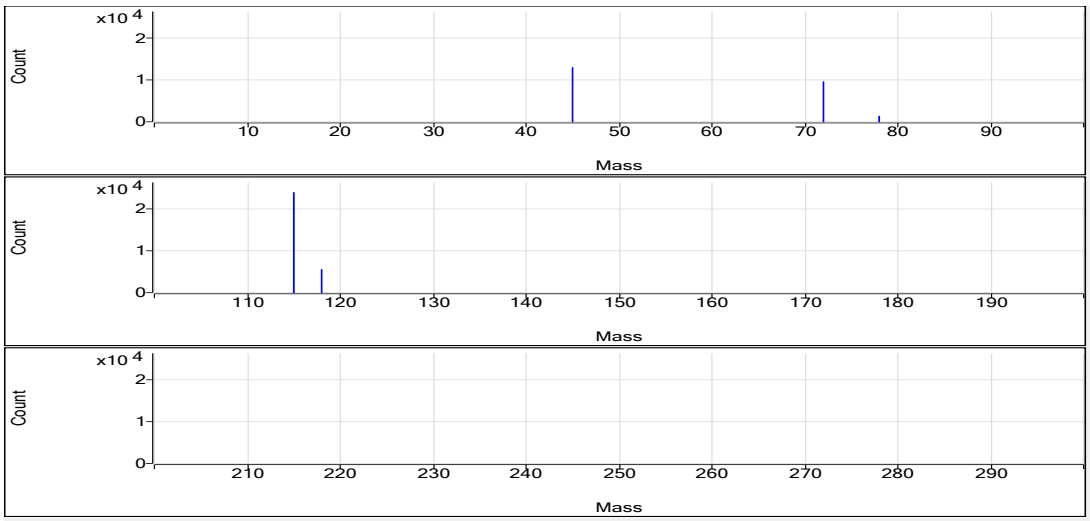
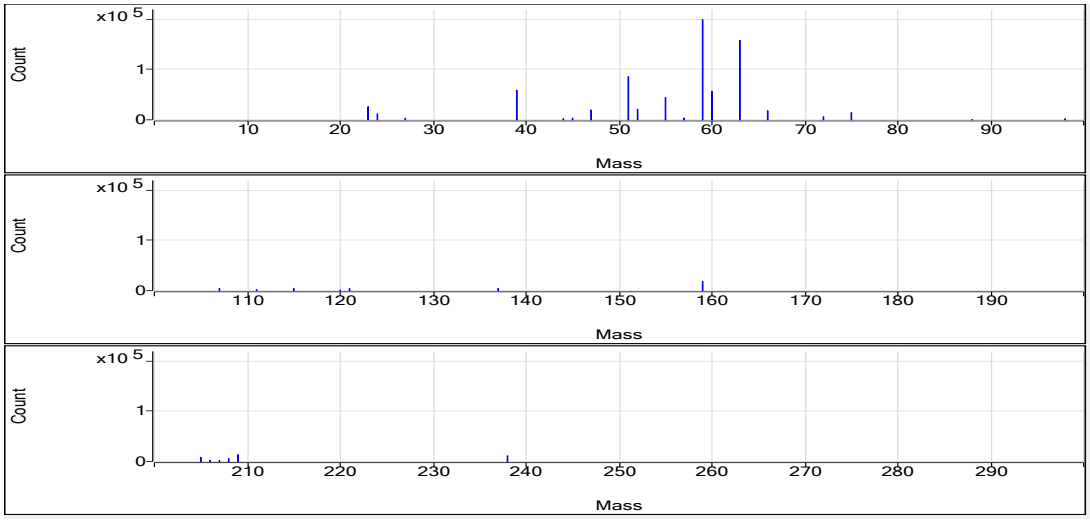


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.502	0.0079	12624.74	0.0003	2.616E-05
Be	9	1	No Gas	24.753	0.0084	13357.31	0.0003	2.616E-05
Be	9	1	No Gas	25.693	0.0087	14027.84	0.0003	2.616E-05
Se	78	2	H2	25.348	0.0099	935.36	0.0004	6.3E-05
Se	78	2	H2	23.67	0.0092	889.36	0.0004	6.3E-05
Se	78	2	H2	24.525	0.0096	920.69	0.0004	6.3E-05
Na	23	3	He	2489.207	6.9551	266627.87	0.0025	0.7502
Na	23	3	He	2510.892	7.0091	263920.48	0.0025	0.7502
Na	23	3	He	2524.277	7.0425	265459.94	0.0025	0.7502
Mg	24	3	He	2551.11	3.1153	119425.39	0.0012	0.02618
Mg	24	3	He	2631.721	3.2129	120976.45	0.0012	0.02618
Mg	24	3	He	2601.968	3.1768	119747.62	0.0012	0.02618
Al	27	3	He	2541.93	0.9639	36951.51	0.0004	0.005329
Al	27	3	He	2566.35	0.9731	36640.96	0.0004	0.005329
Al	27	3	He	2508.611	0.9513	35859.36	0.0004	0.005329
K	39	3	He	2645.792	3.1578	121056.58	0.001	0.5307
K	39	3	He	2616.369	3.1286	117803.15	0.001	0.5307
K	39	3	He	2541.813	3.0546	115138.44	0.001	0.5307
Ca	44	3	He	2464.153	0.1342	5142.83	0.0001	0.004441
Ca	44	3	He	2664.752	0.1447	5448.95	0.0001	0.004441
Ca	44	3	He	2538.797	0.1381	5204.85	0.0001	0.004441
Ti	47	3	He	2526.704	1.0338	39631.51	0.0004	0.0004559
Ti	47	3	He	2580.556	1.0558	39755.82	0.0004	0.0004559
Ti	47	3	He	2581.448	1.0562	39812.02	0.0004	0.0004559
V	51	3	He	253.543	4.4855	171955.27	0.0176	0.02609
V	51	3	He	260.281	4.604	173359.08	0.0176	0.02609
V	51	3	He	257.433	4.5539	171656.03	0.0176	0.02609
Cr	52	3	He	255.155	5.5938	214441.07	0.0217	0.05061
Cr	52	3	He	259.894	5.6967	214502.56	0.0217	0.05061
Cr	52	3	He	261.975	5.7419	216436.31	0.0217	0.05061
Mn	55	3	He	255.462	2.3391	89671.93	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	258.943	2.3709	89271.77	0.0091	0.01071
Mn	55	3	He	257.343	2.3563	88817.09	0.0091	0.01071
Fe	57	3	He	2641.463	1.0633	40761.79	0.0004	0.008452
Fe	57	3	He	2525.692	1.0171	38295.92	0.0004	0.008452
Fe	57	3	He	2564.255	1.0325	38917.30	0.0004	0.008452
Co	59	3	He	252.831	10.4451	400417.97	0.0413	0.006013
Co	59	3	He	256.459	10.5948	398935.09	0.0413	0.006013
Co	59	3	He	255.27	10.5457	397510.66	0.0413	0.006013
Ni	60	3	He	254.082	2.9959	114851.09	0.0117	0.01172
Ni	60	3	He	258.108	3.0432	114588.90	0.0117	0.01172
Ni	60	3	He	259.275	3.0569	115227.69	0.0117	0.01172
Cu	63	3	He	255.008	5.0029	316308.91	0.0196	0.01443
Cu	63	3	He	254.404	4.9911	317315.22	0.0196	0.01443
Cu	63	3	He	250.678	4.9182	317765.41	0.0196	0.01443
Zn	66	3	He	257.234	0.5874	37140.38	0.0023	0.002807
Zn	66	3	He	252.004	0.5755	36591.11	0.0023	0.002807
Zn	66	3	He	245.264	0.5602	36196.28	0.0023	0.002807
As	75	3	He	251.022	0.4633	29294.63	0.0018	0.001271
As	75	3	He	245.111	0.4525	28765.66	0.0018	0.001271
As	75	3	He	250.95	0.4632	29927.77	0.0018	0.001271
Sr	88	3	He	23.201	0.1918	9983.40	0.0082	0.00114
Sr	88	3	He	25.852	0.2135	10793.97	0.0082	0.00114
Sr	88	3	He	24.697	0.2041	10423.79	0.0082	0.00114
Mo	98	3	He	25.127	0.4466	23247.57	0.0177	0.001504
Mo	98	3	He	26.206	0.4657	23538.00	0.0177	0.001504
Mo	98	3	He	25.72	0.4571	23347.93	0.0177	0.001504
Ag	107	3	He	25.139	0.9258	48194.58	0.0368	0.001325
Ag	107	3	He	25.509	0.9394	47482.45	0.0368	0.001325
Ag	107	3	He	24.969	0.9195	46971.54	0.0368	0.001325
Cd	111	3	He	24.5	0.1006	5234.91	0.0041	4.798E-05
Cd	111	3	He	26.372	0.1082	5470.99	0.0041	4.798E-05
Cd	111	3	He	25.752	0.1057	5398.96	0.0041	4.798E-05
Sn	120	3	He	24.95	0.325	16919.94	0.0126	0.01097
Sn	120	3	He	25.077	0.3266	16509.30	0.0126	0.01097
Sn	120	3	He	26.128	0.3398	17360.12	0.0126	0.01097
Sb	121	3	He	24.885	0.3001	15624.61	0.012	0.0003595
Sb	121	3	He	25.477	0.3073	15531.16	0.012	0.0003595
Sb	121	3	He	26.148	0.3153	16108.51	0.012	0.0003595
Ba	137	3	He	245.834	0.9595	49951.69	0.0039	0.0003633
Ba	137	3	He	252.177	0.9843	49751.33	0.0039	0.0003633
Ba	137	3	He	246.962	0.9639	49239.65	0.0039	0.0003633
Tl	205	3	He	25.206	0.4787	89915.39	0.0189	0.001334
Tl	205	3	He	24.954	0.474	89271.51	0.0189	0.001334
Tl	205	3	He	24.644	0.4681	88456.84	0.0189	0.001334
Pb	208	3	He	24.782	0.6249	63418.02	0.0252	0.001497
Pb	208	3	He	25.156	0.6344	62735.51	0.0252	0.001497
Pb	208	3	He	24.569	0.6196	62082.78	0.0252	0.001497
U	238	3	He	25.905	0.636	119465.35	0.0245	0.0001141
U	238	3	He	25.54	0.6271	118114.78	0.0245	0.0001141
U	238	3	He	25.178	0.6182	116823.73	0.0245	0.0001141
Sc	45	1	No Gas			1590815.60		
Sc	45	1	No Gas			1598318.10		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1617328.73		
Ge	72	1	No Gas			803110.14		
Ge	72	1	No Gas			800125.07		
Ge	72	1	No Gas			803262.80		
Sc	45	2	H2			128268.10		
Sc	45	2	H2			130787.97		
Sc	45	2	H2			130546.37		
Ge	72	2	H2			94546.43		
Ge	72	2	H2			96226.90		
Ge	72	2	H2			96167.01		
In	115	2	H2			237870.00		
In	115	2	H2			240644.57		
In	115	2	H2			238935.06		
Sc	45	3	He			38335.65		
Sc	45	3	He			37653.73		
Sc	45	3	He			37693.94		
Ge	72	3	He			63224.81		
Ge	72	3	He			63576.24		
Ge	72	3	He			64609.83		
In	115	3	He			52178.18		
In	115	3	He			50662.82		
In	115	3	He			51204.80		
Tb	159	3	He			187824.84		
Tb	159	3	He			188353.32		
Tb	159	3	He			188977.38		
Bi	209	3	He			141268.29		
Bi	209	3	He			141268.15		
Bi	209	3	He			138664.44		

Quantitation Report

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Sample Type	CCB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

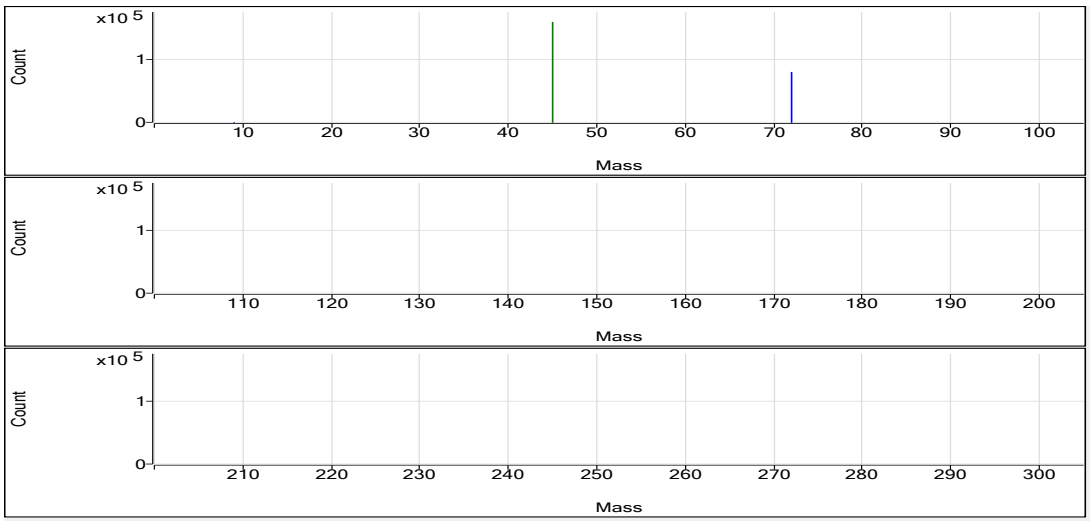
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.011	ppb	N/A	36.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.095	ppb	N/A	2.45	0.0000	Pulse	1.5000	3
Na	23	45	He	-83.174	ppb	N/A	20282.72	0.5429	Pulse	0.1000	3
Mg	24	45	He	-8.274	ppb	N/A	603.37	0.0162	Pulse	0.1000	3
Al	27	45	He	-0.606	ppb	N/A	190.01	0.0051	Pulse	0.1000	3
K	39	45	He	4.998	ppb	1475.0	20027.69	0.5356	Pulse	0.5000	3
Ca	44	45	He	-2.012	ppb	N/A	162.00	0.0043	Pulse	0.5000	3
Ti	47	45	He	0.239	ppb	168.0	20.67	0.0006	Pulse	0.5000	3
V	51	45	He	0.020	ppb	194.4	988.04	0.0264	Pulse	0.5000	3
Cr	52	45	He	-0.057	ppb	N/A	1843.50	0.0494	Pulse	0.1000	3
Mn	55	45	He	-0.249	ppb	N/A	315.34	0.0084	Pulse	0.5000	3
Fe	57	45	He	-8.207	ppb	N/A	193.34	0.0052	Pulse	0.1000	3
Co	59	45	He	-0.012	ppb	N/A	206.00	0.0055	Pulse	0.5000	3
Ni	60	45	He	-0.020	ppb	N/A	428.68	0.0115	Pulse	0.5000	3
Cu	63	72	He	-0.315	ppb	N/A	524.68	0.0083	Pulse	0.5000	3
Zn	66	72	He	-0.013	ppb	N/A	176.00	0.0028	Pulse	0.5000	3
As	75	72	He	0.784	ppb	14.0	172.00	0.0027	Pulse	0.5000	3
Sr	88	115	He	-0.027	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Mo	98	115	He	-0.007	ppb	N/A	70.00	0.0014	Pulse	0.1000	3
Ag	107	115	He	-0.018	ppb	N/A	33.33	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.007	ppb	340.6	4.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.108	ppb	N/A	490.02	0.0096	Pulse	0.1000	3
Sb	121	115	He	0.024	ppb	36.9	33.34	0.0007	Pulse	0.3000	3
Ba	137	115	He	0.057	ppb	150.5	30.00	0.0006	Pulse	0.1000	3
Tl	205	159	He	-0.017	ppb	N/A	190.01	0.0010	Pulse	0.1000	3
Pb	208	159	He	-0.009	ppb	N/A	236.67	0.0013	Pulse	0.1000	3
U	238	159	He	0.013	ppb	24.3	83.33	0.0004	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1603818.47	1.3	93.9	Analog	0.1000	3
No Gas	Ge	72	801231.01	1.2	92.7	Pulse	0.1000	3
H2	Sc	45	127374.48	1.7	95.3	Pulse	0.1000	3
H2	Ge	72	93809.60	1.5	94.7	Pulse	0.1000	3
H2	In	115	237032.07	1.8	92.3	Pulse	0.1000	3
He	Sc	45	37359.92	1.5	94.7	Pulse	0.1000	3
He	Ge	72	63422.04	2.0	93.1	Pulse	0.1000	3
He	In	115	51020.91	0.8	92.1	Pulse	0.1000	3
He	Tb	159	187524.87	1.2	91.6	Pulse	0.1000	3
He	Bi	209	137654.37	2.2	91.0	Pulse	0.1000	3

No Gas



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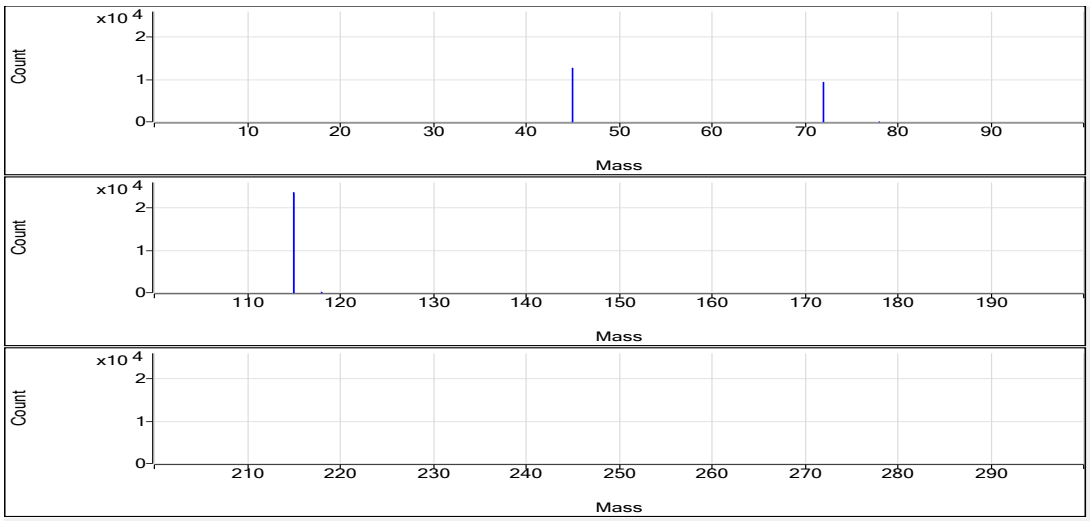
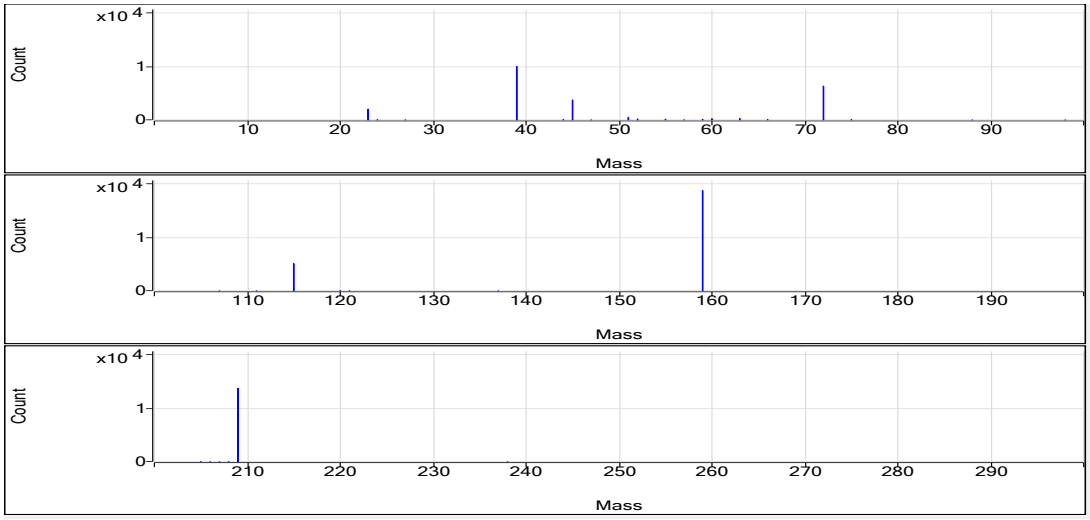


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	0.024	0	54.00	0.0003	2.616E-05
Se	78	2	H2	-0.09	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.088	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Na	23	3	He	-81.511	0.547	20613.04	0.0025	0.7502
Na	23	3	He	-82.744	0.5439	20502.97	0.0025	0.7502
Na	23	3	He	-85.268	0.5376	19732.16	0.0025	0.7502
Mg	24	3	He	-7.596	0.017	640.03	0.0012	0.02618
Mg	24	3	He	-10.229	0.0138	520.03	0.0012	0.02618
Mg	24	3	He	-6.996	0.0177	650.04	0.0012	0.02618
Al	27	3	He	-4.984	0.0034	130.00	0.0004	0.005329
Al	27	3	He	-0.765	0.005	190.01	0.0004	0.005329
Al	27	3	He	3.931	0.0068	250.01	0.0004	0.005329
K	39	3	He	89.349	0.6194	23340.58	0.001	0.5307
K	39	3	He	-27.306	0.5035	18980.90	0.001	0.5307
K	39	3	He	-47.05	0.4839	17761.58	0.001	0.5307
Ca	44	3	He	-2.696	0.0043	162.00	0.0001	0.004441
Ca	44	3	He	1.313	0.0045	170.00	0.0001	0.004441
Ca	44	3	He	-4.652	0.0042	154.00	0.0001	0.004441
Ti	47	3	He	0.572	0.0007	26.00	0.0004	0.0004559
Ti	47	3	He	-0.207	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	0.351	0.0006	22.00	0.0004	0.0004559
V	51	3	He	0.001	0.0261	984.04	0.0176	0.02609
V	51	3	He	0.064	0.0272	1026.04	0.0176	0.02609
V	51	3	He	-0.006	0.026	954.04	0.0176	0.02609
Cr	52	3	He	-0.057	0.0494	1860.17	0.0217	0.05061
Cr	52	3	He	-0.205	0.0462	1740.15	0.0217	0.05061
Cr	52	3	He	0.091	0.0526	1930.17	0.0217	0.05061
Mn	55	3	He	-0.179	0.0091	342.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.29	0.0081	304.01	0.0091	0.01071
Mn	55	3	He	-0.278	0.0082	300.01	0.0091	0.01071
Fe	57	3	He	-8.539	0.005	190.01	0.0004	0.008452
Fe	57	3	He	-7.879	0.0053	200.01	0.0004	0.008452
Fe	57	3	He	-8.202	0.0052	190.01	0.0004	0.008452
Co	59	3	He	-0.013	0.0055	206.00	0.0413	0.006013
Co	59	3	He	-0.011	0.0056	210.00	0.0413	0.006013
Co	59	3	He	-0.012	0.0055	202.00	0.0413	0.006013
Ni	60	3	He	-0.071	0.0109	410.01	0.0117	0.01172
Ni	60	3	He	0.019	0.0119	450.01	0.0117	0.01172
Ni	60	3	He	-0.009	0.0116	426.01	0.0117	0.01172
Cu	63	3	He	-0.308	0.0084	528.01	0.0196	0.01443
Cu	63	3	He	-0.283	0.0089	556.01	0.0196	0.01443
Cu	63	3	He	-0.352	0.0076	490.01	0.0196	0.01443
Zn	66	3	He	-0.017	0.0028	174.00	0.0023	0.002807
Zn	66	3	He	0.06	0.0029	184.00	0.0023	0.002807
Zn	66	3	He	-0.083	0.0026	170.00	0.0023	0.002807
As	75	3	He	0.883	0.0029	182.00	0.0018	0.001271
As	75	3	He	0.804	0.0028	172.00	0.0018	0.001271
As	75	3	He	0.666	0.0025	162.00	0.0018	0.001271
Sr	88	3	He	-0.042	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	0.028	0.0014	70.00	0.0082	0.00114
Sr	88	3	He	-0.068	0.0006	30.00	0.0082	0.00114
Mo	98	3	He	0.004	0.0016	80.00	0.0177	0.001504
Mo	98	3	He	-0.041	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	0.014	0.0018	90.00	0.0177	0.001504
Ag	107	3	He	-0.009	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.036	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	-0.038	0.0105	530.03	0.0126	0.01097
Sn	120	3	He	-0.173	0.0088	450.02	0.0126	0.01097
Sn	120	3	He	-0.113	0.0095	490.02	0.0126	0.01097
Sb	121	3	He	0.014	0.0005	26.67	0.012	0.0003595
Sb	121	3	He	0.03	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	0.008	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.157	0.001	50.00	0.0039	0.0003633
Ba	137	3	He	0.007	0.0004	20.00	0.0039	0.0003633
Tl	205	3	He	0.002	0.0014	260.01	0.0189	0.001334
Tl	205	3	He	-0.02	0.001	180.01	0.0189	0.001334
Tl	205	3	He	-0.033	0.0007	130.01	0.0189	0.001334
Pb	208	3	He	-0.017	0.0011	100.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	180.01	0.0252	0.001497
Pb	208	3	He	-0.004	0.0014	180.01	0.0252	0.001497
U	238	3	He	0.01	0.0004	70.00	0.0245	0.0001141
U	238	3	He	0.017	0.0005	100.00	0.0245	0.0001141
U	238	3	He	0.013	0.0004	80.00	0.0245	0.0001141
Sc	45	1	No Gas			1621624.04		
Sc	45	1	No Gas			1609215.13		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1580616.23		
Ge	72	1	No Gas			812553.74		
Ge	72	1	No Gas			794060.93		
Ge	72	1	No Gas			797078.35		
Sc	45	2	H2			129809.96		
Sc	45	2	H2			125798.55		
Sc	45	2	H2			126514.94		
Ge	72	2	H2			94828.20		
Ge	72	2	H2			92174.32		
Ge	72	2	H2			94426.27		
In	115	2	H2			241616.50		
In	115	2	H2			233218.86		
In	115	2	H2			236260.86		
Sc	45	3	He			37683.72		
Sc	45	3	He			37694.31		
Sc	45	3	He			36701.74		
Ge	72	3	He			62852.85		
Ge	72	3	He			62511.94		
Ge	72	3	He			64901.32		
In	115	3	He			50542.44		
In	115	3	He			51205.09		
In	115	3	He			51325.50		
Tb	159	3	He			188777.83		
Tb	159	3	He			188767.09		
Tb	159	3	He			185029.68		
Bi	209	3	He			141086.92		
Bi	209	3	He			136563.21		
Bi	209	3	He			135312.99		

Quantitation Report

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Auto Dilution	1.0000
Total Dilution	1.0000
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Acq Mode	Spectrum
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Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

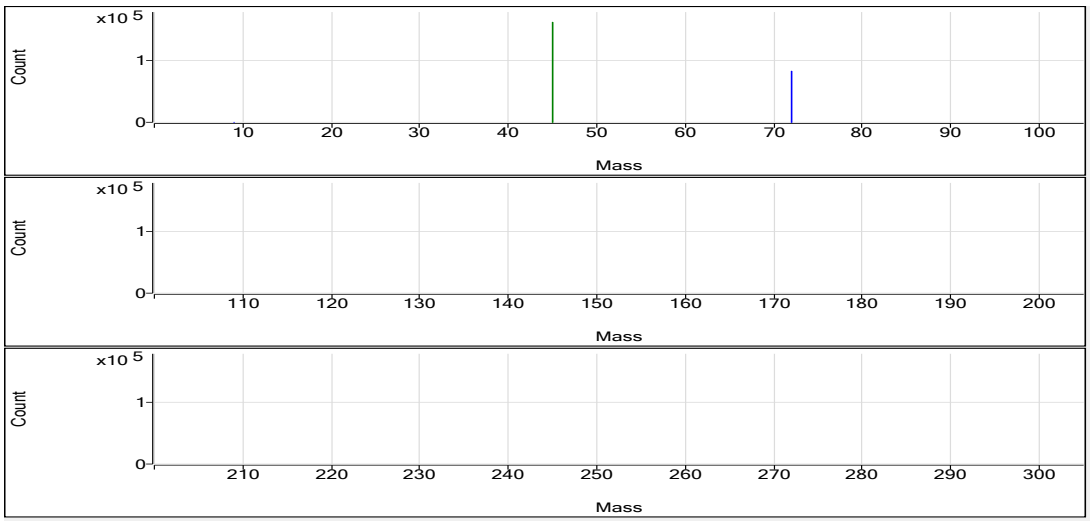
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.035	ppb	N/A	23.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.209	ppb	61.7	14.44	0.0001	Pulse	1.5000	3
Na	23	45	He	117963.113	ppb	3.3	11289316.08	294.7997	Analog	0.1000	3
Mg	24	45	He	17406.993	ppb	2.8	808239.49	21.1039	Pulse	0.1000	3
Al	27	45	He	80.296	ppb	7.5	1363.43	0.0356	Pulse	0.1000	3
K	39	45	He	3943.266	ppb	0.8	170337.45	4.4461	Pulse	0.5000	3
Ca	44	45	He	85586.157	ppb	2.8	172709.17	4.5097	Pulse	0.5000	3
Ti	47	45	He	-0.432	ppb	N/A	10.67	0.0003	Pulse	0.5000	3
V	51	45	He	2.268	ppb	5.9	2526.88	0.0660	Pulse	0.5000	3
Cr	52	45	He	-0.283	ppb	N/A	1703.48	0.0445	Pulse	0.1000	3
Mn	55	45	He	147.294	ppb	2.8	51825.75	1.3532	Pulse	0.5000	3
Fe	57	45	He	293.513	ppb	1.7	4814.20	0.1257	Pulse	0.1000	3
Co	59	45	He	0.166	ppb	3.4	492.68	0.0129	Pulse	0.5000	3
Ni	60	45	He	1.297	ppb	5.9	1032.04	0.0270	Pulse	0.5000	3
Cu	63	72	He	144.970	ppb	0.7	190536.78	2.8504	Pulse	0.5000	3
Zn	66	72	He	15.878	ppb	1.7	2600.22	0.0389	Pulse	0.5000	3
As	75	72	He	1.540	ppb	27.0	274.67	0.0041	Pulse	0.5000	3
Sr	88	115	He	544.065	ppb	1.9	239185.82	4.4713	Pulse	0.1000	3
Mo	98	115	He	13.336	ppb	4.7	12715.51	0.2377	Pulse	0.1000	3
Ag	107	115	He	-0.007	ppb	N/A	56.67	0.0011	Pulse	0.1000	3
Cd	111	115	He	0.007	ppb	139.0	4.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.079	ppb	N/A	533.36	0.0100	Pulse	0.1000	3
Sb	121	115	He	0.685	ppb	13.9	460.01	0.0086	Pulse	0.3000	3
Ba	137	115	He	130.827	ppb	1.2	27324.93	0.5108	Pulse	0.1000	3
Tl	205	159	He	-0.039	ppb	N/A	113.34	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.563	ppb	9.2	2960.23	0.0157	Pulse	0.1000	3
U	238	159	He	1.162	ppb	4.8	5411.20	0.0286	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1622190.39	1.7	94.9	Analog	0.1000	3
No Gas	Ge	72	830477.28	0.2	96.1	Pulse	0.1000	3
H2	Sc	45	131782.13	1.4	98.6	Pulse	0.1000	3
H2	Ge	72	100640.84	1.2	101.6	Pulse	0.1000	3
H2	In	115	243038.85	1.3	94.7	Pulse	0.1000	3
He	Sc	45	38315.52	2.5	97.1	Pulse	0.1000	3
He	Ge	72	66848.99	0.8	98.2	Pulse	0.1000	3
He	In	115	53498.89	1.0	96.6	Pulse	0.1000	3
He	Tb	159	188952.15	0.9	92.3	Pulse	0.1000	3
He	Bi	209	140224.91	0.6	92.7	Pulse	0.1000	3

No Gas



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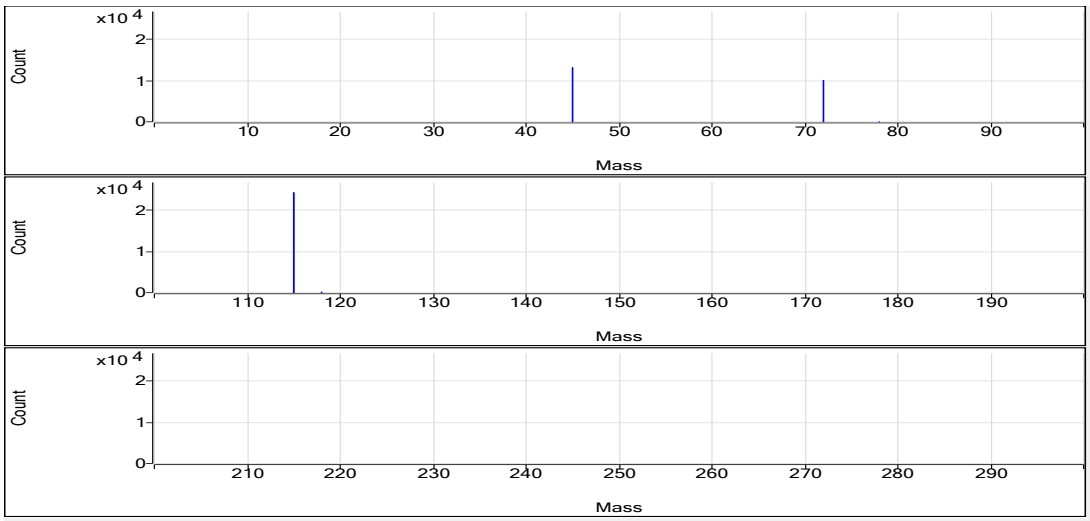
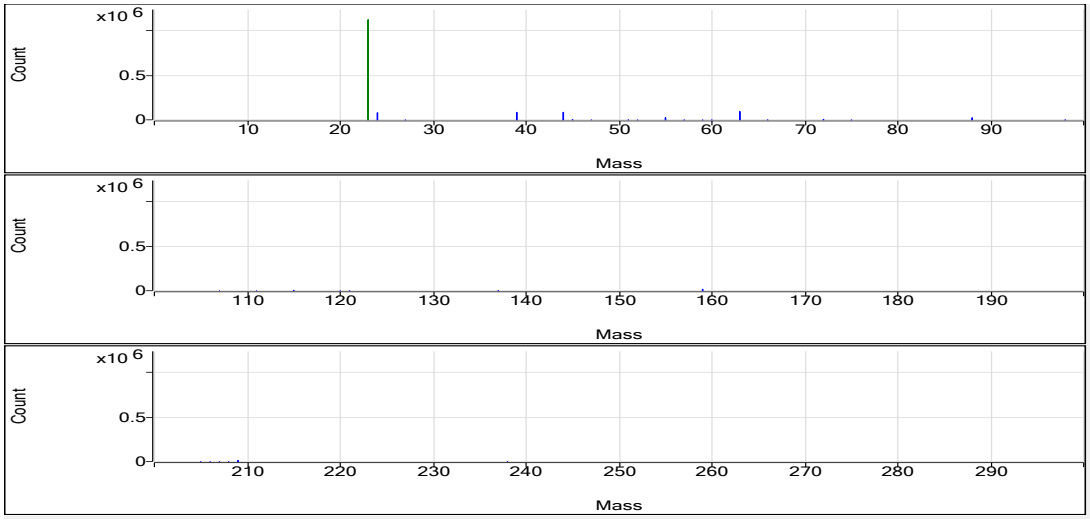


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.041	0	20.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.031	0	26.00	0.0003	2.616E-05
Se	78	2	H2	0.127	0.0001	11.33	0.0004	6.3E-05
Se	78	2	H2	0.357	0.0002	20.00	0.0004	6.3E-05
Se	78	2	H2	0.142	0.0001	12.00	0.0004	6.3E-05
Na	23	3	He	114397.882	285.9125	11224311.08	0.0025	0.7502
Na	23	3	He	117318.296	293.1923	11233766.08	0.0025	0.7502
Na	23	3	He	122173.159	305.2941	11409871.08	0.0025	0.7502
Mg	24	3	He	16973.973	20.5795	807908.50	0.0012	0.02618
Mg	24	3	He	17309.464	20.9858	804077.41	0.0012	0.02618
Mg	24	3	He	17937.542	21.7463	812732.57	0.0012	0.02618
Al	27	3	He	73.687	0.0331	1300.10	0.0004	0.005329
Al	27	3	He	85.538	0.0376	1440.11	0.0004	0.005329
Al	27	3	He	81.662	0.0361	1350.09	0.0004	0.005329
K	39	3	He	3915.667	4.4187	173469.92	0.001	0.5307
K	39	3	He	3938.775	4.4417	170184.42	0.001	0.5307
K	39	3	He	3975.357	4.478	167358.00	0.001	0.5307
Ca	44	3	He	83164.299	4.3822	172034.50	0.0001	0.004441
Ca	44	3	He	85557.036	4.5081	172730.22	0.0001	0.004441
Ca	44	3	He	88037.136	4.6387	173362.80	0.0001	0.004441
Ti	47	3	He	-0.616	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.349	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.33	0.0003	12.00	0.0004	0.0004559
V	51	3	He	2.137	0.0637	2500.21	0.0176	0.02609
V	51	3	He	2.262	0.0659	2524.21	0.0176	0.02609
V	51	3	He	2.405	0.0684	2556.21	0.0176	0.02609
Cr	52	3	He	-0.09	0.0487	1910.18	0.0217	0.05061
Cr	52	3	He	-0.732	0.0347	1330.09	0.0217	0.05061
Cr	52	3	He	-0.026	0.05	1870.17	0.0217	0.05061
Mn	55	3	He	142.957	1.3137	51572.92	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	147.64	1.3564	51970.28	0.0091	0.01071
Mn	55	3	He	151.285	1.3896	51934.05	0.0091	0.01071
Fe	57	3	He	293.362	0.1256	4930.90	0.0004	0.008452
Fe	57	3	He	288.678	0.1237	4740.85	0.0004	0.008452
Fe	57	3	He	298.499	0.1277	4770.86	0.0004	0.008452
Co	59	3	He	0.171	0.0131	514.01	0.0413	0.006013
Co	59	3	He	0.165	0.0128	492.01	0.0413	0.006013
Co	59	3	He	0.16	0.0126	472.01	0.0413	0.006013
Ni	60	3	He	1.223	0.0261	1024.04	0.0117	0.01172
Ni	60	3	He	1.291	0.0269	1030.04	0.0117	0.01172
Ni	60	3	He	1.376	0.0279	1042.04	0.0117	0.01172
Cu	63	3	He	146.195	2.8743	190500.20	0.0196	0.01443
Cu	63	3	He	144.298	2.8372	189978.38	0.0196	0.01443
Cu	63	3	He	144.418	2.8395	191131.77	0.0196	0.01443
Zn	66	3	He	15.602	0.0383	2536.21	0.0023	0.002807
Zn	66	3	He	15.891	0.0389	2606.23	0.0023	0.002807
Zn	66	3	He	16.141	0.0395	2658.23	0.0023	0.002807
As	75	3	He	1.162	0.0034	226.00	0.0018	0.001271
As	75	3	He	1.987	0.0049	330.01	0.0018	0.001271
As	75	3	He	1.472	0.004	268.00	0.0018	0.001271
Sr	88	3	He	533.818	4.3871	235673.61	0.0082	0.00114
Sr	88	3	He	544.119	4.4717	240982.67	0.0082	0.00114
Sr	88	3	He	554.256	4.555	240901.17	0.0082	0.00114
Mo	98	3	He	12.616	0.225	12085.02	0.0177	0.001504
Mo	98	3	He	13.698	0.2441	13155.89	0.0177	0.001504
Mo	98	3	He	13.692	0.244	12905.63	0.0177	0.001504
Ag	107	3	He	-0.001	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	0	0.0013	70.00	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.003	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	-0.072	0.0101	540.04	0.0126	0.01097
Sn	120	3	He	-0.09	0.0098	530.02	0.0126	0.01097
Sn	120	3	He	-0.075	0.01	530.02	0.0126	0.01097
Sb	121	3	He	0.691	0.0087	466.68	0.012	0.0003595
Sb	121	3	He	0.586	0.0074	400.01	0.012	0.0003595
Sb	121	3	He	0.776	0.0097	513.35	0.012	0.0003595
Ba	137	3	He	130.04	0.5077	27274.78	0.0039	0.0003633
Ba	137	3	He	129.818	0.5069	27314.81	0.0039	0.0003633
Ba	137	3	He	132.624	0.5178	27385.19	0.0039	0.0003633
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Tl	205	3	He	-0.031	0.0007	140.01	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	0.508	0.0143	1270.11	0.0252	0.001497
Pb	208	3	He	0.569	0.0158	1710.16	0.0252	0.001497
Pb	208	3	He	0.611	0.0169	1890.19	0.0252	0.001497
U	238	3	He	1.131	0.0279	5231.12	0.0245	0.0001141
U	238	3	He	1.226	0.0302	5691.31	0.0245	0.0001141
U	238	3	He	1.129	0.0278	5311.17	0.0245	0.0001141
Sc	45	1	No Gas			1610692.32		
Sc	45	1	No Gas			1601933.10		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1653945.76		
Ge	72	1	No Gas			829518.74		
Ge	72	1	No Gas			829553.19		
Ge	72	1	No Gas			832359.91		
Sc	45	2	H2			130958.91		
Sc	45	2	H2			130495.55		
Sc	45	2	H2			133891.92		
Ge	72	2	H2			101036.04		
Ge	72	2	H2			99306.69		
Ge	72	2	H2			101579.80		
In	115	2	H2			242124.90		
In	115	2	H2			240408.75		
In	115	2	H2			246582.91		
Sc	45	3	He			39257.85		
Sc	45	3	He			38315.35		
Sc	45	3	He			37373.37		
Ge	72	3	He			66276.66		
Ge	72	3	He			66959.65		
Ge	72	3	He			67310.65		
In	115	3	He			53723.42		
In	115	3	He			53893.86		
In	115	3	He			52890.58		
Tb	159	3	He			187561.46		
Tb	159	3	He			188412.11		
Tb	159	3	He			190882.89		
Bi	209	3	He			139208.34		
Bi	209	3	He			140742.65		
Bi	209	3	He			140723.75		

Quantitation Report

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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

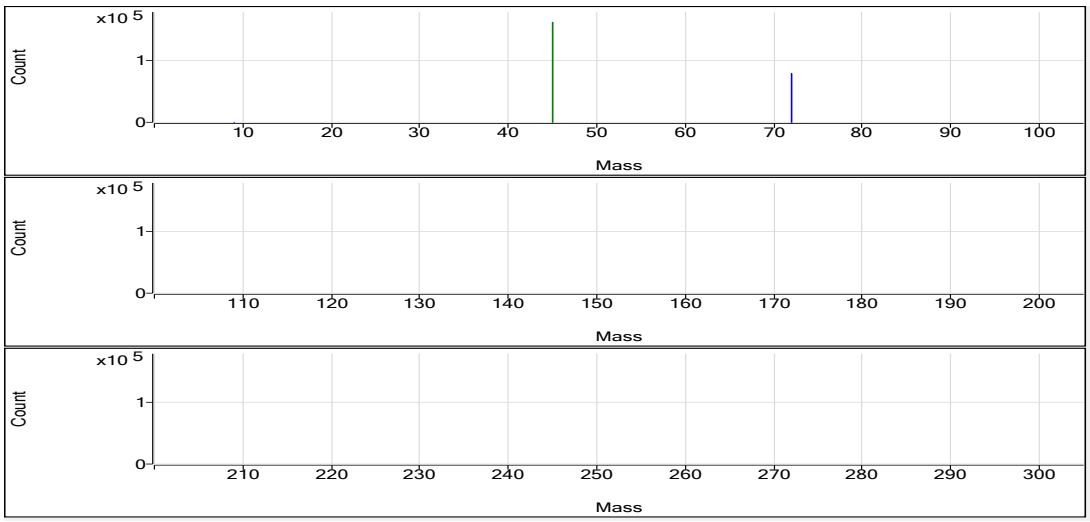
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.005	ppb	328.1	45.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.121	ppb	54.1	10.45	0.0001	Pulse	1.5000	3
Na	23	45	He	155559.839	ppb	0.7	14970920.19	388.5179	Analog	0.1000	3
Mg	24	45	He	7088.014	ppb	1.0	331713.07	8.6089	Pulse	0.1000	3
Al	27	45	He	77471.837	ppb	0.5	1125928.39	29.2201	Mix	0.1000	3
K	39	45	He	5665.363	ppb	0.9	237216.68	6.1561	Pulse	0.5000	3
Ca	44	45	He	17374.573	ppb	0.5	35411.94	0.9190	Pulse	0.5000	3
Ti	47	45	He	31.972	ppb	4.1	521.34	0.0135	Pulse	0.5000	3
V	51	45	He	24.521	ppb	2.0	17623.48	0.4574	Pulse	0.5000	3
Cr	52	45	He	1141.500	ppb	0.5	957491.58	24.8493	Pulse	0.1000	3
Mn	55	45	He	115.485	ppb	1.4	40970.48	1.0633	Pulse	0.5000	3
Fe	57	45	He	11633.754	ppb	0.0	179339.79	4.6542	Pulse	0.1000	3
Co	59	45	He	2.582	ppb	1.5	4339.93	0.1126	Pulse	0.5000	3
Ni	60	45	He	353.530	ppb	0.7	160444.63	4.1640	Pulse	0.5000	3
Cu	63	72	He	311.604	ppb	1.6	388380.32	6.1101	Pulse	0.5000	3
Zn	66	72	He	136.567	ppb	3.0	19903.58	0.3132	Pulse	0.5000	3
As	75	72	He	1.025	ppb	11.3	200.67	0.0032	Pulse	0.5000	3
Sr	88	115	He	115.637	ppb	2.7	48929.28	0.9512	Pulse	0.1000	3
Mo	98	115	He	1.751	ppb	3.6	1673.48	0.0325	Pulse	0.1000	3
Ag	107	115	He	0.042	ppb	41.6	146.67	0.0029	Pulse	0.1000	3
Cd	111	115	He	0.241	ppb	13.0	53.33	0.0010	Pulse	0.5000	3
Sn	120	115	He	3.038	ppb	6.9	2530.30	0.0492	Pulse	0.1000	3
Sb	121	115	He	0.282	ppb	7.1	193.34	0.0038	Pulse	0.3000	3
Ba	137	115	He	24.215	ppb	4.9	4877.62	0.0948	Pulse	0.1000	3
Tl	205	159	He	-0.007	ppb	N/A	226.68	0.0012	Pulse	0.1000	3
Pb	208	159	He	21.937	ppb	0.7	105104.20	0.5534	Pulse	0.1000	3
U	238	159	He	0.098	ppb	3.5	476.69	0.0025	Pulse	0.1000	3

ISTD Table:

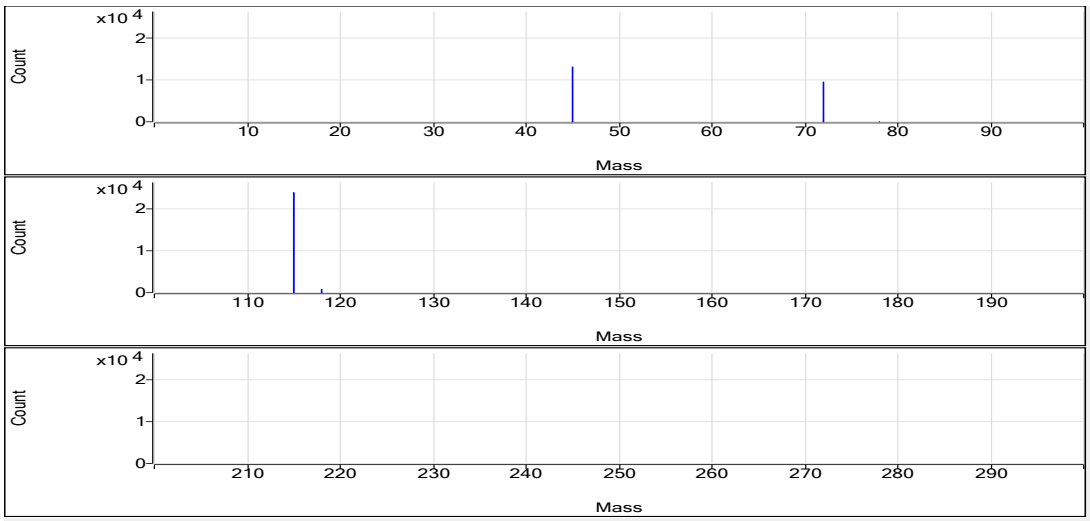
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1624459.04	0.5	95.1	Analog	0.1000	3
No Gas	Ge	72	791809.44	1.2	91.7	Pulse	0.1000	3
H2	Sc	45	131127.75	1.2	98.1	Pulse	0.1000	3
H2	Ge	72	95171.38	1.2	96.1	Pulse	0.1000	3
H2	In	115	239008.42	0.4	93.1	Pulse	0.1000	3
He	Sc	45	38532.53	0.5	97.6	Pulse	0.1000	3
He	Ge	72	63579.45	2.2	93.4	Pulse	0.1000	3
He	In	115	51451.33	1.8	92.9	Pulse	0.1000	3
He	Tb	159	189933.86	0.2	92.7	Pulse	0.1000	3
He	Bi	209	142918.27	1.3	94.5	Pulse	0.1000	3

No Gas

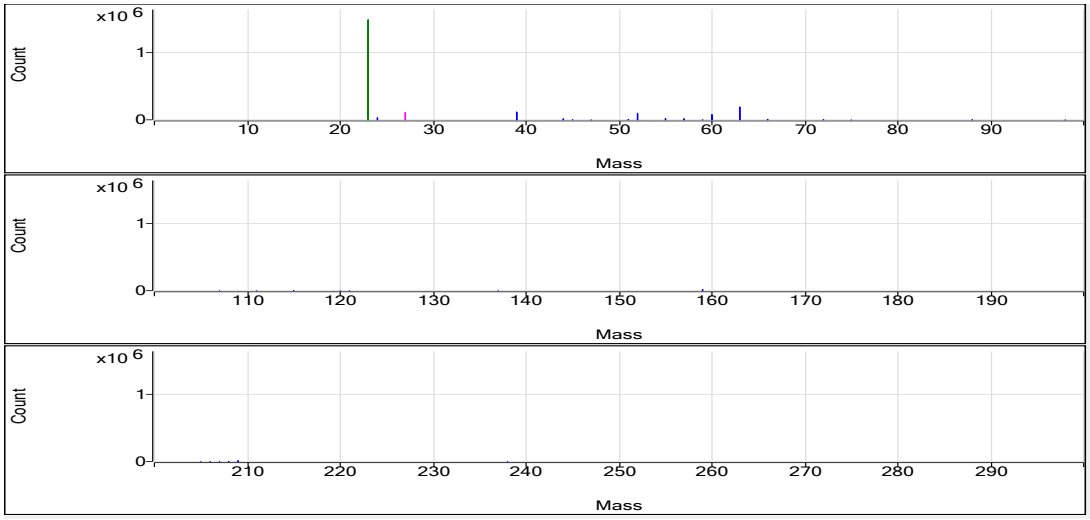


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.005	0	40.00	0.0003	2.616E-05
Be	9	1	No Gas	0.025	0	56.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.004	0	40.00	0.0003	2.616E-05
Se	78	2	H2	0.13	0.0001	10.67	0.0004	6.3E-05
Se	78	2	H2	0.051	0.0001	8.00	0.0004	6.3E-05
Se	78	2	H2	0.181	0.0001	12.67	0.0004	6.3E-05
Na	23	3	He	156405.005	390.6247	15135284.77	0.0025	0.7502
Na	23	3	He	155913.758	389.4001	14998069.78	0.0025	0.7502
Na	23	3	He	154360.755	385.5289	14779406.03	0.0025	0.7502
Mg	24	3	He	7056.315	8.5705	332075.54	0.0012	0.02618
Mg	24	3	He	7038.165	8.5485	329253.35	0.0012	0.02618
Mg	24	3	He	7169.563	8.7076	333810.31	0.0012	0.02618
Al	27	3	He	77787.012	29.3389	1136775.76	0.0004	0.005329
Al	27	3	He	77013.312	29.0471	1118774.75	0.0004	0.005329
Al	27	3	He	77615.186	29.2741	1122234.67	0.0004	0.005329
K	39	3	He	5712.804	6.2032	240351.56	0.001	0.5307
K	39	3	He	5669.229	6.1599	237255.02	0.001	0.5307
K	39	3	He	5614.057	6.1052	234043.45	0.001	0.5307
Ca	44	3	He	17268.092	0.9134	35391.88	0.0001	0.004441
Ca	44	3	He	17427.337	0.9218	35504.17	0.0001	0.004441
Ca	44	3	He	17428.289	0.9219	35339.77	0.0001	0.004441
Ti	47	3	He	31.071	0.0132	510.01	0.0004	0.0004559
Ti	47	3	He	31.39	0.0133	512.01	0.0004	0.0004559
Ti	47	3	He	33.457	0.0141	542.01	0.0004	0.0004559
V	51	3	He	23.989	0.448	17359.20	0.0176	0.02609
V	51	3	He	24.948	0.4649	17905.78	0.0176	0.02609
V	51	3	He	24.627	0.4592	17605.46	0.0176	0.02609
Cr	52	3	He	1137.106	24.7539	959121.86	0.0217	0.05061
Cr	52	3	He	1139.326	24.8021	955273.27	0.0217	0.05061
Cr	52	3	He	1148.069	24.992	958079.60	0.0217	0.05061
Mn	55	3	He	113.71	1.0471	40572.18	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	116.916	1.0763	41456.29	0.0091	0.01071
Mn	55	3	He	115.831	1.0665	40882.98	0.0091	0.01071
Fe	57	3	He	11633.362	4.6541	180328.94	0.0004	0.008452
Fe	57	3	He	11634.87	4.6547	179279.22	0.0004	0.008452
Fe	57	3	He	11633.03	4.654	178411.21	0.0004	0.008452
Co	59	3	He	2.541	0.1109	4298.59	0.0413	0.006013
Co	59	3	He	2.615	0.114	4390.60	0.0413	0.006013
Co	59	3	He	2.59	0.113	4330.61	0.0413	0.006013
Ni	60	3	He	350.817	4.1321	160103.95	0.0117	0.01172
Ni	60	3	He	354.624	4.1768	160873.55	0.0117	0.01172
Ni	60	3	He	355.149	4.183	160356.38	0.0117	0.01172
Cu	63	3	He	317.413	6.2237	385430.88	0.0196	0.01443
Cu	63	3	He	308.331	6.046	389603.59	0.0196	0.01443
Cu	63	3	He	309.069	6.0605	390106.50	0.0196	0.01443
Zn	66	3	He	141.233	0.3238	20052.41	0.0023	0.002807
Zn	66	3	He	133.579	0.3064	19744.08	0.0023	0.002807
Zn	66	3	He	134.89	0.3094	19914.24	0.0023	0.002807
As	75	3	He	1.064	0.0032	200.00	0.0018	0.001271
As	75	3	He	0.894	0.0029	188.00	0.0018	0.001271
As	75	3	He	1.116	0.0033	214.00	0.0018	0.001271
Sr	88	3	He	112.278	0.9236	48474.33	0.0082	0.00114
Sr	88	3	He	116.224	0.9561	48544.85	0.0082	0.00114
Sr	88	3	He	118.409	0.974	49768.67	0.0082	0.00114
Mo	98	3	He	1.809	0.0335	1760.16	0.0177	0.001504
Mo	98	3	He	1.761	0.0327	1660.14	0.0177	0.001504
Mo	98	3	He	1.683	0.0313	1600.15	0.0177	0.001504
Ag	107	3	He	0.026	0.0023	120.00	0.0368	0.001325
Ag	107	3	He	0.06	0.0035	180.01	0.0368	0.001325
Ag	107	3	He	0.038	0.0027	140.01	0.0368	0.001325
Cd	111	3	He	0.276	0.0012	62.00	0.0041	4.798E-05
Cd	111	3	He	0.228	0.001	50.00	0.0041	4.798E-05
Cd	111	3	He	0.217	0.0009	48.00	0.0041	4.798E-05
Sn	120	3	He	2.808	0.0463	2430.29	0.0126	0.01097
Sn	120	3	He	3.088	0.0498	2530.31	0.0126	0.01097
Sn	120	3	He	3.219	0.0515	2630.30	0.0126	0.01097
Sb	121	3	He	0.281	0.0037	196.67	0.012	0.0003595
Sb	121	3	He	0.303	0.004	203.34	0.012	0.0003595
Sb	121	3	He	0.263	0.0035	180.00	0.012	0.0003595
Ba	137	3	He	23.06	0.0903	4740.94	0.0039	0.0003633
Ba	137	3	He	24.141	0.0946	4800.90	0.0039	0.0003633
Ba	137	3	He	25.444	0.0996	5091.01	0.0039	0.0003633
Tl	205	3	He	-0.009	0.0012	220.01	0.0189	0.001334
Tl	205	3	He	-0.004	0.0013	240.01	0.0189	0.001334
Tl	205	3	He	-0.009	0.0012	220.01	0.0189	0.001334
Pb	208	3	He	22.084	0.5571	56389.90	0.0252	0.001497
Pb	208	3	He	21.76	0.5489	55566.18	0.0252	0.001497
Pb	208	3	He	21.968	0.5541	56308.93	0.0252	0.001497
U	238	3	He	0.101	0.0026	490.03	0.0245	0.0001141
U	238	3	He	0.094	0.0024	460.02	0.0245	0.0001141
U	238	3	He	0.098	0.0025	480.03	0.0245	0.0001141
Sc	45	1	No Gas			1633934.98		
Sc	45	1	No Gas			1618634.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1620807.32		
Ge	72	1	No Gas			803136.24		
Ge	72	1	No Gas			785958.82		
Ge	72	1	No Gas			786333.27		
Sc	45	2	H2			132057.22		
Sc	45	2	H2			131948.18		
Sc	45	2	H2			129377.86		
Ge	72	2	H2			94075.06		
Ge	72	2	H2			96429.19		
Ge	72	2	H2			95009.90		
In	115	2	H2			238278.77		
In	115	2	H2			240237.03		
In	115	2	H2			238509.47		
Sc	45	3	He			38746.36		
Sc	45	3	He			38515.83		
Sc	45	3	He			38335.40		
Ge	72	3	He			61929.71		
Ge	72	3	He			64439.64		
Ge	72	3	He			64369.01		
In	115	3	He			52498.94		
In	115	3	He			50793.49		
In	115	3	He			51114.69		
Tb	159	3	He			189787.99		
Tb	159	3	He			190386.81		
Tb	159	3	He			189626.79		
Bi	209	3	He			143258.78		
Bi	209	3	He			144589.88		
Bi	209	3	He			140906.15		

Quantitation Report

Data File Name	325SMPL.d
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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

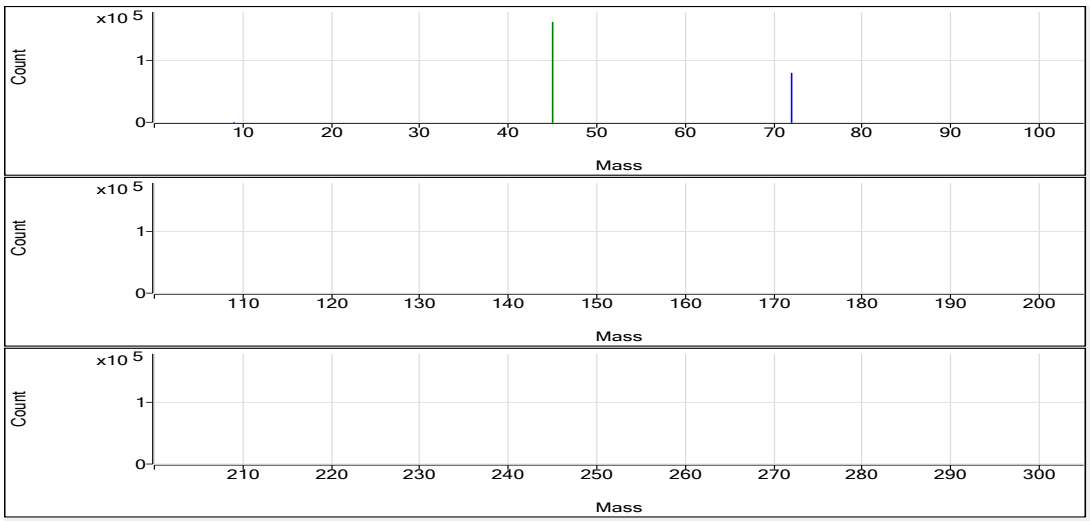
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.011	ppb	199.3	48.00	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.108	ppb	110.6	10.00	0.0001	Pulse	1.5000	3
Na	23	45	He	135299.007	ppb	0.8	13401623.13	338.0133	Analog	0.1000	3
Mg	24	45	He	6515.272	ppb	0.5	313832.18	7.9154	Pulse	0.1000	3
Al	27	45	He	54056.931	ppb	0.9	808447.12	20.3903	Pulse	0.1000	3
K	39	45	He	5292.485	ppb	1.8	229396.35	5.7858	Pulse	0.5000	3
Ca	44	45	He	16510.114	ppb	1.4	34634.28	0.8735	Pulse	0.5000	3
Ti	47	45	He	21.252	ppb	1.7	362.68	0.0091	Pulse	0.5000	3
V	51	45	He	11.523	ppb	2.6	9070.55	0.2288	Pulse	0.5000	3
Cr	52	45	He	523.471	ppb	0.2	452899.21	11.4228	Pulse	0.1000	3
Mn	55	45	He	110.194	ppb	1.1	40246.00	1.0151	Pulse	0.5000	3
Fe	57	45	He	2996.607	ppb	1.2	47780.90	1.2051	Pulse	0.1000	3
Co	59	45	He	1.111	ppb	3.3	2057.47	0.0519	Pulse	0.5000	3
Ni	60	45	He	233.126	ppb	0.1	109026.16	2.7498	Pulse	0.5000	3
Cu	63	72	He	230.291	ppb	1.3	288901.99	4.5194	Pulse	0.5000	3
Zn	66	72	He	138.254	ppb	1.4	20266.03	0.3170	Pulse	0.5000	3
As	75	72	He	0.799	ppb	4.9	175.33	0.0027	Pulse	0.5000	3
Sr	88	115	He	111.286	ppb	1.8	47334.34	0.9155	Pulse	0.1000	3
Mo	98	115	He	1.273	ppb	2.3	1243.42	0.0240	Pulse	0.1000	3
Ag	107	115	He	0.071	ppb	16.7	203.34	0.0039	Pulse	0.1000	3
Cd	111	115	He	0.164	ppb	3.4	37.33	0.0007	Pulse	0.5000	3
Sn	120	115	He	2.309	ppb	2.1	2070.21	0.0400	Pulse	0.1000	3
Sb	121	115	He	0.316	ppb	13.0	215.56	0.0042	Pulse	0.3000	3
Ba	137	115	He	24.673	ppb	3.0	4997.64	0.0966	Pulse	0.1000	3
Tl	205	159	He	-0.010	ppb	N/A	220.01	0.0011	Pulse	0.1000	3
Pb	208	159	He	27.028	ppb	1.3	130754.54	0.6815	Pulse	0.1000	3
U	238	159	He	0.077	ppb	20.3	383.35	0.0020	Pulse	0.1000	3

ISTD Table:

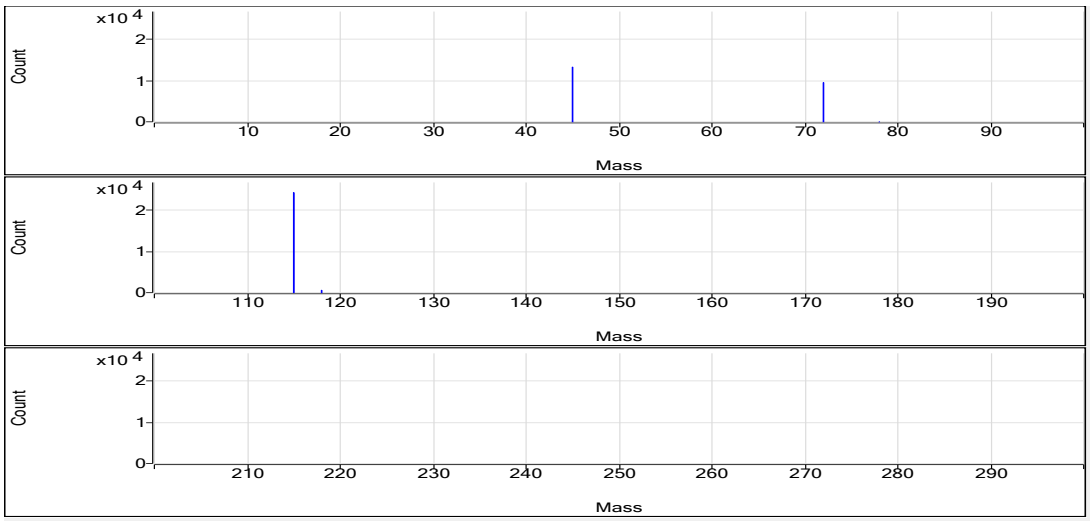
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1617623.67	0.7	94.7	Analog	0.1000	3
No Gas	Ge	72	795129.68	1.0	92.0	Pulse	0.1000	3
H2	Sc	45	133331.13	0.7	99.8	Pulse	0.1000	3
H2	Ge	72	95572.76	0.6	96.5	Pulse	0.1000	3
H2	In	115	243547.24	1.2	94.9	Pulse	0.1000	3
He	Sc	45	39648.61	0.2	100.4	Pulse	0.1000	3
He	Ge	72	63930.73	1.1	93.9	Pulse	0.1000	3
He	In	115	51711.91	1.3	93.3	Pulse	0.1000	3
He	Tb	159	191874.98	0.5	93.7	Pulse	0.1000	3
He	Bi	209	142873.93	0.9	94.5	Pulse	0.1000	3

No Gas

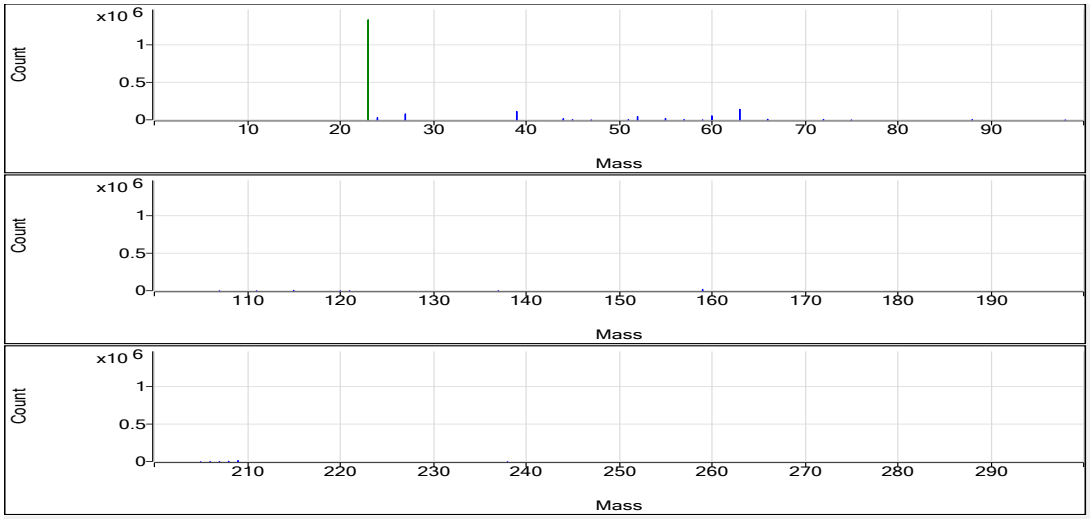


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.012	0	36.00	0.0003	2.616E-05
Be	9	1	No Gas	0.03	0	58.00	0.0003	2.616E-05
Be	9	1	No Gas	0.014	0	50.00	0.0003	2.616E-05
Se	78	2	H2	0.124	0.0001	10.67	0.0004	6.3E-05
Se	78	2	H2	-0.019	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	0.218	0.0001	14.00	0.0004	6.3E-05
Na	23	3	He	136321.359	340.5617	13472113.55	0.0025	0.7502
Na	23	3	He	135503.053	338.5219	13432051.05	0.0025	0.7502
Na	23	3	He	134072.607	334.9562	13300704.80	0.0025	0.7502
Mg	24	3	He	6536.747	7.9414	314148.57	0.0012	0.02618
Mg	24	3	He	6481.446	7.8744	312444.70	0.0012	0.02618
Mg	24	3	He	6527.622	7.9303	314903.26	0.0012	0.02618
Al	27	3	He	53867.768	20.3189	803786.55	0.0004	0.005329
Al	27	3	He	54588.115	20.5906	817003.66	0.0004	0.005329
Al	27	3	He	53714.91	20.2613	804551.16	0.0004	0.005329
K	39	3	He	5379.509	5.8723	232297.75	0.001	0.5307
K	39	3	He	5303.586	5.7969	230011.28	0.001	0.5307
K	39	3	He	5194.36	5.6884	225880.03	0.001	0.5307
Ca	44	3	He	16370.93	0.8662	34265.52	0.0001	0.004441
Ca	44	3	He	16776.965	0.8876	35217.55	0.0001	0.004441
Ca	44	3	He	16382.449	0.8668	34419.77	0.0001	0.004441
Ti	47	3	He	21.014	0.0091	358.01	0.0004	0.0004559
Ti	47	3	He	21.071	0.0091	360.01	0.0004	0.0004559
Ti	47	3	He	21.67	0.0093	370.01	0.0004	0.0004559
V	51	3	He	11.179	0.2227	8810.40	0.0176	0.02609
V	51	3	He	11.688	0.2317	9192.62	0.0176	0.02609
V	51	3	He	11.701	0.2319	9208.64	0.0176	0.02609
Cr	52	3	He	524.029	11.435	452350.27	0.0217	0.05061
Cr	52	3	He	522.345	11.3984	452271.32	0.0217	0.05061
Cr	52	3	He	524.038	11.4352	454076.05	0.0217	0.05061
Mn	55	3	He	111.557	1.0275	40646.30	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	109.83	1.0118	40145.04	0.0091	0.01071
Mn	55	3	He	109.197	1.006	39946.67	0.0091	0.01071
Fe	57	3	He	2988.881	1.202	47550.27	0.0004	0.008452
Fe	57	3	He	3036.102	1.2209	48442.76	0.0004	0.008452
Fe	57	3	He	2964.838	1.1924	47349.66	0.0004	0.008452
Co	59	3	He	1.08	0.0506	2002.13	0.0413	0.006013
Co	59	3	He	1.101	0.0515	2042.14	0.0413	0.006013
Co	59	3	He	1.152	0.0536	2128.15	0.0413	0.006013
Ni	60	3	He	233.263	2.7514	108841.98	0.0117	0.01172
Ni	60	3	He	232.819	2.7462	108965.18	0.0117	0.01172
Ni	60	3	He	233.297	2.7518	109271.31	0.0117	0.01172
Cu	63	3	He	233.854	4.5891	289912.72	0.0196	0.01443
Cu	63	3	He	228.436	4.4831	289025.16	0.0196	0.01443
Cu	63	3	He	228.582	4.486	287768.09	0.0196	0.01443
Zn	66	3	He	140.24	0.3215	20312.78	0.0023	0.002807
Zn	66	3	He	138.231	0.317	20434.91	0.0023	0.002807
Zn	66	3	He	136.292	0.3126	20050.41	0.0023	0.002807
As	75	3	He	0.754	0.0027	168.00	0.0018	0.001271
As	75	3	He	0.826	0.0028	180.00	0.0018	0.001271
As	75	3	He	0.817	0.0028	178.00	0.0018	0.001271
Sr	88	3	He	112.861	0.9284	47461.41	0.0082	0.00114
Sr	88	3	He	111.996	0.9213	47541.44	0.0082	0.00114
Sr	88	3	He	109	0.8967	47000.17	0.0082	0.00114
Mo	98	3	He	1.296	0.0245	1250.10	0.0177	0.001504
Mo	98	3	He	1.283	0.0242	1250.09	0.0177	0.001504
Mo	98	3	He	1.24	0.0235	1230.08	0.0177	0.001504
Ag	107	3	He	0.06	0.0035	180.01	0.0368	0.001325
Ag	107	3	He	0.069	0.0039	200.01	0.0368	0.001325
Ag	107	3	He	0.083	0.0044	230.01	0.0368	0.001325
Cd	111	3	He	0.17	0.0007	38.00	0.0041	4.798E-05
Cd	111	3	He	0.158	0.0007	36.00	0.0041	4.798E-05
Cd	111	3	He	0.165	0.0007	38.00	0.0041	4.798E-05
Sn	120	3	He	2.331	0.0403	2060.22	0.0126	0.01097
Sn	120	3	He	2.255	0.0393	2030.20	0.0126	0.01097
Sn	120	3	He	2.343	0.0405	2120.22	0.0126	0.01097
Sb	121	3	He	0.306	0.004	206.67	0.012	0.0003595
Sb	121	3	He	0.362	0.0047	243.34	0.012	0.0003595
Sb	121	3	He	0.282	0.0038	196.67	0.012	0.0003595
Ba	137	3	He	23.827	0.0933	4770.93	0.0039	0.0003633
Ba	137	3	He	25.144	0.0985	5080.96	0.0039	0.0003633
Ba	137	3	He	25.047	0.0981	5141.03	0.0039	0.0003633
Tl	205	3	He	-0.001	0.0013	250.01	0.0189	0.001334
Tl	205	3	He	-0.013	0.0011	210.01	0.0189	0.001334
Tl	205	3	He	-0.015	0.001	200.01	0.0189	0.001334
Pb	208	3	He	27.326	0.6889	70972.52	0.0252	0.001497
Pb	208	3	He	27.117	0.6837	70741.68	0.0252	0.001497
Pb	208	3	He	26.643	0.6718	69988.48	0.0252	0.001497
U	238	3	He	0.076	0.002	380.02	0.0245	0.0001141
U	238	3	He	0.092	0.0024	460.02	0.0245	0.0001141
U	238	3	He	0.061	0.0016	310.01	0.0245	0.0001141
Sc	45	1	No Gas			1625584.82		
Sc	45	1	No Gas			1604281.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1623004.66		
Ge	72	1	No Gas			799360.93		
Ge	72	1	No Gas			785786.16		
Ge	72	1	No Gas			800241.94		
Sc	45	2	H2			133387.90		
Sc	45	2	H2			134195.11		
Sc	45	2	H2			132410.39		
Ge	72	2	H2			96125.86		
Ge	72	2	H2			95612.99		
Ge	72	2	H2			94979.44		
In	115	2	H2			246704.59		
In	115	2	H2			241008.06		
In	115	2	H2			242929.08		
Sc	45	3	He			39558.51		
Sc	45	3	He			39678.53		
Sc	45	3	He			39708.79		
Ge	72	3	He			63174.06		
Ge	72	3	He			64469.60		
Ge	72	3	He			64148.52		
In	115	3	He			51134.58		
In	115	3	He			51615.69		
In	115	3	He			52428.94		
Tb	159	3	He			191175.25		
Tb	159	3	He			193012.05		
Tb	159	3	He			191437.63		
Bi	209	3	He			141671.23		
Bi	209	3	He			142764.42		
Bi	209	3	He			144186.14		

Quantitation Report

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Sample Type	Sample
Comment	MS G9 RR
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

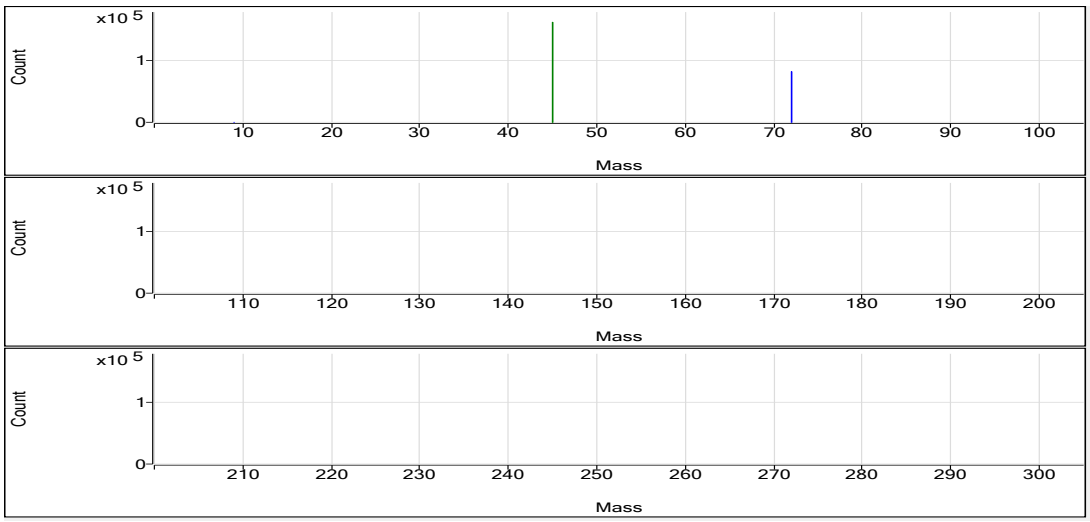
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.022	ppb	N/A	30.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.257	ppb	37.8	16.22	0.0002	Pulse	1.5000	3
Na	23	45	He	114917.310	ppb	1.3	11185584.41	287.2073	Analog	0.1000	3
Mg	24	45	He	12040.290	ppb	1.7	568816.22	14.6055	Pulse	0.1000	3
Al	27	45	He	114.288	ppb	9.8	1886.84	0.0484	Pulse	0.1000	3
K	39	45	He	2704.555	ppb	2.8	125258.04	3.2162	Pulse	0.5000	3
Ca	44	45	He	28323.767	ppb	1.5	58238.92	1.4954	Pulse	0.5000	3
Ti	47	45	He	-0.073	ppb	N/A	16.67	0.0004	Pulse	0.5000	3
V	51	45	He	0.173	ppb	52.3	1134.71	0.0291	Pulse	0.5000	3
Cr	52	45	He	0.354	ppb	22.5	2270.23	0.0583	Pulse	0.1000	3
Mn	55	45	He	0.545	ppb	10.3	610.69	0.0157	Pulse	0.5000	3
Fe	57	45	He	92.634	ppb	4.3	1770.17	0.0454	Pulse	0.1000	3
Co	59	45	He	0.021	ppb	42.2	267.33	0.0069	Pulse	0.5000	3
Ni	60	45	He	0.313	ppb	5.9	599.35	0.0154	Pulse	0.5000	3
Cu	63	72	He	2.205	ppb	5.4	3802.46	0.0576	Pulse	0.5000	3
Zn	66	72	He	37.855	ppb	3.1	5868.43	0.0888	Pulse	0.5000	3
As	75	72	He	2.437	ppb	14.6	380.01	0.0058	Pulse	0.5000	3
Sr	88	115	He	50.577	ppb	1.5	22119.33	0.4167	Pulse	0.1000	3
Mo	98	115	He	16.624	ppb	2.9	15708.32	0.2959	Pulse	0.1000	3
Ag	107	115	He	-0.005	ppb	N/A	60.00	0.0011	Pulse	0.1000	3
Cd	111	115	He	0.010	ppb	145.3	4.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.077	ppb	52.8	633.37	0.0119	Pulse	0.1000	3
Sb	121	115	He	0.276	ppb	12.6	195.56	0.0037	Pulse	0.3000	3
Ba	137	115	He	6.505	ppb	11.9	1366.77	0.0257	Pulse	0.1000	3
Tl	205	159	He	-0.047	ppb	N/A	86.67	0.0004	Pulse	0.1000	3
Pb	208	159	He	0.051	ppb	8.6	540.02	0.0028	Pulse	0.1000	3
U	238	159	He	0.138	ppb	10.6	680.04	0.0035	Pulse	0.1000	3

ISTD Table:

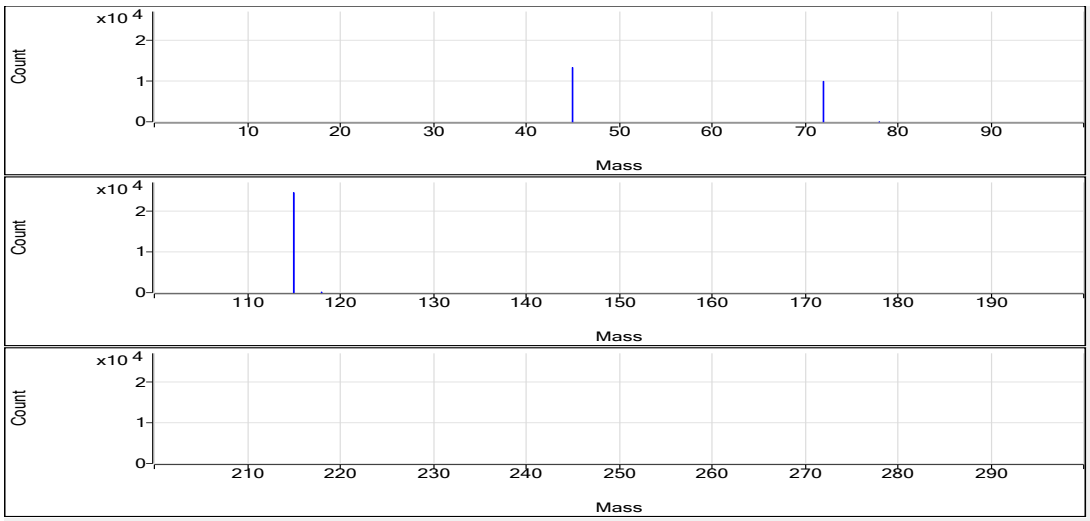
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1632717.27	0.9	95.6	Analog	0.1000	3
No Gas	Ge	72	827688.82	1.0	95.8	Pulse	0.1000	3
H2	Sc	45	133392.03	1.1	99.8	Pulse	0.1000	3
H2	Ge	72	99581.09	0.2	100.5	Pulse	0.1000	3
H2	In	115	245759.84	0.8	95.7	Pulse	0.1000	3
He	Sc	45	38950.13	1.2	98.7	Pulse	0.1000	3
He	Ge	72	66076.27	1.7	97.0	Pulse	0.1000	3
He	In	115	53089.95	1.4	95.8	Pulse	0.1000	3
He	Tb	159	193559.63	0.6	94.5	Pulse	0.1000	3
He	Bi	209	140945.84	0.5	93.2	Pulse	0.1000	3

No Gas

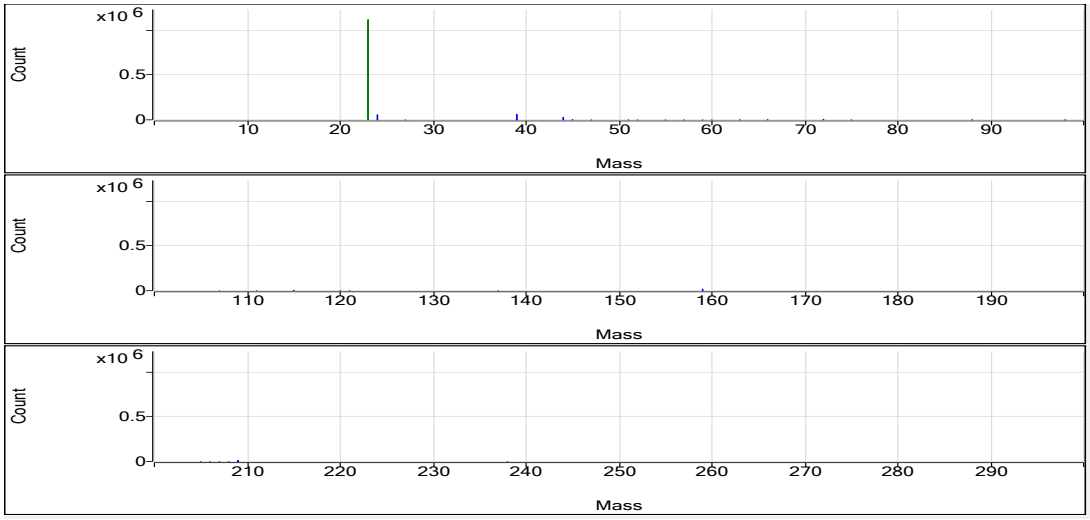


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.024	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.023	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.02	0	32.00	0.0003	2.616E-05
Se	78	2	H2	0.338	0.0002	19.33	0.0004	6.3E-05
Se	78	2	H2	0.149	0.0001	12.00	0.0004	6.3E-05
Se	78	2	H2	0.286	0.0002	17.33	0.0004	6.3E-05
Na	23	3	He	113785.985	284.3872	11152984.83	0.0025	0.7502
Na	23	3	He	116654.379	291.5374	11196643.58	0.0025	0.7502
Na	23	3	He	114311.566	285.6974	11207124.83	0.0025	0.7502
Mg	24	3	He	11829.152	14.3498	562764.95	0.0012	0.02618
Mg	24	3	He	12249.491	14.8588	570659.33	0.0012	0.02618
Mg	24	3	He	12042.225	14.6078	573024.37	0.0012	0.02618
Al	27	3	He	106.913	0.0456	1790.15	0.0004	0.005329
Al	27	3	He	108.783	0.0464	1780.16	0.0004	0.005329
Al	27	3	He	127.167	0.0533	2090.20	0.0004	0.005329
K	39	3	He	2748.756	3.26	127851.17	0.001	0.5307
K	39	3	He	2746.774	3.2581	125128.16	0.001	0.5307
K	39	3	He	2618.133	3.1303	122794.78	0.001	0.5307
Ca	44	3	He	28023.339	1.4796	58025.40	0.0001	0.004441
Ca	44	3	He	28792.536	1.5201	58378.91	0.0001	0.004441
Ca	44	3	He	28155.426	1.4865	58312.44	0.0001	0.004441
Ti	47	3	He	0.382	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	-0.733	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	0.132	0.0005	20.00	0.0004	0.0004559
V	51	3	He	0.076	0.0274	1076.04	0.0176	0.02609
V	51	3	He	0.186	0.0294	1128.05	0.0176	0.02609
V	51	3	He	0.256	0.0306	1200.05	0.0176	0.02609
Cr	52	3	He	0.382	0.0589	2310.23	0.0217	0.05061
Cr	52	3	He	0.415	0.0596	2290.23	0.0217	0.05061
Cr	52	3	He	0.264	0.0563	2210.22	0.0217	0.05061
Mn	55	3	He	0.481	0.0151	592.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.568	0.0159	610.02	0.0091	0.01071
Mn	55	3	He	0.587	0.0161	630.02	0.0091	0.01071
Fe	57	3	He	96.974	0.0472	1850.19	0.0004	0.008452
Fe	57	3	He	91.645	0.045	1730.16	0.0004	0.008452
Fe	57	3	He	89.282	0.0441	1730.16	0.0004	0.008452
Co	59	3	He	0.011	0.0065	254.00	0.0413	0.006013
Co	59	3	He	0.028	0.0072	276.00	0.0413	0.006013
Co	59	3	He	0.022	0.0069	272.00	0.0413	0.006013
Ni	60	3	He	0.309	0.0154	602.02	0.0117	0.01172
Ni	60	3	He	0.333	0.0156	600.02	0.0117	0.01172
Ni	60	3	He	0.296	0.0152	596.02	0.0117	0.01172
Cu	63	3	He	2.155	0.0566	3800.46	0.0196	0.01443
Cu	63	3	He	2.34	0.0602	3910.49	0.0196	0.01443
Cu	63	3	He	2.119	0.0559	3696.44	0.0196	0.01443
Zn	66	3	He	36.631	0.0861	5779.06	0.0023	0.002807
Zn	66	3	He	39.004	0.0915	5939.12	0.0023	0.002807
Zn	66	3	He	37.931	0.089	5887.11	0.0023	0.002807
As	75	3	He	2.028	0.005	336.01	0.0018	0.001271
As	75	3	He	2.622	0.0061	396.01	0.0018	0.001271
As	75	3	He	2.661	0.0062	408.01	0.0018	0.001271
Sr	88	3	He	50.821	0.4187	22076.04	0.0082	0.00114
Sr	88	3	He	49.737	0.4098	22095.85	0.0082	0.00114
Sr	88	3	He	51.173	0.4216	22186.10	0.0082	0.00114
Mo	98	3	He	16.596	0.2955	15578.18	0.0177	0.001504
Mo	98	3	He	16.154	0.2876	15508.19	0.0177	0.001504
Mo	98	3	He	17.122	0.3048	16038.60	0.0177	0.001504
Ag	107	3	He	0.016	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	-0.006	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	0.025	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	0.006	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.123	0.0125	660.03	0.0126	0.01097
Sn	120	3	He	0.057	0.0117	630.04	0.0126	0.01097
Sn	120	3	He	0.05	0.0116	610.03	0.0126	0.01097
Sb	121	3	He	0.275	0.0037	193.34	0.012	0.0003595
Sb	121	3	He	0.242	0.0033	176.67	0.012	0.0003595
Sb	121	3	He	0.312	0.0041	216.67	0.012	0.0003595
Ba	137	3	He	7.296	0.0288	1520.12	0.0039	0.0003633
Ba	137	3	He	6.467	0.0256	1380.10	0.0039	0.0003633
Ba	137	3	He	5.752	0.0228	1200.08	0.0039	0.0003633
Tl	205	3	He	-0.04	0.0006	110.01	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	0.055	0.0029	320.02	0.0252	0.001497
Pb	208	3	He	0.047	0.0027	260.01	0.0252	0.001497
Pb	208	3	He	0.052	0.0028	280.01	0.0252	0.001497
U	238	3	He	0.122	0.0031	600.04	0.0245	0.0001141
U	238	3	He	0.146	0.0037	720.04	0.0245	0.0001141
U	238	3	He	0.148	0.0037	720.05	0.0245	0.0001141
Sc	45	1	No Gas			1644555.60		
Sc	45	1	No Gas			1617062.32		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1636533.88		
Ge	72	1	No Gas			831524.52		
Ge	72	1	No Gas			817813.74		
Ge	72	1	No Gas			833728.19		
Sc	45	2	H2			131796.85		
Sc	45	2	H2			134567.21		
Sc	45	2	H2			133812.04		
Ge	72	2	H2			99698.18		
Ge	72	2	H2			99365.99		
Ge	72	2	H2			99679.11		
In	115	2	H2			244350.05		
In	115	2	H2			248145.86		
In	115	2	H2			244783.61		
Sc	45	3	He			39217.60		
Sc	45	3	He			38405.52		
Sc	45	3	He			39227.26		
Ge	72	3	He			67150.65		
Ge	72	3	He			64941.62		
Ge	72	3	He			66136.54		
In	115	3	He			52729.87		
In	115	3	He			53924.15		
In	115	3	He			52629.13		
Tb	159	3	He			193719.61		
Tb	159	3	He			194649.53		
Tb	159	3	He			192309.76		
Bi	209	3	He			140541.66		
Bi	209	3	He			141733.82		
Bi	209	3	He			140562.05		

Quantitation Report

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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

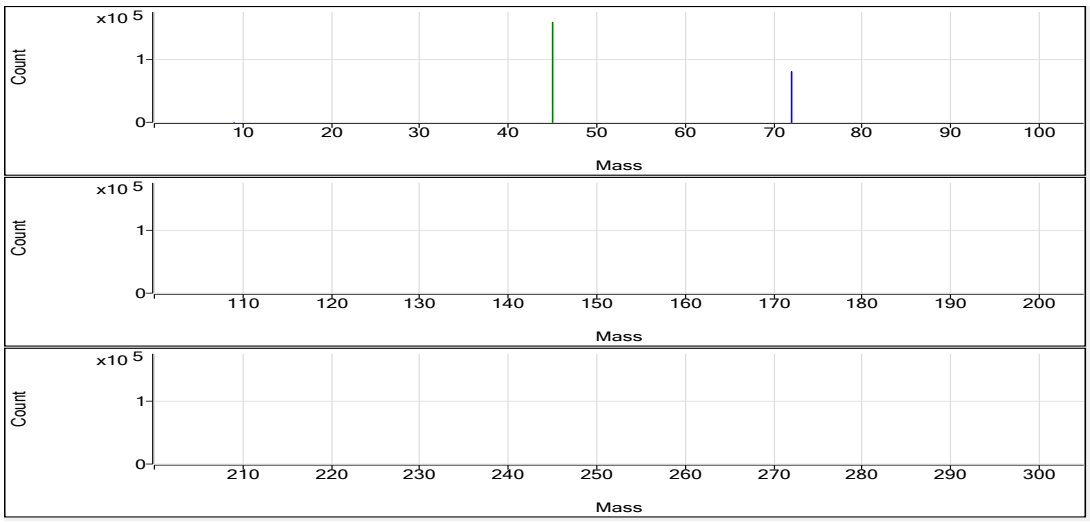
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.013	ppb	N/A	34.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	2.679	ppb	2.4	107.11	0.0011	Pulse	1.5000	3
Na	23	45	He	414579.907	ppb	1.9	40508971.06	1,034.1835	Analog	0.1000	3
Mg	24	45	He	14297.851	ppb	1.6	679206.71	17.3391	Pulse	0.1000	3
Al	27	45	He	91.872	ppb	11.0	1566.83	0.0400	Pulse	0.1000	3
K	39	45	He	7755.768	ppb	0.8	322476.40	8.2318	Pulse	0.5000	3
Ca	44	45	He	67596.493	ppb	1.6	139555.02	3.5627	Pulse	0.5000	3
Ti	47	45	He	0.720	ppb	47.5	29.33	0.0008	Pulse	0.5000	3
V	51	45	He	2.772	ppb	1.3	2932.28	0.0748	Pulse	0.5000	3
Cr	52	45	He	2.163	ppb	1.9	3823.90	0.0976	Pulse	0.1000	3
Mn	55	45	He	22.342	ppb	1.2	8397.53	0.2143	Pulse	0.5000	3
Fe	57	45	He	92.471	ppb	13.5	1776.83	0.0454	Pulse	0.1000	3
Co	59	45	He	0.059	ppb	26.2	331.34	0.0085	Pulse	0.5000	3
Ni	60	45	He	0.761	ppb	11.1	809.36	0.0207	Pulse	0.5000	3
Cu	63	72	He	9.741	ppb	2.1	13553.04	0.2050	Pulse	0.5000	3
Zn	66	72	He	116.149	ppb	2.2	17638.31	0.2668	Pulse	0.5000	3
As	75	72	He	4.128	ppb	3.8	586.68	0.0089	Pulse	0.5000	3
Sr	88	115	He	392.104	ppb	1.2	169396.11	3.2228	Pulse	0.1000	3
Mo	98	115	He	4.799	ppb	1.3	4547.46	0.0865	Pulse	0.1000	3
Ag	107	115	He	0.061	ppb	44.0	186.68	0.0036	Pulse	0.1000	3
Cd	111	115	He	0.056	ppb	81.5	14.67	0.0003	Pulse	0.5000	3
Sn	120	115	He	-0.009	ppb	N/A	570.03	0.0108	Pulse	0.1000	3
Sb	121	115	He	2.229	ppb	6.1	1431.19	0.0272	Pulse	0.3000	3
Ba	137	115	He	77.235	ppb	1.3	15858.61	0.3017	Pulse	0.1000	3
Tl	205	159	He	-0.045	ppb	N/A	90.00	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.441	ppb	6.9	2386.84	0.0126	Pulse	0.1000	3
U	238	159	He	1.030	ppb	3.8	4810.96	0.0254	Pulse	0.1000	3

ISTD Table:

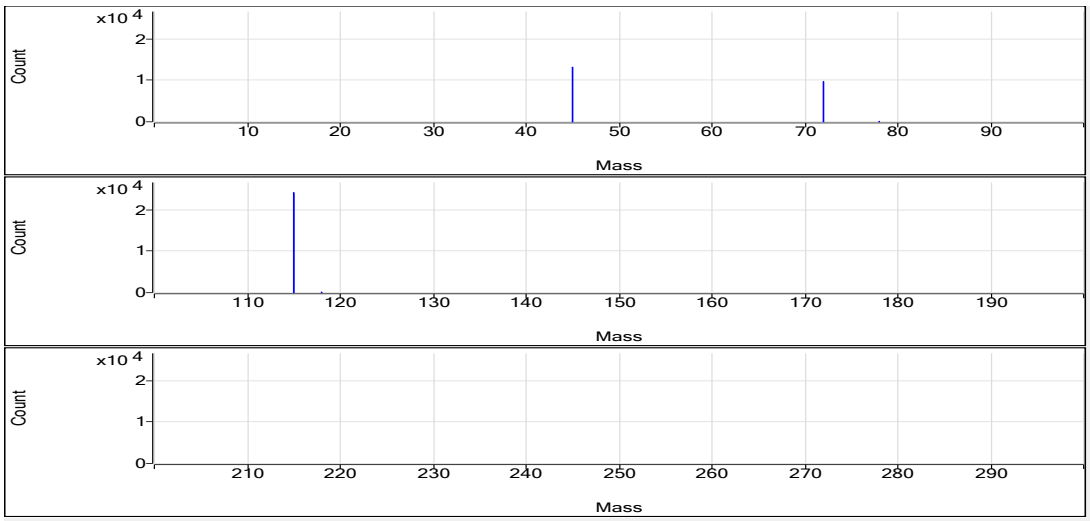
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1599307.53	3.1	93.6	Analog	0.1000	3
No Gas	Ge	72	810996.19	1.5	93.9	Pulse	0.1000	3
H2	Sc	45	132078.42	0.6	98.8	Pulse	0.1000	3
H2	Ge	72	97206.70	0.9	98.1	Pulse	0.1000	3
H2	In	115	241303.14	1.2	94.0	Pulse	0.1000	3
He	Sc	45	39177.76	1.6	99.3	Pulse	0.1000	3
He	Ge	72	66129.83	1.6	97.1	Pulse	0.1000	3
He	In	115	52565.45	1.1	94.9	Pulse	0.1000	3
He	Tb	159	189475.01	0.7	92.5	Pulse	0.1000	3
He	Bi	209	138987.04	0.9	91.9	Pulse	0.1000	3

No Gas

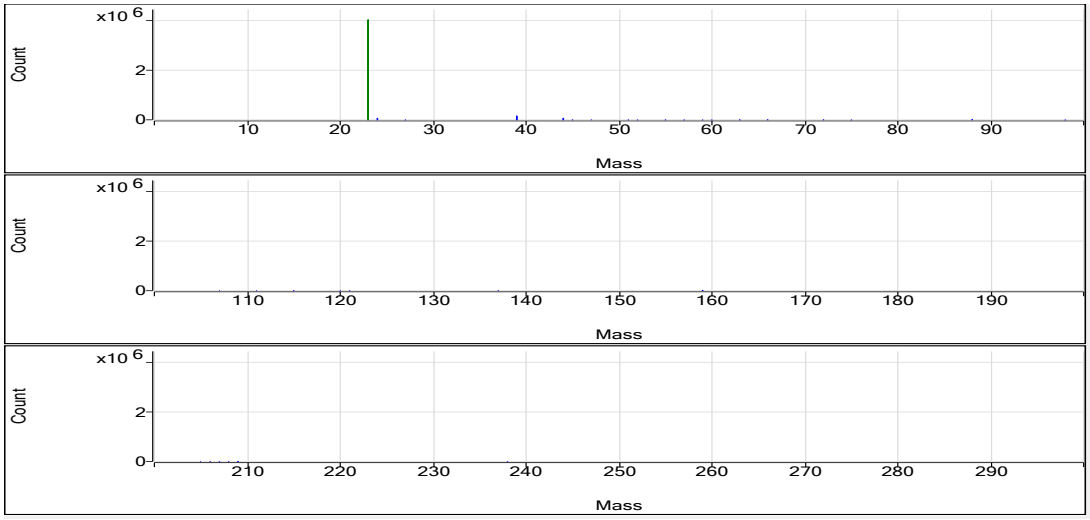


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.005	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.026	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.009	0	38.00	0.0003	2.616E-05
Se	78	2	H2	2.748	0.0011	108.67	0.0004	6.3E-05
Se	78	2	H2	2.624	0.0011	106.00	0.0004	6.3E-05
Se	78	2	H2	2.666	0.0011	106.67	0.0004	6.3E-05
Na	23	3	He	406777.231	1014.7335	40283754.40	0.0025	0.7502
Na	23	3	He	414266.891	1033.4032	40652314.39	0.0025	0.7502
Na	23	3	He	422695.6	1054.4136	40590844.40	0.0025	0.7502
Mg	24	3	He	14047.273	17.0357	676296.63	0.0012	0.02618
Mg	24	3	He	14361.614	17.4163	685127.49	0.0012	0.02618
Mg	24	3	He	14484.664	17.5653	676196.01	0.0012	0.02618
Al	27	3	He	88.745	0.0388	1540.13	0.0004	0.005329
Al	27	3	He	103.178	0.0442	1740.25	0.0004	0.005329
Al	27	3	He	83.693	0.0369	1420.12	0.0004	0.005329
K	39	3	He	7701.427	8.1778	324649.69	0.001	0.5307
K	39	3	He	7740.619	8.2167	323231.97	0.001	0.5307
K	39	3	He	7825.259	8.3008	319547.53	0.001	0.5307
Ca	44	3	He	66766.265	3.519	139699.61	0.0001	0.004441
Ca	44	3	He	67222.175	3.543	139374.88	0.0001	0.004441
Ca	44	3	He	68801.039	3.6261	139590.56	0.0001	0.004441
Ti	47	3	He	0.364	0.0006	24.00	0.0004	0.0004559
Ti	47	3	He	0.75	0.0008	30.00	0.0004	0.0004559
Ti	47	3	He	1.045	0.0009	34.00	0.0004	0.0004559
V	51	3	He	2.779	0.075	2976.28	0.0176	0.02609
V	51	3	He	2.734	0.0742	2918.28	0.0176	0.02609
V	51	3	He	2.803	0.0754	2902.27	0.0176	0.02609
Cr	52	3	He	2.193	0.0983	3900.57	0.0217	0.05061
Cr	52	3	He	2.118	0.0966	3800.57	0.0217	0.05061
Cr	52	3	He	2.179	0.0979	3770.57	0.0217	0.05061
Mn	55	3	He	22.118	0.2123	8428.21	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	22.633	0.217	8536.27	0.0091	0.01071
Mn	55	3	He	22.275	0.2137	8228.11	0.0091	0.01071
Fe	57	3	He	95.541	0.0466	1850.18	0.0004	0.008452
Fe	57	3	He	78.783	0.0399	1570.13	0.0004	0.008452
Fe	57	3	He	103.09	0.0496	1910.18	0.0004	0.008452
Co	59	3	He	0.076	0.0092	364.01	0.0413	0.006013
Co	59	3	He	0.054	0.0082	324.01	0.0413	0.006013
Co	59	3	He	0.047	0.0079	306.01	0.0413	0.006013
Ni	60	3	He	0.834	0.0215	854.03	0.0117	0.01172
Ni	60	3	He	0.669	0.0196	770.02	0.0117	0.01172
Ni	60	3	He	0.781	0.0209	804.03	0.0117	0.01172
Cu	63	3	He	9.753	0.2052	13685.82	0.0196	0.01443
Cu	63	3	He	9.942	0.2089	13557.71	0.0196	0.01443
Cu	63	3	He	9.527	0.2008	13415.58	0.0196	0.01443
Zn	66	3	He	114.183	0.2623	17493.49	0.0023	0.002807
Zn	66	3	He	119.035	0.2733	17737.75	0.0023	0.002807
Zn	66	3	He	115.228	0.2647	17683.69	0.0023	0.002807
As	75	3	He	4.083	0.0088	586.01	0.0018	0.001271
As	75	3	He	3.998	0.0086	560.01	0.0018	0.001271
As	75	3	He	4.302	0.0092	614.02	0.0018	0.001271
Sr	88	3	He	397.404	3.2663	170120.00	0.0082	0.00114
Sr	88	3	He	388.829	3.1958	167575.08	0.0082	0.00114
Sr	88	3	He	390.08	3.2061	170493.24	0.0082	0.00114
Mo	98	3	He	4.794	0.0864	4500.80	0.0177	0.001504
Mo	98	3	He	4.74	0.0855	4480.77	0.0177	0.001504
Mo	98	3	He	4.863	0.0876	4660.82	0.0177	0.001504
Ag	107	3	He	0.089	0.0046	240.01	0.0368	0.001325
Ag	107	3	He	0.037	0.0027	140.01	0.0368	0.001325
Ag	107	3	He	0.056	0.0034	180.01	0.0368	0.001325
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	0.109	0.0005	26.00	0.0041	4.798E-05
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.09	0.0121	630.04	0.0126	0.01097
Sn	120	3	He	-0.083	0.0099	520.03	0.0126	0.01097
Sn	120	3	He	-0.034	0.0105	560.03	0.0126	0.01097
Sb	121	3	He	2.106	0.0257	1340.07	0.012	0.0003595
Sb	121	3	He	2.208	0.027	1413.41	0.012	0.0003595
Sb	121	3	He	2.374	0.029	1540.09	0.012	0.0003595
Ba	137	3	He	78.244	0.3056	15918.83	0.0039	0.0003633
Ba	137	3	He	76.201	0.2977	15608.32	0.0039	0.0003633
Ba	137	3	He	77.259	0.3018	16048.69	0.0039	0.0003633
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.037	0.0006	120.01	0.0189	0.001334
Pb	208	3	He	0.467	0.0133	1500.14	0.0252	0.001497
Pb	208	3	He	0.448	0.0128	1240.10	0.0252	0.001497
Pb	208	3	He	0.408	0.0118	1210.09	0.0252	0.001497
U	238	3	He	0.984	0.0243	4580.86	0.0245	0.0001141
U	238	3	He	1.055	0.026	4971.02	0.0245	0.0001141
U	238	3	He	1.049	0.0259	4881.00	0.0245	0.0001141
Sc	45	1	No Gas			1551112.79		
Sc	45	1	No Gas			1597295.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1649514.04		
Ge	72	1	No Gas			804658.43		
Ge	72	1	No Gas			802901.16		
Ge	72	1	No Gas			825428.97		
Sc	45	2	H2			133025.94		
Sc	45	2	H2			131534.14		
Sc	45	2	H2			131675.17		
Ge	72	2	H2			96277.58		
Ge	72	2	H2			98109.01		
Ge	72	2	H2			97233.50		
In	115	2	H2			241234.96		
In	115	2	H2			238469.10		
In	115	2	H2			244205.35		
Sc	45	3	He			39698.85		
Sc	45	3	He			39338.29		
Sc	45	3	He			38496.13		
Ge	72	3	He			66688.54		
Ge	72	3	He			64891.87		
Ge	72	3	He			66809.08		
In	115	3	He			52087.87		
In	115	3	He			52439.04		
In	115	3	He			53181.40		
Tb	159	3	He			188655.68		
Tb	159	3	He			191033.24		
Tb	159	3	He			188736.11		
Bi	209	3	He			137583.64		
Bi	209	3	He			139925.95		
Bi	209	3	He			139451.54		

Quantitation Report

Data File Name	328SMPL.d
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Sample Type	Sample
Comment	MS G9 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

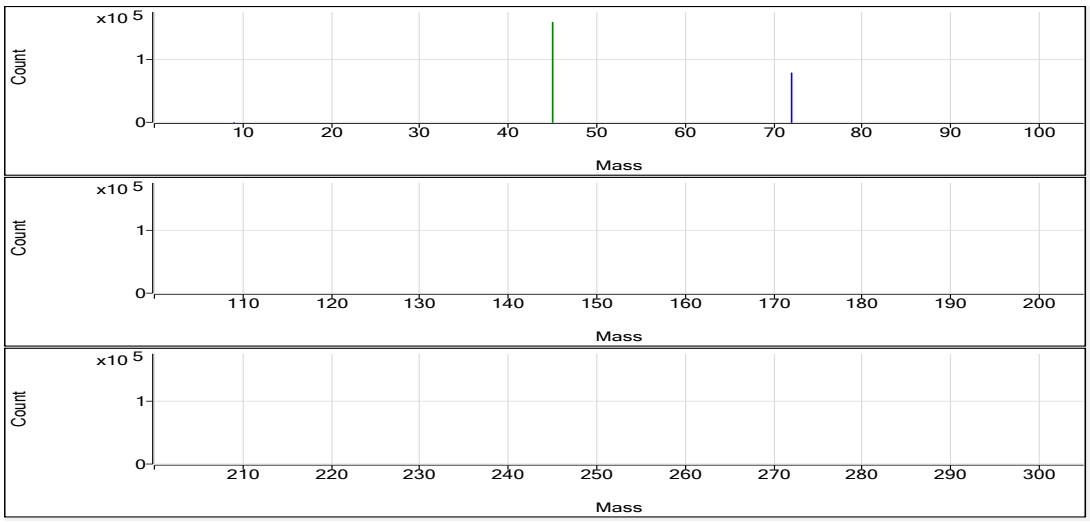
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.036	ppb	N/A	22.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	1.591	ppb	7.8	64.89	0.0007	Pulse	1.5000	3
Na	23	45	He	653333.981	ppb	0.8	62208975.74	1,629.3315	Analog	0.1000	3
Mg	24	45	He	83930.454	ppb	0.4	3881346.92	101.6555	Analog	0.1000	3
Al	27	45	He	17.790	ppb	51.8	460.05	0.0120	Pulse	0.1000	3
K	39	45	He	3817.415	ppb	2.0	164981.59	4.3212	Pulse	0.5000	3
Ca	44	45	He	221314.634	ppb	0.3	444990.16	11.6543	Pulse	0.5000	3
Ti	47	45	He	-0.688	ppb	N/A	6.67	0.0002	Pulse	0.5000	3
V	51	45	He	-0.184	ppb	N/A	872.69	0.0229	Pulse	0.5000	3
Cr	52	45	He	0.279	ppb	49.7	2163.55	0.0567	Pulse	0.1000	3
Mn	55	45	He	0.739	ppb	31.1	666.02	0.0174	Pulse	0.5000	3
Fe	57	45	He	12.921	ppb	47.0	520.03	0.0136	Pulse	0.1000	3
Co	59	45	He	0.017	ppb	129.1	256.00	0.0067	Pulse	0.5000	3
Ni	60	45	He	0.168	ppb	40.5	522.68	0.0137	Pulse	0.5000	3
Cu	63	72	He	0.249	ppb	16.6	1219.39	0.0193	Pulse	0.5000	3
Zn	66	72	He	1.161	ppb	5.9	344.01	0.0054	Pulse	0.5000	3
As	75	72	He	0.501	ppb	30.0	138.67	0.0022	Pulse	0.5000	3
Sr	88	115	He	2030.399	ppb	1.5	856921.47	16.6833	Pulse	0.1000	3
Mo	98	115	He	0.996	ppb	3.9	983.40	0.0191	Pulse	0.1000	3
Ag	107	115	He	-0.020	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Cd	111	115	He	0.007	ppb	4.0	4.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.005	ppb	1486.7	566.70	0.0110	Pulse	0.1000	3
Sb	121	115	He	0.146	ppb	18.9	108.89	0.0021	Pulse	0.3000	3
Ba	137	115	He	130.448	ppb	2.8	26162.98	0.5093	Pulse	0.1000	3
Tl	205	159	He	-0.037	ppb	N/A	120.00	0.0006	Pulse	0.1000	3
Pb	208	159	He	0.015	ppb	208.4	350.01	0.0019	Pulse	0.1000	3
U	238	159	He	1.587	ppb	3.9	7325.44	0.0391	Pulse	0.1000	3

ISTD Table:

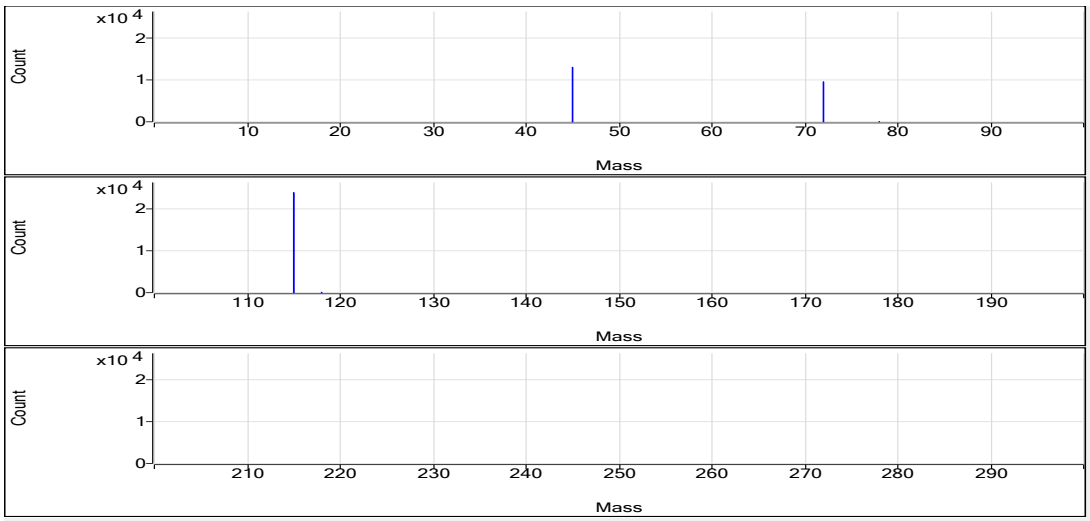
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1600671.96	0.9	93.7	Analog	0.1000	3
No Gas	Ge	72	789784.26	0.6	91.4	Pulse	0.1000	3
H2	Sc	45	130377.91	1.2	97.6	Pulse	0.1000	3
H2	Ge	72	95482.45	1.4	96.4	Pulse	0.1000	3
H2	In	115	238841.90	1.0	93.1	Pulse	0.1000	3
He	Sc	45	38181.91	0.6	96.7	Pulse	0.1000	3
He	Ge	72	63181.33	0.6	92.8	Pulse	0.1000	3
He	In	115	51371.51	1.5	92.7	Pulse	0.1000	3
He	Tb	159	187437.46	1.0	91.5	Pulse	0.1000	3
He	Bi	209	134428.29	0.9	88.9	Pulse	0.1000	3

No Gas

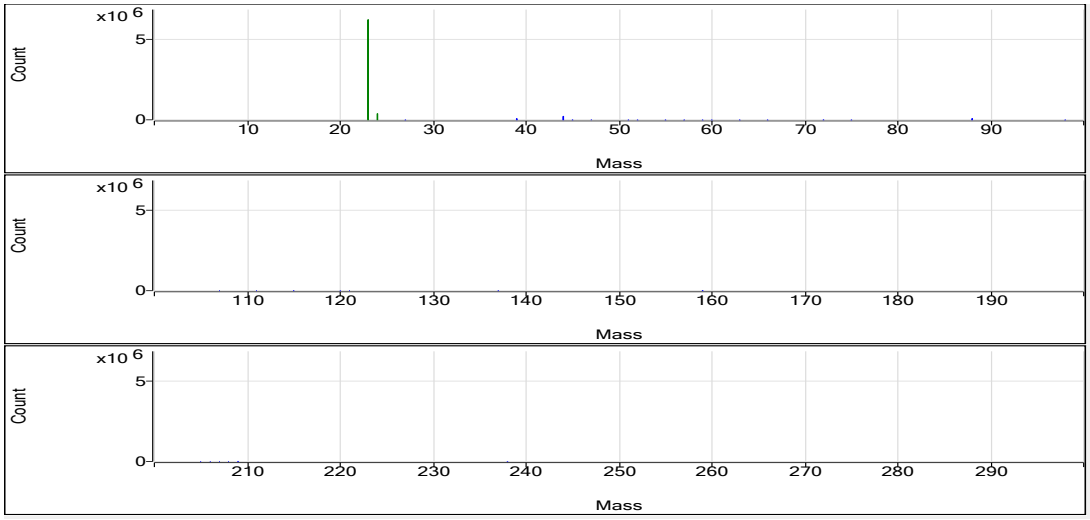


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.044	0	18.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.044	0	18.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Se	78	2	H2	1.728	0.0007	69.33	0.0004	6.3E-05
Se	78	2	H2	1.486	0.0006	62.00	0.0004	6.3E-05
Se	78	2	H2	1.559	0.0007	63.33	0.0004	6.3E-05
Na	23	3	He	658344.591	1641.8215	62380434.07	0.0025	0.7502
Na	23	3	He	653815.842	1630.5326	62131249.07	0.0025	0.7502
Na	23	3	He	647841.511	1615.6402	62115244.07	0.0025	0.7502
Mg	24	3	He	83986.09	101.7228	3864923.38	0.0012	0.02618
Mg	24	3	He	84242.839	102.0337	3887982.75	0.0012	0.02618
Mg	24	3	He	83562.433	101.2098	3891134.63	0.0012	0.02618
Al	27	3	He	17.276	0.0118	450.02	0.0004	0.005329
Al	27	3	He	8.835	0.0087	330.03	0.0004	0.005329
Al	27	3	He	27.259	0.0156	600.10	0.0004	0.005329
K	39	3	He	3907.357	4.4105	167574.66	0.001	0.5307
K	39	3	He	3778.534	4.2826	163186.66	0.001	0.5307
K	39	3	He	3766.354	4.2705	164183.45	0.001	0.5307
Ca	44	3	He	220946.065	11.6349	442065.16	0.0001	0.004441
Ca	44	3	He	220896.65	11.6323	443248.56	0.0001	0.004441
Ca	44	3	He	222101.186	11.6957	449656.75	0.0001	0.004441
Ti	47	3	He	-0.729	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.73	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.606	0.0002	8.00	0.0004	0.0004559
V	51	3	He	-0.269	0.0214	812.02	0.0176	0.02609
V	51	3	He	-0.12	0.024	914.03	0.0176	0.02609
V	51	3	He	-0.164	0.0232	892.03	0.0176	0.02609
Cr	52	3	He	0.178	0.0545	2070.18	0.0217	0.05061
Cr	52	3	He	0.437	0.0601	2290.25	0.0217	0.05061
Cr	52	3	He	0.221	0.0554	2130.22	0.0217	0.05061
Mn	55	3	He	0.91	0.019	722.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.478	0.0151	574.01	0.0091	0.01071
Mn	55	3	He	0.828	0.0183	702.02	0.0091	0.01071
Fe	57	3	He	12.449	0.0134	510.03	0.0004	0.008452
Fe	57	3	He	7.094	0.0113	430.02	0.0004	0.008452
Fe	57	3	He	19.219	0.0161	620.03	0.0004	0.008452
Co	59	3	He	0.04	0.0077	292.00	0.0413	0.006013
Co	59	3	He	-0.002	0.0059	226.00	0.0413	0.006013
Co	59	3	He	0.012	0.0065	250.00	0.0413	0.006013
Ni	60	3	He	0.096	0.0128	488.01	0.0117	0.01172
Ni	60	3	He	0.231	0.0144	550.01	0.0117	0.01172
Ni	60	3	He	0.176	0.0138	530.01	0.0117	0.01172
Cu	63	3	He	0.276	0.0198	1262.06	0.0196	0.01443
Cu	63	3	He	0.269	0.0197	1240.06	0.0196	0.01443
Cu	63	3	He	0.201	0.0184	1156.05	0.0196	0.01443
Zn	66	3	He	1.088	0.0053	336.01	0.0023	0.002807
Zn	66	3	He	1.225	0.0056	352.01	0.0023	0.002807
Zn	66	3	He	1.169	0.0055	344.01	0.0023	0.002807
As	75	3	He	0.59	0.0024	150.00	0.0018	0.001271
As	75	3	He	0.586	0.0024	148.00	0.0018	0.001271
As	75	3	He	0.328	0.0019	118.00	0.0018	0.001271
Sr	88	3	He	2066.681	16.9814	857879.05	0.0082	0.00114
Sr	88	3	He	2011.614	16.529	852273.97	0.0082	0.00114
Sr	88	3	He	2012.902	16.5396	860611.39	0.0082	0.00114
Mo	98	3	He	0.999	0.0192	970.06	0.0177	0.001504
Mo	98	3	He	0.955	0.0184	950.06	0.0177	0.001504
Mo	98	3	He	1.033	0.0198	1030.07	0.0177	0.001504
Ag	107	3	He	-0.009	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.041	0.0115	580.03	0.0126	0.01097
Sn	120	3	He	-0.085	0.0099	510.03	0.0126	0.01097
Sn	120	3	He	0.06	0.0117	610.04	0.0126	0.01097
Sb	121	3	He	0.178	0.0025	126.67	0.012	0.0003595
Sb	121	3	He	0.131	0.0019	100.00	0.012	0.0003595
Sb	121	3	He	0.13	0.0019	100.00	0.012	0.0003595
Ba	137	3	He	129.952	0.5074	25632.22	0.0039	0.0003633
Ba	137	3	He	134.339	0.5245	27044.43	0.0039	0.0003633
Ba	137	3	He	127.053	0.4961	25812.29	0.0039	0.0003633
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.031	0.0007	140.00	0.0189	0.001334
Tl	205	3	He	-0.031	0.0007	140.01	0.0189	0.001334
Pb	208	3	He	0.013	0.0018	190.01	0.0252	0.001497
Pb	208	3	He	0.046	0.0027	310.01	0.0252	0.001497
Pb	208	3	He	-0.015	0.0011	100.00	0.0252	0.001497
U	238	3	He	1.593	0.0392	7262.06	0.0245	0.0001141
U	238	3	He	1.523	0.0375	7061.97	0.0245	0.0001141
U	238	3	He	1.647	0.0405	7652.28	0.0245	0.0001141
Sc	45	1	No Gas			1608698.41		
Sc	45	1	No Gas			1583316.70		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1610000.76		
Ge	72	1	No Gas			791017.96		
Ge	72	1	No Gas			784730.85		
Ge	72	1	No Gas			793603.97		
Sc	45	2	H2			129397.09		
Sc	45	2	H2			132127.57		
Sc	45	2	H2			129609.07		
Ge	72	2	H2			94556.54		
Ge	72	2	H2			97011.36		
Ge	72	2	H2			94879.44		
In	115	2	H2			236732.79		
In	115	2	H2			238237.44		
In	115	2	H2			241555.47		
Sc	45	3	He			37994.65		
Sc	45	3	He			38104.88		
Sc	45	3	He			38446.21		
Ge	72	3	He			63636.21		
Ge	72	3	He			62963.88		
Ge	72	3	He			62943.91		
In	115	3	He			50522.72		
In	115	3	He			51565.96		
In	115	3	He			52037.75		
Tb	159	3	He			185194.33		
Tb	159	3	He			188341.40		
Tb	159	3	He			188776.66		
Bi	209	3	He			133042.12		
Bi	209	3	He			135302.96		
Bi	209	3	He			134939.79		

Quantitation Report

Data File Name	329SMPL.d
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Sample Type	Sample
Comment	F5 RR
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

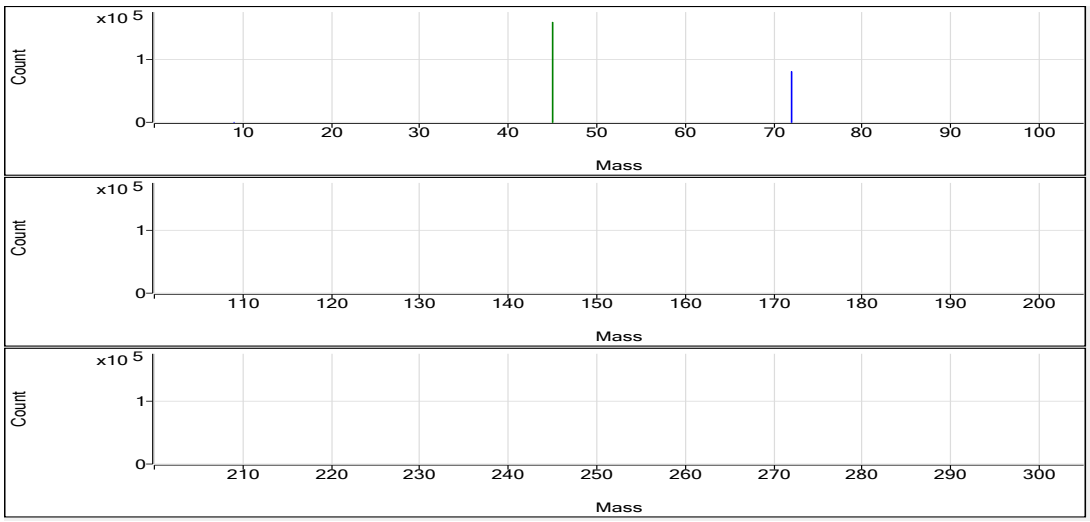
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.035	ppb	N/A	22.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.765	ppb	11.8	34.67	0.0004	Pulse	1.5000	3
Na	23	45	He	7497.153	ppb	1.9	747714.10	19.4385	Pulse	0.1000	3
Mg	24	45	He	118.811	ppb	8.7	6544.82	0.1700	Pulse	0.1000	3
Al	27	45	He	-0.120	ppb	N/A	203.34	0.0053	Pulse	0.1000	3
K	39	45	He	2849.241	ppb	2.0	129244.87	3.3598	Pulse	0.5000	3
Ca	44	45	He	1538.395	ppb	1.3	3285.68	0.0854	Pulse	0.5000	3
Ti	47	45	He	-1.031	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
V	51	45	He	0.424	ppb	4.6	1290.73	0.0335	Pulse	0.5000	3
Cr	52	45	He	-0.368	ppb	N/A	1640.14	0.0426	Pulse	0.1000	3
Mn	55	45	He	-0.305	ppb	N/A	304.67	0.0079	Pulse	0.5000	3
Fe	57	45	He	-6.835	ppb	N/A	220.01	0.0057	Pulse	0.1000	3
Co	59	45	He	-0.061	ppb	N/A	134.67	0.0035	Pulse	0.5000	3
Ni	60	45	He	0.433	ppb	16.0	646.69	0.0168	Pulse	0.5000	3
Cu	63	72	He	-0.165	ppb	N/A	720.69	0.0112	Pulse	0.5000	3
Zn	66	72	He	8.966	ppb	4.5	1490.74	0.0232	Pulse	0.5000	3
As	75	72	He	0.833	ppb	40.9	180.00	0.0028	Pulse	0.5000	3
Sr	88	115	He	11.585	ppb	4.3	5050.95	0.0963	Pulse	0.1000	3
Mo	98	115	He	2.973	ppb	0.9	2840.35	0.0542	Pulse	0.1000	3
Ag	107	115	He	-0.015	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Cd	111	115	He	0.035	ppb	1.7	10.00	0.0002	Pulse	0.5000	3
Sn	120	115	He	-0.246	ppb	N/A	413.35	0.0079	Pulse	0.1000	3
Sb	121	115	He	1.057	ppb	9.7	686.69	0.0131	Pulse	0.3000	3
Ba	137	115	He	0.297	ppb	55.1	80.00	0.0015	Pulse	0.1000	3
Tl	205	159	He	-0.042	ppb	N/A	100.00	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.032	ppb	10.6	433.34	0.0023	Pulse	0.1000	3
U	238	159	He	0.016	ppb	42.6	96.67	0.0005	Pulse	0.1000	3

ISTD Table:

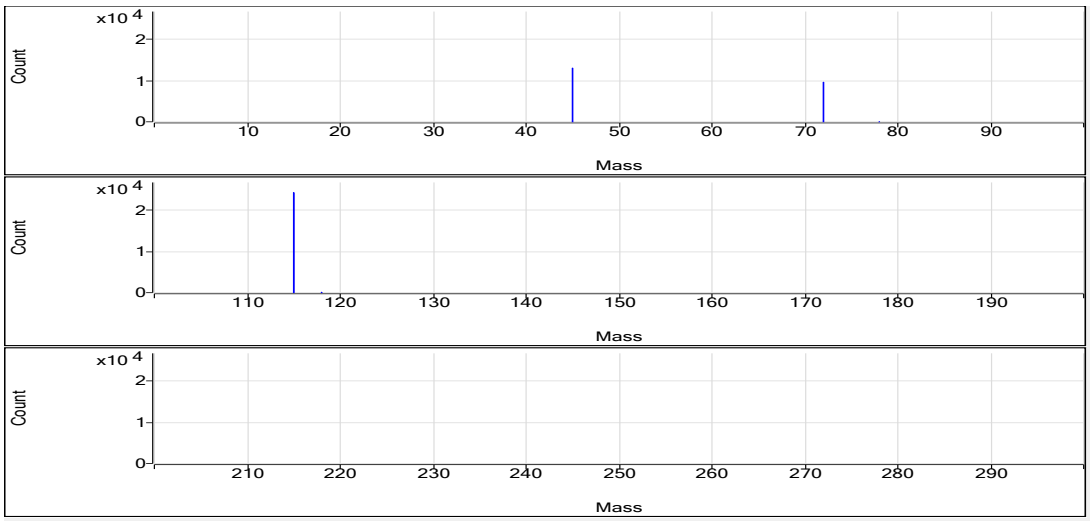
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1585849.77	0.8	92.8	Analog	0.1000	3
No Gas	Ge	72	804218.50	0.9	93.1	Pulse	0.1000	3
H2	Sc	45	130636.61	0.6	97.8	Pulse	0.1000	3
H2	Ge	72	96484.86	1.7	97.4	Pulse	0.1000	3
H2	In	115	242979.66	0.2	94.7	Pulse	0.1000	3
He	Sc	45	38469.20	1.6	97.5	Pulse	0.1000	3
He	Ge	72	64322.27	1.3	94.4	Pulse	0.1000	3
He	In	115	52446.13	1.3	94.7	Pulse	0.1000	3
He	Tb	159	188075.02	0.3	91.8	Pulse	0.1000	3
He	Bi	209	141665.75	0.4	93.7	Pulse	0.1000	3

No Gas

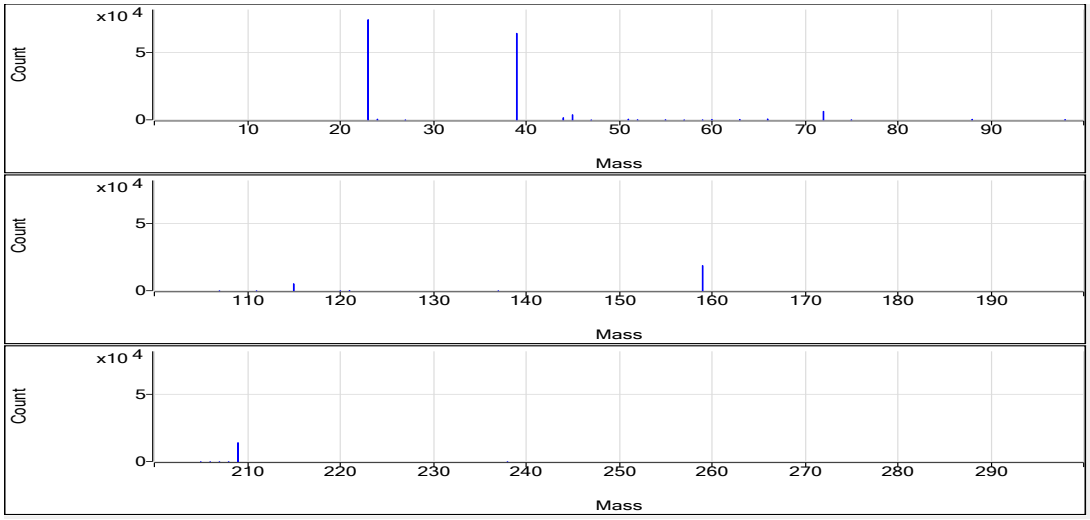


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.029	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.044	0	18.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Se	78	2	H2	0.735	0.0003	33.33	0.0004	6.3E-05
Se	78	2	H2	0.694	0.0003	32.67	0.0004	6.3E-05
Se	78	2	H2	0.866	0.0004	38.00	0.0004	6.3E-05
Na	23	3	He	7613.013	19.7273	762782.02	0.0025	0.7502
Na	23	3	He	7341.453	19.0504	742529.13	0.0025	0.7502
Na	23	3	He	7536.992	19.5378	737831.16	0.0025	0.7502
Mg	24	3	He	129.845	0.1834	7091.72	0.0012	0.02618
Mg	24	3	He	117.191	0.1681	6551.48	0.0012	0.02618
Mg	24	3	He	109.398	0.1586	5991.27	0.0012	0.02618
Al	27	3	He	-1.787	0.0047	180.01	0.0004	0.005329
Al	27	3	He	1.516	0.0059	230.01	0.0004	0.005329
Al	27	3	He	-0.088	0.0053	200.01	0.0004	0.005329
K	39	3	He	2908.695	3.4189	132194.44	0.001	0.5307
K	39	3	He	2793.017	3.304	128780.09	0.001	0.5307
K	39	3	He	2846.013	3.3566	126760.07	0.001	0.5307
Ca	44	3	He	1541.063	0.0856	3308.35	0.0001	0.004441
Ca	44	3	He	1517.378	0.0843	3286.35	0.0001	0.004441
Ca	44	3	He	1556.742	0.0864	3262.34	0.0001	0.004441
Ti	47	3	He	-0.988	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.989	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	0.434	0.0337	1304.06	0.0176	0.02609
V	51	3	He	0.436	0.0338	1316.06	0.0176	0.02609
V	51	3	He	0.401	0.0332	1252.06	0.0176	0.02609
Cr	52	3	He	-0.139	0.0476	1840.17	0.0217	0.05061
Cr	52	3	He	-0.44	0.0411	1600.12	0.0217	0.05061
Cr	52	3	He	-0.525	0.0392	1480.12	0.0217	0.05061
Mn	55	3	He	-0.363	0.0074	286.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.336	0.0076	298.00	0.0091	0.01071
Mn	55	3	He	-0.216	0.0087	330.01	0.0091	0.01071
Fe	57	3	He	-4.327	0.0067	260.01	0.0004	0.008452
Fe	57	3	He	-9.601	0.0046	180.01	0.0004	0.008452
Fe	57	3	He	-6.577	0.0058	220.01	0.0004	0.008452
Co	59	3	He	-0.062	0.0035	134.00	0.0413	0.006013
Co	59	3	He	-0.054	0.0038	148.00	0.0413	0.006013
Co	59	3	He	-0.067	0.0032	122.00	0.0413	0.006013
Ni	60	3	He	0.513	0.0177	686.02	0.0117	0.01172
Ni	60	3	He	0.401	0.0164	640.02	0.0117	0.01172
Ni	60	3	He	0.387	0.0163	614.02	0.0117	0.01172
Cu	63	3	He	-0.134	0.0118	752.02	0.0196	0.01443
Cu	63	3	He	-0.149	0.0115	738.02	0.0196	0.01443
Cu	63	3	He	-0.212	0.0103	672.02	0.0196	0.01443
Zn	66	3	He	9.12	0.0235	1498.08	0.0023	0.002807
Zn	66	3	He	9.267	0.0239	1528.08	0.0023	0.002807
Zn	66	3	He	8.51	0.0221	1446.07	0.0023	0.002807
As	75	3	He	1.187	0.0035	220.00	0.0018	0.001271
As	75	3	He	0.803	0.0027	176.00	0.0018	0.001271
As	75	3	He	0.508	0.0022	144.00	0.0018	0.001271
Sr	88	3	He	12.134	0.1008	5271.02	0.0082	0.00114
Sr	88	3	He	11.17	0.0929	4940.92	0.0082	0.00114
Sr	88	3	He	11.452	0.0952	4940.91	0.0082	0.00114
Mo	98	3	He	2.994	0.0545	2850.35	0.0177	0.001504
Mo	98	3	He	2.984	0.0544	2890.36	0.0177	0.001504
Mo	98	3	He	2.941	0.0536	2780.34	0.0177	0.001504
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	-0.111	0.0096	500.03	0.0126	0.01097
Sn	120	3	He	-0.214	0.0083	440.02	0.0126	0.01097
Sn	120	3	He	-0.412	0.0058	300.01	0.0126	0.01097
Sb	121	3	He	0.939	0.0117	610.02	0.012	0.0003595
Sb	121	3	He	1.125	0.0139	740.02	0.012	0.0003595
Sb	121	3	He	1.106	0.0137	710.02	0.012	0.0003595
Ba	137	3	He	0.201	0.0011	60.00	0.0039	0.0003633
Ba	137	3	He	0.485	0.0023	120.00	0.0039	0.0003633
Ba	137	3	He	0.203	0.0012	60.00	0.0039	0.0003633
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.031	0.0007	140.01	0.0189	0.001334
Tl	205	3	He	-0.042	0.0005	100.00	0.0189	0.001334
Pb	208	3	He	0.032	0.0023	230.01	0.0252	0.001497
Pb	208	3	He	0.036	0.0024	230.01	0.0252	0.001497
Pb	208	3	He	0.029	0.0022	270.01	0.0252	0.001497
U	238	3	He	0.008	0.0003	60.00	0.0245	0.0001141
U	238	3	He	0.021	0.0006	120.00	0.0245	0.0001141
U	238	3	He	0.019	0.0006	110.00	0.0245	0.0001141
Sc	45	1	No Gas			1571022.95		
Sc	45	1	No Gas			1596974.82		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1589551.54		
Ge	72	1	No Gas			800820.07		
Ge	72	1	No Gas			799562.25		
Ge	72	1	No Gas			812273.19		
Sc	45	2	H2			129688.83		
Sc	45	2	H2			131281.21		
Sc	45	2	H2			130939.80		
Ge	72	2	H2			95784.02		
Ge	72	2	H2			98389.34		
Ge	72	2	H2			95281.22		
In	115	2	H2			242815.93		
In	115	2	H2			242630.02		
In	115	2	H2			243493.04		
Sc	45	3	He			38666.27		
Sc	45	3	He			38977.09		
Sc	45	3	He			37764.24		
Ge	72	3	He			63656.29		
Ge	72	3	He			64017.40		
Ge	72	3	He			65293.11		
In	115	3	He			52278.83		
In	115	3	He			53181.18		
In	115	3	He			51887.05		
Tb	159	3	He			187561.27		
Tb	159	3	He			187885.74		
Tb	159	3	He			188778.06		
Bi	209	3	He			142095.97		
Bi	209	3	He			141914.89		
Bi	209	3	He			140986.40		

Quantitation Report

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Sample Name	CCV 8028071
Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

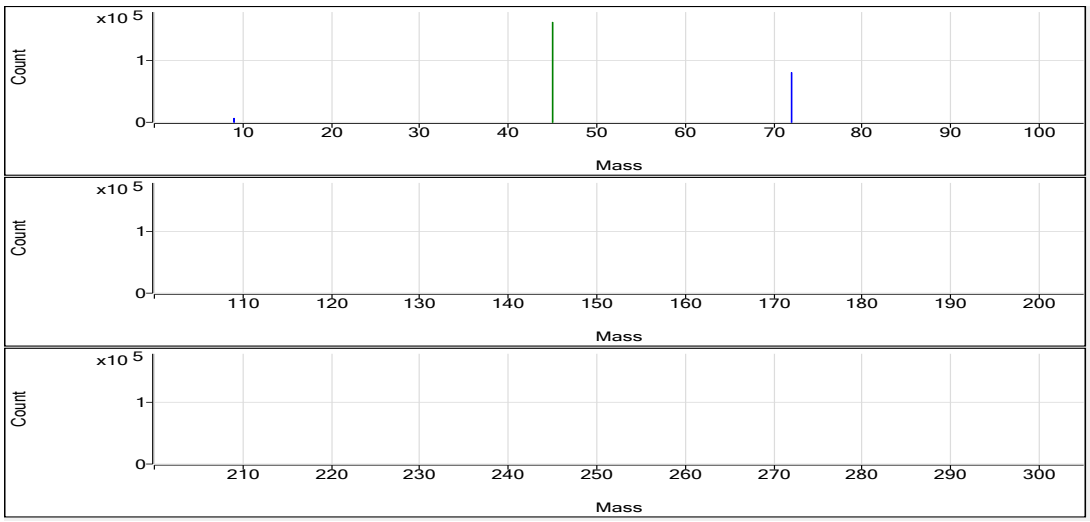
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.474	ppb	6.5	13385.34	0.0083	Pulse	0.5000	3
Se	78	72	H2	25.148	ppb	2.0	931.81	0.0098	Pulse	1.5000	3
Na	23	45	He	2460.458	ppb	3.1	269690.20	6.8834	Pulse	0.1000	3
Mg	24	45	He	2505.976	ppb	3.8	119895.57	3.0606	Pulse	0.1000	3
Al	27	45	He	2502.583	ppb	3.6	37178.81	0.9491	Pulse	0.1000	3
K	39	45	He	2515.952	ppb	4.8	118654.58	3.0289	Pulse	0.5000	3
Ca	44	45	He	2534.755	ppb	3.7	5400.91	0.1379	Pulse	0.5000	3
Ti	47	45	He	2495.245	ppb	2.5	40001.81	1.0209	Pulse	0.5000	3
V	51	45	He	249.563	ppb	2.1	173017.81	4.4155	Pulse	0.5000	3
Cr	52	45	He	248.882	ppb	2.1	213857.30	5.4575	Pulse	0.1000	3
Mn	55	45	He	249.992	ppb	2.1	89703.38	2.2893	Pulse	0.5000	3
Fe	57	45	He	2504.007	ppb	3.3	39505.35	1.0084	Pulse	0.1000	3
Co	59	45	He	248.111	ppb	2.3	401628.04	10.2502	Pulse	0.5000	3
Ni	60	45	He	248.635	ppb	2.9	114869.77	2.9320	Pulse	0.5000	3
Cu	63	72	He	249.711	ppb	0.9	318203.24	4.8993	Pulse	0.5000	3
Zn	66	72	He	250.524	ppb	1.5	37160.47	0.5722	Pulse	0.5000	3
As	75	72	He	247.409	ppb	1.7	29659.27	0.4567	Pulse	0.5000	3
Sr	88	115	He	24.301	ppb	2.5	10543.80	0.2008	Pulse	0.1000	3
Mo	98	115	He	25.001	ppb	1.4	23331.20	0.4443	Pulse	0.1000	3
Ag	107	115	He	24.860	ppb	4.5	48041.19	0.9155	Pulse	0.1000	3
Cd	111	115	He	25.186	ppb	1.7	5426.30	0.1034	Pulse	0.5000	3
Sn	120	115	He	24.449	ppb	2.0	16729.47	0.3187	Pulse	0.1000	3
Sb	121	115	He	24.792	ppb	2.8	15693.57	0.2990	Pulse	0.3000	3
Ba	137	115	He	246.313	ppb	2.0	50463.90	0.9614	Pulse	0.1000	3
Tl	205	159	He	24.947	ppb	0.9	89120.89	0.4738	Pulse	0.1000	3
Pb	208	159	He	25.344	ppb	0.9	120203.84	0.6391	Pulse	0.1000	3
U	238	159	He	25.631	ppb	1.7	118367.19	0.6293	Pulse	0.1000	3

ISTD Table:

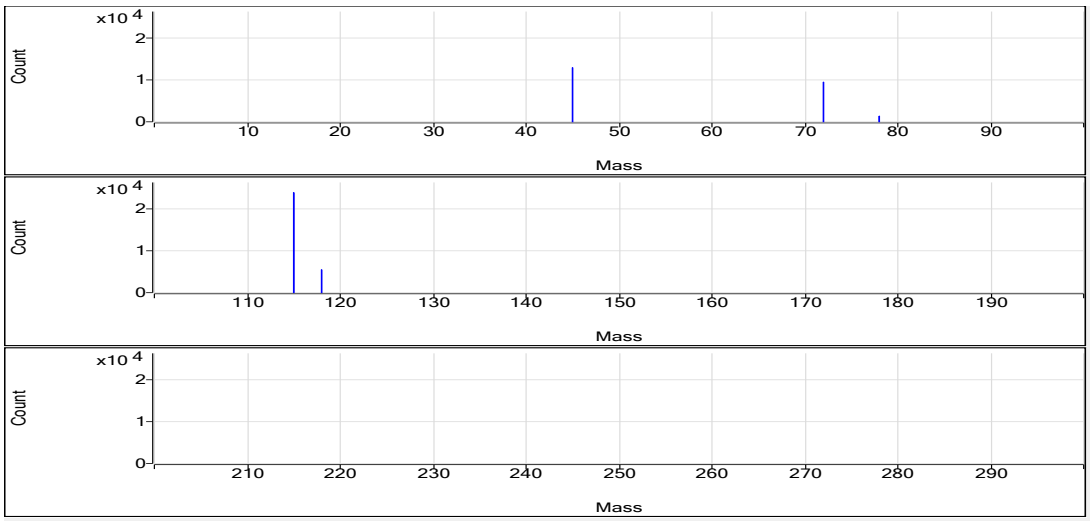
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1620462.37	1.4	94.8	Analog	0.1000	3
No Gas	Ge	72	806307.72	0.3	93.3	Pulse	0.1000	3
H2	Sc	45	129189.37	1.6	96.7	Pulse	0.1000	3
H2	Ge	72	94939.66	2.7	95.8	Pulse	0.1000	3
H2	In	115	238614.77	1.2	93.0	Pulse	0.1000	3
He	Sc	45	39197.55	2.5	99.3	Pulse	0.1000	3
He	Ge	72	64951.54	1.0	95.4	Pulse	0.1000	3
He	In	115	52505.70	2.0	94.8	Pulse	0.1000	3
He	Tb	159	188084.92	0.1	91.8	Pulse	0.1000	3
He	Bi	209	140450.98	0.6	92.8	Pulse	0.1000	3

No Gas

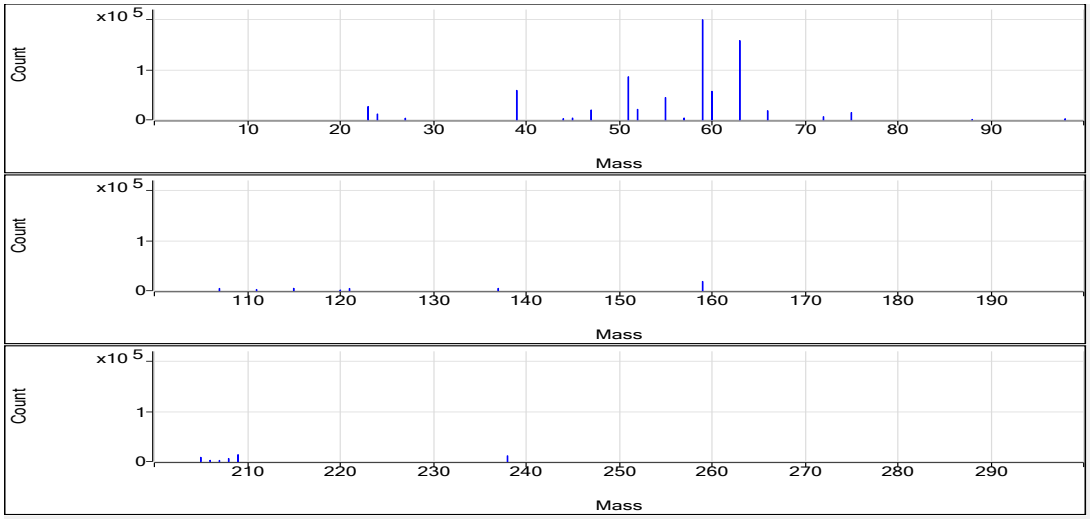


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	22.763	0.0077	12630.74	0.0003	2.616E-05
Be	9	1	No Gas	24.767	0.0084	13351.29	0.0003	2.616E-05
Be	9	1	No Gas	25.893	0.0087	14173.98	0.0003	2.616E-05
Se	78	2	H2	25.188	0.0098	961.36	0.0004	6.3E-05
Se	78	2	H2	24.624	0.0096	906.03	0.0004	6.3E-05
Se	78	2	H2	25.631	0.01	928.03	0.0004	6.3E-05
Na	23	3	He	2497.244	6.9751	271730.33	0.0025	0.7502
Na	23	3	He	2512.291	7.0126	268972.61	0.0025	0.7502
Na	23	3	He	2371.84	6.6625	268367.67	0.0025	0.7502
Mg	24	3	He	2497.276	3.0501	118821.78	0.0012	0.02618
Mg	24	3	He	2605.51	3.1811	122013.60	0.0012	0.02618
Mg	24	3	He	2415.142	2.9506	118851.32	0.0012	0.02618
Al	27	3	He	2549.596	0.9668	37663.11	0.0004	0.005329
Al	27	3	He	2560.713	0.971	37242.26	0.0004	0.005329
Al	27	3	He	2397.44	0.9094	36631.06	0.0004	0.005329
K	39	3	He	2605.678	3.118	121467.16	0.001	0.5307
K	39	3	He	2564.433	3.077	118020.52	0.001	0.5307
K	39	3	He	2377.744	2.8916	116476.07	0.001	0.5307
Ca	44	3	He	2544.476	0.1384	5390.91	0.0001	0.004441
Ca	44	3	He	2623.367	0.1425	5466.94	0.0001	0.004441
Ca	44	3	He	2436.421	0.1327	5344.89	0.0001	0.004441
Ti	47	3	He	2494.315	1.0206	39757.90	0.0004	0.0004559
Ti	47	3	He	2558.508	1.0468	40150.85	0.0004	0.0004559
Ti	47	3	He	2432.912	0.9954	40096.67	0.0004	0.0004559
V	51	3	He	249.288	4.4107	171827.33	0.0176	0.02609
V	51	3	He	255.031	4.5117	173048.03	0.0176	0.02609
V	51	3	He	244.369	4.3242	174178.08	0.0176	0.02609
Cr	52	3	He	247.063	5.418	211067.99	0.0217	0.05061
Cr	52	3	He	254.657	5.583	214136.83	0.0217	0.05061
Cr	52	3	He	244.926	5.3716	216367.07	0.0217	0.05061
Mn	55	3	He	249.487	2.2847	89004.21	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	255.571	2.3401	89756.33	0.0091	0.01071
Mn	55	3	He	244.918	2.243	90349.59	0.0091	0.01071
Fe	57	3	He	2508.761	1.0103	39358.09	0.0004	0.008452
Fe	57	3	He	2583.813	1.0403	39899.82	0.0004	0.008452
Fe	57	3	He	2419.446	0.9746	39258.15	0.0004	0.008452
Co	59	3	He	249.904	10.3242	402200.00	0.0413	0.006013
Co	59	3	He	252.702	10.4397	400420.91	0.0413	0.006013
Co	59	3	He	241.728	9.9866	402263.22	0.0413	0.006013
Ni	60	3	He	249.911	2.947	114804.55	0.0117	0.01172
Ni	60	3	He	255.17	3.0087	115400.86	0.0117	0.01172
Ni	60	3	He	240.822	2.8402	114403.90	0.0117	0.01172
Cu	63	3	He	247.801	4.8619	316325.91	0.0196	0.01443
Cu	63	3	He	249.235	4.89	320458.44	0.0196	0.01443
Cu	63	3	He	252.097	4.946	317825.38	0.0196	0.01443
Zn	66	3	He	250.032	0.5711	37154.45	0.0023	0.002807
Zn	66	3	He	246.998	0.5642	36972.05	0.0023	0.002807
Zn	66	3	He	254.542	0.5813	37354.92	0.0023	0.002807
As	75	3	He	246.257	0.4546	29575.11	0.0018	0.001271
As	75	3	He	243.782	0.45	29490.98	0.0018	0.001271
As	75	3	He	252.187	0.4655	29911.72	0.0018	0.001271
Sr	88	3	He	23.977	0.1981	10603.80	0.0082	0.00114
Sr	88	3	He	23.928	0.1977	10163.57	0.0082	0.00114
Sr	88	3	He	24.998	0.2065	10864.04	0.0082	0.00114
Mo	98	3	He	24.896	0.4425	23678.28	0.0177	0.001504
Mo	98	3	He	24.714	0.4392	22576.82	0.0177	0.001504
Mo	98	3	He	25.394	0.4513	23738.49	0.0177	0.001504
Ag	107	3	He	24.199	0.8912	47693.45	0.0368	0.001325
Ag	107	3	He	26.158	0.9632	49509.11	0.0368	0.001325
Ag	107	3	He	24.221	0.892	46921.01	0.0368	0.001325
Cd	111	3	He	24.954	0.1024	5480.99	0.0041	4.798E-05
Cd	111	3	He	25.679	0.1054	5416.96	0.0041	4.798E-05
Cd	111	3	He	24.924	0.1023	5380.95	0.0041	4.798E-05
Sn	120	3	He	23.95	0.3124	16719.55	0.0126	0.01097
Sn	120	3	He	24.926	0.3247	16689.35	0.0126	0.01097
Sn	120	3	He	24.471	0.319	16779.50	0.0126	0.01097
Sb	121	3	He	24.083	0.2905	15544.55	0.012	0.0003595
Sb	121	3	He	25.486	0.3074	15798.14	0.012	0.0003595
Sb	121	3	He	24.807	0.2992	15738.03	0.012	0.0003595
Ba	137	3	He	241.646	0.9432	50474.32	0.0039	0.0003633
Ba	137	3	He	251.649	0.9822	50483.84	0.0039	0.0003633
Ba	137	3	He	245.644	0.9588	50433.54	0.0039	0.0003633
Tl	205	3	He	24.755	0.4702	88446.85	0.0189	0.001334
Tl	205	3	He	25.177	0.4782	90046.73	0.0189	0.001334
Tl	205	3	He	24.91	0.4731	88869.10	0.0189	0.001334
Pb	208	3	He	25.605	0.6456	64934.80	0.0252	0.001497
Pb	208	3	He	25.28	0.6375	62815.87	0.0252	0.001497
Pb	208	3	He	25.148	0.6342	64553.20	0.0252	0.001497
U	238	3	He	25.992	0.6382	120050.53	0.0245	0.0001141
U	238	3	He	25.771	0.6328	119154.56	0.0245	0.0001141
U	238	3	He	25.13	0.617	115896.49	0.0245	0.0001141
Sc	45	1	No Gas			1643059.82		
Sc	45	1	No Gas			1596744.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1621583.10		
Ge	72	1	No Gas			804597.41		
Ge	72	1	No Gas			804917.96		
Ge	72	1	No Gas			809407.80		
Sc	45	2	H2			131482.75		
Sc	45	2	H2			127382.52		
Sc	45	2	H2			128702.85		
Ge	72	2	H2			97786.59		
Ge	72	2	H2			94255.08		
Ge	72	2	H2			92777.30		
In	115	2	H2			240945.80		
In	115	2	H2			239402.63		
In	115	2	H2			235495.89		
Sc	45	3	He			38957.06		
Sc	45	3	He			38355.44		
Sc	45	3	He			40280.16		
Ge	72	3	He			65061.77		
Ge	72	3	He			65533.54		
Ge	72	3	He			64259.31		
In	115	3	He			53632.75		
In	115	3	He			51515.72		
In	115	3	He			52719.96		
Tb	159	3	He			188110.39		
Tb	159	3	He			188309.82		
Tb	159	3	He			187834.55		
Bi	209	3	He			140582.46		
Bi	209	3	He			141228.04		
Bi	209	3	He			139542.44		

Quantitation Report

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Sample Type	CCB
Comment	---
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

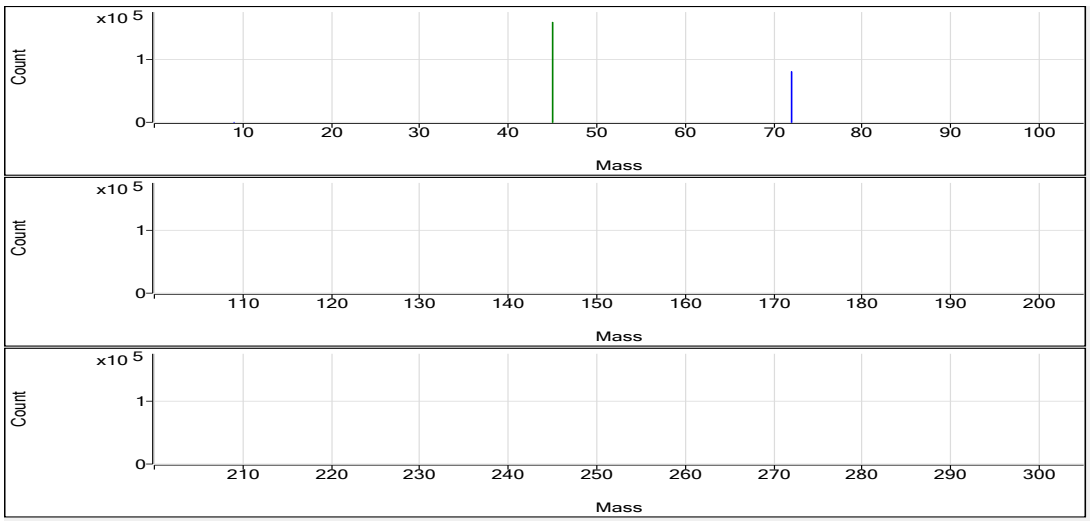
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.032	ppb	N/A	24.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.127	ppb	N/A	1.33	0.0000	Pulse	1.5000	3
Na	23	45	He	-84.950	ppb	N/A	20623.28	0.5384	Pulse	0.1000	3
Mg	24	45	He	-9.336	ppb	N/A	570.03	0.0149	Pulse	0.1000	3
Al	27	45	He	-5.329	ppb	N/A	126.67	0.0033	Pulse	0.1000	3
K	39	45	He	-10.143	ppb	N/A	19902.17	0.5206	Pulse	0.5000	3
Ca	44	45	He	3.832	ppb	321.7	178.00	0.0046	Pulse	0.5000	3
Ti	47	45	He	-0.005	ppb	N/A	17.33	0.0005	Pulse	0.5000	3
V	51	45	He	-0.009	ppb	N/A	993.37	0.0259	Pulse	0.5000	3
Cr	52	45	He	-0.210	ppb	N/A	1763.49	0.0460	Pulse	0.1000	3
Mn	55	45	He	-0.341	ppb	N/A	291.34	0.0076	Pulse	0.5000	3
Fe	57	45	He	-7.426	ppb	N/A	210.01	0.0055	Pulse	0.1000	3
Co	59	45	He	-0.010	ppb	N/A	214.00	0.0056	Pulse	0.5000	3
Ni	60	45	He	-0.107	ppb	N/A	400.68	0.0105	Pulse	0.5000	3
Cu	63	72	He	-0.290	ppb	N/A	563.34	0.0088	Pulse	0.5000	3
Zn	66	72	He	0.119	ppb	120.0	198.00	0.0031	Pulse	0.5000	3
As	75	72	He	0.342	ppb	20.5	122.00	0.0019	Pulse	0.5000	3
Sr	88	115	He	-0.053	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Mo	98	115	He	-0.013	ppb	N/A	66.67	0.0013	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.159	ppb	N/A	466.69	0.0090	Pulse	0.1000	3
Sb	121	115	He	0.032	ppb	16.9	38.89	0.0007	Pulse	0.3000	3
Ba	137	115	He	0.055	ppb	239.6	30.00	0.0006	Pulse	0.1000	3
Tl	205	159	He	-0.036	ppb	N/A	123.34	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.013	ppb	N/A	220.00	0.0012	Pulse	0.1000	3
U	238	159	He	0.000	ppb	N/A	20.00	0.0001	Pulse	0.1000	3

ISTD Table:

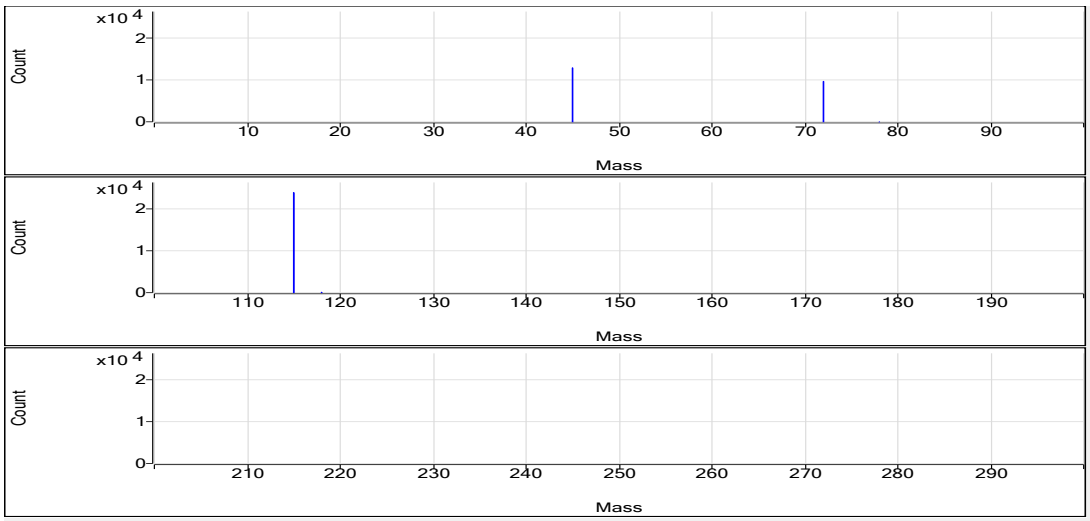
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1593342.37	2.2	93.3	Analog	0.1000	3
No Gas	Ge	72	807118.63	1.1	93.4	Pulse	0.1000	3
H2	Sc	45	128964.10	3.1	96.5	Pulse	0.1000	3
H2	Ge	72	96736.94	2.1	97.7	Pulse	0.1000	3
H2	In	115	239231.80	1.2	93.2	Pulse	0.1000	3
He	Sc	45	38302.21	1.9	97.0	Pulse	0.1000	3
He	Ge	72	64252.41	1.4	94.3	Pulse	0.1000	3
He	In	115	52081.15	1.1	94.0	Pulse	0.1000	3
He	Tb	159	187565.20	1.3	91.6	Pulse	0.1000	3
He	Bi	209	138115.57	1.6	91.3	Pulse	0.1000	3

No Gas

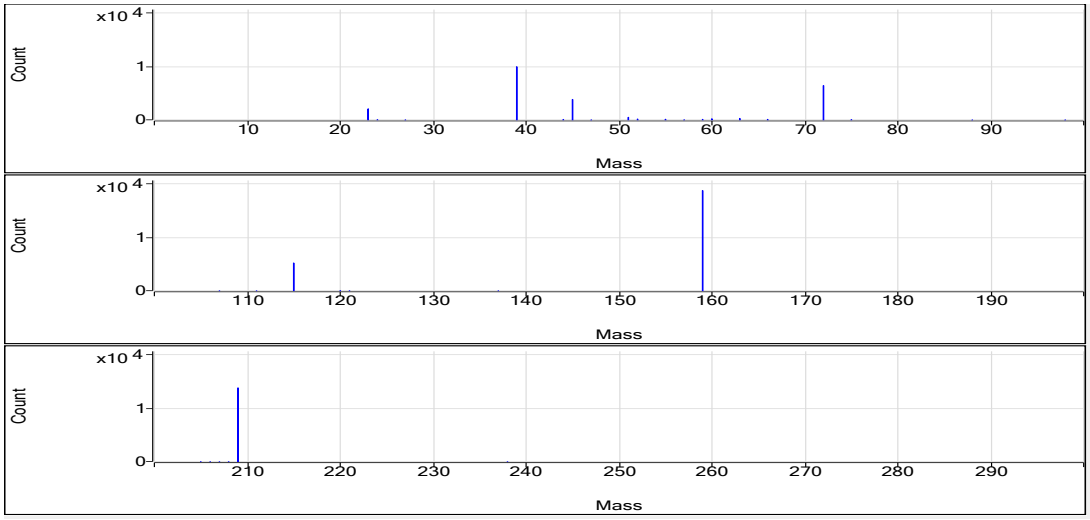


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.036	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.048	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.011	0	36.00	0.0003	2.616E-05
Se	78	2	H2	-0.126	0	1.33	0.0004	6.3E-05
Se	78	2	H2	-0.11	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.145	0	0.67	0.0004	6.3E-05
Na	23	3	He	-85.371	0.5374	20142.72	0.0025	0.7502
Na	23	3	He	-86.394	0.5348	20733.40	0.0025	0.7502
Na	23	3	He	-83.084	0.5431	20993.72	0.0025	0.7502
Mg	24	3	He	-9.945	0.0141	530.03	0.0012	0.02618
Mg	24	3	He	-11.823	0.0119	460.02	0.0012	0.02618
Mg	24	3	He	-6.24	0.0186	720.04	0.0012	0.02618
Al	27	3	He	-2.105	0.0045	170.01	0.0004	0.005329
Al	27	3	He	-5.924	0.0031	120.00	0.0004	0.005329
Al	27	3	He	-7.959	0.0023	90.00	0.0004	0.005329
K	39	3	He	83.214	0.6133	22988.08	0.001	0.5307
K	39	3	He	-46.273	0.4847	18790.71	0.001	0.5307
K	39	3	He	-67.371	0.4638	17927.73	0.001	0.5307
Ca	44	3	He	-5.3	0.0042	156.00	0.0001	0.004441
Ca	44	3	He	-1.057	0.0044	170.00	0.0001	0.004441
Ca	44	3	He	17.854	0.0054	208.00	0.0001	0.004441
Ti	47	3	He	0.32	0.0006	22.00	0.0004	0.0004559
Ti	47	3	He	-0.232	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	-0.103	0.0004	16.00	0.0004	0.0004559
V	51	3	He	-0.043	0.0253	950.04	0.0176	0.02609
V	51	3	He	0.042	0.0268	1040.04	0.0176	0.02609
V	51	3	He	-0.028	0.0256	990.04	0.0176	0.02609
Cr	52	3	He	-0.229	0.0456	1710.16	0.0217	0.05061
Cr	52	3	He	-0.192	0.0464	1800.16	0.0217	0.05061
Cr	52	3	He	-0.21	0.0461	1780.16	0.0217	0.05061
Mn	55	3	He	-0.437	0.0067	252.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.275	0.0082	318.01	0.0091	0.01071
Mn	55	3	He	-0.312	0.0079	304.00	0.0091	0.01071
Fe	57	3	He	-6.468	0.0059	220.01	0.0004	0.008452
Fe	57	3	He	-6.954	0.0057	220.01	0.0004	0.008452
Fe	57	3	He	-8.857	0.0049	190.01	0.0004	0.008452
Co	59	3	He	0.002	0.0061	228.00	0.0413	0.006013
Co	59	3	He	-0.003	0.0059	228.00	0.0413	0.006013
Co	59	3	He	-0.029	0.0048	186.00	0.0413	0.006013
Ni	60	3	He	-0.13	0.0102	382.01	0.0117	0.01172
Ni	60	3	He	-0.093	0.0106	412.01	0.0117	0.01172
Ni	60	3	He	-0.099	0.0106	408.01	0.0117	0.01172
Cu	63	3	He	-0.279	0.009	578.01	0.0196	0.01443
Cu	63	3	He	-0.31	0.0084	544.01	0.0196	0.01443
Cu	63	3	He	-0.279	0.009	568.01	0.0196	0.01443
Zn	66	3	He	0.158	0.0032	204.00	0.0023	0.002807
Zn	66	3	He	0.239	0.0034	218.00	0.0023	0.002807
Zn	66	3	He	-0.039	0.0027	172.00	0.0023	0.002807
As	75	3	He	0.372	0.002	126.00	0.0018	0.001271
As	75	3	He	0.261	0.0018	114.00	0.0018	0.001271
As	75	3	He	0.391	0.002	126.00	0.0018	0.001271
Sr	88	3	He	0	0.0011	60.00	0.0082	0.00114
Sr	88	3	He	-0.092	0.0004	20.00	0.0082	0.00114
Sr	88	3	He	-0.068	0.0006	30.00	0.0082	0.00114
Mo	98	3	He	-0.021	0.0011	60.00	0.0177	0.001504
Mo	98	3	He	0.002	0.0015	80.00	0.0177	0.001504
Mo	98	3	He	-0.019	0.0012	60.00	0.0177	0.001504
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	-0.163	0.0089	470.02	0.0126	0.01097
Sn	120	3	He	-0.136	0.0093	480.02	0.0126	0.01097
Sn	120	3	He	-0.179	0.0087	450.03	0.0126	0.01097
Sb	121	3	He	0.038	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Ba	137	3	He	0.004	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.205	0.0012	60.00	0.0039	0.0003633
Tl	205	3	He	-0.034	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.042	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.031	0.0007	140.00	0.0189	0.001334
Pb	208	3	He	-0.013	0.0012	90.00	0.0252	0.001497
Pb	208	3	He	-0.008	0.0013	180.01	0.0252	0.001497
Pb	208	3	He	-0.017	0.0011	80.00	0.0252	0.001497
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	-0.002	0.0001	10.00	0.0245	0.0001141
Sc	45	1	No Gas			1556102.01		
Sc	45	1	No Gas			1624816.38		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1599108.73		
Ge	72	1	No Gas			797472.33		
Ge	72	1	No Gas			809753.35		
Ge	72	1	No Gas			814130.22		
Sc	45	2	H2			125798.77		
Sc	45	2	H2			133510.17		
Sc	45	2	H2			127583.37		
Ge	72	2	H2			94376.70		
Ge	72	2	H2			98138.49		
Ge	72	2	H2			97695.62		
In	115	2	H2			236054.92		
In	115	2	H2			241453.02		
In	115	2	H2			240187.46		
Sc	45	3	He			37483.26		
Sc	45	3	He			38766.54		
Sc	45	3	He			38656.83		
Ge	72	3	He			64419.82		
Ge	72	3	He			65062.16		
Ge	72	3	He			63275.26		
In	115	3	He			52750.18		
In	115	3	He			51856.79		
In	115	3	He			51646.27		
Tb	159	3	He			189009.22		
Tb	159	3	He			184727.17		
Tb	159	3	He			188959.20		
Bi	209	3	He			139765.67		
Bi	209	3	He			138915.51		
Bi	209	3	He			135665.54		

Quantitation Report

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Sample Type	Sample
Comment	C4
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

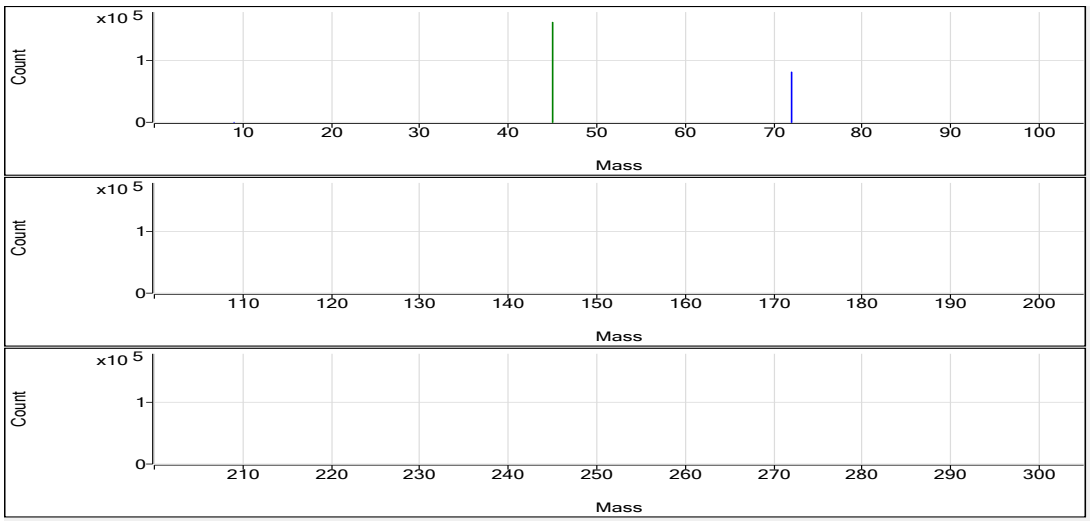
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.029	ppb	N/A	26.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.080	ppb	N/A	3.11	0.0000	Pulse	1.5000	3
Na	23	45	He	-96.581	ppb	N/A	19842.24	0.5094	Pulse	0.1000	3
Mg	24	45	He	-9.170	ppb	N/A	586.70	0.0151	Pulse	0.1000	3
Al	27	45	He	-3.475	ppb	N/A	156.67	0.0040	Pulse	0.1000	3
K	39	45	He	-22.876	ppb	N/A	19784.01	0.5079	Pulse	0.5000	3
Ca	44	45	He	-6.633	ppb	N/A	159.33	0.0041	Pulse	0.5000	3
Ti	47	45	He	-0.696	ppb	N/A	6.67	0.0002	Pulse	0.5000	3
V	51	45	He	-0.246	ppb	N/A	848.03	0.0218	Pulse	0.5000	3
Cr	52	45	He	-0.828	ppb	N/A	1270.09	0.0326	Pulse	0.1000	3
Mn	55	45	He	-0.345	ppb	N/A	294.67	0.0076	Pulse	0.5000	3
Fe	57	45	He	-10.866	ppb	N/A	160.01	0.0041	Pulse	0.1000	3
Co	59	45	He	-0.059	ppb	N/A	138.67	0.0036	Pulse	0.5000	3
Ni	60	45	He	-0.288	ppb	N/A	324.67	0.0083	Pulse	0.5000	3
Cu	63	72	He	-0.287	ppb	N/A	570.01	0.0088	Pulse	0.5000	3
Zn	66	72	He	0.936	ppb	10.6	318.67	0.0049	Pulse	0.5000	3
As	75	72	He	0.196	ppb	86.0	105.33	0.0016	Pulse	0.5000	3
Sr	88	115	He	-0.061	ppb	N/A	33.33	0.0006	Pulse	0.1000	3
Mo	98	115	He	-0.052	ppb	N/A	30.00	0.0006	Pulse	0.1000	3
Ag	107	115	He	-0.026	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.133	ppb	N/A	486.69	0.0093	Pulse	0.1000	3
Sb	121	115	He	0.019	ppb	133.1	31.11	0.0006	Pulse	0.3000	3
Ba	137	115	He	0.005	ppb	1018.4	20.00	0.0004	Pulse	0.1000	3
Tl	205	159	He	-0.049	ppb	N/A	76.67	0.0004	Pulse	0.1000	3
Pb	208	159	He	-0.006	ppb	N/A	253.34	0.0013	Pulse	0.1000	3
U	238	159	He	-0.002	ppb	N/A	13.33	0.0001	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1625747.95	0.8	95.2	Analog	0.1000	3
No Gas	Ge	72	817685.74	0.2	94.7	Pulse	0.1000	3
H2	Sc	45	131363.48	2.1	98.3	Pulse	0.1000	3
H2	Ge	72	97018.34	0.8	97.9	Pulse	0.1000	3
H2	In	115	244020.81	0.7	95.1	Pulse	0.1000	3
He	Sc	45	38950.21	1.0	98.7	Pulse	0.1000	3
He	Ge	72	64573.49	0.2	94.8	Pulse	0.1000	3
He	In	115	52314.85	1.3	94.4	Pulse	0.1000	3
He	Tb	159	188943.05	0.4	92.3	Pulse	0.1000	3
He	Bi	209	140867.98	1.3	93.1	Pulse	0.1000	3

No Gas



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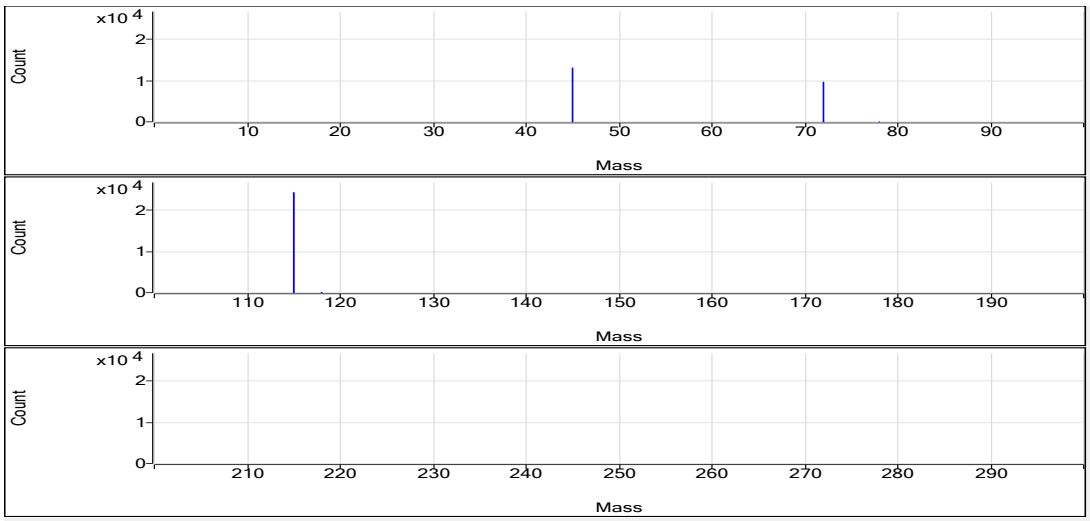
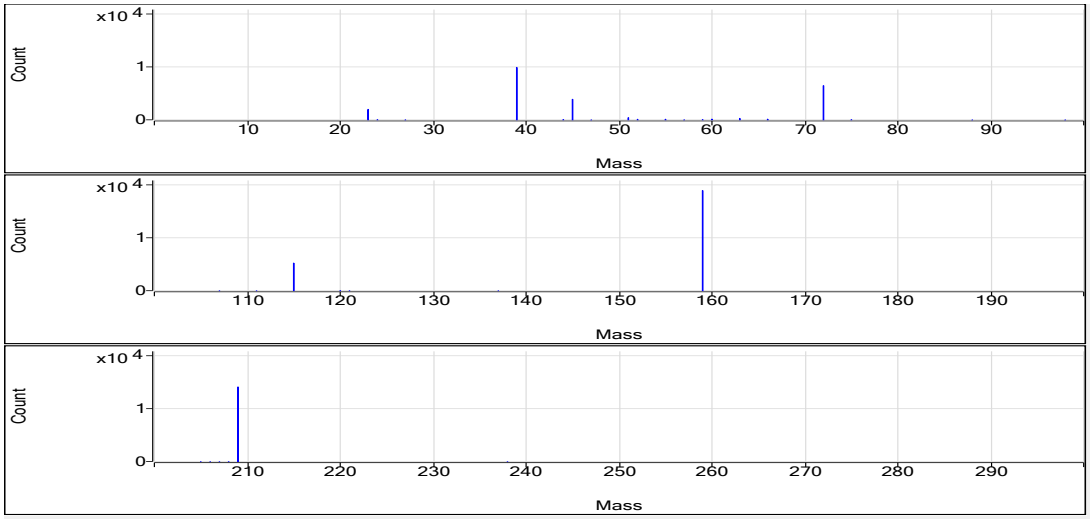


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.034	0	24.00	0.0003	2.616E-05
Se	78	2	H2	-0.057	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.073	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.109	0	2.00	0.0004	6.3E-05
Na	23	3	He	-94.547	0.5145	20012.41	0.0025	0.7502
Na	23	3	He	-97.935	0.5061	19912.28	0.0025	0.7502
Na	23	3	He	-97.261	0.5077	19602.02	0.0025	0.7502
Mg	24	3	He	-9.52	0.0147	570.03	0.0012	0.02618
Mg	24	3	He	-11.128	0.0127	500.02	0.0012	0.02618
Mg	24	3	He	-6.862	0.0179	690.04	0.0012	0.02618
Al	27	3	He	-8.678	0.0021	80.00	0.0004	0.005329
Al	27	3	He	0.021	0.0053	210.01	0.0004	0.005329
Al	27	3	He	-1.768	0.0047	180.01	0.0004	0.005329
K	39	3	He	50.817	0.5811	22603.57	0.001	0.5307
K	39	3	He	-54.303	0.4767	18758.66	0.001	0.5307
K	39	3	He	-65.142	0.466	17989.80	0.001	0.5307
Ca	44	3	He	1.595	0.0045	176.00	0.0001	0.004441
Ca	44	3	He	-12.909	0.0038	148.00	0.0001	0.004441
Ca	44	3	He	-8.585	0.004	154.00	0.0001	0.004441
Ti	47	3	He	-0.612	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.742	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.735	0.0002	6.00	0.0004	0.0004559
V	51	3	He	-0.303	0.0208	808.03	0.0176	0.02609
V	51	3	He	-0.261	0.0215	846.03	0.0176	0.02609
V	51	3	He	-0.173	0.0231	890.03	0.0176	0.02609
Cr	52	3	He	-1.016	0.0285	1110.07	0.0217	0.05061
Cr	52	3	He	-0.774	0.0338	1330.09	0.0217	0.05061
Cr	52	3	He	-0.696	0.0355	1370.11	0.0217	0.05061
Mn	55	3	He	-0.329	0.0077	300.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.311	0.0079	310.00	0.0091	0.01071
Mn	55	3	He	-0.396	0.0071	274.00	0.0091	0.01071
Fe	57	3	He	-10.865	0.0041	160.01	0.0004	0.008452
Fe	57	3	He	-12.893	0.0033	130.00	0.0004	0.008452
Fe	57	3	He	-8.841	0.0049	190.01	0.0004	0.008452
Co	59	3	He	-0.063	0.0034	132.00	0.0413	0.006013
Co	59	3	He	-0.067	0.0033	128.00	0.0413	0.006013
Co	59	3	He	-0.048	0.004	156.00	0.0413	0.006013
Ni	60	3	He	-0.297	0.0082	320.00	0.0117	0.01172
Ni	60	3	He	-0.318	0.008	314.01	0.0117	0.01172
Ni	60	3	He	-0.248	0.0088	340.01	0.0117	0.01172
Cu	63	3	He	-0.251	0.0095	616.02	0.0196	0.01443
Cu	63	3	He	-0.275	0.009	584.01	0.0196	0.01443
Cu	63	3	He	-0.333	0.0079	510.01	0.0196	0.01443
Zn	66	3	He	1.035	0.0052	334.01	0.0023	0.002807
Zn	66	3	He	0.837	0.0047	304.00	0.0023	0.002807
Zn	66	3	He	0.936	0.0049	318.01	0.0023	0.002807
As	75	3	He	0.182	0.0016	104.00	0.0018	0.001271
As	75	3	He	0.37	0.002	126.00	0.0018	0.001271
As	75	3	He	0.035	0.0013	86.00	0.0018	0.001271
Sr	88	3	He	-0.069	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.044	0.0008	40.00	0.0082	0.00114
Sr	88	3	He	-0.07	0.0006	30.00	0.0082	0.00114
Mo	98	3	He	-0.063	0.0004	20.00	0.0177	0.001504
Mo	98	3	He	-0.041	0.0008	40.00	0.0177	0.001504
Mo	98	3	He	-0.053	0.0006	30.00	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.083	0.012	630.04	0.0126	0.01097
Sn	120	3	He	-0.27	0.0076	390.02	0.0126	0.01097
Sn	120	3	He	-0.211	0.0083	440.02	0.0126	0.01097
Sb	121	3	He	0.049	0.001	50.00	0.012	0.0003595
Sb	121	3	He	0.002	0.0004	20.00	0.012	0.0003595
Sb	121	3	He	0.007	0.0004	23.33	0.012	0.0003595
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Ba	137	3	He	0.006	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.052	0.0006	30.00	0.0039	0.0003633
Tl	205	3	He	-0.056	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.04	0.0006	110.00	0.0189	0.001334
Pb	208	3	He	-0.015	0.0011	130.00	0.0252	0.001497
Pb	208	3	He	-0.001	0.0015	190.01	0.0252	0.001497
Pb	208	3	He	-0.003	0.0014	120.00	0.0252	0.001497
U	238	3	He	-0.002	0.0001	10.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
U	238	3	He	-0.002	0.0001	10.00	0.0245	0.0001141
Sc	45	1	No Gas			1616186.07		
Sc	45	1	No Gas			1621279.51		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1639778.26		
Ge	72	1	No Gas			818269.83		
Ge	72	1	No Gas			816138.89		
Ge	72	1	No Gas			818648.50		
Sc	45	2	H2			131646.02		
Sc	45	2	H2			133984.59		
Sc	45	2	H2			128459.83		
Ge	72	2	H2			97785.82		
Ge	72	2	H2			96247.36		
Ge	72	2	H2			97021.83		
In	115	2	H2			242263.94		
In	115	2	H2			245710.62		
In	115	2	H2			244087.87		
Sc	45	3	He			38896.51		
Sc	45	3	He			39347.65		
Sc	45	3	He			38606.47		
Ge	72	3	He			64740.63		
Ge	72	3	He			64539.87		
Ge	72	3	He			64439.98		
In	115	3	He			52478.92		
In	115	3	He			51555.53		
In	115	3	He			52920.32		
Tb	159	3	He			188647.05		
Tb	159	3	He			189730.92		
Tb	159	3	He			188451.19		
Bi	209	3	He			141561.49		
Bi	209	3	He			138764.05		
Bi	209	3	He			142278.40		

Quantitation Report

Data File Name	335SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 10:20:18 PM
Sample Name	LCS 410-669181/2-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

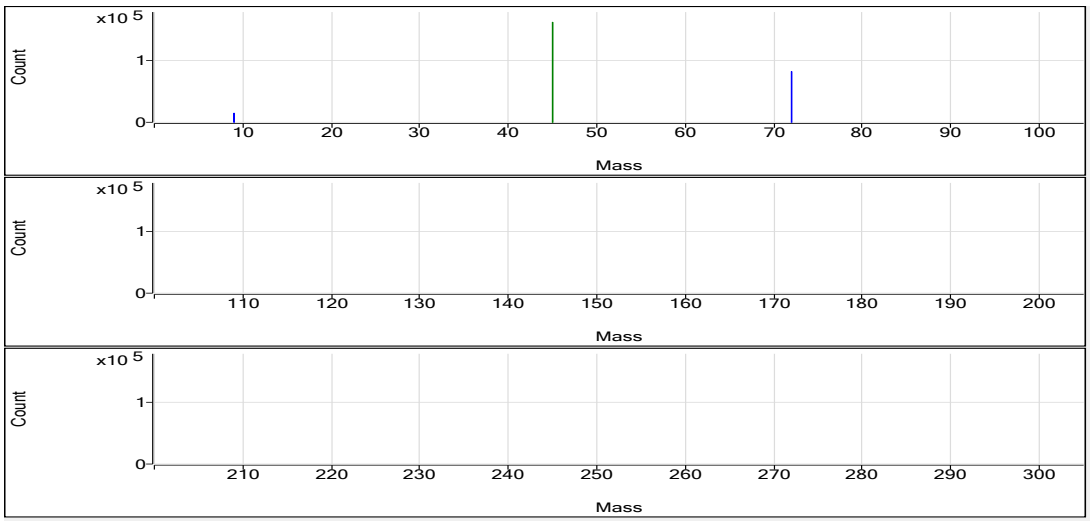
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	55.164	ppb	3.1	30060.64	0.0186	Pulse	0.5000	3
Se	78	72	H2	103.048	ppb	2.7	3917.82	0.0400	Pulse	1.5000	3
Na	23	45	He	5292.230	ppb	2.0	540612.92	13.9423	Pulse	0.1000	3
Mg	24	45	He	5382.058	ppb	1.7	253717.84	6.5432	Pulse	0.1000	3
Al	27	45	He	5467.561	ppb	2.2	80163.24	2.0672	Pulse	0.1000	3
K	39	45	He	5404.596	ppb	0.9	228689.41	5.8972	Pulse	0.5000	3
Ca	44	45	He	5380.888	ppb	2.5	11154.48	0.2877	Pulse	0.5000	3
Ti	47	45	He	547.653	ppb	0.8	8704.34	0.2244	Pulse	0.5000	3
V	51	45	He	539.998	ppb	2.7	369256.37	9.5238	Pulse	0.5000	3
Cr	52	45	He	545.270	ppb	2.6	461257.52	11.8964	Pulse	0.1000	3
Mn	55	45	He	544.773	ppb	2.4	192936.97	4.9761	Pulse	0.5000	3
Fe	57	45	He	5516.983	ppb	2.2	85752.72	2.2116	Pulse	0.1000	3
Co	59	45	He	537.584	ppb	2.6	860824.64	22.2021	Pulse	0.5000	3
Ni	60	45	He	537.670	ppb	1.9	245319.04	6.3267	Pulse	0.5000	3
Cu	63	72	He	517.998	ppb	1.0	682946.71	10.1476	Pulse	0.5000	3
Zn	66	72	He	522.104	ppb	0.7	80050.04	1.1894	Pulse	0.5000	3
As	75	72	He	514.011	ppb	1.0	63764.75	0.9474	Pulse	0.5000	3
Sr	88	115	He	53.465	ppb	1.7	22920.35	0.4404	Pulse	0.1000	3
Mo	98	115	He	52.781	ppb	0.4	48735.84	0.9364	Pulse	0.1000	3
Ag	107	115	He	52.842	ppb	1.1	101199.34	1.9445	Pulse	0.1000	3
Cd	111	115	He	53.881	ppb	0.6	11506.94	0.2211	Pulse	0.5000	3
Sn	120	115	He	106.862	ppb	0.6	70578.42	1.3560	Pulse	0.1000	3
Sb	121	115	He	105.861	ppb	1.6	66383.08	1.2756	Pulse	0.3000	3
Ba	137	115	He	535.676	ppb	2.1	108784.30	2.0904	Pulse	0.1000	3
Tl	205	159	He	105.134	ppb	1.4	378199.07	1.9925	Pulse	0.1000	3
Pb	208	159	He	53.822	ppb	1.9	257282.26	1.3555	Pulse	0.1000	3
U	238	159	He	54.342	ppb	1.4	253229.52	1.3341	Pulse	0.1000	3

ISTD Table:

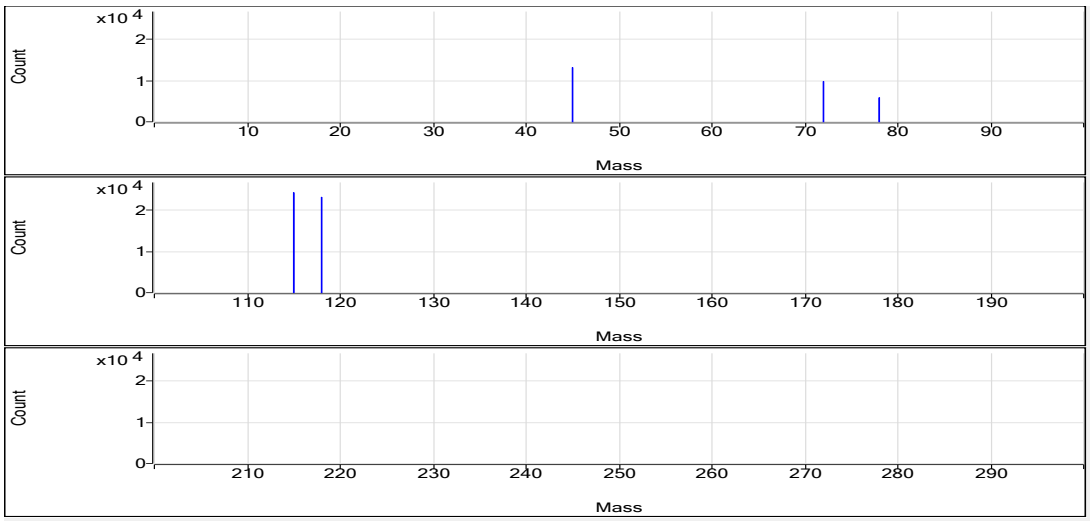
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1616750.34	0.3	94.6	Analog	0.1000	3
No Gas	Ge	72	820818.79	0.7	95.0	Pulse	0.1000	3
H2	Sc	45	131614.43	2.4	98.5	Pulse	0.1000	3
H2	Ge	72	97914.02	2.3	98.8	Pulse	0.1000	3
H2	In	115	242579.97	1.7	94.5	Pulse	0.1000	3
He	Sc	45	38782.94	1.6	98.3	Pulse	0.1000	3
He	Ge	72	67304.41	0.7	98.8	Pulse	0.1000	3
He	In	115	52048.53	1.1	93.9	Pulse	0.1000	3
He	Tb	159	189824.13	1.0	92.7	Pulse	0.1000	3
He	Bi	209	141365.92	0.5	93.5	Pulse	0.1000	3

No Gas

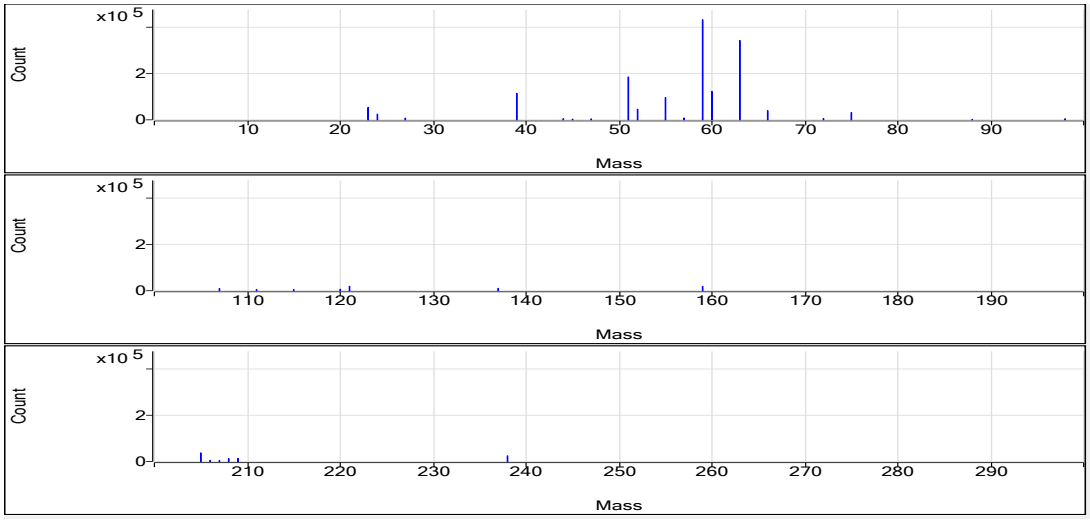


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	53.302	0.018	28940.69	0.0003	2.616E-05
Be	9	1	No Gas	55.478	0.0187	30283.04	0.0003	2.616E-05
Be	9	1	No Gas	56.712	0.0191	30958.20	0.0003	2.616E-05
Se	78	2	H2	100.342	0.039	3856.47	0.0004	6.3E-05
Se	78	2	H2	102.991	0.04	3977.83	0.0004	6.3E-05
Se	78	2	H2	105.811	0.0411	3919.15	0.0004	6.3E-05
Na	23	3	He	5190.953	13.6898	539622.41	0.0025	0.7502
Na	23	3	He	5283.896	13.9215	539542.34	0.0025	0.7502
Na	23	3	He	5401.842	14.2155	542674.02	0.0025	0.7502
Mg	24	3	He	5290.842	6.4327	253564.37	0.0012	0.02618
Mg	24	3	He	5381.281	6.5422	253551.79	0.0012	0.02618
Mg	24	3	He	5474.052	6.6546	254037.36	0.0012	0.02618
Al	27	3	He	5361.225	2.0271	79902.10	0.0004	0.005329
Al	27	3	He	5598.738	2.1166	82031.96	0.0004	0.005329
Al	27	3	He	5442.721	2.0578	78555.67	0.0004	0.005329
K	39	3	He	5351.231	5.8442	230364.98	0.001	0.5307
K	39	3	He	5414.307	5.9068	228925.00	0.001	0.5307
K	39	3	He	5448.251	5.9405	226778.25	0.001	0.5307
Ca	44	3	He	5240.976	0.2803	11049.74	0.0001	0.004441
Ca	44	3	He	5394.69	0.2884	11177.83	0.0001	0.004441
Ca	44	3	He	5506.998	0.2943	11235.87	0.0001	0.004441
Ti	47	3	He	551.494	0.226	8908.45	0.0004	0.0004559
Ti	47	3	He	543.255	0.2226	8628.31	0.0004	0.0004559
Ti	47	3	He	548.21	0.2247	8576.27	0.0004	0.0004559
V	51	3	He	525.055	9.261	365048.97	0.0176	0.02609
V	51	3	He	540.982	9.5411	369776.88	0.0176	0.02609
V	51	3	He	553.957	9.7693	372943.25	0.0176	0.02609
Cr	52	3	He	529.231	11.548	455196.44	0.0217	0.05061
Cr	52	3	He	550.994	12.0208	465878.59	0.0217	0.05061
Cr	52	3	He	555.584	12.1205	462697.53	0.0217	0.05061
Mn	55	3	He	531.981	4.8595	191550.08	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	544.024	4.9692	192588.38	0.0091	0.01071
Mn	55	3	He	558.315	5.0995	194672.45	0.0091	0.01071
Fe	57	3	He	5381.389	2.1574	85041.71	0.0004	0.008452
Fe	57	3	He	5558.771	2.2283	86359.34	0.0004	0.008452
Fe	57	3	He	5610.789	2.249	85857.12	0.0004	0.008452
Co	59	3	He	523.964	21.6398	852992.75	0.0413	0.006013
Co	59	3	He	536.978	22.1771	859497.13	0.0413	0.006013
Co	59	3	He	551.81	22.7895	869984.06	0.0413	0.006013
Ni	60	3	He	526.23	6.1923	244089.00	0.0117	0.01172
Ni	60	3	He	540.459	6.3595	246468.19	0.0117	0.01172
Ni	60	3	He	546.32	6.4283	245399.92	0.0117	0.01172
Cu	63	3	He	512.453	10.0391	679069.56	0.0196	0.01443
Cu	63	3	He	518.888	10.165	686558.31	0.0196	0.01443
Cu	63	3	He	522.654	10.2386	683212.25	0.0196	0.01443
Zn	66	3	He	518.333	1.1808	79875.21	0.0023	0.002807
Zn	66	3	He	521.937	1.189	80309.33	0.0023	0.002807
Zn	66	3	He	526.043	1.1984	79965.57	0.0023	0.002807
As	75	3	He	507.846	0.9361	63319.62	0.0018	0.001271
As	75	3	He	516.876	0.9527	64347.75	0.0018	0.001271
As	75	3	He	517.311	0.9535	63626.88	0.0018	0.001271
Sr	88	3	He	53.179	0.4381	22897.06	0.0082	0.00114
Sr	88	3	He	54.489	0.4488	23077.31	0.0082	0.00114
Sr	88	3	He	52.726	0.4344	22786.69	0.0082	0.00114
Mo	98	3	He	53.003	0.9403	49147.26	0.0177	0.001504
Mo	98	3	He	52.791	0.9365	48153.97	0.0177	0.001504
Mo	98	3	He	52.548	0.9322	48906.29	0.0177	0.001504
Ag	107	3	He	53.039	1.9517	102011.39	0.0368	0.001325
Ag	107	3	He	53.321	1.9621	100883.66	0.0368	0.001325
Ag	107	3	He	52.165	1.9196	100702.97	0.0368	0.001325
Cd	111	3	He	54.043	0.2218	11590.34	0.0041	4.798E-05
Cd	111	3	He	54.065	0.2218	11406.20	0.0041	4.798E-05
Cd	111	3	He	53.536	0.2197	11524.28	0.0041	4.798E-05
Sn	120	3	He	106.065	1.346	70352.37	0.0126	0.01097
Sn	120	3	He	107.32	1.3618	70018.65	0.0126	0.01097
Sn	120	3	He	107.202	1.3603	71364.25	0.0126	0.01097
Sb	121	3	He	105.465	1.2708	66421.03	0.012	0.0003595
Sb	121	3	He	107.73	1.2981	66742.30	0.012	0.0003595
Sb	121	3	He	104.387	1.2578	65985.92	0.012	0.0003595
Ba	137	3	He	527.428	2.0582	107575.63	0.0039	0.0003633
Ba	137	3	He	548.66	2.141	110083.38	0.0039	0.0003633
Ba	137	3	He	530.941	2.0719	108693.89	0.0039	0.0003633
Tl	205	3	He	103.553	1.9626	376594.60	0.0189	0.001334
Tl	205	3	He	106.39	2.0163	379800.07	0.0189	0.001334
Tl	205	3	He	105.46	1.9987	378202.53	0.0189	0.001334
Pb	208	3	He	52.664	1.3264	136261.18	0.0252	0.001497
Pb	208	3	He	54.117	1.3629	138301.59	0.0252	0.001497
Pb	208	3	He	54.687	1.3773	138773.95	0.0252	0.001497
U	238	3	He	53.469	1.3127	251887.85	0.0245	0.0001141
U	238	3	He	54.788	1.3451	253362.30	0.0245	0.0001141
U	238	3	He	54.77	1.3446	254438.41	0.0245	0.0001141
Sc	45	1	No Gas			1610904.19		
Sc	45	1	No Gas			1619601.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1619745.29		
Ge	72	1	No Gas			820204.68		
Ge	72	1	No Gas			815469.83		
Ge	72	1	No Gas			826781.86		
Sc	45	2	H2			131049.84		
Sc	45	2	H2			134951.09		
Sc	45	2	H2			128842.35		
Ge	72	2	H2			98943.39		
Ge	72	2	H2			99436.18		
Ge	72	2	H2			95362.49		
In	115	2	H2			241979.39		
In	115	2	H2			246906.87		
In	115	2	H2			238853.65		
Sc	45	3	He			39417.85		
Sc	45	3	He			38756.11		
Sc	45	3	He			38174.85		
Ge	72	3	He			67642.64		
Ge	72	3	He			67541.68		
Ge	72	3	He			66728.92		
In	115	3	He			52760.03		
In	115	3	He			51906.63		
In	115	3	He			52961.08		
Tb	159	3	He			191886.60		
Tb	159	3	He			188362.40		
Tb	159	3	He			189223.40		
Bi	209	3	He			140572.51		
Bi	209	3	He			141752.35		
Bi	209	3	He			141772.89		

Quantitation Report

Data File Name	336SMPL.d
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Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

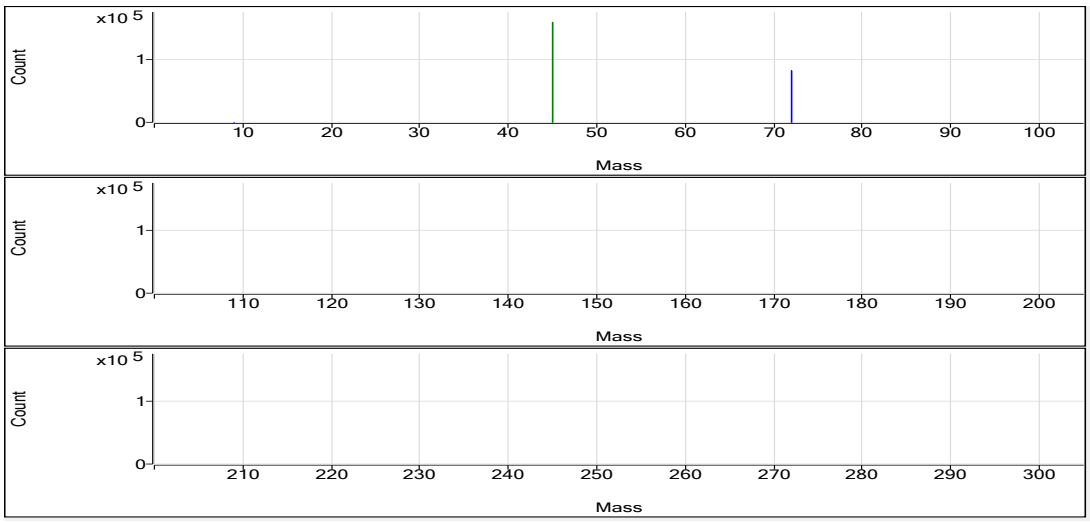
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.080	ppb	8.0	85.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.098	ppb	79.9	10.00	0.0001	Pulse	1.5000	3
Na	23	45	He	24304.014	ppb	4.1	2374269.13	61.3334	Analog	0.1000	3
Mg	24	45	He	11763.262	ppb	3.5	552475.42	14.2700	Pulse	0.1000	3
Al	27	45	He	-0.363	ppb	N/A	200.01	0.0052	Pulse	0.1000	3
K	39	45	He	1045.315	ppb	11.0	60679.33	1.5686	Pulse	0.5000	3
Ca	44	45	He	48285.188	ppb	2.5	98599.57	2.5461	Pulse	0.5000	3
Ti	47	45	He	-0.141	ppb	N/A	15.33	0.0004	Pulse	0.5000	3
V	51	45	He	0.130	ppb	71.7	1098.05	0.0284	Pulse	0.5000	3
Cr	52	45	He	-0.640	ppb	N/A	1420.11	0.0367	Pulse	0.1000	3
Mn	55	45	He	0.056	ppb	34.1	434.68	0.0112	Pulse	0.5000	3
Fe	57	45	He	3.467	ppb	146.7	380.02	0.0098	Pulse	0.1000	3
Co	59	45	He	0.282	ppb	9.4	684.02	0.0177	Pulse	0.5000	3
Ni	60	45	He	0.182	ppb	47.0	536.01	0.0139	Pulse	0.5000	3
Cu	63	72	He	6.020	ppb	0.4	8781.75	0.1322	Pulse	0.5000	3
Zn	66	72	He	7.191	ppb	1.9	1272.06	0.0192	Pulse	0.5000	3
As	75	72	He	0.716	ppb	27.2	172.00	0.0026	Pulse	0.5000	3
Sr	88	115	He	87.987	ppb	4.4	37942.66	0.7241	Pulse	0.1000	3
Mo	98	115	He	0.190	ppb	50.4	256.68	0.0049	Pulse	0.1000	3
Ag	107	115	He	0.026	ppb	31.2	120.01	0.0023	Pulse	0.1000	3
Cd	111	115	He	0.038	ppb	53.0	10.67	0.0002	Pulse	0.5000	3
Sn	120	115	He	-0.018	ppb	N/A	563.36	0.0107	Pulse	0.1000	3
Sb	121	115	He	0.246	ppb	7.2	174.45	0.0033	Pulse	0.3000	3
Ba	137	115	He	24.029	ppb	5.9	4930.97	0.0941	Pulse	0.1000	3
Tl	205	159	He	0.155	ppb	8.5	803.39	0.0043	Pulse	0.1000	3
Pb	208	159	He	0.662	ppb	9.6	3410.29	0.0182	Pulse	0.1000	3
U	238	159	He	0.242	ppb	17.5	1136.75	0.0061	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1605399.82	1.4	94.0	Analog	0.1000	3
No Gas	Ge	72	828851.94	0.5	95.9	Pulse	0.1000	3
H2	Sc	45	130818.40	0.5	97.9	Pulse	0.1000	3
H2	Ge	72	98933.36	0.7	99.9	Pulse	0.1000	3
H2	In	115	241208.02	1.0	94.0	Pulse	0.1000	3
He	Sc	45	38749.81	3.8	98.2	Pulse	0.1000	3
He	Ge	72	66428.04	1.0	97.5	Pulse	0.1000	3
He	In	115	52441.70	2.6	94.7	Pulse	0.1000	3
He	Tb	159	187964.47	1.1	91.8	Pulse	0.1000	3
He	Bi	209	139666.51	1.5	92.3	Pulse	0.1000	3

No Gas



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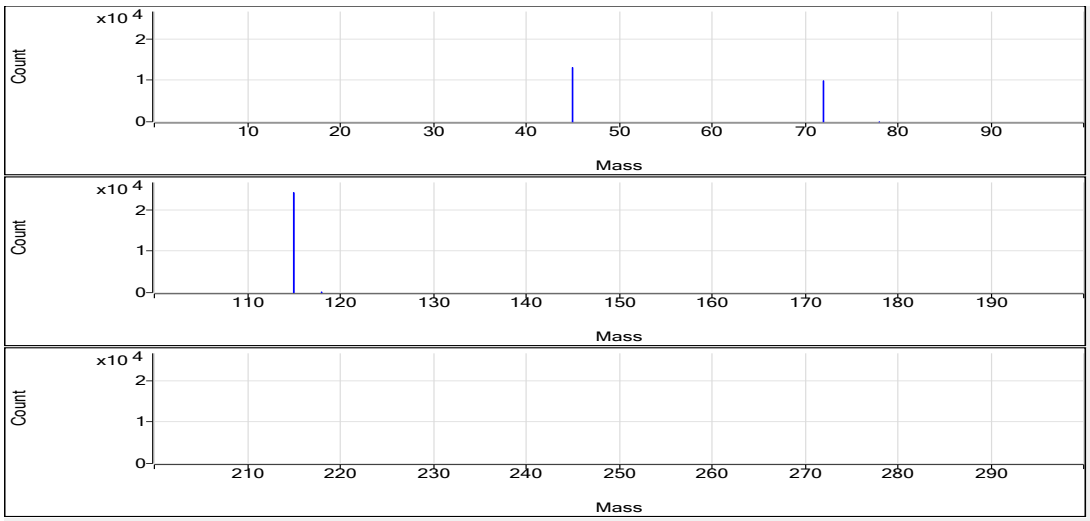
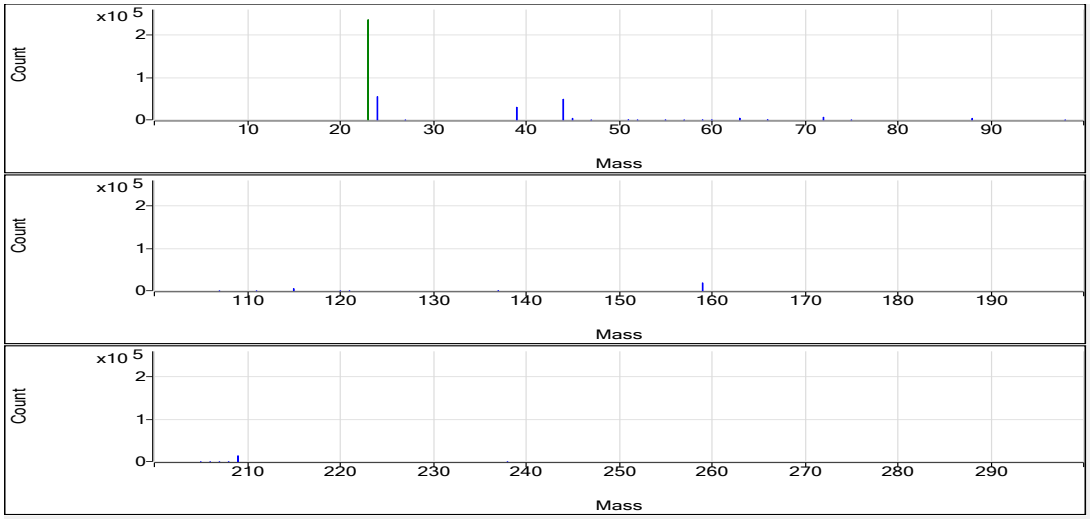


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.084	0.0001	88.00	0.0003	2.616E-05
Be	9	1	No Gas	0.073	0.0001	80.00	0.0003	2.616E-05
Be	9	1	No Gas	0.083	0.0001	88.00	0.0003	2.616E-05
Se	78	2	H2	0.028	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	0.183	0.0001	13.33	0.0004	6.3E-05
Se	78	2	H2	0.083	0.0001	9.33	0.0004	6.3E-05
Na	23	3	He	24988.592	63.0398	2361687.00	0.0025	0.7502
Na	23	3	He	24764.277	62.4807	2400861.21	0.0025	0.7502
Na	23	3	He	23159.172	58.4796	2360259.18	0.0025	0.7502
Mg	24	3	He	12133.891	14.7188	551416.55	0.0012	0.02618
Mg	24	3	He	11829.602	14.3504	551421.55	0.0012	0.02618
Mg	24	3	He	11326.292	13.7409	554588.16	0.0012	0.02618
Al	27	3	He	5.688	0.0075	280.01	0.0004	0.005329
Al	27	3	He	-4.471	0.0036	140.00	0.0004	0.005329
Al	27	3	He	-2.305	0.0045	180.01	0.0004	0.005329
K	39	3	He	1170.352	1.6928	63416.75	0.001	0.5307
K	39	3	He	1020.489	1.544	59327.61	0.001	0.5307
K	39	3	He	945.104	1.4691	59293.64	0.001	0.5307
Ca	44	3	He	49354.31	2.6024	97495.77	0.0001	0.004441
Ca	44	3	He	48546.864	2.5599	98366.73	0.0001	0.004441
Ca	44	3	He	46954.39	2.4761	99936.20	0.0001	0.004441
Ti	47	3	He	0.06	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	-0.097	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	-0.388	0.0003	12.00	0.0004	0.0004559
V	51	3	He	0.213	0.0298	1118.05	0.0176	0.02609
V	51	3	He	0.147	0.0287	1102.05	0.0176	0.02609
V	51	3	He	0.029	0.0266	1074.04	0.0176	0.02609
Cr	52	3	He	-0.363	0.0427	1600.14	0.0217	0.05061
Cr	52	3	He	-0.916	0.0307	1180.08	0.0217	0.05061
Cr	52	3	He	-0.642	0.0367	1480.11	0.0217	0.05061
Mn	55	3	He	0.055	0.0112	420.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.076	0.0114	438.01	0.0091	0.01071
Mn	55	3	He	0.037	0.0111	446.01	0.0091	0.01071
Fe	57	3	He	2.899	0.0096	360.02	0.0004	0.008452
Fe	57	3	He	8.813	0.012	460.02	0.0004	0.008452
Fe	57	3	He	-1.31	0.0079	320.02	0.0004	0.008452
Co	59	3	He	0.29	0.018	674.02	0.0413	0.006013
Co	59	3	He	0.304	0.0186	714.02	0.0413	0.006013
Co	59	3	He	0.253	0.0165	664.02	0.0413	0.006013
Ni	60	3	He	0.252	0.0147	550.01	0.0117	0.01172
Ni	60	3	He	0.208	0.0142	544.01	0.0117	0.01172
Ni	60	3	He	0.087	0.0127	514.01	0.0117	0.01172
Cu	63	3	He	5.995	0.1317	8652.35	0.0196	0.01443
Cu	63	3	He	6.027	0.1323	8806.43	0.0196	0.01443
Cu	63	3	He	6.038	0.1326	8886.47	0.0196	0.01443
Zn	66	3	He	7.258	0.0193	1268.06	0.0023	0.002807
Zn	66	3	He	7.281	0.0194	1288.06	0.0023	0.002807
Zn	66	3	He	7.035	0.0188	1260.06	0.0023	0.002807
As	75	3	He	0.682	0.0025	166.00	0.0018	0.001271
As	75	3	He	0.926	0.003	198.00	0.0018	0.001271
As	75	3	He	0.541	0.0023	152.00	0.0018	0.001271
Sr	88	3	He	83.777	0.6895	37224.08	0.0082	0.00114
Sr	88	3	He	91.366	0.7518	38667.81	0.0082	0.00114
Sr	88	3	He	88.819	0.7309	37936.08	0.0082	0.00114
Mo	98	3	He	0.25	0.0059	320.01	0.0177	0.001504
Mo	98	3	He	0.08	0.0029	150.01	0.0177	0.001504
Mo	98	3	He	0.241	0.0058	300.01	0.0177	0.001504
Ag	107	3	He	0.029	0.0024	130.00	0.0368	0.001325
Ag	107	3	He	0.017	0.0019	100.01	0.0368	0.001325
Ag	107	3	He	0.032	0.0025	130.01	0.0368	0.001325
Cd	111	3	He	0.015	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.045	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.054	0.0003	14.00	0.0041	4.798E-05
Sn	120	3	He	0.041	0.0115	620.03	0.0126	0.01097
Sn	120	3	He	0.009	0.0111	570.03	0.0126	0.01097
Sn	120	3	He	-0.106	0.0096	500.03	0.0126	0.01097
Sb	121	3	He	0.242	0.0033	176.67	0.012	0.0003595
Sb	121	3	He	0.266	0.0036	183.34	0.012	0.0003595
Sb	121	3	He	0.231	0.0031	163.34	0.012	0.0003595
Ba	137	3	He	22.698	0.0889	4800.94	0.0039	0.0003633
Ba	137	3	He	25.527	0.1	5141.03	0.0039	0.0003633
Ba	137	3	He	23.861	0.0935	4850.95	0.0039	0.0003633
Tl	205	3	He	0.168	0.0045	860.06	0.0189	0.001334
Tl	205	3	He	0.142	0.004	750.05	0.0189	0.001334
Tl	205	3	He	0.155	0.0043	800.05	0.0189	0.001334
Pb	208	3	He	0.599	0.0166	1620.17	0.0252	0.001497
Pb	208	3	He	0.725	0.0197	1930.20	0.0252	0.001497
Pb	208	3	He	0.663	0.0182	1640.15	0.0252	0.001497
U	238	3	He	0.205	0.0052	980.06	0.0245	0.0001141
U	238	3	He	0.288	0.0072	1340.11	0.0245	0.0001141
U	238	3	He	0.233	0.0058	1090.08	0.0245	0.0001141
Sc	45	1	No Gas			1614982.79		
Sc	45	1	No Gas			1579266.70		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1621949.98		
Ge	72	1	No Gas			826251.94		
Ge	72	1	No Gas			826997.10		
Ge	72	1	No Gas			833306.78		
Sc	45	2	H2			131604.99		
Sc	45	2	H2			130314.95		
Sc	45	2	H2			130535.25		
Ge	72	2	H2			98993.84		
Ge	72	2	H2			99617.28		
Ge	72	2	H2			98188.96		
In	115	2	H2			239112.24		
In	115	2	H2			243837.30		
In	115	2	H2			240674.53		
Sc	45	3	He			37463.40		
Sc	45	3	He			38425.65		
Sc	45	3	He			40360.38		
Ge	72	3	He			65694.96		
Ge	72	3	He			66548.80		
Ge	72	3	He			67040.35		
In	115	3	He			53993.99		
In	115	3	He			51436.00		
In	115	3	He			51906.95		
Tb	159	3	He			190295.11		
Tb	159	3	He			186441.42		
Tb	159	3	He			187156.89		
Bi	209	3	He			137200.42		
Bi	209	3	He			140763.12		
Bi	209	3	He			141035.99		

Quantitation Report

Data File Name	337SMPL.d
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Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

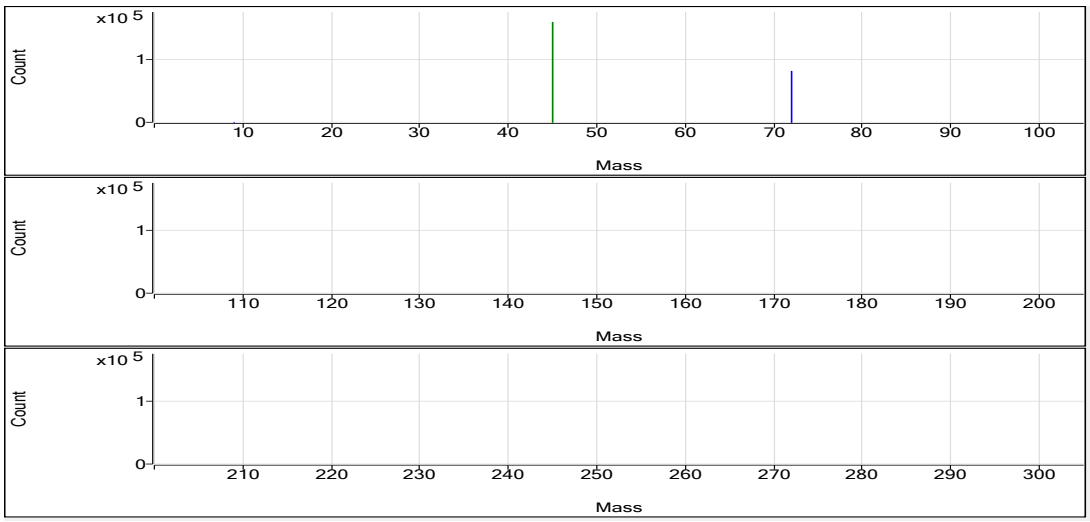
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.016	ppb	72.6	50.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.064	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	23983.510	ppb	1.4	2360548.30	60.5345	Analog	0.1000	3
Mg	24	45	He	11547.079	ppb	0.8	546267.36	14.0083	Pulse	0.1000	3
Al	27	45	He	-4.154	ppb	N/A	146.67	0.0038	Pulse	0.1000	3
K	39	45	He	1015.484	ppb	6.1	60012.28	1.5390	Pulse	0.5000	3
Ca	44	45	He	47617.252	ppb	1.5	97915.53	2.5110	Pulse	0.5000	3
Ti	47	45	He	-0.613	ppb	N/A	8.00	0.0002	Pulse	0.5000	3
V	51	45	He	-0.102	ppb	N/A	947.37	0.0243	Pulse	0.5000	3
Cr	52	45	He	-0.700	ppb	N/A	1380.10	0.0354	Pulse	0.1000	3
Mn	55	45	He	-0.066	ppb	N/A	394.01	0.0101	Pulse	0.5000	3
Fe	57	45	He	-1.274	ppb	N/A	310.01	0.0079	Pulse	0.1000	3
Co	59	45	He	0.072	ppb	38.4	350.01	0.0090	Pulse	0.5000	3
Ni	60	45	He	-0.002	ppb	N/A	456.01	0.0117	Pulse	0.5000	3
Cu	63	72	He	5.695	ppb	4.6	8404.88	0.1258	Pulse	0.5000	3
Zn	66	72	He	7.489	ppb	6.3	1324.06	0.0198	Pulse	0.5000	3
As	75	72	He	0.488	ppb	30.1	144.67	0.0022	Pulse	0.5000	3
Sr	88	115	He	86.364	ppb	1.8	37214.45	0.7107	Pulse	0.1000	3
Mo	98	115	He	0.005	ppb	904.1	83.33	0.0016	Pulse	0.1000	3
Ag	107	115	He	0.004	ppb	436.9	76.67	0.0015	Pulse	0.1000	3
Cd	111	115	He	0.016	ppb	2.6	6.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.020	ppb	628.9	586.70	0.0112	Pulse	0.1000	3
Sb	121	115	He	0.090	ppb	5.4	75.55	0.0014	Pulse	0.3000	3
Ba	137	115	He	25.289	ppb	4.9	5184.39	0.0990	Pulse	0.1000	3
Tl	205	159	He	0.008	ppb	181.5	280.01	0.0015	Pulse	0.1000	3
Pb	208	159	He	0.641	ppb	4.2	3303.58	0.0176	Pulse	0.1000	3
U	238	159	He	0.142	ppb	7.3	673.37	0.0036	Pulse	0.1000	3

ISTD Table:

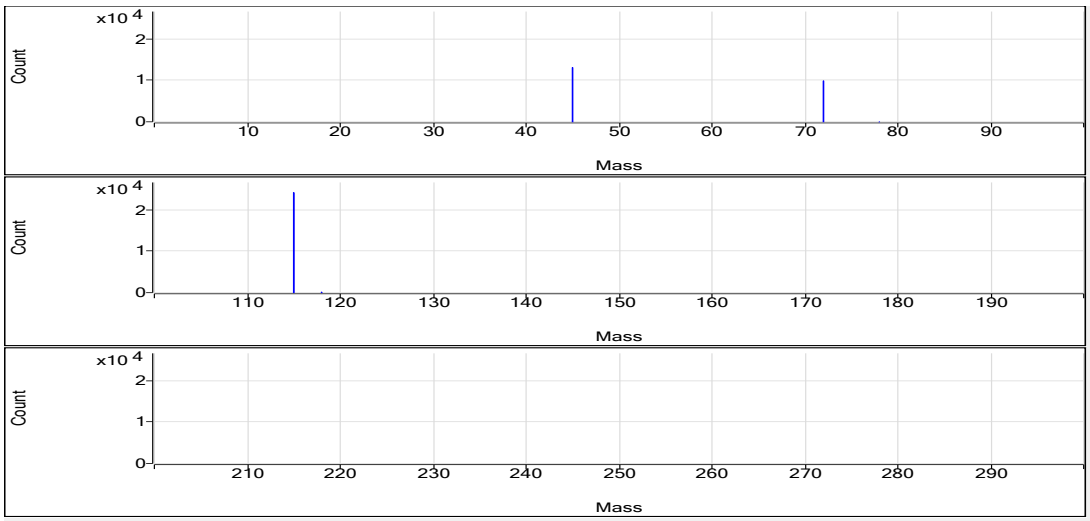
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1604759.09	1.5	93.9	Analog	0.1000	3
No Gas	Ge	72	820216.16	0.4	94.9	Pulse	0.1000	3
H2	Sc	45	131389.49	1.6	98.3	Pulse	0.1000	3
H2	Ge	72	99121.72	0.6	100.1	Pulse	0.1000	3
H2	In	115	242191.58	0.2	94.4	Pulse	0.1000	3
He	Sc	45	38997.15	0.6	98.8	Pulse	0.1000	3
He	Ge	72	66812.63	2.0	98.1	Pulse	0.1000	3
He	In	115	52368.10	1.5	94.5	Pulse	0.1000	3
He	Tb	159	187515.51	1.2	91.6	Pulse	0.1000	3
He	Bi	209	140440.84	1.2	92.8	Pulse	0.1000	3

No Gas

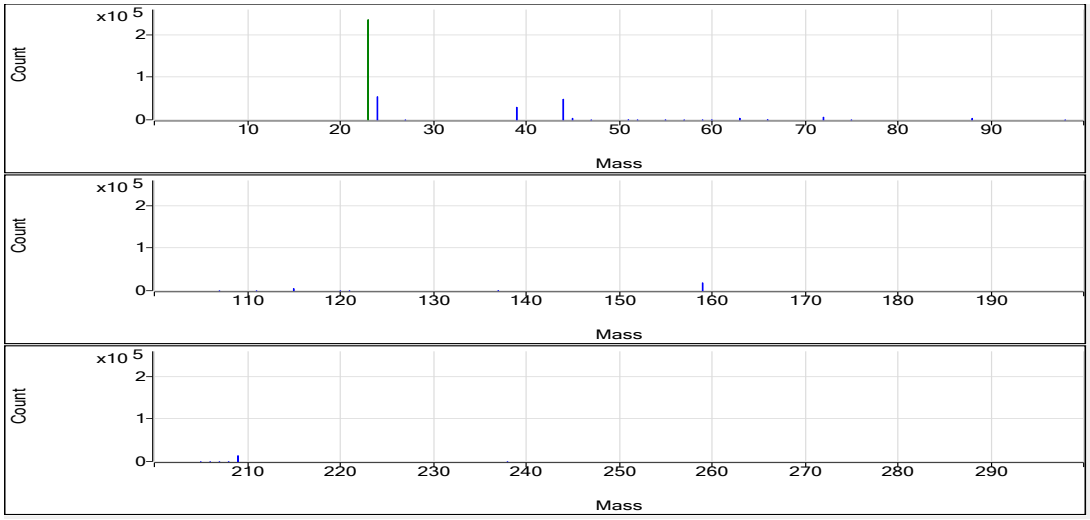


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.004	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.027	0	56.00	0.0003	2.616E-05
Be	9	1	No Gas	0.017	0	52.00	0.0003	2.616E-05
Se	78	2	H2	-0.007	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.111	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.075	0	3.33	0.0004	6.3E-05
Na	23	3	He	24283.703	61.2828	2382479.81	0.0025	0.7502
Na	23	3	He	23611.264	59.6065	2340619.18	0.0025	0.7502
Na	23	3	He	24055.564	60.7141	2358545.90	0.0025	0.7502
Mg	24	3	He	11629.76	14.1084	548488.74	0.0012	0.02618
Mg	24	3	He	11456.225	13.8982	545753.51	0.0012	0.02618
Mg	24	3	He	11555.251	14.0181	544559.84	0.0012	0.02618
Al	27	3	He	-3.9	0.0039	150.01	0.0004	0.005329
Al	27	3	He	-5.353	0.0033	130.01	0.0004	0.005329
Al	27	3	He	-3.21	0.0041	160.00	0.0004	0.005329
K	39	3	He	1087.311	1.6103	62603.77	0.001	0.5307
K	39	3	He	982.357	1.5061	59141.08	0.001	0.5307
K	39	3	He	976.784	1.5006	58292.00	0.001	0.5307
Ca	44	3	He	47965.816	2.5293	98332.65	0.0001	0.004441
Ca	44	3	He	46795.426	2.4677	96902.33	0.0001	0.004441
Ca	44	3	He	48090.514	2.5359	98511.61	0.0001	0.004441
Ti	47	3	He	-0.486	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	-0.741	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.611	0.0002	8.00	0.0004	0.0004559
V	51	3	He	-0.085	0.0246	956.03	0.0176	0.02609
V	51	3	He	-0.157	0.0233	916.03	0.0176	0.02609
V	51	3	He	-0.064	0.025	970.04	0.0176	0.02609
Cr	52	3	He	-0.731	0.0347	1350.10	0.0217	0.05061
Cr	52	3	He	-0.899	0.0311	1220.09	0.0217	0.05061
Cr	52	3	He	-0.469	0.0404	1570.12	0.0217	0.05061
Mn	55	3	He	-0.007	0.0106	414.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.124	0.0096	376.01	0.0091	0.01071
Mn	55	3	He	-0.068	0.0101	392.01	0.0091	0.01071
Fe	57	3	He	-5.062	0.0064	250.01	0.0004	0.008452
Fe	57	3	He	3.068	0.0097	380.02	0.0004	0.008452
Fe	57	3	He	-1.827	0.0077	300.01	0.0004	0.008452
Co	59	3	He	0.097	0.01	390.01	0.0413	0.006013
Co	59	3	He	0.075	0.0091	358.01	0.0413	0.006013
Co	59	3	He	0.043	0.0078	302.00	0.0413	0.006013
Ni	60	3	He	-0.139	0.0101	392.01	0.0117	0.01172
Ni	60	3	He	-0.004	0.0117	458.01	0.0117	0.01172
Ni	60	3	He	0.138	0.0133	518.01	0.0117	0.01172
Cu	63	3	He	5.917	0.1302	8718.38	0.0196	0.01443
Cu	63	3	He	5.761	0.1271	8316.16	0.0196	0.01443
Cu	63	3	He	5.407	0.1202	8180.11	0.0196	0.01443
Zn	66	3	He	7.057	0.0188	1262.06	0.0023	0.002807
Zn	66	3	He	7.994	0.021	1372.07	0.0023	0.002807
Zn	66	3	He	7.416	0.0197	1338.06	0.0023	0.002807
As	75	3	He	0.429	0.0021	138.00	0.0018	0.001271
As	75	3	He	0.655	0.0025	162.00	0.0018	0.001271
As	75	3	He	0.379	0.002	134.00	0.0018	0.001271
Sr	88	3	He	87.375	0.719	37795.84	0.0082	0.00114
Sr	88	3	He	87.186	0.7175	36943.88	0.0082	0.00114
Sr	88	3	He	84.531	0.6957	36903.63	0.0082	0.00114
Mo	98	3	He	0.055	0.0025	130.00	0.0177	0.001504
Mo	98	3	He	-0.008	0.0014	70.00	0.0177	0.001504
Mo	98	3	He	-0.032	0.0009	50.00	0.0177	0.001504
Ag	107	3	He	0.011	0.0017	90.00	0.0368	0.001325
Ag	107	3	He	0.017	0.0019	100.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.017	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Sn	120	3	He	0.066	0.0118	620.03	0.0126	0.01097
Sn	120	3	He	0.116	0.0124	640.03	0.0126	0.01097
Sn	120	3	He	-0.122	0.0094	500.03	0.0126	0.01097
Sb	121	3	He	0.086	0.0014	73.33	0.012	0.0003595
Sb	121	3	He	0.088	0.0014	73.33	0.012	0.0003595
Sb	121	3	He	0.095	0.0015	80.00	0.012	0.0003595
Ba	137	3	He	26.096	0.1022	5371.10	0.0039	0.0003633
Ba	137	3	He	25.896	0.1014	5221.09	0.0039	0.0003633
Ba	137	3	He	23.876	0.0935	4960.97	0.0039	0.0003633
Tl	205	3	He	0.013	0.0016	300.01	0.0189	0.001334
Tl	205	3	He	0.021	0.0017	320.01	0.0189	0.001334
Tl	205	3	He	-0.009	0.0012	220.01	0.0189	0.001334
Pb	208	3	He	0.621	0.0171	1780.17	0.0252	0.001497
Pb	208	3	He	0.63	0.0173	1610.15	0.0252	0.001497
Pb	208	3	He	0.671	0.0184	1720.15	0.0252	0.001497
U	238	3	He	0.153	0.0039	730.04	0.0245	0.0001141
U	238	3	He	0.132	0.0034	620.04	0.0245	0.0001141
U	238	3	He	0.14	0.0036	670.04	0.0245	0.0001141
Sc	45	1	No Gas			1599408.73		
Sc	45	1	No Gas			1583189.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1631679.51		
Ge	72	1	No Gas			821180.22		
Ge	72	1	No Gas			816926.47		
Ge	72	1	No Gas			822541.78		
Sc	45	2	H2			133821.48		
Sc	45	2	H2			130032.89		
Sc	45	2	H2			130314.09		
Ge	72	2	H2			99265.65		
Ge	72	2	H2			99669.73		
Ge	72	2	H2			98429.79		
In	115	2	H2			241960.05		
In	115	2	H2			241768.43		
In	115	2	H2			242846.25		
Sc	45	3	He			38876.84		
Sc	45	3	He			39267.82		
Sc	45	3	He			38846.78		
Ge	72	3	He			66970.41		
Ge	72	3	He			65413.39		
Ge	72	3	He			68054.08		
In	115	3	He			52569.33		
In	115	3	He			51495.95		
In	115	3	He			53051.35		
Tb	159	3	He			189225.88		
Tb	159	3	He			185082.24		
Tb	159	3	He			188238.40		
Bi	209	3	He			142026.48		
Bi	209	3	He			138754.45		
Bi	209	3	He			140541.58		

Quantitation Report

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Acq Time	7/10/2025 10:26:52 PM
Sample Name	410-231036-P-1-B MS
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

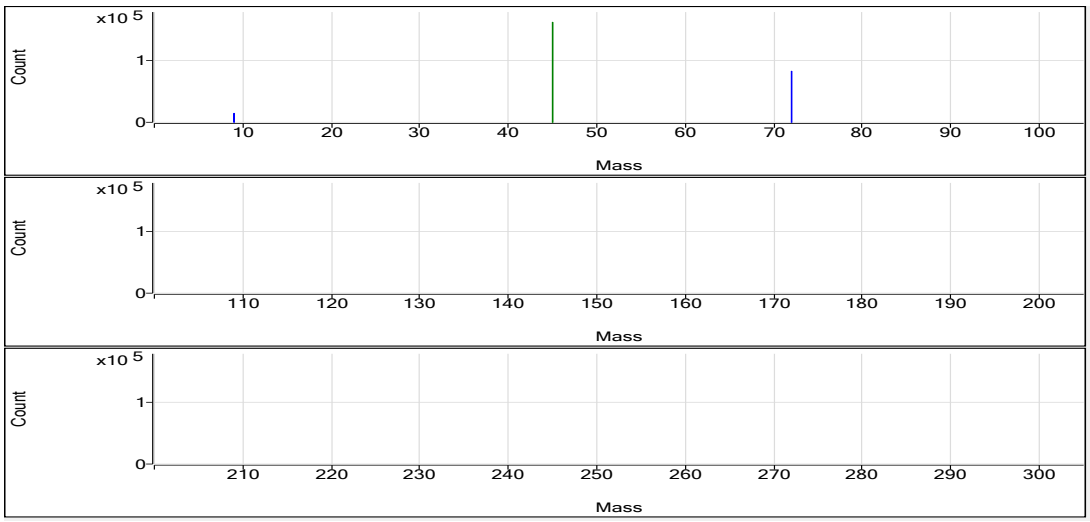
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	53.780	ppb	2.7	29627.88	0.0181	Pulse	0.5000	3
Se	78	72	H2	100.019	ppb	3.9	3888.03	0.0389	Pulse	1.5000	3
Na	23	45	He	28880.749	ppb	1.9	2882769.33	72.7419	Analog	0.1000	3
Mg	24	45	He	16552.176	ppb	0.6	795418.22	20.0688	Pulse	0.1000	3
Al	27	45	He	5233.391	ppb	0.7	78435.13	1.9788	Pulse	0.1000	3
K	39	45	He	6214.026	ppb	1.2	265581.63	6.7009	Pulse	0.5000	3
Ca	44	45	He	52270.015	ppb	1.2	109221.88	2.7559	Pulse	0.5000	3
Ti	47	45	He	530.425	ppb	2.2	8614.96	0.2174	Pulse	0.5000	3
V	51	45	He	517.954	ppb	0.9	362091.80	9.1361	Pulse	0.5000	3
Cr	52	45	He	520.576	ppb	1.5	450221.38	11.3599	Pulse	0.1000	3
Mn	55	45	He	519.875	ppb	1.2	188219.03	4.7491	Pulse	0.5000	3
Fe	57	45	He	5166.618	ppb	1.0	82114.03	2.0717	Pulse	0.1000	3
Co	59	45	He	509.052	ppb	1.3	833219.83	21.0241	Pulse	0.5000	3
Ni	60	45	He	506.474	ppb	1.3	236218.08	5.9603	Pulse	0.5000	3
Cu	63	72	He	507.455	ppb	1.7	669331.35	9.9413	Pulse	0.5000	3
Zn	66	72	He	515.581	ppb	1.2	79092.18	1.1746	Pulse	0.5000	3
As	75	72	He	506.920	ppb	1.4	62913.38	0.9344	Pulse	0.5000	3
Sr	88	115	He	140.967	ppb	2.4	59331.38	1.1594	Pulse	0.1000	3
Mo	98	115	He	52.314	ppb	2.9	47492.30	0.9281	Pulse	0.1000	3
Ag	107	115	He	52.554	ppb	0.7	98988.04	1.9339	Pulse	0.1000	3
Cd	111	115	He	54.495	ppb	2.0	11444.23	0.2236	Pulse	0.5000	3
Sn	120	115	He	105.672	ppb	4.0	68615.67	1.3411	Pulse	0.1000	3
Sb	121	115	He	104.551	ppb	1.6	64475.18	1.2598	Pulse	0.3000	3
Ba	137	115	He	552.976	ppb	3.0	110422.45	2.1579	Pulse	0.1000	3
Tl	205	159	He	103.491	ppb	1.7	371859.11	1.9614	Pulse	0.1000	3
Pb	208	159	He	52.979	ppb	0.7	252972.54	1.3343	Pulse	0.1000	3
U	238	159	He	54.173	ppb	0.8	252151.27	1.3300	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1634464.19	0.2	95.7	Analog	0.1000	3
No Gas	Ge	72	836442.80	0.4	96.8	Pulse	0.1000	3
H2	Sc	45	132297.54	0.5	99.0	Pulse	0.1000	3
H2	Ge	72	100127.15	2.4	101.1	Pulse	0.1000	3
H2	In	115	244095.64	0.2	95.1	Pulse	0.1000	3
He	Sc	45	39635.13	1.0	100.4	Pulse	0.1000	3
He	Ge	72	67344.53	2.1	98.9	Pulse	0.1000	3
He	In	115	51189.55	1.8	92.4	Pulse	0.1000	3
He	Tb	159	189596.98	0.6	92.6	Pulse	0.1000	3
He	Bi	209	140625.78	1.4	93.0	Pulse	0.1000	3

No Gas



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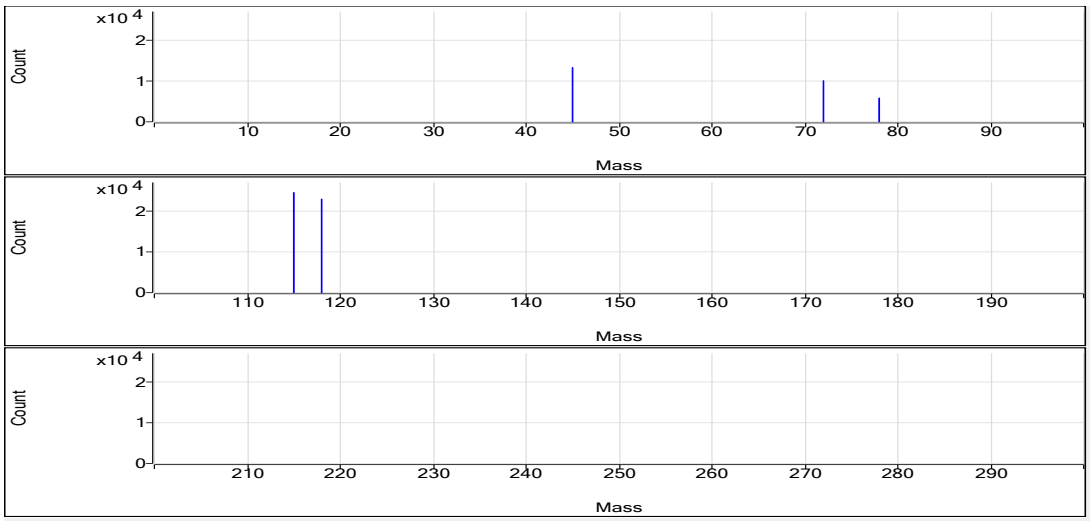
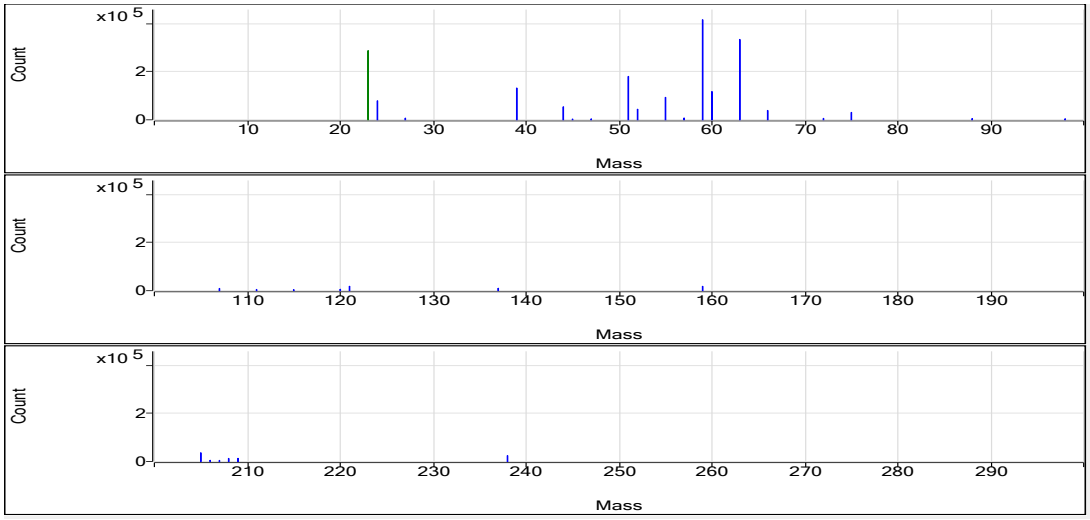


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	52.116	0.0176	28650.22	0.0003	2.616E-05
Be	9	1	No Gas	54.55	0.0184	30128.69	0.0003	2.616E-05
Be	9	1	No Gas	54.675	0.0184	30104.72	0.0003	2.616E-05
Se	78	2	H2	96.152	0.0374	3785.12	0.0004	6.3E-05
Se	78	2	H2	99.975	0.0388	3949.82	0.0004	6.3E-05
Se	78	2	H2	103.93	0.0404	3929.15	0.0004	6.3E-05
Na	23	3	He	28492.749	71.7747	2863030.58	0.0025	0.7502
Na	23	3	He	29516.835	74.3275	2911956.21	0.0025	0.7502
Na	23	3	He	28632.662	72.1235	2873321.21	0.0025	0.7502
Mg	24	3	He	16616.972	20.1473	803656.16	0.0012	0.02618
Mg	24	3	He	16598.635	20.1251	788446.63	0.0012	0.02618
Mg	24	3	He	16440.921	19.9341	794151.86	0.0012	0.02618
Al	27	3	He	5234.292	1.9792	78948.01	0.0004	0.005329
Al	27	3	He	5194.26	1.9641	76947.92	0.0004	0.005329
Al	27	3	He	5271.622	1.9933	79409.46	0.0004	0.005329
K	39	3	He	6258.589	6.7451	269057.72	0.001	0.5307
K	39	3	He	6258.987	6.7455	264272.41	0.001	0.5307
K	39	3	He	6124.501	6.612	263414.75	0.001	0.5307
Ca	44	3	He	51855.048	2.7341	109059.41	0.0001	0.004441
Ca	44	3	He	53005.588	2.7946	109486.20	0.0001	0.004441
Ca	44	3	He	51949.41	2.739	109120.02	0.0001	0.004441
Ti	47	3	He	518.837	0.2126	8482.22	0.0004	0.0004559
Ti	47	3	He	541.647	0.222	8696.33	0.0004	0.0004559
Ti	47	3	He	530.792	0.2175	8666.32	0.0004	0.0004559
V	51	3	He	517.465	9.1275	364088.13	0.0176	0.02609
V	51	3	He	522.725	9.22	361215.97	0.0176	0.02609
V	51	3	He	513.671	9.0608	360971.31	0.0176	0.02609
Cr	52	3	He	522.086	11.3928	454447.06	0.0217	0.05061
Cr	52	3	He	527.262	11.5052	450743.39	0.0217	0.05061
Cr	52	3	He	512.379	11.1819	445473.70	0.0217	0.05061
Mn	55	3	He	518.89	4.7402	189080.58	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	526.598	4.8104	188459.44	0.0091	0.01071
Mn	55	3	He	514.138	4.6968	187117.06	0.0091	0.01071
Fe	57	3	He	5144.082	2.0627	82278.30	0.0004	0.008452
Fe	57	3	He	5131.902	2.0578	80619.66	0.0004	0.008452
Fe	57	3	He	5223.872	2.0945	83444.13	0.0004	0.008452
Co	59	3	He	504.372	20.8308	830923.63	0.0413	0.006013
Co	59	3	He	516.612	21.3362	835895.50	0.0413	0.006013
Co	59	3	He	506.173	20.9052	832840.38	0.0413	0.006013
Ni	60	3	He	500.37	5.8886	234892.05	0.0117	0.01172
Ni	60	3	He	513.611	6.0441	236793.36	0.0117	0.01172
Ni	60	3	He	505.441	5.9482	236968.83	0.0117	0.01172
Cu	63	3	He	506.516	9.9229	669614.56	0.0196	0.01443
Cu	63	3	He	499.379	9.7833	672182.94	0.0196	0.01443
Cu	63	3	He	516.469	10.1176	666196.56	0.0196	0.01443
Zn	66	3	He	510.336	1.1627	78458.53	0.0023	0.002807
Zn	66	3	He	514.069	1.1712	80466.19	0.0023	0.002807
Zn	66	3	He	522.337	1.1899	78351.82	0.0023	0.002807
As	75	3	He	506.603	0.9338	63014.36	0.0018	0.001271
As	75	3	He	500.049	0.9217	63329.78	0.0018	0.001271
As	75	3	He	514.108	0.9476	62396.00	0.0018	0.001271
Sr	88	3	He	137.164	1.1281	58899.67	0.0082	0.00114
Sr	88	3	He	142.426	1.1713	59110.99	0.0082	0.00114
Sr	88	3	He	143.31	1.1786	59983.48	0.0082	0.00114
Mo	98	3	He	50.545	0.8968	46820.32	0.0177	0.001504
Mo	98	3	He	53.24	0.9445	47662.85	0.0177	0.001504
Mo	98	3	He	53.157	0.943	47993.72	0.0177	0.001504
Ag	107	3	He	52.158	1.9193	100208.57	0.0368	0.001325
Ag	107	3	He	52.674	1.9383	97814.56	0.0368	0.001325
Ag	107	3	He	52.831	1.9441	98941.00	0.0368	0.001325
Cd	111	3	He	53.859	0.221	11538.30	0.0041	4.798E-05
Cd	111	3	He	55.743	0.2287	11542.29	0.0041	4.798E-05
Cd	111	3	He	53.882	0.2211	11252.09	0.0041	4.798E-05
Sn	120	3	He	101.028	1.2826	66965.58	0.0126	0.01097
Sn	120	3	He	109.377	1.3877	70028.49	0.0126	0.01097
Sn	120	3	He	106.612	1.3529	68852.94	0.0126	0.01097
Sb	121	3	He	102.727	1.2378	64626.98	0.012	0.0003595
Sb	121	3	He	106.146	1.279	64543.23	0.012	0.0003595
Sb	121	3	He	104.781	1.2625	64255.34	0.012	0.0003595
Ba	137	3	He	534.032	2.0839	108804.28	0.0039	0.0003633
Ba	137	3	He	561.113	2.1896	110496.36	0.0039	0.0003633
Ba	137	3	He	563.784	2.2	111966.71	0.0039	0.0003633
Tl	205	3	He	101.512	1.9239	366706.71	0.0189	0.001334
Tl	205	3	He	104.148	1.9739	374478.04	0.0189	0.001334
Tl	205	3	He	104.814	1.9865	374392.57	0.0189	0.001334
Pb	208	3	He	52.585	1.3244	135443.92	0.0252	0.001497
Pb	208	3	He	53.014	1.3352	136573.40	0.0252	0.001497
Pb	208	3	He	53.338	1.3433	136966.41	0.0252	0.001497
U	238	3	He	53.766	1.32	251591.75	0.0245	0.0001141
U	238	3	He	54.13	1.3289	252122.16	0.0245	0.0001141
U	238	3	He	54.622	1.341	252739.90	0.0245	0.0001141
Sc	45	1	No Gas			1630978.10		
Sc	45	1	No Gas			1638732.32		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1633682.16		
Ge	72	1	No Gas			839924.52		
Ge	72	1	No Gas			834997.88		
Ge	72	1	No Gas			834406.00		
Sc	45	2	H2			131839.82		
Sc	45	2	H2			132015.66		
Sc	45	2	H2			133037.14		
Ge	72	2	H2			101338.15		
Ge	72	2	H2			101710.16		
Ge	72	2	H2			97333.15		
In	115	2	H2			244552.48		
In	115	2	H2			244298.51		
In	115	2	H2			243435.93		
Sc	45	3	He			39889.11		
Sc	45	3	He			39177.37		
Sc	45	3	He			39838.90		
Ge	72	3	He			67481.48		
Ge	72	3	He			68706.97		
Ge	72	3	He			65845.13		
In	115	3	He			52679.67		
In	115	3	He			50954.44		
In	115	3	He			51375.46		
Tb	159	3	He			190602.46		
Tb	159	3	He			189717.97		
Tb	159	3	He			188470.52		
Bi	209	3	He			138400.93		
Bi	209	3	He			141975.13		
Bi	209	3	He			141501.29		

Quantitation Report

Data File Name	339SMPL.d
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Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

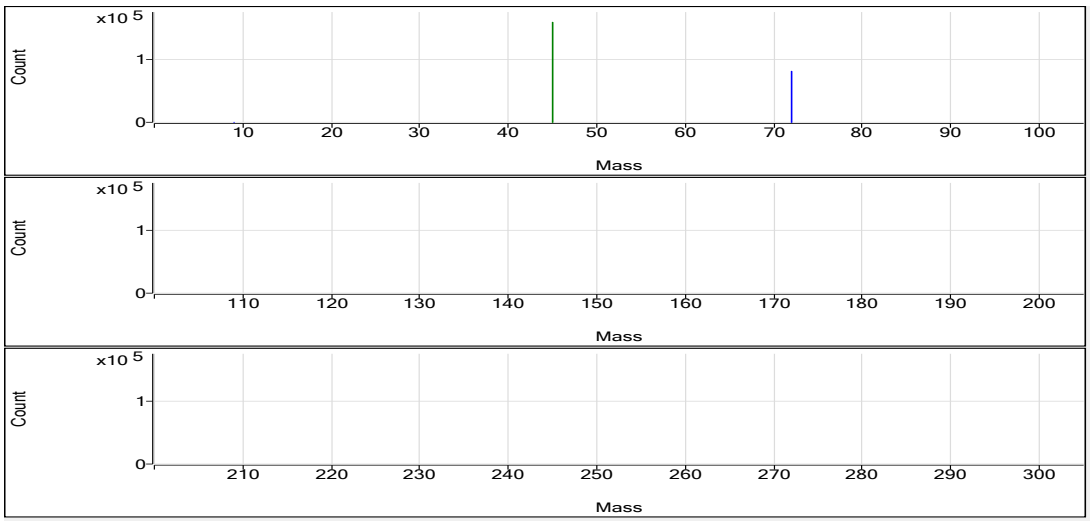
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.108	ppb	28.5	99.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.683	ppb	23.4	32.22	0.0003	Pulse	1.5000	3
Na	23	45	He	426940.715	ppb	1.3	41172315.22	1,064.9955	Analog	0.1000	3
Mg	24	45	He	76807.807	ppb	1.7	3596436.40	93.0308	Analog	0.1000	3
Al	27	45	He	16.696	ppb	31.5	450.02	0.0116	Pulse	0.1000	3
K	39	45	He	16517.477	ppb	1.1	654585.69	16.9317	Pulse	0.5000	3
Ca	44	45	He	144874.157	ppb	1.8	294985.53	7.6305	Pulse	0.5000	3
Ti	47	45	He	-0.102	ppb	N/A	16.00	0.0004	Pulse	0.5000	3
V	51	45	He	0.293	ppb	36.2	1207.39	0.0312	Pulse	0.5000	3
Cr	52	45	He	-0.189	ppb	N/A	1796.85	0.0465	Pulse	0.1000	3
Mn	55	45	He	1985.798	ppb	1.3	700141.75	18.1104	Pulse	0.5000	3
Fe	57	45	He	758.967	ppb	4.1	12041.46	0.3115	Pulse	0.1000	3
Co	59	45	He	1.444	ppb	0.3	2537.55	0.0656	Pulse	0.5000	3
Ni	60	45	He	2.030	ppb	4.8	1374.73	0.0356	Pulse	0.5000	3
Cu	63	72	He	0.204	ppb	12.9	1202.05	0.0184	Pulse	0.5000	3
Zn	66	72	He	2.339	ppb	1.7	530.01	0.0081	Pulse	0.5000	3
As	75	72	He	2.052	ppb	4.9	329.34	0.0050	Pulse	0.5000	3
Sr	88	115	He	632.981	ppb	1.3	266588.26	5.2018	Pulse	0.1000	3
Mo	98	115	He	1.152	ppb	13.0	1123.41	0.0219	Pulse	0.1000	3
Ag	107	115	He	0.021	ppb	28.0	106.67	0.0021	Pulse	0.1000	3
Cd	111	115	He	0.026	ppb	71.6	8.00	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.028	ppb	189.9	580.03	0.0113	Pulse	0.1000	3
Sb	121	115	He	0.299	ppb	26.8	203.34	0.0040	Pulse	0.3000	3
Ba	137	115	He	257.381	ppb	2.3	51480.43	1.0046	Pulse	0.1000	3
Tl	205	159	He	0.155	ppb	14.4	810.05	0.0043	Pulse	0.1000	3
Pb	208	159	He	0.064	ppb	28.5	590.03	0.0031	Pulse	0.1000	3
U	238	159	He	1.110	ppb	6.0	5197.81	0.0274	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1593339.51	0.4	93.3	Analog	0.1000	3
No Gas	Ge	72	813790.56	0.1	94.2	Pulse	0.1000	3
H2	Sc	45	132168.66	1.4	98.9	Pulse	0.1000	3
H2	Ge	72	98162.42	2.4	99.1	Pulse	0.1000	3
H2	In	115	241018.56	1.2	93.9	Pulse	0.1000	3
He	Sc	45	38663.14	1.1	98.0	Pulse	0.1000	3
He	Ge	72	65236.12	0.7	95.8	Pulse	0.1000	3
He	In	115	51254.38	1.3	92.5	Pulse	0.1000	3
He	Tb	159	189946.62	0.8	92.8	Pulse	0.1000	3
He	Bi	209	135377.10	0.6	89.5	Pulse	0.1000	3

No Gas



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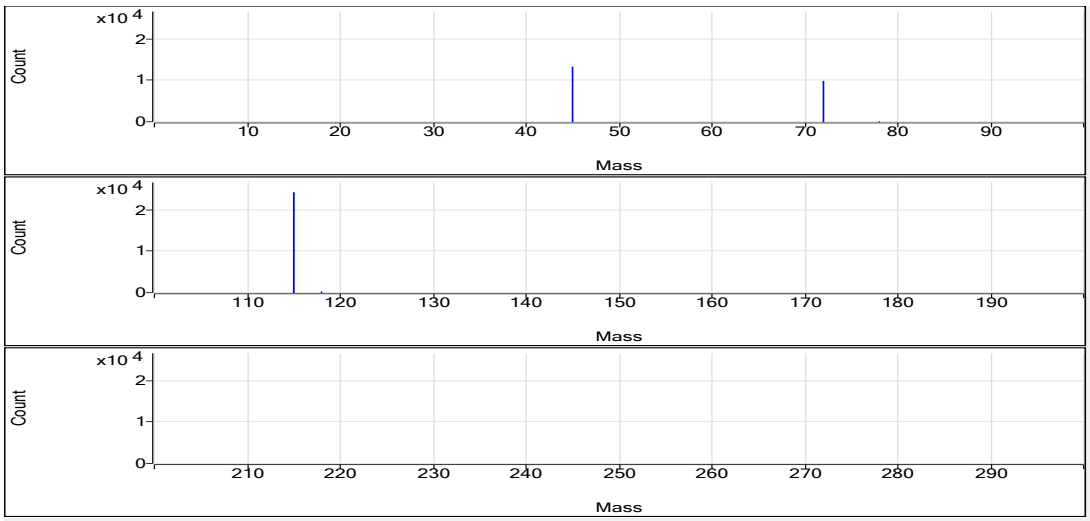
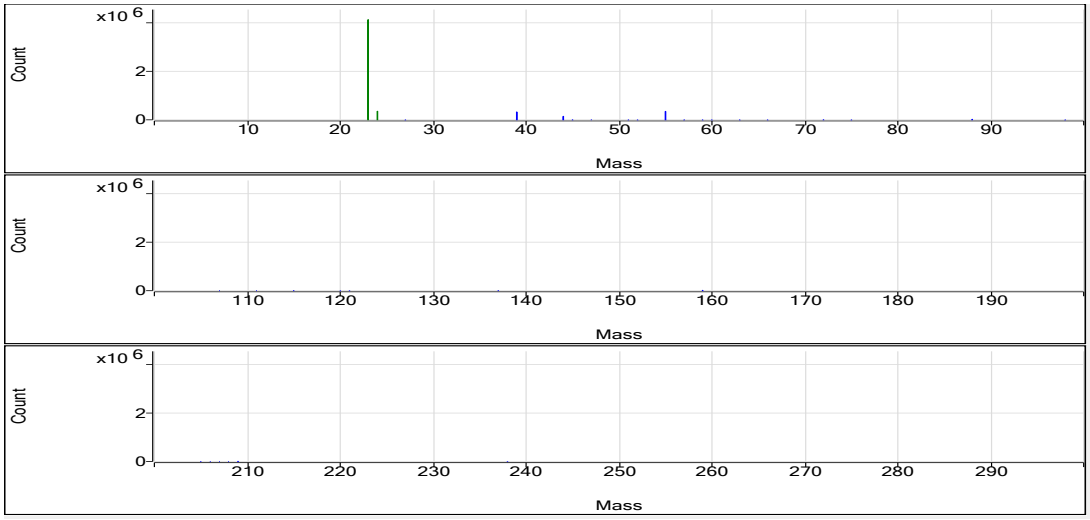


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.135	0.0001	114.00	0.0003	2.616E-05
Be	9	1	No Gas	0.113	0.0001	102.00	0.0003	2.616E-05
Be	9	1	No Gas	0.075	0.0001	82.00	0.0003	2.616E-05
Se	78	2	H2	0.609	0.0003	30.00	0.0004	6.3E-05
Se	78	2	H2	0.574	0.0003	27.33	0.0004	6.3E-05
Se	78	2	H2	0.867	0.0004	39.33	0.0004	6.3E-05
Na	23	3	He	421278.613	1050.8815	41108129.39	0.0025	0.7502
Na	23	3	He	432133.164	1077.9389	41279981.88	0.0025	0.7502
Na	23	3	He	427410.368	1066.1662	41128834.39	0.0025	0.7502
Mg	24	3	He	75509.363	91.4586	3577654.63	0.0012	0.02618
Mg	24	3	He	78078.202	94.5691	3621551.82	0.0012	0.02618
Mg	24	3	He	76835.855	93.0648	3590102.76	0.0012	0.02618
Al	27	3	He	22.476	0.0138	540.03	0.0004	0.005329
Al	27	3	He	12.182	0.0099	380.02	0.0004	0.005329
Al	27	3	He	15.428	0.0111	430.02	0.0004	0.005329
K	39	3	He	16303.649	16.7194	654025.75	0.001	0.5307
K	39	3	He	16622.876	17.0364	652413.25	0.001	0.5307
K	39	3	He	16625.905	17.0394	657318.06	0.001	0.5307
Ca	44	3	He	141849.766	7.4713	292262.16	0.0001	0.004441
Ca	44	3	He	146206.318	7.7007	294899.34	0.0001	0.004441
Ca	44	3	He	146566.386	7.7196	297795.09	0.0001	0.004441
Ti	47	3	He	-0.365	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.348	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	0.407	0.0006	24.00	0.0004	0.0004559
V	51	3	He	0.17	0.0291	1138.05	0.0176	0.02609
V	51	3	He	0.349	0.0322	1234.05	0.0176	0.02609
V	51	3	He	0.359	0.0324	1250.06	0.0176	0.02609
Cr	52	3	He	-0.305	0.044	1720.18	0.0217	0.05061
Cr	52	3	He	-0.046	0.0496	1900.20	0.0217	0.05061
Cr	52	3	He	-0.217	0.0459	1770.16	0.0217	0.05061
Mn	55	3	He	1955.719	17.8362	697712.31	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1999.997	18.2398	698497.38	0.0091	0.01071
Mn	55	3	He	2001.678	18.2551	704215.56	0.0091	0.01071
Fe	57	3	He	725.544	0.2982	11664.49	0.0004	0.008452
Fe	57	3	He	788.041	0.3231	12374.99	0.0004	0.008452
Fe	57	3	He	763.314	0.3133	12084.91	0.0004	0.008452
Co	59	3	He	1.443	0.0656	2566.22	0.0413	0.006013
Co	59	3	He	1.448	0.0658	2520.21	0.0413	0.006013
Co	59	3	He	1.44	0.0655	2526.21	0.0413	0.006013
Ni	60	3	He	1.954	0.0347	1356.07	0.0117	0.01172
Ni	60	3	He	1.995	0.0351	1346.06	0.0117	0.01172
Ni	60	3	He	2.141	0.0369	1422.07	0.0117	0.01172
Cu	63	3	He	0.22	0.0187	1230.05	0.0196	0.01443
Cu	63	3	He	0.174	0.0178	1154.05	0.0196	0.01443
Cu	63	3	He	0.218	0.0187	1222.05	0.0196	0.01443
Zn	66	3	He	2.385	0.0082	540.01	0.0023	0.002807
Zn	66	3	He	2.327	0.0081	524.01	0.0023	0.002807
Zn	66	3	He	2.306	0.008	526.01	0.0023	0.002807
As	75	3	He	2.124	0.0052	340.01	0.0018	0.001271
As	75	3	He	2.096	0.0051	332.01	0.0018	0.001271
As	75	3	He	1.936	0.0048	316.01	0.0018	0.001271
Sr	88	3	He	626.387	5.1477	265940.89	0.0082	0.00114
Sr	88	3	He	641.941	5.2755	266245.62	0.0082	0.00114
Sr	88	3	He	630.616	5.1824	267578.28	0.0082	0.00114
Mo	98	3	He	1.314	0.0248	1280.10	0.0177	0.001504
Mo	98	3	He	1.123	0.0214	1080.08	0.0177	0.001504
Mo	98	3	He	1.02	0.0196	1010.06	0.0177	0.001504
Ag	107	3	He	0.027	0.0023	120.01	0.0368	0.001325
Ag	107	3	He	0.018	0.002	100.00	0.0368	0.001325
Ag	107	3	He	0.017	0.0019	100.00	0.0368	0.001325
Cd	111	3	He	0.045	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.027	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.021	0.0112	580.03	0.0126	0.01097
Sn	120	3	He	-0.021	0.0107	540.02	0.0126	0.01097
Sn	120	3	He	0.083	0.012	620.04	0.0126	0.01097
Sb	121	3	He	0.275	0.0037	190.00	0.012	0.0003595
Sb	121	3	He	0.233	0.0032	160.00	0.012	0.0003595
Sb	121	3	He	0.388	0.005	260.01	0.012	0.0003595
Ba	137	3	He	250.663	0.9783	50543.87	0.0039	0.0003633
Ba	137	3	He	262.302	1.0238	51667.86	0.0039	0.0003633
Ba	137	3	He	259.179	1.0116	52229.55	0.0039	0.0003633
Tl	205	3	He	0.131	0.0038	730.04	0.0189	0.001334
Tl	205	3	He	0.175	0.0046	880.06	0.0189	0.001334
Tl	205	3	He	0.159	0.0043	820.04	0.0189	0.001334
Pb	208	3	He	0.071	0.0033	290.01	0.0252	0.001497
Pb	208	3	He	0.043	0.0026	210.01	0.0252	0.001497
Pb	208	3	He	0.077	0.0034	340.02	0.0252	0.001497
U	238	3	He	1.088	0.0268	5141.15	0.0245	0.0001141
U	238	3	He	1.057	0.0261	4941.05	0.0245	0.0001141
U	238	3	He	1.185	0.0292	5511.22	0.0245	0.0001141
Sc	45	1	No Gas			1592250.60		
Sc	45	1	No Gas			1587587.16		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1600180.76		
Ge	72	1	No Gas			813465.46		
Ge	72	1	No Gas			812841.24		
Ge	72	1	No Gas			815064.99		
Sc	45	2	H2			133589.90		
Sc	45	2	H2			130162.12		
Sc	45	2	H2			132753.97		
Ge	72	2	H2			100301.72		
Ge	72	2	H2			95663.97		
Ge	72	2	H2			98521.58		
In	115	2	H2			243109.51		
In	115	2	H2			237819.98		
In	115	2	H2			242126.19		
Sc	45	3	He			39117.76		
Sc	45	3	He			38295.29		
Sc	45	3	He			38576.38		
Ge	72	3	He			65634.38		
Ge	72	3	He			64720.35		
Ge	72	3	He			65353.63		
In	115	3	He			51666.50		
In	115	3	He			50472.48		
In	115	3	He			51636.34		
Tb	159	3	He			191609.98		
Tb	159	3	He			189585.21		
Tb	159	3	He			188644.67		
Bi	209	3	He			134616.92		
Bi	209	3	He			135402.88		
Bi	209	3	He			136111.49		

Quantitation Report

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Sample Type	Sample
Comment	C4
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

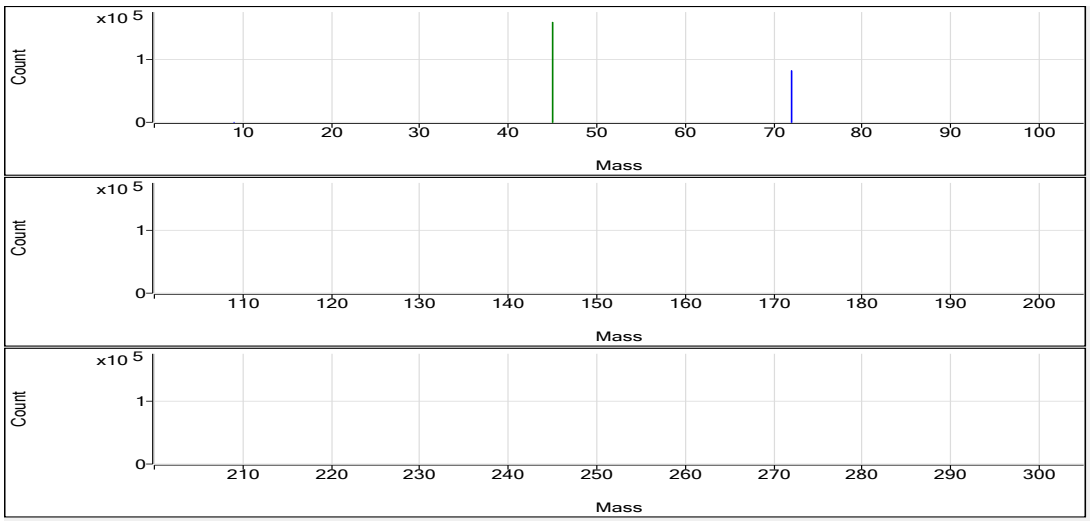
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.020	ppb	89.6	52.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.403	ppb	27.0	21.78	0.0002	Pulse	1.5000	3
Na	23	45	He	13131.195	ppb	1.4	1283408.29	33.4826	Analog	0.1000	3
Mg	24	45	He	19985.739	ppb	1.6	928452.49	24.2264	Pulse	0.1000	3
Al	27	45	He	-2.615	ppb	N/A	166.68	0.0043	Pulse	0.1000	3
K	39	45	He	2641.288	ppb	3.9	120834.78	3.1533	Pulse	0.5000	3
Ca	44	45	He	93874.945	ppb	0.5	189568.26	4.9460	Pulse	0.5000	3
Ti	47	45	He	-0.648	ppb	N/A	7.33	0.0002	Pulse	0.5000	3
V	51	45	He	-0.111	ppb	N/A	925.37	0.0241	Pulse	0.5000	3
Cr	52	45	He	-0.664	ppb	N/A	1386.77	0.0362	Pulse	0.1000	3
Mn	55	45	He	1.263	ppb	10.1	851.36	0.0222	Pulse	0.5000	3
Fe	57	45	He	1.636	ppb	501.7	350.02	0.0091	Pulse	0.1000	3
Co	59	45	He	0.085	ppb	25.0	364.01	0.0095	Pulse	0.5000	3
Ni	60	45	He	-0.015	ppb	N/A	442.01	0.0115	Pulse	0.5000	3
Cu	63	72	He	1.632	ppb	3.3	3082.31	0.0464	Pulse	0.5000	3
Zn	66	72	He	17.525	ppb	4.5	2834.26	0.0426	Pulse	0.5000	3
As	75	72	He	0.675	ppb	23.0	167.33	0.0025	Pulse	0.5000	3
Sr	88	115	He	1293.562	ppb	2.5	553225.02	10.6293	Pulse	0.1000	3
Mo	98	115	He	0.518	ppb	33.6	553.36	0.0107	Pulse	0.1000	3
Ag	107	115	He	-0.008	ppb	N/A	53.33	0.0010	Pulse	0.1000	3
Cd	111	115	He	0.022	ppb	95.2	7.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.132	ppb	47.3	656.70	0.0126	Pulse	0.1000	3
Sb	121	115	He	0.135	ppb	35.9	103.34	0.0020	Pulse	0.3000	3
Ba	137	115	He	63.584	ppb	3.4	12929.12	0.2484	Pulse	0.1000	3
Tl	205	159	He	0.003	ppb	508.2	260.01	0.0014	Pulse	0.1000	3
Pb	208	159	He	0.025	ppb	2.0	400.01	0.0021	Pulse	0.1000	3
U	238	159	He	4.589	ppb	2.3	21216.31	0.1128	Pulse	0.1000	3

ISTD Table:

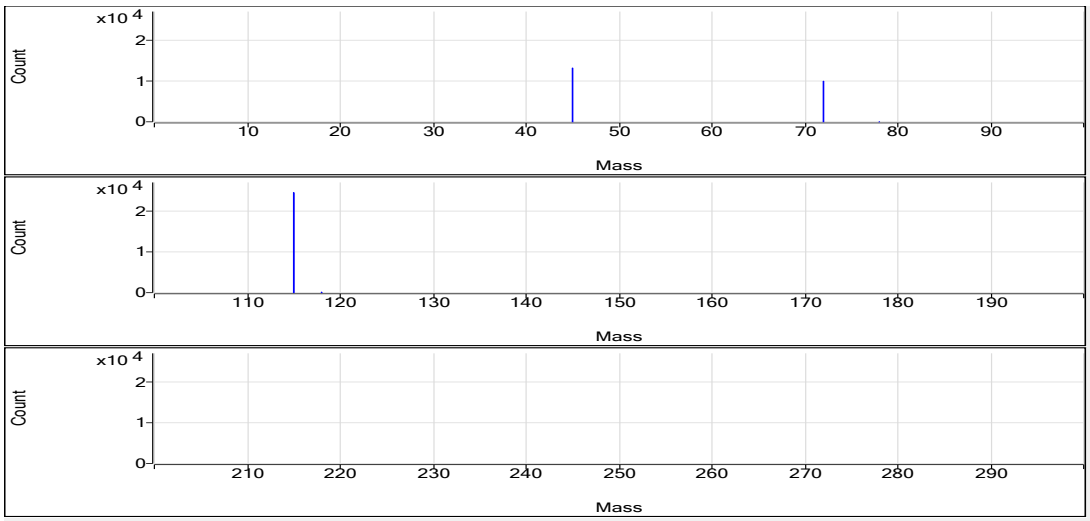
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1606540.76	1.4	94.0	Analog	0.1000	3
No Gas	Ge	72	828449.08	0.8	95.9	Pulse	0.1000	3
H2	Sc	45	131423.39	0.9	98.4	Pulse	0.1000	3
H2	Ge	72	99500.52	1.6	100.4	Pulse	0.1000	3
H2	In	115	244268.37	0.8	95.2	Pulse	0.1000	3
He	Sc	45	38328.91	1.2	97.1	Pulse	0.1000	3
He	Ge	72	66491.22	1.8	97.6	Pulse	0.1000	3
He	In	115	52069.88	2.6	94.0	Pulse	0.1000	3
He	Tb	159	188136.47	0.6	91.9	Pulse	0.1000	3
He	Bi	209	141281.99	0.9	93.4	Pulse	0.1000	3

No Gas

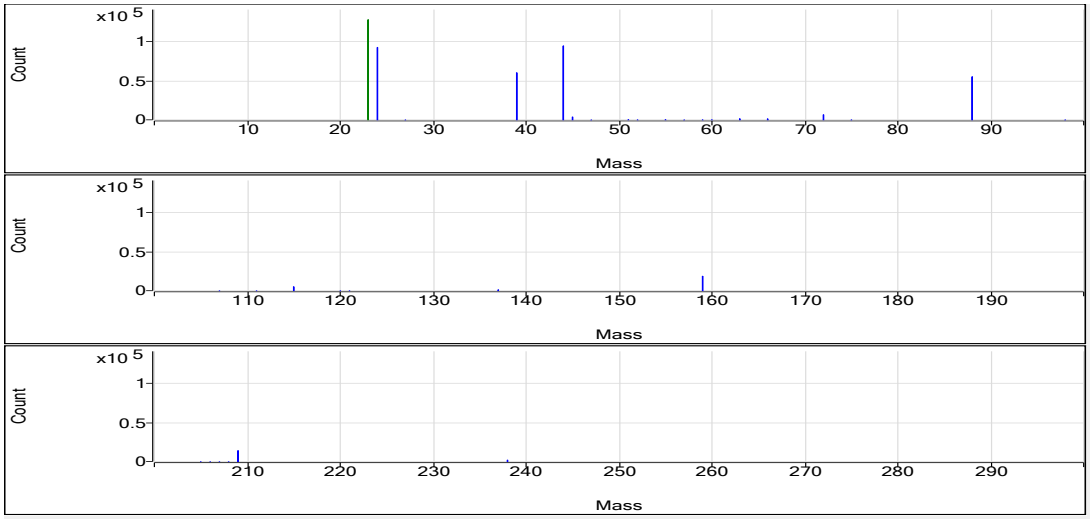


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.005	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.015	0	50.00	0.0003	2.616E-05
Be	9	1	No Gas	0.039	0	64.00	0.0003	2.616E-05
Se	78	2	H2	0.398	0.0002	21.33	0.0004	6.3E-05
Se	78	2	H2	0.296	0.0002	18.00	0.0004	6.3E-05
Se	78	2	H2	0.513	0.0003	26.00	0.0004	6.3E-05
Na	23	3	He	13198.742	33.651	1276200.61	0.0025	0.7502
Na	23	3	He	12926.763	32.973	1260070.84	0.0025	0.7502
Na	23	3	He	13268.078	33.8238	1313953.42	0.0025	0.7502
Mg	24	3	He	20309.247	24.6181	933632.88	0.0012	0.02618
Mg	24	3	He	19982.234	24.2222	925654.75	0.0012	0.02618
Mg	24	3	He	19665.734	23.8389	926069.83	0.0012	0.02618
Al	27	3	He	-3.643	0.004	150.01	0.0004	0.005329
Al	27	3	He	-3.723	0.0039	150.01	0.0004	0.005329
Al	27	3	He	-0.479	0.0051	200.01	0.0004	0.005329
K	39	3	He	2753.493	3.2647	123814.27	0.001	0.5307
K	39	3	He	2616.735	3.129	119573.62	0.001	0.5307
K	39	3	He	2553.636	3.0663	119116.45	0.001	0.5307
Ca	44	3	He	93890.047	4.9468	187604.08	0.0001	0.004441
Ca	44	3	He	94343.868	4.9707	189954.53	0.0001	0.004441
Ca	44	3	He	93390.919	4.9205	191146.17	0.0001	0.004441
Ti	47	3	He	-0.857	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.603	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.485	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.089	0.0245	930.03	0.0176	0.02609
V	51	3	He	-0.207	0.0225	858.03	0.0176	0.02609
V	51	3	He	-0.038	0.0254	988.04	0.0176	0.02609
Cr	52	3	He	-0.691	0.0356	1350.11	0.0217	0.05061
Cr	52	3	He	-0.559	0.0385	1470.10	0.0217	0.05061
Cr	52	3	He	-0.742	0.0345	1340.10	0.0217	0.05061
Mn	55	3	He	1.359	0.0231	876.03	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	1.311	0.0227	866.03	0.0091	0.01071
Mn	55	3	He	1.118	0.0209	812.03	0.0091	0.01071
Fe	57	3	He	-6.639	0.0058	220.01	0.0004	0.008452
Fe	57	3	He	1.77	0.0092	350.02	0.0004	0.008452
Fe	57	3	He	9.778	0.0124	480.03	0.0004	0.008452
Co	59	3	He	0.109	0.0105	398.01	0.0413	0.006013
Co	59	3	He	0.076	0.0092	350.01	0.0413	0.006013
Co	59	3	He	0.069	0.0089	344.01	0.0413	0.006013
Ni	60	3	He	0.058	0.0124	470.01	0.0117	0.01172
Ni	60	3	He	-0.08	0.0108	412.01	0.0117	0.01172
Ni	60	3	He	-0.024	0.0114	444.01	0.0117	0.01172
Cu	63	3	He	1.653	0.0468	3046.30	0.0196	0.01443
Cu	63	3	He	1.673	0.0472	3156.33	0.0196	0.01443
Cu	63	3	He	1.571	0.0452	3044.30	0.0196	0.01443
Zn	66	3	He	18.128	0.044	2866.27	0.0023	0.002807
Zn	66	3	He	16.622	0.0406	2716.24	0.0023	0.002807
Zn	66	3	He	17.825	0.0433	2920.28	0.0023	0.002807
As	75	3	He	0.511	0.0022	144.00	0.0018	0.001271
As	75	3	He	0.819	0.0028	186.00	0.0018	0.001271
As	75	3	He	0.696	0.0026	172.00	0.0018	0.001271
Sr	88	3	He	1315.238	10.8074	554208.90	0.0082	0.00114
Sr	88	3	He	1255.945	10.3203	553560.30	0.0082	0.00114
Sr	88	3	He	1309.504	10.7603	551905.85	0.0082	0.00114
Mo	98	3	He	0.664	0.0133	680.04	0.0177	0.001504
Mo	98	3	He	0.326	0.0073	390.02	0.0177	0.001504
Mo	98	3	He	0.565	0.0115	590.03	0.0177	0.001504
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.001	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	0.001	0.0014	70.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.036	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.151	0.0129	660.03	0.0126	0.01097
Sn	120	3	He	0.062	0.0117	630.03	0.0126	0.01097
Sn	120	3	He	0.182	0.0133	680.03	0.0126	0.01097
Sb	121	3	He	0.191	0.0027	136.67	0.012	0.0003595
Sb	121	3	He	0.104	0.0016	86.67	0.012	0.0003595
Sb	121	3	He	0.11	0.0017	86.67	0.012	0.0003595
Ba	137	3	He	65.412	0.2556	13105.96	0.0039	0.0003633
Ba	137	3	He	61.193	0.2391	12825.67	0.0039	0.0003633
Ba	137	3	He	64.148	0.2506	12855.73	0.0039	0.0003633
Tl	205	3	He	0.005	0.0014	270.01	0.0189	0.001334
Tl	205	3	He	-0.011	0.0011	210.01	0.0189	0.001334
Tl	205	3	He	0.014	0.0016	300.01	0.0189	0.001334
Pb	208	3	He	0.024	0.0021	210.01	0.0252	0.001497
Pb	208	3	He	0.025	0.0021	220.01	0.0252	0.001497
Pb	208	3	He	0.025	0.0021	220.01	0.0252	0.001497
U	238	3	He	4.503	0.1106	20956.10	0.0245	0.0001141
U	238	3	He	4.56	0.1121	21005.83	0.0245	0.0001141
U	238	3	He	4.705	0.1156	21687.00	0.0245	0.0001141
Sc	45	1	No Gas			1588599.66		
Sc	45	1	No Gas			1598320.60		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1632702.01		
Ge	72	1	No Gas			821330.46		
Ge	72	1	No Gas			828877.33		
Ge	72	1	No Gas			835139.44		
Sc	45	2	H2			131745.76		
Sc	45	2	H2			132461.08		
Sc	45	2	H2			130063.34		
Ge	72	2	H2			98098.28		
Ge	72	2	H2			101218.11		
Ge	72	2	H2			99185.16		
In	115	2	H2			245019.45		
In	115	2	H2			245649.64		
In	115	2	H2			242136.01		
Sc	45	3	He			37924.59		
Sc	45	3	He			38215.19		
Sc	45	3	He			38846.96		
Ge	72	3	He			65132.45		
Ge	72	3	He			66929.35		
Ge	72	3	He			67411.86		
In	115	3	He			51285.05		
In	115	3	He			53642.67		
In	115	3	He			51295.70		
Tb	159	3	He			189395.25		
Tb	159	3	He			187441.09		
Tb	159	3	He			187573.08		
Bi	209	3	He			140873.62		
Bi	209	3	He			142651.49		
Bi	209	3	He			140320.86		

Quantitation Report

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Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

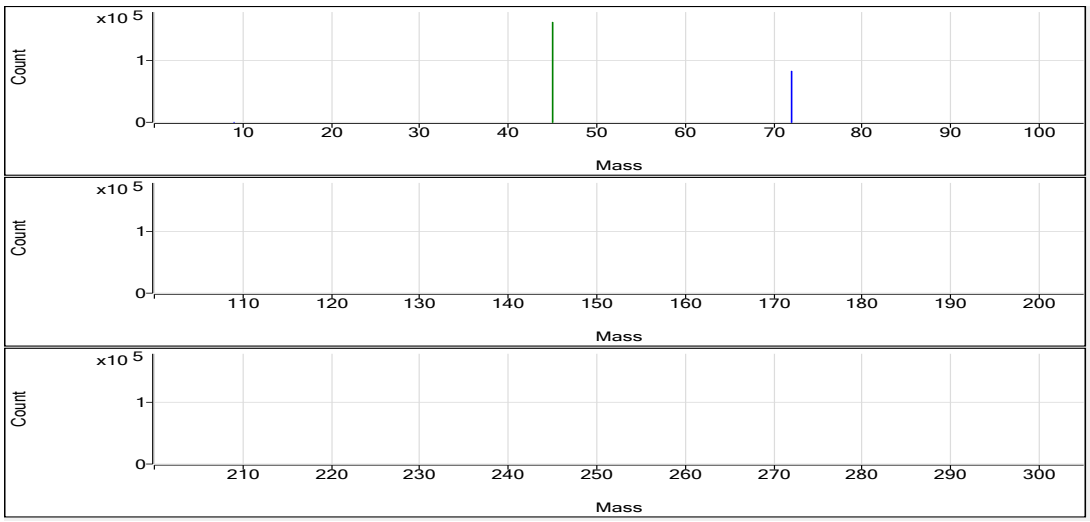
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.112	ppb	4.5	103.33	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.073	ppb	36.5	9.11	0.0001	Pulse	1.5000	3
Na	23	45	He	71292.065	ppb	0.7	6848199.90	178.4616	Analog	0.1000	3
Mg	24	45	He	5746.256	ppb	1.7	267983.39	6.9842	Pulse	0.1000	3
Al	27	45	He	415.760	ppb	2.0	6221.46	0.1621	Pulse	0.1000	3
K	39	45	He	3248.928	ppb	2.0	144178.92	3.7567	Pulse	0.5000	3
Ca	44	45	He	17269.062	ppb	2.9	35047.14	0.9135	Pulse	0.5000	3
Ti	47	45	He	11.629	ppb	29.9	200.01	0.0052	Pulse	0.5000	3
V	51	45	He	1.910	ppb	1.2	2290.18	0.0597	Pulse	0.5000	3
Cr	52	45	He	1.142	ppb	29.4	2893.68	0.0754	Pulse	0.1000	3
Mn	55	45	He	254.250	ppb	1.2	89332.79	2.3281	Pulse	0.5000	3
Fe	57	45	He	3949.298	ppb	1.7	60837.93	1.5856	Pulse	0.1000	3
Co	59	45	He	4.581	ppb	2.4	7491.09	0.1952	Pulse	0.5000	3
Ni	60	45	He	3.519	ppb	2.7	2036.14	0.0530	Pulse	0.5000	3
Cu	63	72	He	8.155	ppb	1.5	11415.39	0.1740	Pulse	0.5000	3
Zn	66	72	He	29.028	ppb	4.5	4511.32	0.0688	Pulse	0.5000	3
As	75	72	He	0.928	ppb	16.0	195.33	0.0030	Pulse	0.5000	3
Sr	88	115	He	86.331	ppb	4.2	36887.11	0.7105	Pulse	0.1000	3
Mo	98	115	He	1.035	ppb	7.4	1030.07	0.0198	Pulse	0.1000	3
Ag	107	115	He	0.001	ppb	837.2	70.00	0.0013	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	495.8	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.035	ppb	N/A	546.70	0.0105	Pulse	0.1000	3
Sb	121	115	He	0.947	ppb	6.8	611.13	0.0118	Pulse	0.3000	3
Ba	137	115	He	68.609	ppb	3.3	13916.64	0.2680	Pulse	0.1000	3
Tl	205	159	He	0.003	ppb	606.2	260.01	0.0014	Pulse	0.1000	3
Pb	208	159	He	1.079	ppb	1.5	5393.92	0.0286	Pulse	0.1000	3
U	238	159	He	0.082	ppb	16.2	400.02	0.0021	Pulse	0.1000	3

ISTD Table:

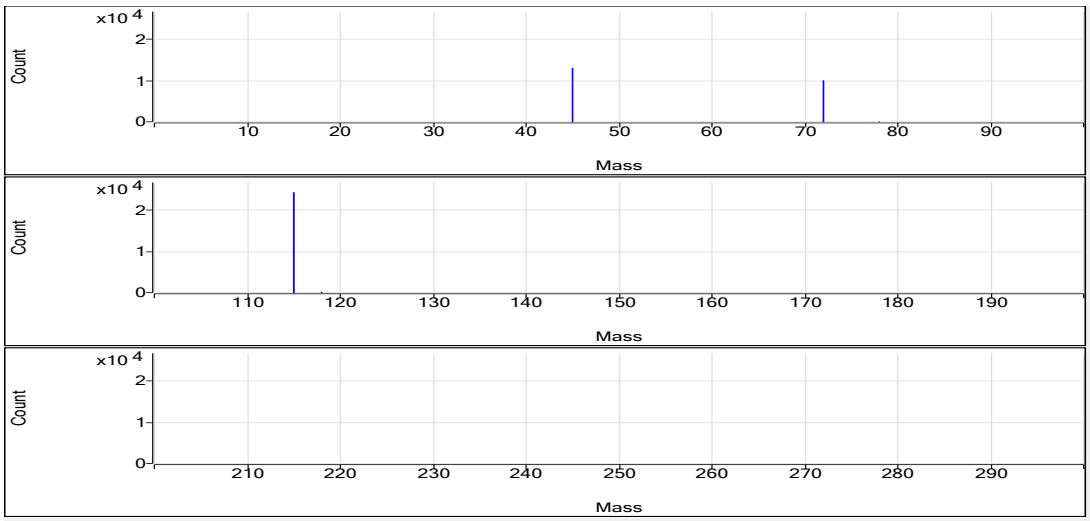
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1615254.92	1.2	94.5	Analog	0.1000	3
No Gas	Ge	72	826925.56	0.5	95.7	Pulse	0.1000	3
H2	Sc	45	130838.82	1.4	97.9	Pulse	0.1000	3
H2	Ge	72	99835.66	0.7	100.8	Pulse	0.1000	3
H2	In	115	243272.07	0.7	94.8	Pulse	0.1000	3
He	Sc	45	38375.87	1.3	97.2	Pulse	0.1000	3
He	Ge	72	65637.83	2.5	96.4	Pulse	0.1000	3
He	In	115	51919.95	0.1	93.7	Pulse	0.1000	3
He	Tb	159	188280.66	1.0	91.9	Pulse	0.1000	3
He	Bi	209	140201.45	0.5	92.7	Pulse	0.1000	3

No Gas

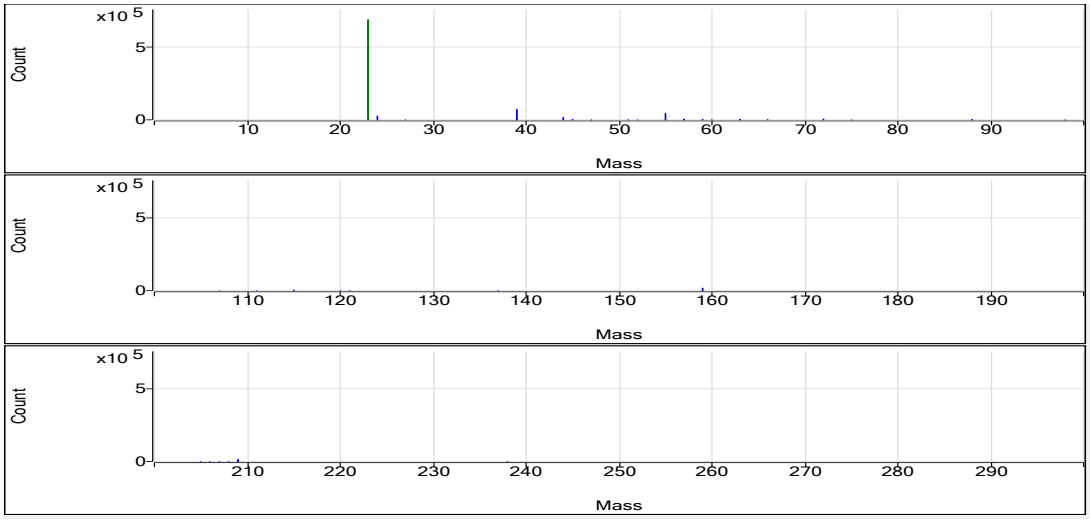


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.118	0.0001	106.00	0.0003	2.616E-05
Be	9	1	No Gas	0.108	0.0001	102.00	0.0003	2.616E-05
Be	9	1	No Gas	0.112	0.0001	102.00	0.0003	2.616E-05
Se	78	2	H2	0.095	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	0.043	0.0001	8.00	0.0004	6.3E-05
Se	78	2	H2	0.081	0.0001	9.33	0.0004	6.3E-05
Na	23	3	He	70704.868	176.9979	6888238.02	0.0025	0.7502
Na	23	3	He	71656.228	179.3694	6798974.90	0.0025	0.7502
Na	23	3	He	71515.099	179.0176	6857386.77	0.0025	0.7502
Mg	24	3	He	5648.708	6.8661	267206.93	0.0012	0.02618
Mg	24	3	He	5848.194	7.1076	269413.22	0.0012	0.02618
Mg	24	3	He	5741.867	6.9789	267330.02	0.0012	0.02618
Al	27	3	He	421.388	0.1642	6391.55	0.0004	0.005329
Al	27	3	He	419.712	0.1636	6201.37	0.0004	0.005329
Al	27	3	He	406.179	0.1585	6071.45	0.0004	0.005329
K	39	3	He	3312.831	3.8201	148668.80	0.001	0.5307
K	39	3	He	3251.531	3.7593	142494.95	0.001	0.5307
K	39	3	He	3182.423	3.6907	141373.00	0.001	0.5307
Ca	44	3	He	16692.076	0.8831	34367.79	0.0001	0.004441
Ca	44	3	He	17565.897	0.9291	35217.46	0.0001	0.004441
Ca	44	3	He	17549.211	0.9282	35556.18	0.0001	0.004441
Ti	47	3	He	10.069	0.0046	178.00	0.0004	0.0004559
Ti	47	3	He	9.207	0.0042	160.00	0.0004	0.0004559
Ti	47	3	He	15.611	0.0068	262.02	0.0004	0.0004559
V	51	3	He	1.897	0.0595	2314.18	0.0176	0.02609
V	51	3	He	1.937	0.0602	2280.17	0.0176	0.02609
V	51	3	He	1.895	0.0594	2276.18	0.0176	0.02609
Cr	52	3	He	0.864	0.0694	2700.31	0.0217	0.05061
Cr	52	3	He	1.047	0.0734	2780.33	0.0217	0.05061
Cr	52	3	He	1.516	0.0835	3200.40	0.0217	0.05061
Mn	55	3	He	250.987	2.2983	89444.88	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	256.946	2.3527	89177.13	0.0091	0.01071
Mn	55	3	He	254.816	2.3332	89376.38	0.0091	0.01071
Fe	57	3	He	3874.547	1.5557	60543.40	0.0004	0.008452
Fe	57	3	He	4005.766	1.6081	60954.99	0.0004	0.008452
Fe	57	3	He	3967.582	1.5929	61015.39	0.0004	0.008452
Co	59	3	He	4.696	0.1999	7779.89	0.0413	0.006013
Co	59	3	He	4.479	0.1909	7237.64	0.0413	0.006013
Co	59	3	He	4.568	0.1946	7455.74	0.0413	0.006013
Ni	60	3	He	3.588	0.0539	2096.15	0.0117	0.01172
Ni	60	3	He	3.41	0.0518	1962.13	0.0117	0.01172
Ni	60	3	He	3.559	0.0535	2050.14	0.0117	0.01172
Cu	63	3	He	8.282	0.1764	11335.99	0.0196	0.01443
Cu	63	3	He	8.149	0.1738	11342.01	0.0196	0.01443
Cu	63	3	He	8.033	0.1716	11568.17	0.0196	0.01443
Zn	66	3	He	29.984	0.071	4558.67	0.0023	0.002807
Zn	66	3	He	29.576	0.07	4568.67	0.0023	0.002807
Zn	66	3	He	27.522	0.0654	4406.62	0.0023	0.002807
As	75	3	He	0.984	0.0031	198.00	0.0018	0.001271
As	75	3	He	1.041	0.0032	208.00	0.0018	0.001271
As	75	3	He	0.76	0.0027	180.00	0.0018	0.001271
Sr	88	3	He	90.119	0.7416	38497.50	0.0082	0.00114
Sr	88	3	He	82.836	0.6817	35350.42	0.0082	0.00114
Sr	88	3	He	86.036	0.708	36813.40	0.0082	0.00114
Mo	98	3	He	1.014	0.0195	1010.06	0.0177	0.001504
Mo	98	3	He	0.971	0.0187	970.07	0.0177	0.001504
Mo	98	3	He	1.12	0.0213	1110.07	0.0177	0.001504
Ag	107	3	He	-0.005	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	0.006	0.0015	80.00	0.0368	0.001325
Ag	107	3	He	0.001	0.0013	70.00	0.0368	0.001325
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	0.032	0.0114	590.03	0.0126	0.01097
Sn	120	3	He	-0.059	0.0102	530.03	0.0126	0.01097
Sn	120	3	He	-0.077	0.01	520.03	0.0126	0.01097
Sb	121	3	He	0.908	0.0113	586.68	0.012	0.0003595
Sb	121	3	He	1.021	0.0127	656.69	0.012	0.0003595
Sb	121	3	He	0.912	0.0113	590.02	0.012	0.0003595
Ba	137	3	He	66.986	0.2617	13586.38	0.0039	0.0003633
Ba	137	3	He	71.219	0.2782	14427.04	0.0039	0.0003633
Ba	137	3	He	67.621	0.2642	13736.49	0.0039	0.0003633
Tl	205	3	He	-0.009	0.0012	220.01	0.0189	0.001334
Tl	205	3	He	-0.004	0.0013	240.01	0.0189	0.001334
Tl	205	3	He	0.02	0.0017	320.01	0.0189	0.001334
Pb	208	3	He	1.088	0.0289	2870.40	0.0252	0.001497
Pb	208	3	He	1.09	0.0289	2810.36	0.0252	0.001497
Pb	208	3	He	1.06	0.0282	2890.38	0.0252	0.001497
U	238	3	He	0.067	0.0018	330.02	0.0245	0.0001141
U	238	3	He	0.087	0.0023	430.03	0.0245	0.0001141
U	238	3	He	0.091	0.0024	440.02	0.0245	0.0001141
Sc	45	1	No Gas			1611473.10		
Sc	45	1	No Gas			1635435.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1598855.91		
Ge	72	1	No Gas			822121.47		
Ge	72	1	No Gas			829263.03		
Ge	72	1	No Gas			829392.18		
Sc	45	2	H2			132501.84		
Sc	45	2	H2			128954.77		
Sc	45	2	H2			131059.85		
Ge	72	2	H2			100221.30		
Ge	72	2	H2			100261.56		
Ge	72	2	H2			99024.13		
In	115	2	H2			244734.25		
In	115	2	H2			243710.95		
In	115	2	H2			241371.01		
Sc	45	3	He			38917.06		
Sc	45	3	He			37904.88		
Sc	45	3	He			38305.66		
Ge	72	3	He			64248.83		
Ge	72	3	He			65242.53		
Ge	72	3	He			67422.13		
In	115	3	He			51916.87		
In	115	3	He			51856.81		
In	115	3	He			51997.65		
Tb	159	3	He			188138.34		
Tb	159	3	He			190263.96		
Tb	159	3	He			186439.67		
Bi	209	3	He			140794.72		
Bi	209	3	He			140459.71		
Bi	209	3	He			139349.92		

Quantitation Report

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Sample Type	CCV
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

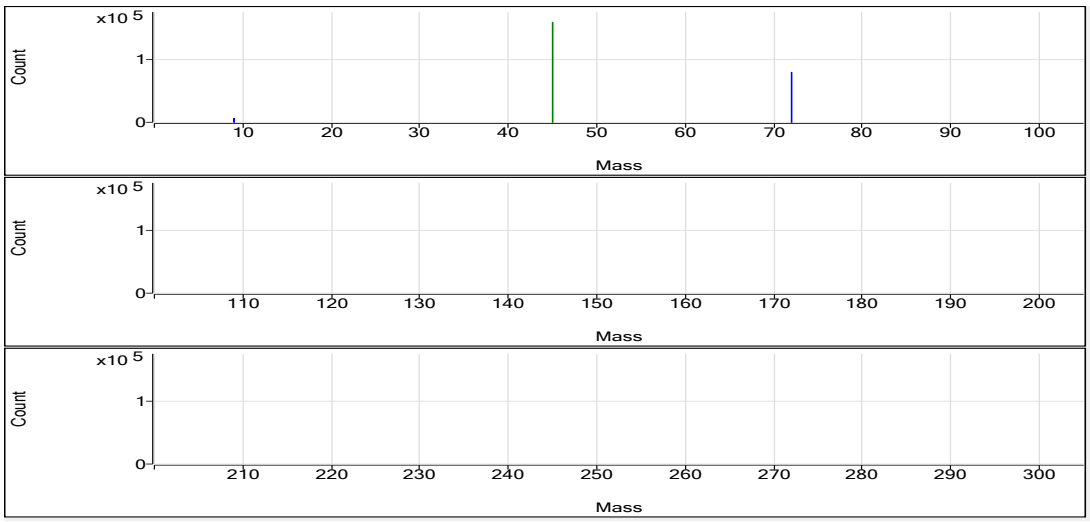
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.482	ppb	5.9	13192.52	0.0083	Pulse	0.5000	3
Se	78	72	H2	24.309	ppb	1.8	900.92	0.0095	Pulse	1.5000	3
Na	23	45	He	2521.358	ppb	2.4	266779.29	7.0352	Pulse	0.1000	3
Mg	24	45	He	2588.604	ppb	1.5	119858.05	3.1607	Pulse	0.1000	3
Al	27	45	He	2579.340	ppb	1.5	37088.68	0.9780	Pulse	0.1000	3
K	39	45	He	2597.096	ppb	3.6	117906.00	3.1095	Pulse	0.5000	3
Ca	44	45	He	2549.001	ppb	1.4	5256.86	0.1386	Pulse	0.5000	3
Ti	47	45	He	2565.369	ppb	1.7	39802.66	1.0496	Pulse	0.5000	3
V	51	45	He	256.636	ppb	1.8	172157.58	4.5399	Pulse	0.5000	3
Cr	52	45	He	256.031	ppb	1.5	212852.99	5.6128	Pulse	0.1000	3
Mn	55	45	He	256.729	ppb	2.0	89137.78	2.3507	Pulse	0.5000	3
Fe	57	45	He	2596.644	ppb	2.2	39645.83	1.0454	Pulse	0.1000	3
Co	59	45	He	254.462	ppb	1.4	398655.98	10.5124	Pulse	0.5000	3
Ni	60	45	He	255.934	ppb	2.2	114428.79	3.0177	Pulse	0.5000	3
Cu	63	72	He	255.046	ppb	1.2	316078.67	5.0037	Pulse	0.5000	3
Zn	66	72	He	256.253	ppb	1.4	36966.01	0.5852	Pulse	0.5000	3
As	75	72	He	254.662	ppb	1.0	29693.33	0.4700	Pulse	0.5000	3
Sr	88	115	He	24.038	ppb	4.7	10333.62	0.1986	Pulse	0.1000	3
Mo	98	115	He	24.953	ppb	3.3	23074.27	0.4435	Pulse	0.1000	3
Ag	107	115	He	24.434	ppb	1.1	46827.31	0.8998	Pulse	0.1000	3
Cd	111	115	He	24.817	ppb	1.3	5300.26	0.1019	Pulse	0.5000	3
Sn	120	115	He	24.578	ppb	1.1	16672.80	0.3203	Pulse	0.1000	3
Sb	121	115	He	25.026	ppb	2.1	15708.03	0.3018	Pulse	0.3000	3
Ba	137	115	He	247.377	ppb	2.7	50239.68	0.9655	Pulse	0.1000	3
Tl	205	159	He	25.084	ppb	1.8	88265.79	0.4764	Pulse	0.1000	3
Pb	208	159	He	25.578	ppb	1.0	119495.02	0.6450	Pulse	0.1000	3
U	238	159	He	25.912	ppb	2.0	117866.72	0.6362	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1595878.83	1.9	93.4	Analog	0.1000	3
No Gas	Ge	72	798525.46	1.4	92.4	Pulse	0.1000	3
H2	Sc	45	129249.98	1.1	96.7	Pulse	0.1000	3
H2	Ge	72	94929.27	0.3	95.8	Pulse	0.1000	3
H2	In	115	238401.87	1.1	92.9	Pulse	0.1000	3
He	Sc	45	37927.88	1.6	96.1	Pulse	0.1000	3
He	Ge	72	63177.93	1.7	92.8	Pulse	0.1000	3
He	In	115	52044.83	1.5	93.9	Pulse	0.1000	3
He	Tb	159	185277.20	0.5	90.5	Pulse	0.1000	3
He	Bi	209	137735.07	1.1	91.1	Pulse	0.1000	3

No Gas



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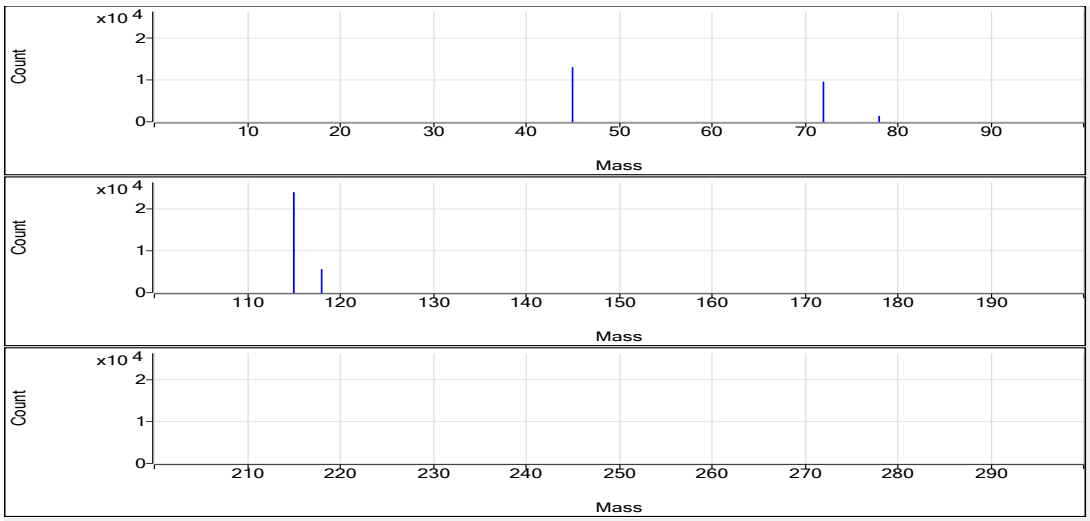
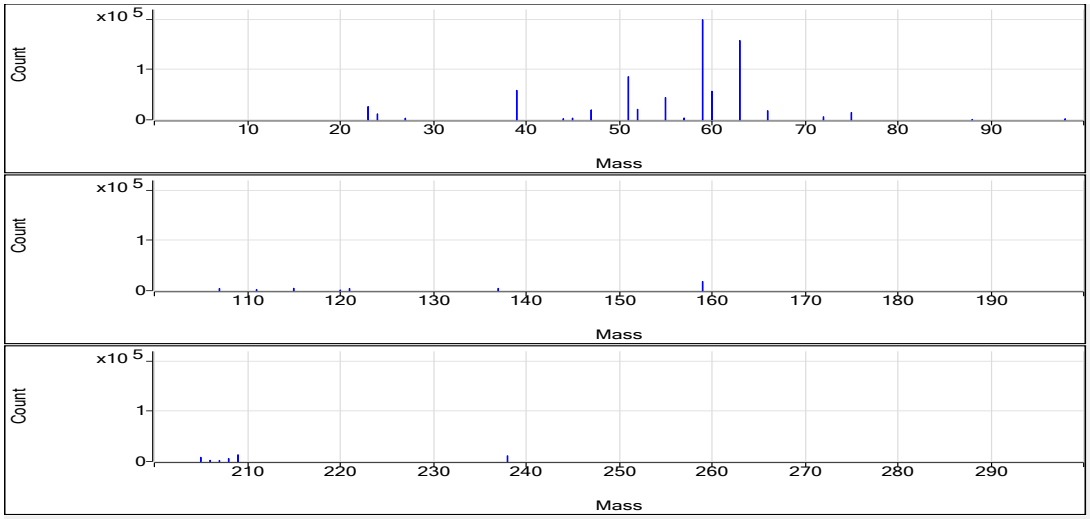


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.021	0.0078	12240.46	0.0003	2.616E-05
Be	9	1	No Gas	24.541	0.0083	13517.45	0.0003	2.616E-05
Be	9	1	No Gas	25.884	0.0087	13819.66	0.0003	2.616E-05
Se	78	2	H2	23.969	0.0094	885.36	0.0004	6.3E-05
Se	78	2	H2	24.148	0.0094	896.03	0.0004	6.3E-05
Se	78	2	H2	24.809	0.0097	921.36	0.0004	6.3E-05
Na	23	3	He	2560.463	7.1327	270003.43	0.0025	0.7502
Na	23	3	He	2551.266	7.1098	265715.76	0.0025	0.7502
Na	23	3	He	2452.343	6.8632	264618.67	0.0025	0.7502
Mg	24	3	He	2595.903	3.1695	119978.87	0.0012	0.02618
Mg	24	3	He	2624.042	3.2036	119727.73	0.0012	0.02618
Mg	24	3	He	2545.866	3.1089	119867.56	0.0012	0.02618
Al	27	3	He	2557.583	0.9698	36710.93	0.0004	0.005329
Al	27	3	He	2624.825	0.9952	37192.13	0.0004	0.005329
Al	27	3	He	2555.611	0.9691	37362.98	0.0004	0.005329
K	39	3	He	2672.513	3.1843	120540.75	0.001	0.5307
K	39	3	He	2626.502	3.1387	117301.64	0.001	0.5307
K	39	3	He	2492.274	3.0054	115875.61	0.001	0.5307
Ca	44	3	He	2535.718	0.1379	5220.85	0.0001	0.004441
Ca	44	3	He	2588.765	0.1407	5258.87	0.0001	0.004441
Ca	44	3	He	2522.519	0.1372	5290.87	0.0001	0.004441
Ti	47	3	He	2557.949	1.0466	39617.54	0.0004	0.0004559
Ti	47	3	He	2613.446	1.0693	39962.37	0.0004	0.0004559
Ti	47	3	He	2524.712	1.033	39828.07	0.0004	0.0004559
V	51	3	He	256.846	4.5436	171995.34	0.0176	0.02609
V	51	3	He	261.127	4.6189	172623.67	0.0176	0.02609
V	51	3	He	251.934	4.4572	171853.72	0.0176	0.02609
Cr	52	3	He	254.105	5.571	210884.51	0.0217	0.05061
Cr	52	3	He	260.471	5.7093	213373.77	0.0217	0.05061
Cr	52	3	He	253.515	5.5581	214300.68	0.0217	0.05061
Mn	55	3	He	257.479	2.3575	89241.75	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	261.397	2.3932	89442.59	0.0091	0.01071
Mn	55	3	He	251.311	2.3013	88729.00	0.0091	0.01071
Fe	57	3	He	2658.759	1.0702	40511.38	0.0004	0.008452
Fe	57	3	He	2582.415	1.0397	38857.21	0.0004	0.008452
Fe	57	3	He	2548.759	1.0263	39568.91	0.0004	0.008452
Co	59	3	He	253.623	10.4777	396627.19	0.0413	0.006013
Co	59	3	He	258.5	10.6791	399112.44	0.0413	0.006013
Co	59	3	He	251.265	10.3804	400228.31	0.0413	0.006013
Ni	60	3	He	255.441	3.0119	114013.32	0.0117	0.01172
Ni	60	3	He	261.806	3.0867	115358.58	0.0117	0.01172
Ni	60	3	He	250.554	2.9545	113914.46	0.0117	0.01172
Cu	63	3	He	258.673	5.0746	314420.00	0.0196	0.01443
Cu	63	3	He	253.722	4.9778	318515.94	0.0196	0.01443
Cu	63	3	He	252.743	4.9586	315300.06	0.0196	0.01443
Zn	66	3	He	260.535	0.5949	36861.80	0.0023	0.002807
Zn	66	3	He	254.056	0.5802	37126.38	0.0023	0.002807
Zn	66	3	He	254.169	0.5805	36909.86	0.0023	0.002807
As	75	3	He	256.848	0.4741	29372.77	0.0018	0.001271
As	75	3	He	251.813	0.4648	29741.40	0.0018	0.001271
As	75	3	He	255.325	0.4713	29965.83	0.0018	0.001271
Sr	88	3	He	22.89	0.1892	10013.40	0.0082	0.00114
Sr	88	3	He	25.125	0.2076	10683.84	0.0082	0.00114
Sr	88	3	He	24.098	0.1991	10303.63	0.0082	0.00114
Mo	98	3	He	24.076	0.4279	22647.08	0.0177	0.001504
Mo	98	3	He	25.086	0.4458	22947.25	0.0177	0.001504
Mo	98	3	He	25.697	0.4567	23628.48	0.0177	0.001504
Ag	107	3	He	24.193	0.891	47151.43	0.0368	0.001325
Ag	107	3	He	24.717	0.9102	46850.75	0.0368	0.001325
Ag	107	3	He	24.392	0.8983	46479.76	0.0368	0.001325
Cd	111	3	He	24.433	0.1003	5306.93	0.0041	4.798E-05
Cd	111	3	He	24.998	0.1026	5280.92	0.0041	4.798E-05
Cd	111	3	He	25.018	0.1027	5312.94	0.0041	4.798E-05
Sn	120	3	He	24.83	0.3235	17120.01	0.0126	0.01097
Sn	120	3	He	24.596	0.3206	16499.24	0.0126	0.01097
Sn	120	3	He	24.309	0.3169	16399.14	0.0126	0.01097
Sb	121	3	He	25.077	0.3024	16004.99	0.012	0.0003595
Sb	121	3	He	25.526	0.3078	15844.81	0.012	0.0003595
Sb	121	3	He	24.476	0.2952	15274.30	0.012	0.0003595
Ba	137	3	He	241.832	0.9439	49952.11	0.0039	0.0003633
Ba	137	3	He	254.743	0.9943	51176.03	0.0039	0.0003633
Ba	137	3	He	245.556	0.9584	49590.91	0.0039	0.0003633
Tl	205	3	He	24.576	0.4668	86967.79	0.0189	0.001334
Tl	205	3	He	25.217	0.4789	88265.41	0.0189	0.001334
Tl	205	3	He	25.459	0.4835	89564.16	0.0189	0.001334
Pb	208	3	He	25.288	0.6377	63127.64	0.0252	0.001497
Pb	208	3	He	25.639	0.6465	64222.29	0.0252	0.001497
Pb	208	3	He	25.807	0.6507	63920.03	0.0252	0.001497
U	238	3	He	25.327	0.6219	115856.35	0.0245	0.0001141
U	238	3	He	26.224	0.6439	118660.42	0.0245	0.0001141
U	238	3	He	26.184	0.6429	119083.40	0.0245	0.0001141
Sc	45	1	No Gas			1574533.88		
Sc	45	1	No Gas			1631455.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1581647.32		
Ge	72	1	No Gas			795251.94		
Ge	72	1	No Gas			811018.27		
Ge	72	1	No Gas			789306.16		
Sc	45	2	H2			128662.21		
Sc	45	2	H2			128229.23		
Sc	45	2	H2			130858.51		
Ge	72	2	H2			94607.07		
Ge	72	2	H2			95039.60		
Ge	72	2	H2			95141.15		
In	115	2	H2			235343.00		
In	115	2	H2			239727.38		
In	115	2	H2			240135.23		
Sc	45	3	He			37854.24		
Sc	45	3	He			37373.24		
Sc	45	3	He			38556.17		
Ge	72	3	He			61959.46		
Ge	72	3	He			63987.85		
Ge	72	3	He			63586.49		
In	115	3	He			53041.11		
In	115	3	He			51586.56		
In	115	3	He			51856.93		
Tb	159	3	He			186306.09		
Tb	159	3	He			184292.40		
Tb	159	3	He			185233.10		
Bi	209	3	He			139309.93		
Bi	209	3	He			137452.47		
Bi	209	3	He			136442.82		

Quantitation Report

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Sample Type	CCB
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

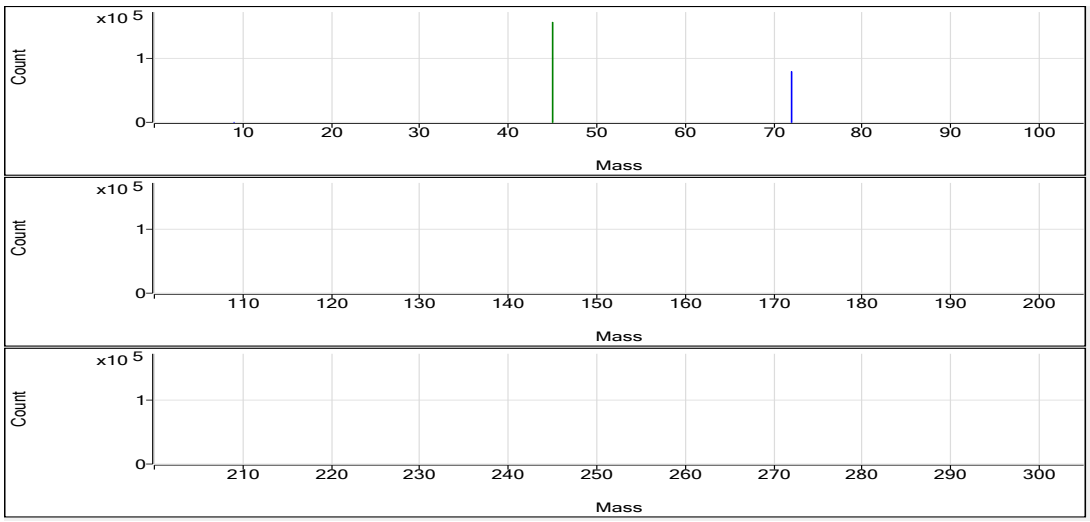
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.004	ppb	27.5	43.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.008	ppb	N/A	5.55	0.0001	Pulse	1.5000	3
Na	23	45	He	-90.153	ppb	N/A	19788.84	0.5255	Pulse	0.1000	3
Mg	24	45	He	-9.639	ppb	N/A	546.69	0.0145	Pulse	0.1000	3
Al	27	45	He	-4.045	ppb	N/A	143.34	0.0038	Pulse	0.1000	3
K	39	45	He	0.870	ppb	8299.1	19999.60	0.5315	Pulse	0.5000	3
Ca	44	45	He	3.766	ppb	70.4	174.67	0.0046	Pulse	0.5000	3
Ti	47	45	He	-0.290	ppb	N/A	12.67	0.0003	Pulse	0.5000	3
V	51	45	He	0.085	ppb	74.8	1038.71	0.0276	Pulse	0.5000	3
Cr	52	45	He	-0.316	ppb	N/A	1646.81	0.0437	Pulse	0.1000	3
Mn	55	45	He	-0.272	ppb	N/A	310.01	0.0082	Pulse	0.5000	3
Fe	57	45	He	-9.660	ppb	N/A	173.34	0.0046	Pulse	0.1000	3
Co	59	45	He	0.005	ppb	473.7	234.67	0.0062	Pulse	0.5000	3
Ni	60	45	He	-0.161	ppb	N/A	370.01	0.0098	Pulse	0.5000	3
Cu	63	72	He	-0.277	ppb	N/A	569.34	0.0090	Pulse	0.5000	3
Zn	66	72	He	-0.180	ppb	N/A	151.33	0.0024	Pulse	0.5000	3
As	75	72	He	0.446	ppb	10.2	132.00	0.0021	Pulse	0.5000	3
Sr	88	115	He	-0.017	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Mo	98	115	He	0.001	ppb	3452.1	76.67	0.0015	Pulse	0.1000	3
Ag	107	115	He	-0.004	ppb	N/A	60.00	0.0012	Pulse	0.1000	3
Cd	111	115	He	0.002	ppb	1494.4	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.070	ppb	N/A	510.03	0.0101	Pulse	0.1000	3
Sb	121	115	He	0.047	ppb	34.6	46.67	0.0009	Pulse	0.3000	3
Ba	137	115	He	0.111	ppb	81.7	40.00	0.0008	Pulse	0.1000	3
Tl	205	159	He	-0.028	ppb	N/A	146.68	0.0008	Pulse	0.1000	3
Pb	208	159	He	-0.015	ppb	N/A	206.67	0.0011	Pulse	0.1000	3
U	238	159	He	0.006	ppb	1.2	50.00	0.0003	Pulse	0.1000	3

ISTD Table:

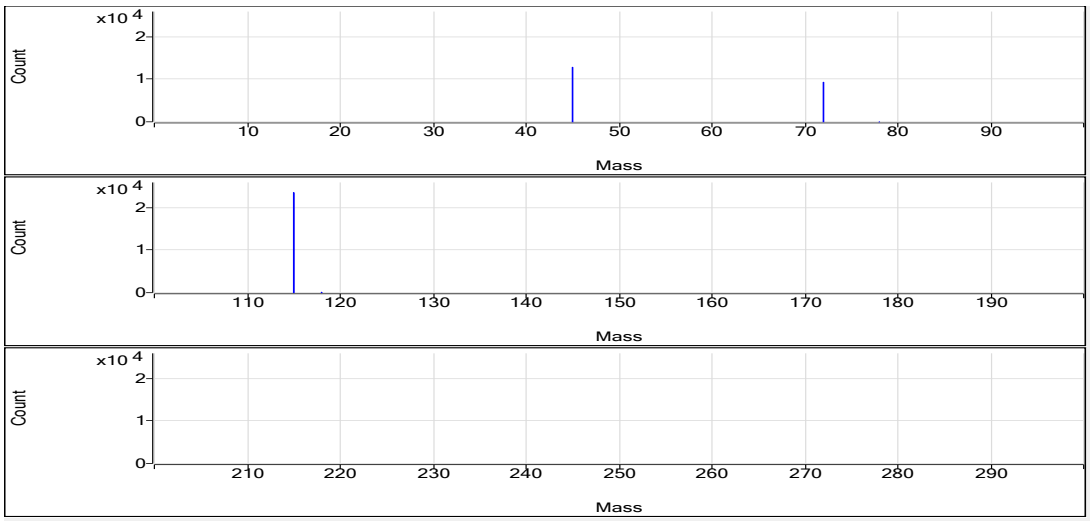
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1574261.64	2.0	92.1	Analog	0.1000	3
No Gas	Ge	72	798232.12	1.3	92.4	Pulse	0.1000	3
H2	Sc	45	128126.85	0.3	95.9	Pulse	0.1000	3
H2	Ge	72	93059.07	2.0	93.9	Pulse	0.1000	3
H2	In	115	234764.49	0.4	91.5	Pulse	0.1000	3
He	Sc	45	37663.96	1.7	95.4	Pulse	0.1000	3
He	Ge	72	63114.26	0.4	92.7	Pulse	0.1000	3
He	In	115	50419.00	2.4	91.0	Pulse	0.1000	3
He	Tb	159	182865.52	0.7	89.3	Pulse	0.1000	3
He	Bi	209	136009.59	1.4	89.9	Pulse	0.1000	3

No Gas

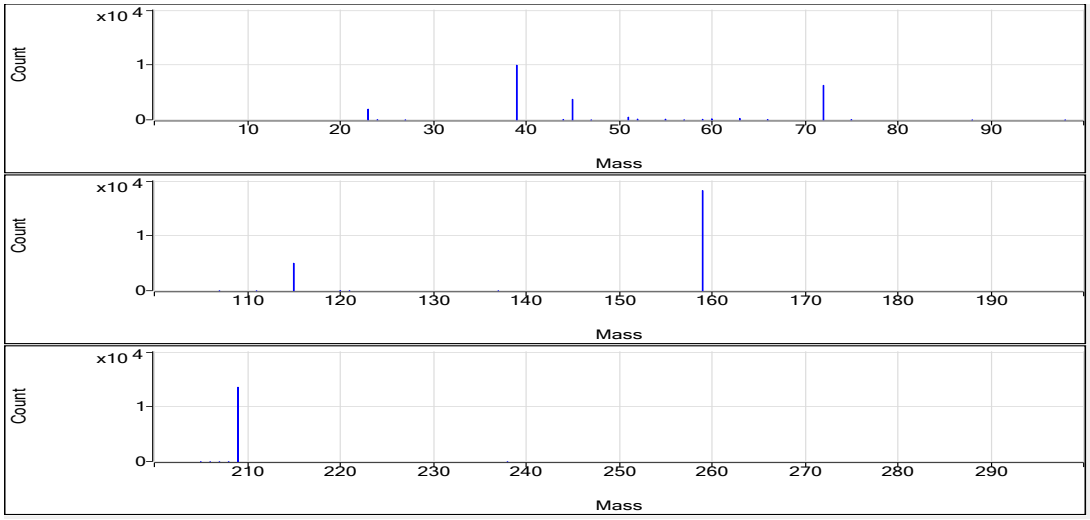


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.003	0	42.00	0.0003	2.616E-05
Be	9	1	No Gas	0.005	0	44.00	0.0003	2.616E-05
Be	9	1	No Gas	0.004	0	44.00	0.0003	2.616E-05
Se	78	2	H2	0.041	0.0001	7.33	0.0004	6.3E-05
Se	78	2	H2	-0.072	0	3.33	0.0004	6.3E-05
Se	78	2	H2	0.007	0.0001	6.00	0.0004	6.3E-05
Na	23	3	He	-88.987	0.5284	19752.10	0.0025	0.7502
Na	23	3	He	-89.146	0.528	19642.01	0.0025	0.7502
Na	23	3	He	-92.326	0.52	19972.42	0.0025	0.7502
Mg	24	3	He	-9.251	0.015	560.03	0.0012	0.02618
Mg	24	3	He	-10.301	0.0137	510.02	0.0012	0.02618
Mg	24	3	He	-9.365	0.0148	570.03	0.0012	0.02618
Al	27	3	He	-2.782	0.0043	160.01	0.0004	0.005329
Al	27	3	He	-5.579	0.0032	120.00	0.0004	0.005329
Al	27	3	He	-3.775	0.0039	150.01	0.0004	0.005329
K	39	3	He	80.329	0.6104	22819.84	0.001	0.5307
K	39	3	He	-16.976	0.5138	19115.08	0.001	0.5307
K	39	3	He	-60.743	0.4703	18063.87	0.001	0.5307
Ca	44	3	He	5.074	0.0047	176.00	0.0001	0.004441
Ca	44	3	He	5.508	0.0047	176.00	0.0001	0.004441
Ca	44	3	He	0.716	0.0045	172.00	0.0001	0.004441
Ti	47	3	He	0.063	0.0005	18.00	0.0004	0.0004559
Ti	47	3	He	-0.326	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.605	0.0002	8.00	0.0004	0.0004559
V	51	3	He	0.043	0.0269	1004.04	0.0176	0.02609
V	51	3	He	0.158	0.0289	1074.04	0.0176	0.02609
V	51	3	He	0.053	0.027	1038.04	0.0176	0.02609
Cr	52	3	He	-0.359	0.0428	1600.14	0.0217	0.05061
Cr	52	3	He	-0.189	0.0465	1730.15	0.0217	0.05061
Cr	52	3	He	-0.4	0.0419	1610.13	0.0217	0.05061
Mn	55	3	He	-0.3	0.008	298.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.278	0.0082	304.00	0.0091	0.01071
Mn	55	3	He	-0.238	0.0085	328.01	0.0091	0.01071
Fe	57	3	He	-12.457	0.0035	130.01	0.0004	0.008452
Fe	57	3	He	-9.049	0.0048	180.01	0.0004	0.008452
Fe	57	3	He	-7.473	0.0055	210.01	0.0004	0.008452
Co	59	3	He	0.033	0.0074	276.00	0.0413	0.006013
Co	59	3	He	-0.015	0.0054	200.00	0.0413	0.006013
Co	59	3	He	-0.002	0.0059	228.00	0.0413	0.006013
Ni	60	3	He	-0.182	0.0096	358.01	0.0117	0.01172
Ni	60	3	He	-0.11	0.0104	388.01	0.0117	0.01172
Ni	60	3	He	-0.191	0.0095	364.01	0.0117	0.01172
Cu	63	3	He	-0.264	0.0093	582.01	0.0196	0.01443
Cu	63	3	He	-0.275	0.0091	572.01	0.0196	0.01443
Cu	63	3	He	-0.291	0.0087	554.01	0.0196	0.01443
Zn	66	3	He	-0.157	0.0025	154.00	0.0023	0.002807
Zn	66	3	He	-0.12	0.0025	160.00	0.0023	0.002807
Zn	66	3	He	-0.263	0.0022	140.00	0.0023	0.002807
As	75	3	He	0.468	0.0021	134.00	0.0018	0.001271
As	75	3	He	0.394	0.002	126.00	0.0018	0.001271
As	75	3	He	0.476	0.0021	136.00	0.0018	0.001271
Sr	88	3	He	-0.015	0.001	50.00	0.0082	0.00114
Sr	88	3	He	-0.115	0.0002	10.00	0.0082	0.00114
Sr	88	3	He	0.078	0.0018	90.00	0.0082	0.00114
Mo	98	3	He	-0.016	0.0012	60.00	0.0177	0.001504
Mo	98	3	He	0.025	0.0019	100.00	0.0177	0.001504
Mo	98	3	He	-0.007	0.0014	70.00	0.0177	0.001504
Ag	107	3	He	-0.014	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.004	0.0012	60.00	0.0368	0.001325
Ag	107	3	He	0.007	0.0016	80.00	0.0368	0.001325
Cd	111	3	He	0.028	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Sn	120	3	He	-0.257	0.0077	380.02	0.0126	0.01097
Sn	120	3	He	0.023	0.0113	580.03	0.0126	0.01097
Sn	120	3	He	0.024	0.0113	570.04	0.0126	0.01097
Sb	121	3	He	0.066	0.0012	56.67	0.012	0.0003595
Sb	121	3	He	0.04	0.0008	43.33	0.012	0.0003595
Sb	121	3	He	0.036	0.0008	40.00	0.012	0.0003595
Ba	137	3	He	0.168	0.001	50.00	0.0039	0.0003633
Ba	137	3	He	0.006	0.0004	20.00	0.0039	0.0003633
Ba	137	3	He	0.16	0.001	50.00	0.0039	0.0003633
Tl	205	3	He	-0.033	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.022	0.0009	170.01	0.0189	0.001334
Tl	205	3	He	-0.03	0.0008	140.01	0.0189	0.001334
Pb	208	3	He	-0.014	0.0012	110.00	0.0252	0.001497
Pb	208	3	He	-0.016	0.0011	130.01	0.0252	0.001497
Pb	208	3	He	-0.014	0.0012	150.01	0.0252	0.001497
U	238	3	He	0.007	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.007	0.0003	50.00	0.0245	0.0001141
Sc	45	1	No Gas			1542084.51		
Sc	45	1	No Gas			1574196.85		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1606503.57		
Ge	72	1	No Gas			789621.39		
Ge	72	1	No Gas			795473.50		
Ge	72	1	No Gas			809601.47		
Sc	45	2	H2			128630.64		
Sc	45	2	H2			127935.83		
Sc	45	2	H2			127814.07		
Ge	72	2	H2			92737.15		
Ge	72	2	H2			95029.79		
Ge	72	2	H2			91410.26		
In	115	2	H2			235547.61		
In	115	2	H2			233637.03		
In	115	2	H2			235108.84		
Sc	45	3	He			37383.54		
Sc	45	3	He			37202.94		
Sc	45	3	He			38405.39		
Ge	72	3	He			62843.40		
Ge	72	3	He			63144.23		
Ge	72	3	He			63355.15		
In	115	3	He			49138.09		
In	115	3	He			51536.08		
In	115	3	He			50593.55		
Tb	159	3	He			182075.70		
Tb	159	3	He			184292.97		
Tb	159	3	He			182227.89		
Bi	209	3	He			138028.43		
Bi	209	3	He			134242.79		
Bi	209	3	He			135757.56		

Quantitation Report

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Acq Time	7/10/2025 10:44:26 PM
Sample Name	410-230816-B-3-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

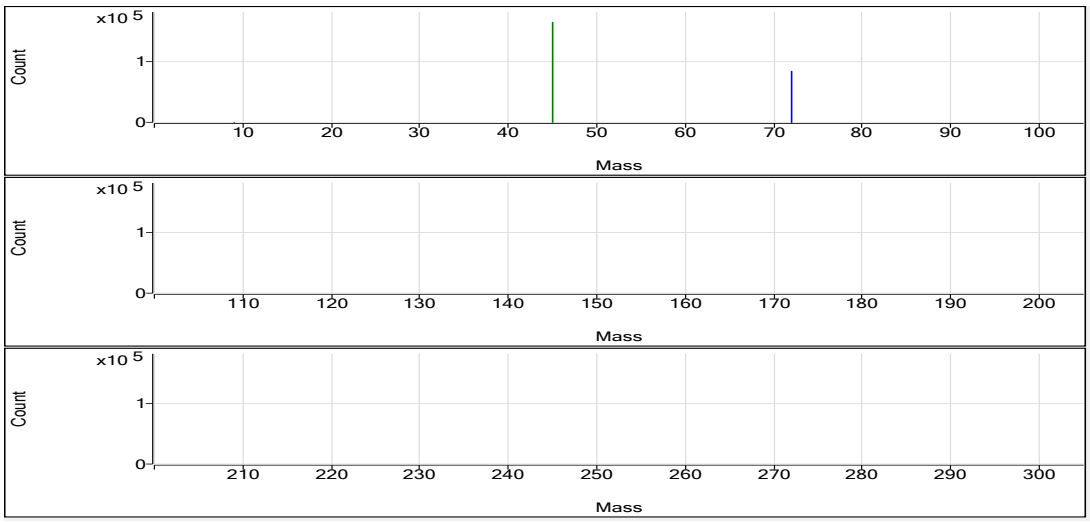
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.029	ppb	N/A	26.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.255	ppb	15.5	16.00	0.0002	Pulse	1.5000	3
Na	23	45	He	230635.775	ppb	2.0	22790727.16	575.6615	Analog	0.1000	3
Mg	24	45	He	8821.537	ppb	2.0	423929.72	10.7080	Pulse	0.1000	3
Al	27	45	He	801.434	ppb	2.9	12178.20	0.3076	Pulse	0.1000	3
K	39	45	He	15930.392	ppb	1.3	647281.77	16.3488	Pulse	0.5000	3
Ca	44	45	He	39313.810	ppb	1.6	82108.85	2.0739	Pulse	0.5000	3
Ti	47	45	He	0.740	ppb	126.2	30.00	0.0008	Pulse	0.5000	3
V	51	45	He	5.536	ppb	2.9	4888.09	0.1235	Pulse	0.5000	3
Cr	52	45	He	2.190	ppb	2.6	3887.27	0.0982	Pulse	0.1000	3
Mn	55	45	He	94.623	ppb	0.8	34571.77	0.8732	Pulse	0.5000	3
Fe	57	45	He	1877.412	ppb	2.9	30015.09	0.7582	Pulse	0.1000	3
Co	59	45	He	2.889	ppb	4.7	4959.45	0.1253	Pulse	0.5000	3
Ni	60	45	He	17.616	ppb	2.9	8655.01	0.2186	Pulse	0.5000	3
Cu	63	72	He	9.885	ppb	3.8	14045.44	0.2078	Pulse	0.5000	3
Zn	66	72	He	361.580	ppb	0.6	55732.55	0.8246	Pulse	0.5000	3
As	75	72	He	2.894	ppb	9.0	446.01	0.0066	Pulse	0.5000	3
Sr	88	115	He	361.430	ppb	0.8	157183.49	2.9707	Pulse	0.1000	3
Mo	98	115	He	49.040	ppb	1.8	46041.34	0.8701	Pulse	0.1000	3
Ag	107	115	He	-0.002	ppb	N/A	66.67	0.0013	Pulse	0.1000	3
Cd	111	115	He	0.053	ppb	46.3	14.00	0.0003	Pulse	0.5000	3
Sn	120	115	He	0.245	ppb	45.2	743.38	0.0140	Pulse	0.1000	3
Sb	121	115	He	26.924	ppb	1.2	17179.61	0.3247	Pulse	0.3000	3
Ba	137	115	He	35.296	ppb	3.0	7305.32	0.1381	Pulse	0.1000	3
Tl	205	159	He	-0.046	ppb	N/A	86.67	0.0005	Pulse	0.1000	3
Pb	208	159	He	2.121	ppb	3.6	10405.16	0.0549	Pulse	0.1000	3
U	238	159	He	0.038	ppb	22.5	200.01	0.0011	Pulse	0.1000	3

ISTD Table:

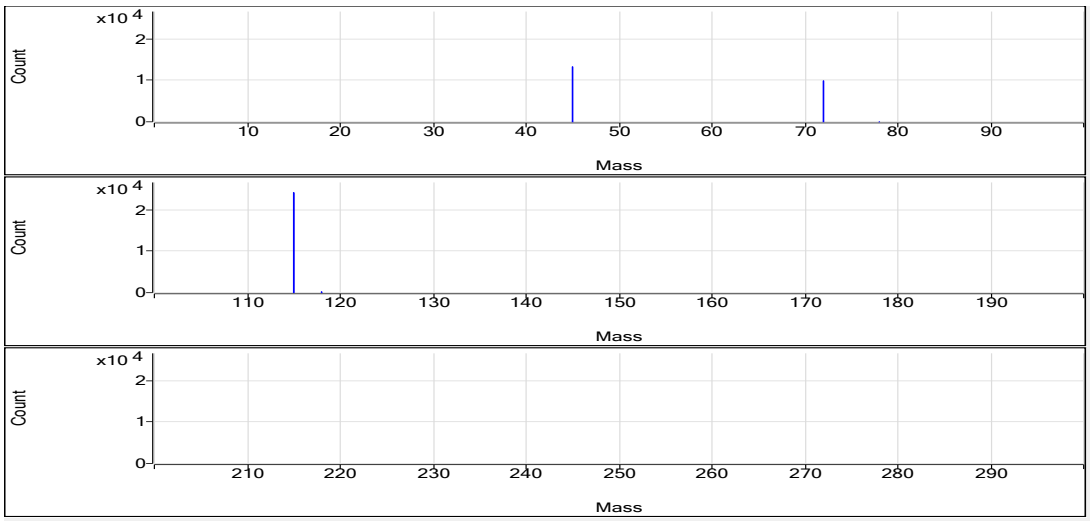
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1638181.59	0.5	95.9	Analog	0.1000	3
No Gas	Ge	72	836933.82	0.5	96.9	Pulse	0.1000	3
H2	Sc	45	132623.05	3.0	99.3	Pulse	0.1000	3
H2	Ge	72	98835.93	1.2	99.8	Pulse	0.1000	3
H2	In	115	241021.73	2.3	93.9	Pulse	0.1000	3
He	Sc	45	39595.22	1.0	100.3	Pulse	0.1000	3
He	Ge	72	67589.02	0.2	99.2	Pulse	0.1000	3
He	In	115	52912.08	0.5	95.5	Pulse	0.1000	3
He	Tb	159	189677.52	0.1	92.6	Pulse	0.1000	3
He	Bi	209	141840.36	1.0	93.8	Pulse	0.1000	3

No Gas

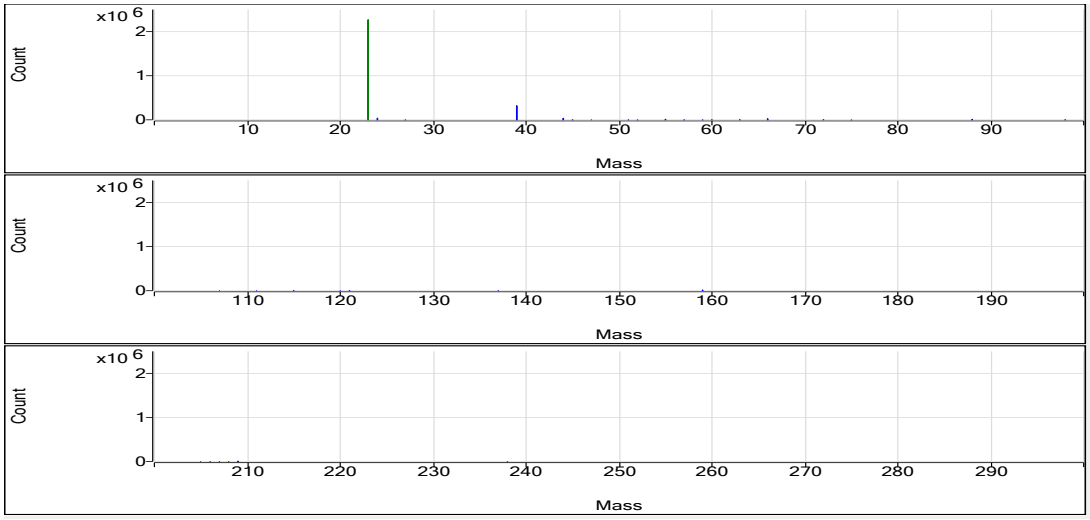


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.034	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Se	78	2	H2	0.254	0.0002	16.00	0.0004	6.3E-05
Se	78	2	H2	0.216	0.0001	14.67	0.0004	6.3E-05
Se	78	2	H2	0.295	0.0002	17.33	0.0004	6.3E-05
Na	23	3	He	225720.811	563.4099	22490927.16	0.0025	0.7502
Na	23	3	He	234814.677	586.0784	22961049.66	0.0025	0.7502
Na	23	3	He	231371.836	577.4963	22920204.66	0.0025	0.7502
Mg	24	3	He	8676.779	10.5327	420457.06	0.0012	0.02618
Mg	24	3	He	9019.333	10.9475	428893.70	0.0012	0.02618
Mg	24	3	He	8768.498	10.6437	422438.39	0.0012	0.02618
Al	27	3	He	789.975	0.3032	12104.73	0.0004	0.005329
Al	27	3	He	786.231	0.3018	11824.46	0.0004	0.005329
Al	27	3	He	828.095	0.3176	12605.40	0.0004	0.005329
K	39	3	He	15760.735	16.1803	645907.00	0.001	0.5307
K	39	3	He	16159.744	16.5765	649425.44	0.001	0.5307
K	39	3	He	15870.696	16.2895	646512.88	0.001	0.5307
Ca	44	3	He	38656.529	2.0393	81407.48	0.0001	0.004441
Ca	44	3	He	39874.363	2.1034	82406.12	0.0001	0.004441
Ca	44	3	He	39410.54	2.079	82512.95	0.0001	0.004441
Ti	47	3	He	-0.257	0.0004	14.00	0.0004	0.0004559
Ti	47	3	He	0.883	0.0008	32.00	0.0004	0.0004559
Ti	47	3	He	1.596	0.0011	44.00	0.0004	0.0004559
V	51	3	He	5.38	0.1207	4818.74	0.0176	0.02609
V	51	3	He	5.524	0.1233	4828.74	0.0176	0.02609
V	51	3	He	5.703	0.1264	5016.80	0.0176	0.02609
Cr	52	3	He	2.226	0.099	3950.63	0.0217	0.05061
Cr	52	3	He	2.218	0.0988	3870.60	0.0217	0.05061
Cr	52	3	He	2.125	0.0968	3840.59	0.0217	0.05061
Mn	55	3	He	93.734	0.8651	34532.34	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	94.875	0.8754	34297.81	0.0091	0.01071
Mn	55	3	He	95.26	0.879	34885.16	0.0091	0.01071
Fe	57	3	He	1816.644	0.7339	29297.01	0.0004	0.008452
Fe	57	3	He	1922.533	0.7762	30409.20	0.0004	0.008452
Fe	57	3	He	1893.059	0.7644	30339.06	0.0004	0.008452
Co	59	3	He	2.813	0.1222	4876.76	0.0413	0.006013
Co	59	3	He	3.045	0.1317	5160.85	0.0413	0.006013
Co	59	3	He	2.808	0.122	4840.75	0.0413	0.006013
Ni	60	3	He	17.038	0.2118	8456.25	0.0117	0.01172
Ni	60	3	He	17.85	0.2214	8672.36	0.0117	0.01172
Ni	60	3	He	17.959	0.2226	8836.43	0.0117	0.01172
Cu	63	3	He	9.981	0.2097	14146.19	0.0196	0.01443
Cu	63	3	He	10.203	0.214	14468.46	0.0196	0.01443
Cu	63	3	He	9.472	0.1997	13521.68	0.0196	0.01443
Zn	66	3	He	362.371	0.8264	55749.31	0.0023	0.002807
Zn	66	3	He	363.209	0.8283	55994.11	0.0023	0.002807
Zn	66	3	He	359.16	0.8191	55454.23	0.0023	0.002807
As	75	3	He	2.837	0.0065	438.01	0.0018	0.001271
As	75	3	He	2.669	0.0062	418.01	0.0018	0.001271
As	75	3	He	3.177	0.0071	482.01	0.0018	0.001271
Sr	88	3	He	358.099	2.9434	156604.94	0.0082	0.00114
Sr	88	3	He	363.424	2.9871	157826.34	0.0082	0.00114
Sr	88	3	He	362.768	2.9817	157119.19	0.0082	0.00114
Mo	98	3	He	49.949	0.8862	47151.38	0.0177	0.001504
Mo	98	3	He	48.188	0.855	45175.36	0.0177	0.001504
Mo	98	3	He	48.984	0.8691	45797.29	0.0177	0.001504
Ag	107	3	He	0.02	0.0021	110.00	0.0368	0.001325
Ag	107	3	He	0	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	0.043	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.081	0.0004	20.00	0.0041	4.798E-05
Cd	111	3	He	0.035	0.0002	10.00	0.0041	4.798E-05
Sn	120	3	He	0.279	0.0145	770.05	0.0126	0.01097
Sn	120	3	He	0.121	0.0125	660.03	0.0126	0.01097
Sn	120	3	He	0.335	0.0152	800.05	0.0126	0.01097
Sb	121	3	He	26.936	0.3248	17283.01	0.012	0.0003595
Sb	121	3	He	26.596	0.3207	16946.09	0.012	0.0003595
Sb	121	3	He	27.24	0.3285	17309.74	0.012	0.0003595
Ba	137	3	He	34.214	0.1339	7121.87	0.0039	0.0003633
Ba	137	3	He	36.348	0.1422	7512.11	0.0039	0.0003633
Ba	137	3	He	35.326	0.1382	7281.97	0.0039	0.0003633
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.043	0.0005	100.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	2.209	0.0571	5741.29	0.0252	0.001497
Pb	208	3	He	2.066	0.0535	5281.11	0.0252	0.001497
Pb	208	3	He	2.088	0.054	5591.29	0.0252	0.001497
U	238	3	He	0.038	0.0011	200.01	0.0245	0.0001141
U	238	3	He	0.03	0.0008	160.01	0.0245	0.0001141
U	238	3	He	0.047	0.0013	240.01	0.0245	0.0001141
Sc	45	1	No Gas			1633702.01		
Sc	45	1	No Gas			1647484.04		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1633358.73		
Ge	72	1	No Gas			840642.49		
Ge	72	1	No Gas			837982.41		
Ge	72	1	No Gas			832176.55		
Sc	45	2	H2			131060.76		
Sc	45	2	H2			137158.80		
Sc	45	2	H2			129649.59		
Ge	72	2	H2			99033.95		
Ge	72	2	H2			99888.82		
Ge	72	2	H2			97585.02		
In	115	2	H2			238479.64		
In	115	2	H2			247354.41		
In	115	2	H2			237231.15		
Sc	45	3	He			39919.30		
Sc	45	3	He			39177.44		
Sc	45	3	He			39688.92		
Ge	72	3	He			67462.04		
Ge	72	3	He			67602.32		
Ge	72	3	He			67702.70		
In	115	3	He			53211.63		
In	115	3	He			52840.40		
In	115	3	He			52699.83		
Tb	159	3	He			189596.46		
Tb	159	3	He			189869.94		
Tb	159	3	He			189566.15		
Bi	209	3	He			141783.54		
Bi	209	3	He			143297.79		
Bi	209	3	He			140439.74		

Quantitation Report

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Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

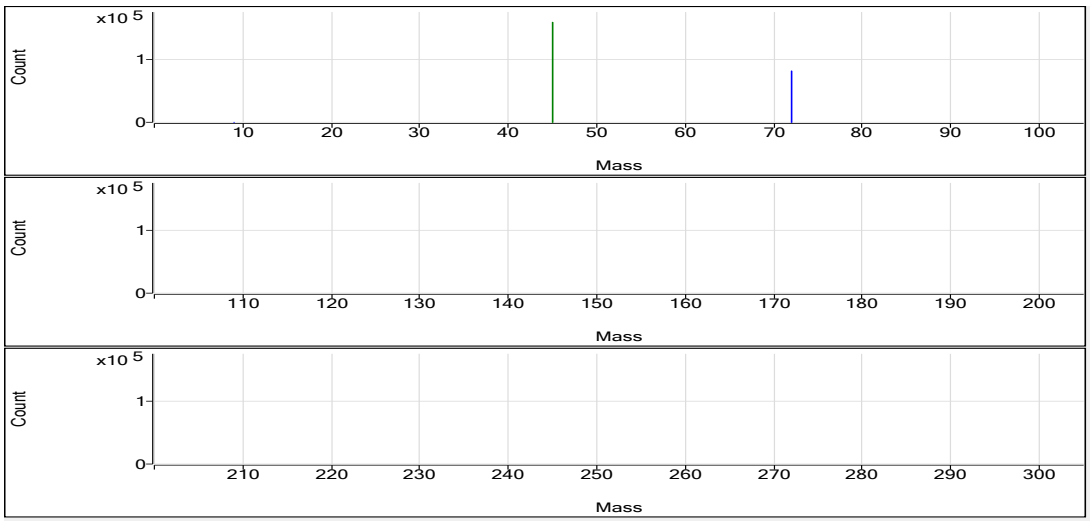
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.012	ppb	N/A	35.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.063	ppb	N/A	3.78	0.0000	Pulse	1.5000	3
Na	23	45	He	6370.328	ppb	3.3	649050.87	16.6297	Pulse	0.1000	3
Mg	24	45	He	7296.143	ppb	3.0	345858.16	8.8609	Pulse	0.1000	3
Al	27	45	He	-0.244	ppb	N/A	203.34	0.0052	Pulse	0.1000	3
K	39	45	He	473.472	ppb	13.6	39075.48	1.0008	Pulse	0.5000	3
Ca	44	45	He	13484.921	ppb	2.2	27884.19	0.7143	Pulse	0.5000	3
Ti	47	45	He	-0.861	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	0.438	ppb	16.5	1318.73	0.0338	Pulse	0.5000	3
Cr	52	45	He	1.086	ppb	32.1	2893.70	0.0742	Pulse	0.1000	3
Mn	55	45	He	4.246	ppb	7.3	1928.12	0.0494	Pulse	0.5000	3
Fe	57	45	He	842.893	ppb	3.3	13469.29	0.3451	Pulse	0.1000	3
Co	59	45	He	-0.032	ppb	N/A	184.00	0.0047	Pulse	0.5000	3
Ni	60	45	He	0.437	ppb	14.0	658.02	0.0168	Pulse	0.5000	3
Cu	63	72	He	395.693	ppb	1.1	516779.27	7.7550	Pulse	0.5000	3
Zn	66	72	He	46.057	ppb	1.9	7162.29	0.1075	Pulse	0.5000	3
As	75	72	He	0.816	ppb	24.3	184.67	0.0028	Pulse	0.5000	3
Sr	88	115	He	84.753	ppb	1.4	35607.30	0.6975	Pulse	0.1000	3
Mo	98	115	He	0.184	ppb	13.4	243.34	0.0048	Pulse	0.1000	3
Ag	107	115	He	0.070	ppb	10.8	200.01	0.0039	Pulse	0.1000	3
Cd	111	115	He	0.004	ppb	132.8	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	3.239	ppb	13.6	2640.34	0.0517	Pulse	0.1000	3
Sb	121	115	He	0.685	ppb	14.7	438.90	0.0086	Pulse	0.3000	3
Ba	137	115	He	1.612	ppb	12.1	340.02	0.0067	Pulse	0.1000	3
Tl	205	159	He	-0.043	ppb	N/A	96.67	0.0005	Pulse	0.1000	3
Pb	208	159	He	7.616	ppb	1.6	36389.06	0.1931	Pulse	0.1000	3
U	238	159	He	0.016	ppb	32.6	96.67	0.0005	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1604034.09	0.7	93.9	Analog	0.1000	3
No Gas	Ge	72	823564.88	0.7	95.3	Pulse	0.1000	3
H2	Sc	45	129836.98	2.1	97.2	Pulse	0.1000	3
H2	Ge	72	98132.13	0.6	99.1	Pulse	0.1000	3
H2	In	115	238981.87	0.5	93.1	Pulse	0.1000	3
He	Sc	45	39053.86	2.9	98.9	Pulse	0.1000	3
He	Ge	72	66641.78	0.8	97.8	Pulse	0.1000	3
He	In	115	51052.60	1.6	92.1	Pulse	0.1000	3
He	Tb	159	188468.15	0.8	92.0	Pulse	0.1000	3
He	Bi	209	140865.79	0.9	93.1	Pulse	0.1000	3

No Gas



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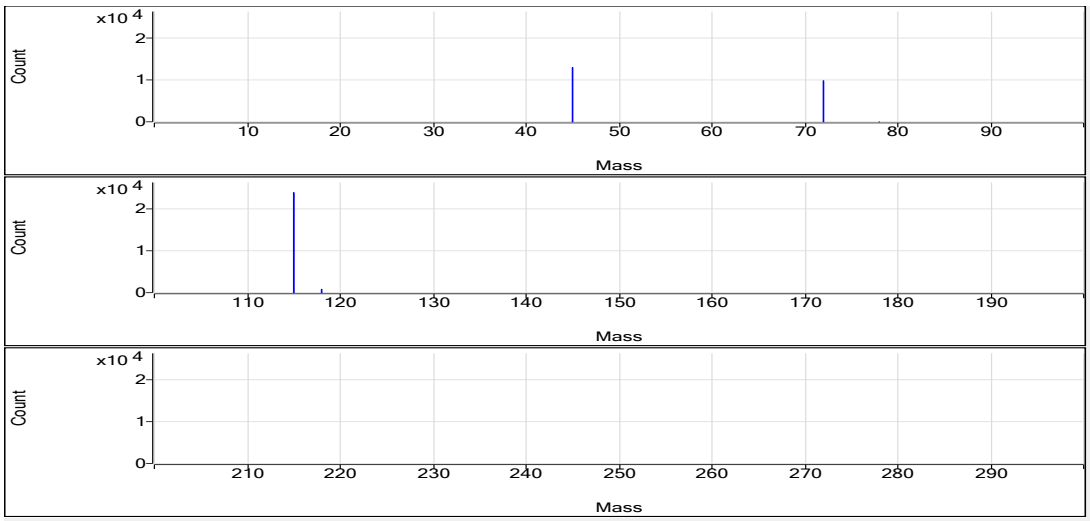
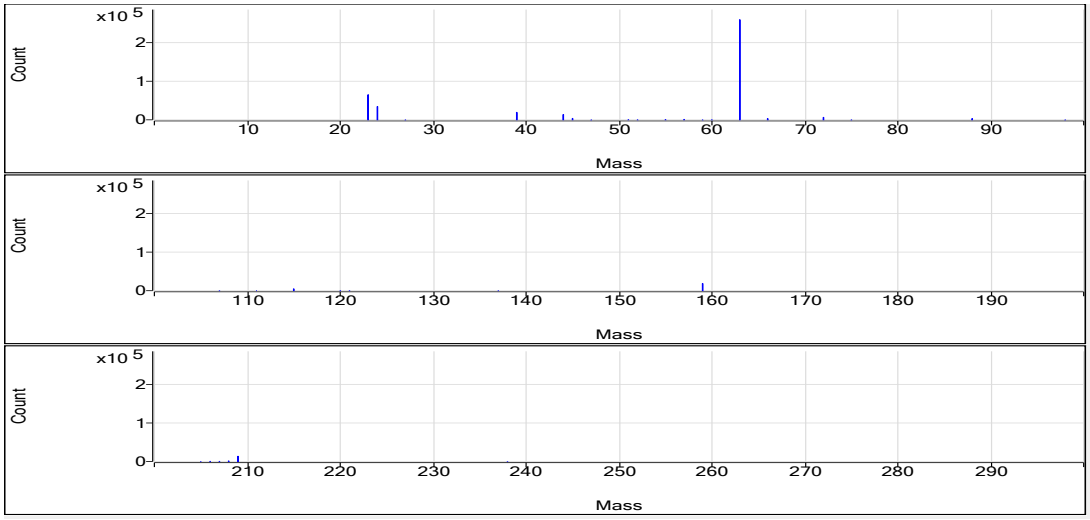


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	0.011	0	48.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Se	78	2	H2	-0.075	0	3.33	0.0004	6.3E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.022	0.0001	5.33	0.0004	6.3E-05
Na	23	3	He	6370.825	16.6309	651726.90	0.0025	0.7502
Na	23	3	He	6156.905	16.0976	645832.02	0.0025	0.7502
Na	23	3	He	6583.253	17.1604	649593.70	0.0025	0.7502
Mg	24	3	He	7327.631	8.899	348732.65	0.0012	0.02618
Mg	24	3	He	7065.349	8.5814	344284.21	0.0012	0.02618
Mg	24	3	He	7495.448	9.1022	344557.61	0.0012	0.02618
Al	27	3	He	-0.598	0.0051	200.01	0.0004	0.005329
Al	27	3	He	-4.217	0.0037	150.01	0.0004	0.005329
Al	27	3	He	4.082	0.0069	260.01	0.0004	0.005329
K	39	3	He	544.307	1.0711	41975.25	0.001	0.5307
K	39	3	He	419.094	0.9468	37985.37	0.001	0.5307
K	39	3	He	457.016	0.9845	37265.83	0.001	0.5307
Ca	44	3	He	13564.886	0.7185	28155.98	0.0001	0.004441
Ca	44	3	He	13155.811	0.697	27961.64	0.0001	0.004441
Ca	44	3	He	13734.067	0.7274	27534.96	0.0001	0.004441
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.871	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.598	0.0002	8.00	0.0004	0.0004559
V	51	3	He	0.446	0.0339	1330.06	0.0176	0.02609
V	51	3	He	0.362	0.0325	1302.06	0.0176	0.02609
V	51	3	He	0.505	0.035	1324.07	0.0176	0.02609
Cr	52	3	He	0.807	0.0681	2670.32	0.0217	0.05061
Cr	52	3	He	0.975	0.0718	2880.35	0.0217	0.05061
Cr	52	3	He	1.477	0.0827	3130.42	0.0217	0.05061
Mn	55	3	He	3.988	0.0471	1844.11	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	4.158	0.0486	1950.13	0.0091	0.01071
Mn	55	3	He	4.593	0.0526	1990.13	0.0091	0.01071
Fe	57	3	He	862.349	0.3528	13826.24	0.0004	0.008452
Fe	57	3	He	810.597	0.3322	13325.90	0.0004	0.008452
Fe	57	3	He	855.734	0.3502	13255.73	0.0004	0.008452
Co	59	3	He	-0.012	0.0055	216.00	0.0413	0.006013
Co	59	3	He	-0.037	0.0045	180.00	0.0413	0.006013
Co	59	3	He	-0.046	0.0041	156.00	0.0413	0.006013
Ni	60	3	He	0.367	0.016	628.02	0.0117	0.01172
Ni	60	3	He	0.48	0.0173	696.02	0.0117	0.01172
Ni	60	3	He	0.465	0.0172	650.02	0.0117	0.01172
Cu	63	3	He	400.496	7.849	518708.94	0.0196	0.01443
Cu	63	3	He	394.078	7.7234	515296.81	0.0196	0.01443
Cu	63	3	He	392.505	7.6926	516332.06	0.0196	0.01443
Zn	66	3	He	46.686	0.1089	7197.63	0.0023	0.002807
Zn	66	3	He	46.443	0.1084	7229.65	0.0023	0.002807
Zn	66	3	He	45.043	0.1052	7059.58	0.0023	0.002807
As	75	3	He	0.954	0.003	200.00	0.0018	0.001271
As	75	3	He	0.905	0.0029	196.00	0.0018	0.001271
As	75	3	He	0.588	0.0024	158.00	0.0018	0.001271
Sr	88	3	He	85.432	0.7031	35239.85	0.0082	0.00114
Sr	88	3	He	83.366	0.6861	35199.64	0.0082	0.00114
Sr	88	3	He	85.461	0.7033	36382.40	0.0082	0.00114
Mo	98	3	He	0.174	0.0046	230.01	0.0177	0.001504
Mo	98	3	He	0.212	0.0053	270.01	0.0177	0.001504
Mo	98	3	He	0.166	0.0044	230.01	0.0177	0.001504
Ag	107	3	He	0.062	0.0036	180.01	0.0368	0.001325
Ag	107	3	He	0.075	0.0041	210.01	0.0368	0.001325
Ag	107	3	He	0.074	0.0041	210.01	0.0368	0.001325
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	3.266	0.0521	2610.32	0.0126	0.01097
Sn	120	3	He	3.667	0.0571	2930.42	0.0126	0.01097
Sn	120	3	He	2.784	0.046	2380.28	0.0126	0.01097
Sb	121	3	He	0.798	0.01	500.01	0.012	0.0003595
Sb	121	3	He	0.607	0.0077	393.34	0.012	0.0003595
Sb	121	3	He	0.65	0.0082	423.35	0.012	0.0003595
Ba	137	3	He	1.39	0.0058	290.01	0.0039	0.0003633
Ba	137	3	He	1.755	0.0072	370.02	0.0039	0.0003633
Ba	137	3	He	1.691	0.007	360.02	0.0039	0.0003633
Tl	205	3	He	-0.034	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	7.705	0.1953	19784.06	0.0252	0.001497
Pb	208	3	He	7.662	0.1943	19583.57	0.0252	0.001497
Pb	208	3	He	7.48	0.1897	19173.16	0.0252	0.001497
U	238	3	He	0.017	0.0005	100.00	0.0245	0.0001141
U	238	3	He	0.011	0.0004	70.00	0.0245	0.0001141
U	238	3	He	0.021	0.0006	120.01	0.0245	0.0001141
Sc	45	1	No Gas			1614337.01		
Sc	45	1	No Gas			1606587.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1591177.48		
Ge	72	1	No Gas			820403.97		
Ge	72	1	No Gas			830302.10		
Ge	72	1	No Gas			819988.58		
Sc	45	2	H2			126625.39		
Sc	45	2	H2			131483.37		
Sc	45	2	H2			131402.19		
Ge	72	2	H2			97967.42		
Ge	72	2	H2			98782.71		
Ge	72	2	H2			97646.26		
In	115	2	H2			238022.20		
In	115	2	H2			238633.45		
In	115	2	H2			240289.96		
Sc	45	3	He			39187.73		
Sc	45	3	He			40119.65		
Sc	45	3	He			37854.19		
Ge	72	3	He			66086.34		
Ge	72	3	He			66718.75		
Ge	72	3	He			67120.24		
In	115	3	He			50141.06		
In	115	3	He			51325.07		
In	115	3	He			51747.12		
Tb	159	3	He			189061.81		
Tb	159	3	He			186703.45		
Tb	159	3	He			189639.20		
Bi	209	3	He			139785.08		
Bi	209	3	He			142320.07		
Bi	209	3	He			140492.21		

Quantitation Report

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Sample Type	Sample
Comment	C4
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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

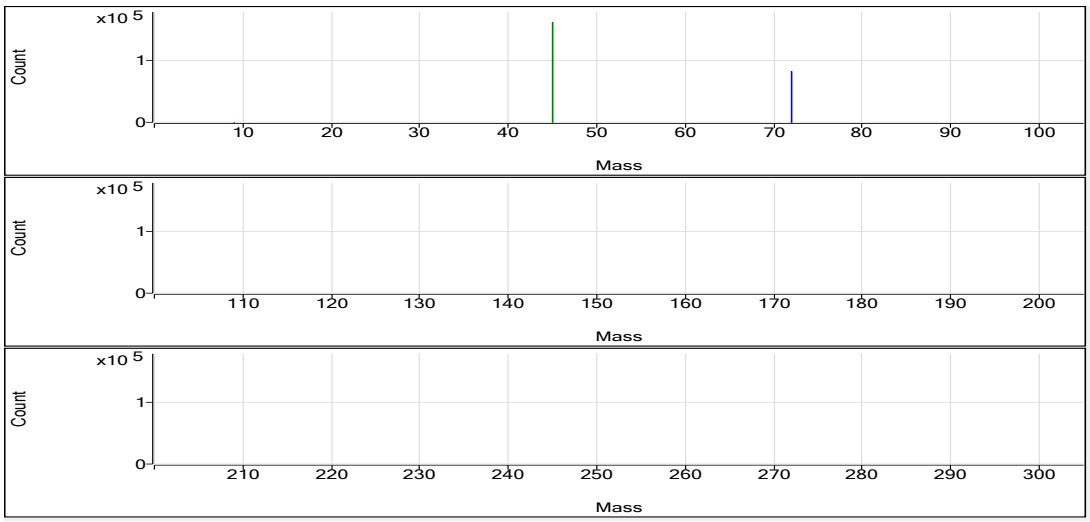
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.024	ppb	N/A	29.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.099	ppb	N/A	2.45	0.0000	Pulse	1.5000	3
Na	23	45	He	24106.086	ppb	1.5	2354135.59	60.8400	Analog	0.1000	3
Mg	24	45	He	1.117	ppb	221.9	1066.73	0.0275	Pulse	0.1000	3
Al	27	45	He	-2.980	ppb	N/A	163.34	0.0042	Pulse	0.1000	3
K	39	45	He	374.807	ppb	22.0	34905.53	0.9028	Pulse	0.5000	3
Ca	44	45	He	24.068	ppb	43.9	220.67	0.0057	Pulse	0.5000	3
Ti	47	45	He	-0.948	ppb	N/A	2.67	0.0001	Pulse	0.5000	3
V	51	45	He	-0.235	ppb	N/A	850.03	0.0220	Pulse	0.5000	3
Cr	52	45	He	-0.766	ppb	N/A	1313.43	0.0340	Pulse	0.1000	3
Mn	55	45	He	-0.148	ppb	N/A	362.01	0.0094	Pulse	0.5000	3
Fe	57	45	He	80.329	ppb	14.4	1566.80	0.0405	Pulse	0.1000	3
Co	59	45	He	-0.058	ppb	N/A	140.00	0.0036	Pulse	0.5000	3
Ni	60	45	He	-0.337	ppb	N/A	300.00	0.0078	Pulse	0.5000	3
Cu	63	72	He	0.982	ppb	3.2	2214.83	0.0336	Pulse	0.5000	3
Zn	66	72	He	8.059	ppb	3.7	1390.74	0.0211	Pulse	0.5000	3
As	75	72	He	0.477	ppb	42.8	141.33	0.0021	Pulse	0.5000	3
Sr	88	115	He	0.124	ppb	30.4	113.34	0.0022	Pulse	0.1000	3
Mo	98	115	He	-0.010	ppb	N/A	70.00	0.0013	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	-0.006	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.046	ppb	N/A	546.70	0.0104	Pulse	0.1000	3
Sb	121	115	He	0.096	ppb	30.0	80.00	0.0015	Pulse	0.3000	3
Ba	137	115	He	0.329	ppb	37.3	86.67	0.0016	Pulse	0.1000	3
Tl	205	159	He	-0.043	ppb	N/A	96.67	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.018	ppb	29.8	363.35	0.0020	Pulse	0.1000	3
U	238	159	He	0.000	ppb	1016.0	23.33	0.0001	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1620851.12	0.6	94.9	Analog	0.1000	3
No Gas	Ge	72	825116.73	0.8	95.5	Pulse	0.1000	3
H2	Sc	45	129501.73	2.4	96.9	Pulse	0.1000	3
H2	Ge	72	99490.12	1.5	100.4	Pulse	0.1000	3
H2	In	115	242595.56	0.8	94.5	Pulse	0.1000	3
He	Sc	45	38699.90	1.6	98.0	Pulse	0.1000	3
He	Ge	72	65852.18	1.1	96.7	Pulse	0.1000	3
He	In	115	52609.00	0.8	95.0	Pulse	0.1000	3
He	Tb	159	186253.89	1.3	90.9	Pulse	0.1000	3
He	Bi	209	142678.98	0.5	94.3	Pulse	0.1000	3

No Gas



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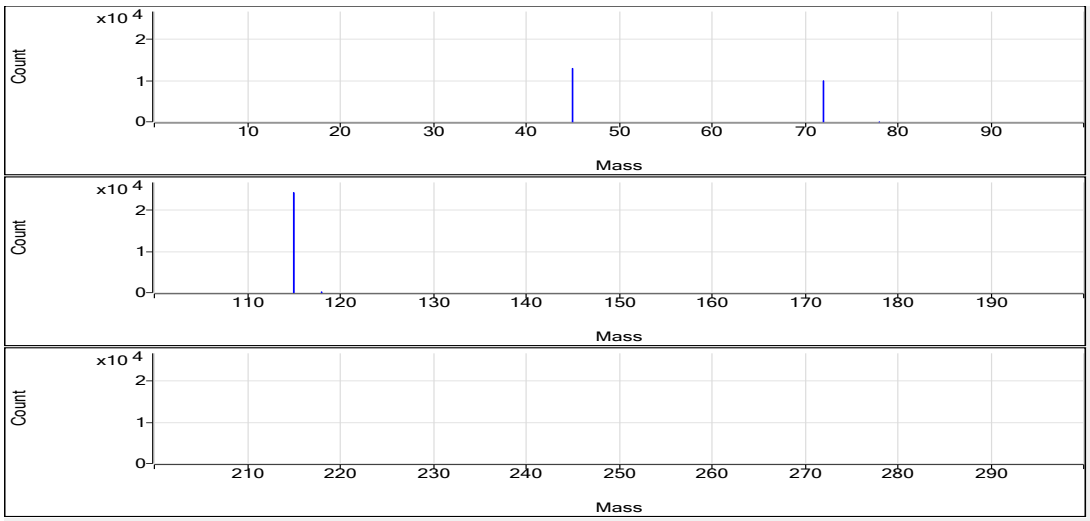
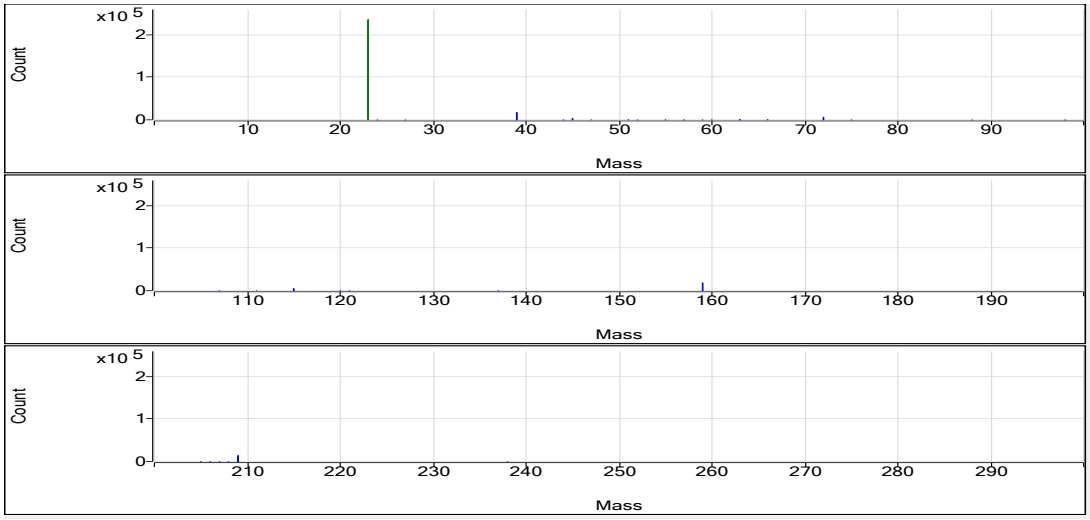


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.008	0	38.00	0.0003	2.616E-05
Se	78	2	H2	-0.111	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.094	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.092	0	2.67	0.0004	6.3E-05
Na	23	3	He	24485.286	61.7852	2348762.93	0.0025	0.7502
Na	23	3	He	24055.892	60.7149	2359212.15	0.0025	0.7502
Na	23	3	He	23777.08	60.0199	2354431.68	0.0025	0.7502
Mg	24	3	He	-0.983	0.025	950.06	0.0012	0.02618
Mg	24	3	He	0.482	0.0268	1040.06	0.0012	0.02618
Mg	24	3	He	3.853	0.0308	1210.08	0.0012	0.02618
Al	27	3	He	-7.157	0.0026	100.00	0.0004	0.005329
Al	27	3	He	-1.848	0.0046	180.01	0.0004	0.005329
Al	27	3	He	0.064	0.0054	210.01	0.0004	0.005329
K	39	3	He	467.22	0.9946	37809.24	0.001	0.5307
K	39	3	He	347.891	0.8761	34042.88	0.001	0.5307
K	39	3	He	309.309	0.8378	32864.47	0.001	0.5307
Ca	44	3	He	34.571	0.0063	238.00	0.0001	0.004441
Ca	44	3	He	24.171	0.0057	222.00	0.0001	0.004441
Ca	44	3	He	13.461	0.0051	202.00	0.0001	0.004441
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.616	0.0002	8.00	0.0004	0.0004559
V	51	3	He	-0.236	0.0219	834.03	0.0176	0.02609
V	51	3	He	-0.164	0.0232	902.03	0.0176	0.02609
V	51	3	He	-0.304	0.0208	814.03	0.0176	0.02609
Cr	52	3	He	-0.61	0.0374	1420.12	0.0217	0.05061
Cr	52	3	He	-0.837	0.0324	1260.09	0.0217	0.05061
Cr	52	3	He	-0.851	0.0321	1260.09	0.0217	0.05061
Mn	55	3	He	-0.096	0.0098	374.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.17	0.0092	356.01	0.0091	0.01071
Mn	55	3	He	-0.179	0.0091	356.01	0.0091	0.01071
Fe	57	3	He	90.168	0.0445	1690.14	0.0004	0.008452
Fe	57	3	He	83.244	0.0417	1620.15	0.0004	0.008452
Fe	57	3	He	67.574	0.0354	1390.11	0.0004	0.008452
Co	59	3	He	-0.031	0.0047	180.00	0.0413	0.006013
Co	59	3	He	-0.078	0.0028	108.00	0.0413	0.006013
Co	59	3	He	-0.064	0.0034	132.00	0.0413	0.006013
Ni	60	3	He	-0.326	0.0079	300.01	0.0117	0.01172
Ni	60	3	He	-0.353	0.0076	294.00	0.0117	0.01172
Ni	60	3	He	-0.333	0.0078	306.00	0.0117	0.01172
Cu	63	3	He	0.997	0.0339	2232.17	0.0196	0.01443
Cu	63	3	He	0.945	0.0329	2194.16	0.0196	0.01443
Cu	63	3	He	1.003	0.034	2218.17	0.0196	0.01443
Zn	66	3	He	8.252	0.0216	1418.07	0.0023	0.002807
Zn	66	3	He	7.719	0.0203	1356.07	0.0023	0.002807
Zn	66	3	He	8.206	0.0215	1398.07	0.0023	0.002807
As	75	3	He	0.449	0.0021	138.00	0.0018	0.001271
As	75	3	He	0.288	0.0018	120.00	0.0018	0.001271
As	75	3	He	0.694	0.0025	166.00	0.0018	0.001271
Sr	88	3	He	0.115	0.0021	110.00	0.0082	0.00114
Sr	88	3	He	0.165	0.0025	130.01	0.0082	0.00114
Sr	88	3	He	0.091	0.0019	100.00	0.0082	0.00114
Mo	98	3	He	-0.01	0.0013	70.00	0.0177	0.001504
Mo	98	3	He	0.013	0.0017	90.00	0.0177	0.001504
Mo	98	3	He	-0.032	0.0009	50.00	0.0177	0.001504
Ag	107	3	He	-0.021	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.044	0.0104	550.03	0.0126	0.01097
Sn	120	3	He	-0.094	0.0098	510.03	0.0126	0.01097
Sn	120	3	He	0	0.011	580.03	0.0126	0.01097
Sb	121	3	He	0.07	0.0012	63.33	0.012	0.0003595
Sb	121	3	He	0.092	0.0015	76.67	0.012	0.0003595
Sb	121	3	He	0.127	0.0019	100.00	0.012	0.0003595
Ba	137	3	He	0.441	0.0021	110.00	0.0039	0.0003633
Ba	137	3	He	0.349	0.0017	90.00	0.0039	0.0003633
Ba	137	3	He	0.198	0.0011	60.00	0.0039	0.0003633
Tl	205	3	He	-0.034	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.053	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.042	0.0005	100.01	0.0189	0.001334
Pb	208	3	He	0.012	0.0018	220.01	0.0252	0.001497
Pb	208	3	He	0.023	0.0021	200.01	0.0252	0.001497
Pb	208	3	He	0.019	0.002	170.01	0.0252	0.001497
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.002	0.0002	30.00	0.0245	0.0001141
U	238	3	He	-0.005	0	0.00	0.0245	0.0001141
Sc	45	1	No Gas			1632388.41		
Sc	45	1	No Gas			1617137.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1613027.16		
Ge	72	1	No Gas			826986.55		
Ge	72	1	No Gas			830171.24		
Ge	72	1	No Gas			818192.41		
Sc	45	2	H2			130293.75		
Sc	45	2	H2			132108.28		
Sc	45	2	H2			126103.15		
Ge	72	2	H2			100029.82		
Ge	72	2	H2			100684.30		
Ge	72	2	H2			97756.24		
In	115	2	H2			244197.01		
In	115	2	H2			243139.14		
In	115	2	H2			240450.52		
Sc	45	3	He			38014.95		
Sc	45	3	He			38857.23		
Sc	45	3	He			39227.53		
Ge	72	3	He			65765.26		
Ge	72	3	He			66638.33		
Ge	72	3	He			65152.95		
In	115	3	He			52820.17		
In	115	3	He			52128.03		
In	115	3	He			52890.29		
Tb	159	3	He			188666.50		
Tb	159	3	He			183899.88		
Tb	159	3	He			186195.29		
Bi	209	3	He			143166.69		
Bi	209	3	He			143035.73		
Bi	209	3	He			141834.51		

Quantitation Report

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Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

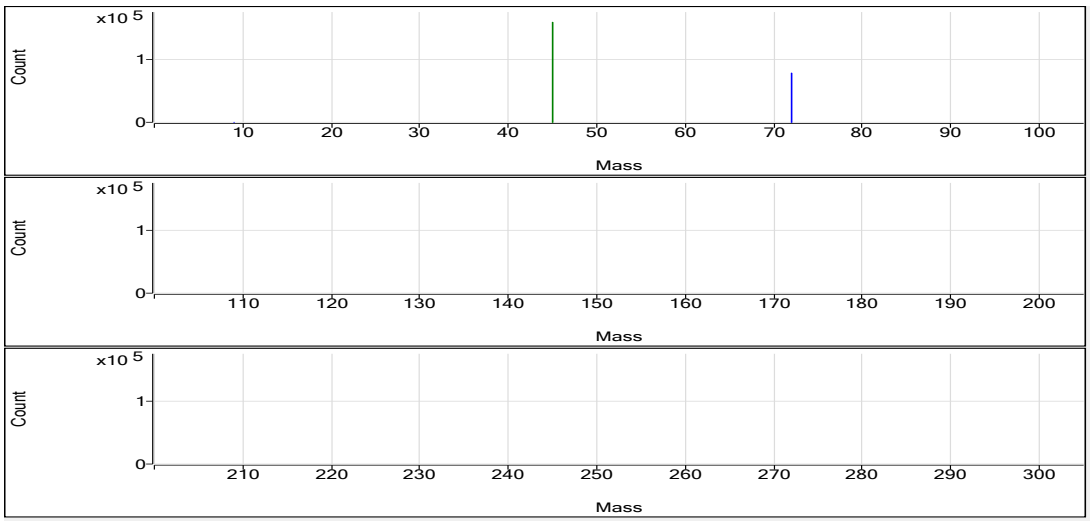
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.031	ppb	N/A	24.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	1.506	ppb	8.7	59.78	0.0006	Pulse	1.5000	3
Na	23	45	He	659335.320	ppb	0.5	62883367.39	1,644.2911	Analog	0.1000	3
Mg	24	45	He	83330.923	ppb	1.0	3859693.17	100.9295	Analog	0.1000	3
Al	27	45	He	-0.722	ppb	N/A	193.34	0.0051	Pulse	0.1000	3
K	39	45	He	3803.459	ppb	2.9	164692.53	4.3073	Pulse	0.5000	3
Ca	44	45	He	218077.904	ppb	1.2	439157.67	11.4840	Pulse	0.5000	3
Ti	47	45	He	-0.859	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	-0.125	ppb	N/A	913.36	0.0239	Pulse	0.5000	3
Cr	52	45	He	0.336	ppb	45.9	2213.56	0.0579	Pulse	0.1000	3
Mn	55	45	He	0.291	ppb	26.3	510.68	0.0134	Pulse	0.5000	3
Fe	57	45	He	0.216	ppb	306.4	326.68	0.0085	Pulse	0.1000	3
Co	59	45	He	-0.003	ppb	N/A	225.33	0.0059	Pulse	0.5000	3
Ni	60	45	He	0.286	ppb	3.5	576.68	0.0151	Pulse	0.5000	3
Cu	63	72	He	0.343	ppb	8.5	1334.06	0.0212	Pulse	0.5000	3
Zn	66	72	He	1.625	ppb	2.6	410.01	0.0065	Pulse	0.5000	3
As	75	72	He	0.470	ppb	33.1	134.67	0.0021	Pulse	0.5000	3
Sr	88	115	He	2028.180	ppb	1.7	837245.43	16.6651	Pulse	0.1000	3
Mo	98	115	He	1.042	ppb	17.2	1003.40	0.0200	Pulse	0.1000	3
Ag	107	115	He	-0.022	ppb	N/A	26.67	0.0005	Pulse	0.1000	3
Cd	111	115	He	0.005	ppb	127.1	3.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.128	ppb	N/A	470.02	0.0094	Pulse	0.1000	3
Sb	121	115	He	0.130	ppb	16.1	96.67	0.0019	Pulse	0.3000	3
Ba	137	115	He	131.538	ppb	1.5	25805.69	0.5136	Pulse	0.1000	3
Tl	205	159	He	-0.040	ppb	N/A	106.67	0.0006	Pulse	0.1000	3
Pb	208	159	He	-0.013	ppb	N/A	216.67	0.0012	Pulse	0.1000	3
U	238	159	He	1.702	ppb	2.8	7832.42	0.0419	Pulse	0.1000	3

ISTD Table:

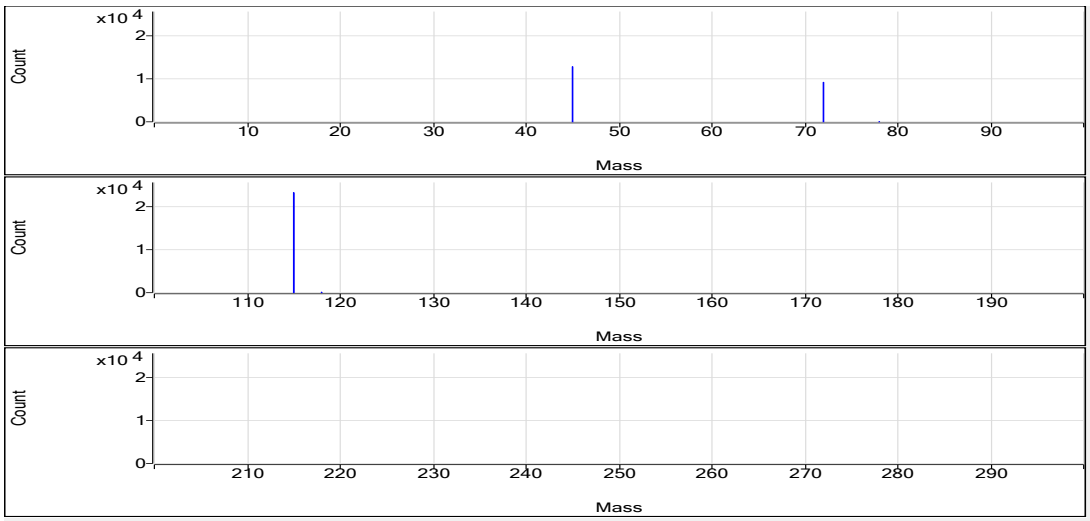
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1584819.04	0.3	92.8	Analog	0.1000	3
No Gas	Ge	72	780875.20	1.1	90.4	Pulse	0.1000	3
H2	Sc	45	128761.92	1.1	96.4	Pulse	0.1000	3
H2	Ge	72	92448.39	1.5	93.3	Pulse	0.1000	3
H2	In	115	233556.25	0.5	91.0	Pulse	0.1000	3
He	Sc	45	38245.35	1.6	96.9	Pulse	0.1000	3
He	Ge	72	63064.24	0.5	92.6	Pulse	0.1000	3
He	In	115	50244.86	1.1	90.7	Pulse	0.1000	3
He	Tb	159	186884.10	1.3	91.3	Pulse	0.1000	3
He	Bi	209	133096.43	1.2	88.0	Pulse	0.1000	3

No Gas

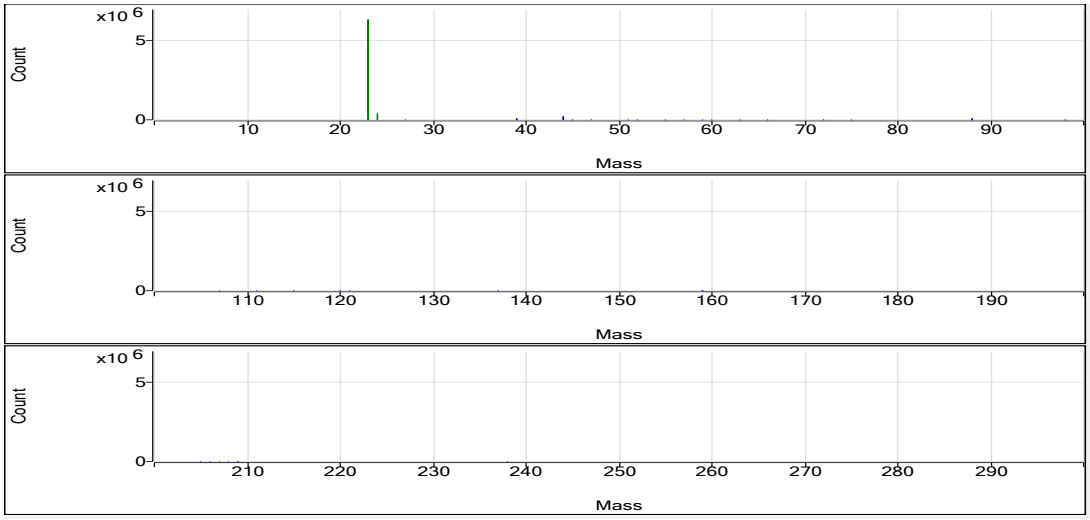


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.055	0	12.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.014	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.025	0	28.00	0.0003	2.616E-05
Se	78	2	H2	1.652	0.0007	64.00	0.0004	6.3E-05
Se	78	2	H2	1.399	0.0006	56.67	0.0004	6.3E-05
Se	78	2	H2	1.468	0.0006	58.67	0.0004	6.3E-05
Na	23	3	He	662269.14	1651.6043	62106434.07	0.0025	0.7502
Na	23	3	He	656060.42	1636.1277	63524949.05	0.0025	0.7502
Na	23	3	He	659676.402	1645.1414	63018719.06	0.0025	0.7502
Mg	24	3	He	84186.982	101.9661	3834302.13	0.0012	0.02618
Mg	24	3	He	82622.434	100.0716	3885420.57	0.0012	0.02618
Mg	24	3	He	83183.353	100.7508	3859356.82	0.0012	0.02618
Al	27	3	He	-0.733	0.0051	190.01	0.0004	0.005329
Al	27	3	He	-1.838	0.0046	180.01	0.0004	0.005329
Al	27	3	He	0.406	0.0055	210.01	0.0004	0.005329
K	39	3	He	3932.161	4.4351	166776.53	0.001	0.5307
K	39	3	He	3731.768	4.2361	164473.66	0.001	0.5307
K	39	3	He	3746.449	4.2507	162827.39	0.001	0.5307
Ca	44	3	He	219936.223	11.5818	435517.56	0.0001	0.004441
Ca	44	3	He	215090.385	11.3267	439774.66	0.0001	0.004441
Ca	44	3	He	219207.105	11.5434	442180.78	0.0001	0.004441
Ti	47	3	He	-0.985	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
Ti	47	3	He	-0.476	0.0003	10.00	0.0004	0.0004559
V	51	3	He	-0.09	0.0245	922.03	0.0176	0.02609
V	51	3	He	-0.16	0.0233	904.03	0.0176	0.02609
V	51	3	He	-0.127	0.0239	914.03	0.0176	0.02609
Cr	52	3	He	0.449	0.0604	2270.25	0.0217	0.05061
Cr	52	3	He	0.16	0.0541	2100.21	0.0217	0.05061
Cr	52	3	He	0.398	0.0593	2270.22	0.0217	0.05061
Mn	55	3	He	0.319	0.0136	512.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	0.204	0.0126	488.01	0.0091	0.01071
Mn	55	3	He	0.349	0.0139	532.01	0.0091	0.01071
Fe	57	3	He	-0.521	0.0082	310.01	0.0004	0.008452
Fe	57	3	He	0.763	0.0088	340.01	0.0004	0.008452
Fe	57	3	He	0.408	0.0086	330.01	0.0004	0.008452
Co	59	3	He	0.012	0.0065	244.00	0.0413	0.006013
Co	59	3	He	-0.016	0.0054	208.00	0.0413	0.006013
Co	59	3	He	-0.004	0.0058	224.00	0.0413	0.006013
Ni	60	3	He	0.298	0.0152	572.01	0.0117	0.01172
Ni	60	3	He	0.283	0.015	584.01	0.0117	0.01172
Ni	60	3	He	0.278	0.015	574.01	0.0117	0.01172
Cu	63	3	He	0.335	0.021	1318.06	0.0196	0.01443
Cu	63	3	He	0.376	0.0218	1380.07	0.0196	0.01443
Cu	63	3	He	0.319	0.0207	1304.06	0.0196	0.01443
Zn	66	3	He	1.583	0.0064	402.01	0.0023	0.002807
Zn	66	3	He	1.668	0.0066	418.01	0.0023	0.002807
Zn	66	3	He	1.625	0.0065	410.01	0.0023	0.002807
As	75	3	He	0.538	0.0023	142.00	0.0018	0.001271
As	75	3	He	0.579	0.0023	148.00	0.0018	0.001271
As	75	3	He	0.292	0.0018	114.00	0.0018	0.001271
Sr	88	3	He	2034.09	16.7136	833452.80	0.0082	0.00114
Sr	88	3	He	2058.955	16.9179	845860.53	0.0082	0.00114
Sr	88	3	He	1991.495	16.3637	832422.96	0.0082	0.00114
Mo	98	3	He	0.844	0.0164	820.05	0.0177	0.001504
Mo	98	3	He	1.09	0.0208	1040.07	0.0177	0.001504
Mo	98	3	He	1.192	0.0226	1150.08	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.008	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.059	0.0102	510.02	0.0126	0.01097
Sn	120	3	He	-0.172	0.0088	440.02	0.0126	0.01097
Sn	120	3	He	-0.153	0.009	460.02	0.0126	0.01097
Sb	121	3	He	0.126	0.0019	93.33	0.012	0.0003595
Sb	121	3	He	0.153	0.0022	110.00	0.012	0.0003595
Sb	121	3	He	0.112	0.0017	86.67	0.012	0.0003595
Ba	137	3	He	132.527	0.5174	25802.39	0.0039	0.0003633
Ba	137	3	He	129.2	0.5044	25221.33	0.0039	0.0003633
Ba	137	3	He	132.888	0.5188	26393.36	0.0039	0.0003633
Tl	205	3	He	-0.023	0.0009	170.01	0.0189	0.001334
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	-0.022	0.001	70.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	150.01	0.0252	0.001497
Pb	208	3	He	-0.012	0.0012	130.01	0.0252	0.001497
U	238	3	He	1.751	0.0431	8142.58	0.0245	0.0001141
U	238	3	He	1.697	0.0418	7832.44	0.0245	0.0001141
U	238	3	He	1.658	0.0408	7522.24	0.0245	0.0001141
Sc	45	1	No Gas			1583003.10		
Sc	45	1	No Gas			1590313.57		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1581140.45		
Ge	72	1	No Gas			770868.97		
Ge	72	1	No Gas			784404.44		
Ge	72	1	No Gas			787352.18		
Sc	45	2	H2			127521.38		
Sc	45	2	H2			130203.81		
Sc	45	2	H2			128560.58		
Ge	72	2	H2			90976.19		
Ge	72	2	H2			93601.73		
Ge	72	2	H2			92767.24		
In	115	2	H2			232308.18		
In	115	2	H2			234561.87		
In	115	2	H2			233798.69		
Sc	45	3	He			37603.70		
Sc	45	3	He			38826.40		
Sc	45	3	He			38305.96		
Ge	72	3	He			62773.25		
Ge	72	3	He			63354.98		
Ge	72	3	He			63064.50		
In	115	3	He			49870.17		
In	115	3	He			50000.91		
In	115	3	He			50873.36		
Tb	159	3	He			188898.06		
Tb	159	3	He			187449.70		
Tb	159	3	He			184304.53		
Bi	209	3	He			131457.43		
Bi	209	3	He			133114.44		
Bi	209	3	He			134717.43		

Quantitation Report

Data File Name	350SMPL.d
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Acq Time	7/10/2025 10:53:14 PM
Sample Name	180-192619-M-1-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

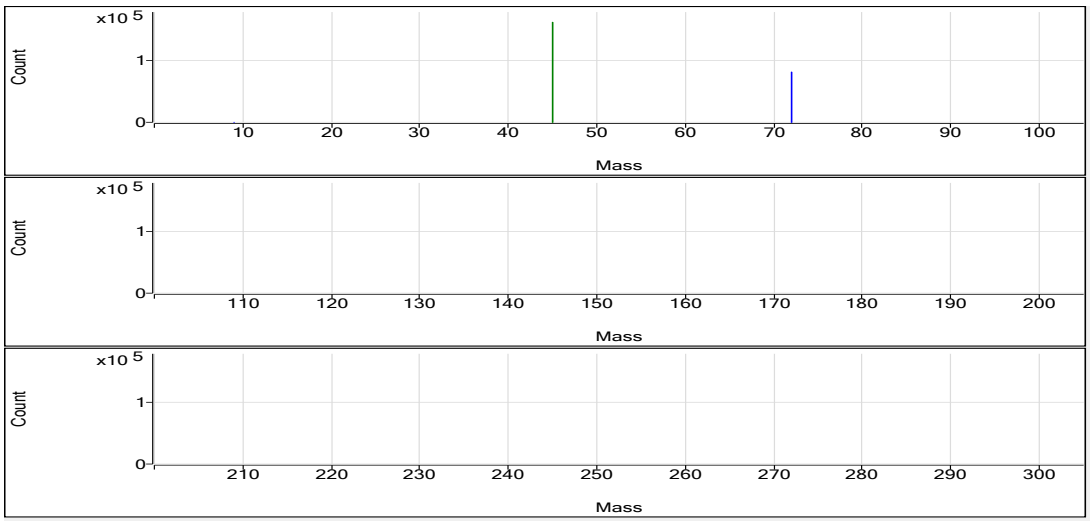
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.029	ppb	N/A	26.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	2.397	ppb	13.1	95.56	0.0010	Pulse	1.5000	3
Na	23	45	He	417276.919	ppb	2.1	39581991.91	1,040.9064	Analog	0.1000	3
Mg	24	45	He	14017.549	ppb	1.6	646470.52	16.9997	Pulse	0.1000	3
Al	27	45	He	34.418	ppb	14.1	696.70	0.0183	Pulse	0.1000	3
K	39	45	He	9454.444	ppb	1.8	377179.83	9.9185	Pulse	0.5000	3
Ca	44	45	He	65938.208	ppb	2.3	132155.67	3.4754	Pulse	0.5000	3
Ti	47	45	He	0.209	ppb	366.3	20.67	0.0005	Pulse	0.5000	3
V	51	45	He	2.899	ppb	7.6	2930.95	0.0771	Pulse	0.5000	3
Cr	52	45	He	2.256	ppb	12.4	3790.56	0.0996	Pulse	0.1000	3
Mn	55	45	He	19.243	ppb	1.9	7078.23	0.1861	Pulse	0.5000	3
Fe	57	45	He	30.514	ppb	35.7	783.39	0.0206	Pulse	0.1000	3
Co	59	45	He	0.022	ppb	20.4	264.00	0.0069	Pulse	0.5000	3
Ni	60	45	He	0.652	ppb	13.9	736.69	0.0194	Pulse	0.5000	3
Cu	63	72	He	7.703	ppb	0.8	10623.52	0.1651	Pulse	0.5000	3
Zn	66	72	He	108.065	ppb	0.8	15982.58	0.2484	Pulse	0.5000	3
As	75	72	He	4.410	ppb	7.2	604.02	0.0094	Pulse	0.5000	3
Sr	88	115	He	385.664	ppb	1.2	161625.18	3.1698	Pulse	0.1000	3
Mo	98	115	He	4.563	ppb	6.3	4197.36	0.0823	Pulse	0.1000	3
Ag	107	115	He	0.037	ppb	42.9	136.67	0.0027	Pulse	0.1000	3
Cd	111	115	He	0.036	ppb	28.0	10.00	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.028	ppb	239.6	576.69	0.0113	Pulse	0.1000	3
Sb	121	115	He	2.280	ppb	6.4	1418.97	0.0278	Pulse	0.3000	3
Ba	137	115	He	76.372	ppb	1.2	15214.64	0.2983	Pulse	0.1000	3
Tl	205	159	He	-0.044	ppb	N/A	93.34	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.226	ppb	6.7	1340.07	0.0072	Pulse	0.1000	3
U	238	159	He	1.065	ppb	2.2	4897.66	0.0263	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1614945.18	1.5	94.5	Analog	0.1000	3
No Gas	Ge	72	812141.32	0.5	94.0	Pulse	0.1000	3
H2	Sc	45	130576.36	1.0	97.7	Pulse	0.1000	3
H2	Ge	72	96361.05	1.6	97.3	Pulse	0.1000	3
H2	In	115	238710.70	0.8	93.0	Pulse	0.1000	3
He	Sc	45	38034.74	1.6	96.4	Pulse	0.1000	3
He	Ge	72	64339.19	0.3	94.5	Pulse	0.1000	3
He	In	115	50993.51	1.4	92.0	Pulse	0.1000	3
He	Tb	159	186489.10	0.7	91.1	Pulse	0.1000	3
He	Bi	209	138809.28	1.1	91.8	Pulse	0.1000	3

No Gas



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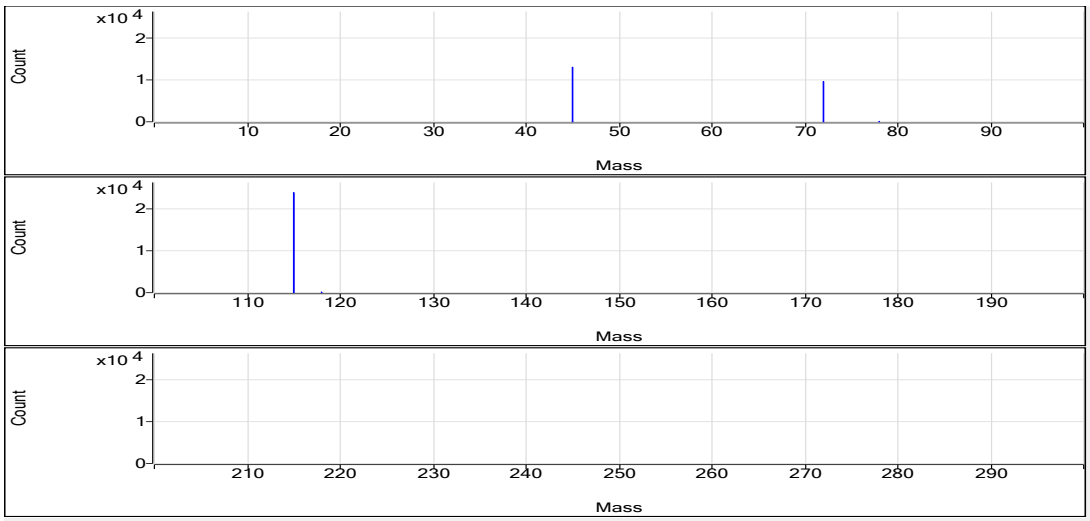
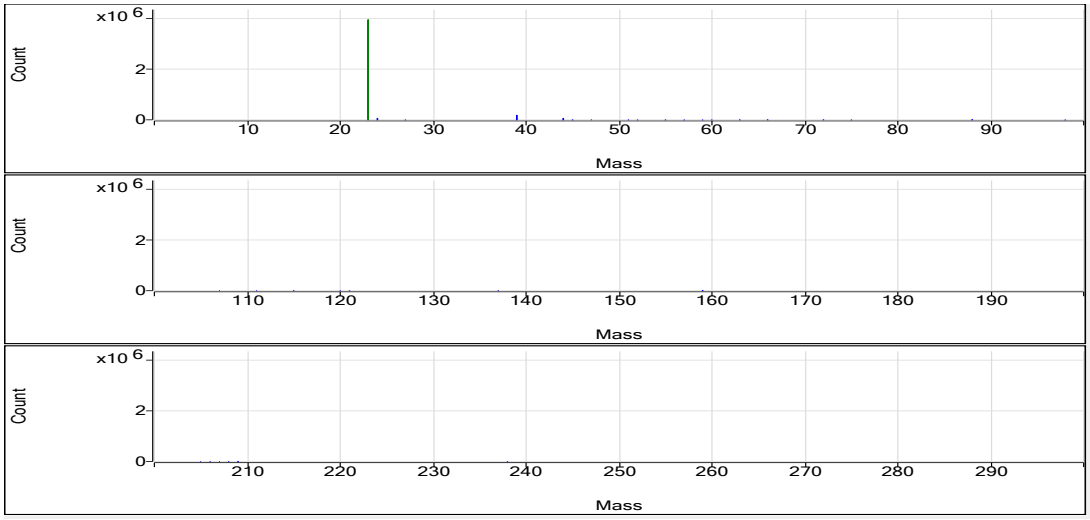


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.048	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.009	0	38.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Se	78	2	H2	2.69	0.0011	104.67	0.0004	6.3E-05
Se	78	2	H2	2.436	0.001	98.00	0.0004	6.3E-05
Se	78	2	H2	2.065	0.0009	84.00	0.0004	6.3E-05
Na	23	3	He	407828.432	1017.3539	39286086.91	0.0025	0.7502
Na	23	3	He	418787.751	1044.6724	39775809.41	0.0025	0.7502
Na	23	3	He	425214.574	1060.6927	39684079.41	0.0025	0.7502
Mg	24	3	He	13763.521	16.6921	644580.69	0.0012	0.02618
Mg	24	3	He	14075.274	17.0696	649922.65	0.0012	0.02618
Mg	24	3	He	14213.851	17.2374	644908.23	0.0012	0.02618
Al	27	3	He	33.939	0.0181	700.03	0.0004	0.005329
Al	27	3	He	39.499	0.0202	770.05	0.0004	0.005329
Al	27	3	He	29.814	0.0166	620.03	0.0004	0.005329
K	39	3	He	9283.739	9.749	376465.81	0.001	0.5307
K	39	3	He	9460.055	9.924	377857.13	0.001	0.5307
K	39	3	He	9619.537	10.0824	377216.56	0.001	0.5307
Ca	44	3	He	64189.254	3.3833	130650.55	0.0001	0.004441
Ca	44	3	He	66525.804	3.5063	133503.05	0.0001	0.004441
Ca	44	3	He	67099.567	3.5365	132313.42	0.0001	0.004441
Ti	47	3	He	1.038	0.0009	34.00	0.0004	0.0004559
Ti	47	3	He	-0.472	0.0003	10.00	0.0004	0.0004559
Ti	47	3	He	0.062	0.0005	18.00	0.0004	0.0004559
V	51	3	He	2.66	0.0729	2814.26	0.0176	0.02609
V	51	3	He	3.092	0.0805	3064.31	0.0176	0.02609
V	51	3	He	2.945	0.0779	2914.28	0.0176	0.02609
Cr	52	3	He	2.547	0.1059	4090.64	0.0217	0.05061
Cr	52	3	He	1.987	0.0938	3570.51	0.0217	0.05061
Cr	52	3	He	2.236	0.0992	3710.54	0.0217	0.05061
Mn	55	3	He	19.44	0.1879	7255.64	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	18.822	0.1823	6939.51	0.0091	0.01071
Mn	55	3	He	19.468	0.1882	7039.54	0.0091	0.01071
Fe	57	3	He	24.23	0.0181	700.04	0.0004	0.008452
Fe	57	3	He	24.217	0.0181	690.04	0.0004	0.008452
Fe	57	3	He	43.094	0.0257	960.08	0.0004	0.008452
Co	59	3	He	0.027	0.0071	276.00	0.0413	0.006013
Co	59	3	He	0.018	0.0068	258.00	0.0413	0.006013
Co	59	3	He	0.021	0.0069	258.00	0.0413	0.006013
Ni	60	3	He	0.621	0.019	734.02	0.0117	0.01172
Ni	60	3	He	0.581	0.0185	706.02	0.0117	0.01172
Ni	60	3	He	0.755	0.0206	770.02	0.0117	0.01172
Cu	63	3	He	7.673	0.1645	10615.52	0.0196	0.01443
Cu	63	3	He	7.772	0.1665	10683.55	0.0196	0.01443
Cu	63	3	He	7.664	0.1644	10571.48	0.0196	0.01443
Zn	66	3	He	108.888	0.2503	16148.08	0.0023	0.002807
Zn	66	3	He	108.196	0.2487	15961.93	0.0023	0.002807
Zn	66	3	He	107.109	0.2462	15837.74	0.0023	0.002807
As	75	3	He	4.042	0.0087	562.01	0.0018	0.001271
As	75	3	He	4.592	0.0097	624.02	0.0018	0.001271
As	75	3	He	4.597	0.0097	626.02	0.0018	0.001271
Sr	88	3	He	387.024	3.181	160635.73	0.0082	0.00114
Sr	88	3	He	389.393	3.2005	162262.35	0.0082	0.00114
Sr	88	3	He	380.574	3.128	161977.47	0.0082	0.00114
Mo	98	3	He	4.321	0.078	3940.62	0.0177	0.001504
Mo	98	3	He	4.883	0.088	4460.76	0.0177	0.001504
Mo	98	3	He	4.484	0.0809	4190.71	0.0177	0.001504
Ag	107	3	He	0.029	0.0024	120.00	0.0368	0.001325
Ag	107	3	He	0.055	0.0034	170.01	0.0368	0.001325
Ag	107	3	He	0.027	0.0023	120.01	0.0368	0.001325
Cd	111	3	He	0.046	0.0002	12.00	0.0041	4.798E-05
Cd	111	3	He	0.036	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	0.104	0.0123	620.03	0.0126	0.01097
Sn	120	3	He	-0.009	0.0108	550.02	0.0126	0.01097
Sn	120	3	He	-0.012	0.0108	560.03	0.0126	0.01097
Sb	121	3	He	2.118	0.0259	1306.74	0.012	0.0003595
Sb	121	3	He	2.399	0.0293	1483.42	0.012	0.0003595
Sb	121	3	He	2.322	0.0283	1466.75	0.012	0.0003595
Ba	137	3	He	76.181	0.2976	15027.80	0.0039	0.0003633
Ba	137	3	He	75.575	0.2952	14967.75	0.0039	0.0003633
Ba	137	3	He	77.361	0.3022	15648.37	0.0039	0.0003633
Tl	205	3	He	-0.053	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.017	0.001	190.01	0.0189	0.001334
Tl	205	3	He	-0.062	0.0002	30.00	0.0189	0.001334
Pb	208	3	He	0.23	0.0073	660.04	0.0252	0.001497
Pb	208	3	He	0.209	0.0068	720.05	0.0252	0.001497
Pb	208	3	He	0.239	0.0075	730.04	0.0252	0.001497
U	238	3	He	1.059	0.0261	4841.00	0.0245	0.0001141
U	238	3	He	1.091	0.0269	5011.00	0.0245	0.0001141
U	238	3	He	1.045	0.0258	4840.98	0.0245	0.0001141
Sc	45	1	No Gas			1596217.63		
Sc	45	1	No Gas			1642778.57		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1605839.35		
Ge	72	1	No Gas			811599.44		
Ge	72	1	No Gas			816592.41		
Ge	72	1	No Gas			808232.10		
Sc	45	2	H2			129709.64		
Sc	45	2	H2			132047.72		
Sc	45	2	H2			129971.72		
Ge	72	2	H2			94617.94		
Ge	72	2	H2			97233.09		
Ge	72	2	H2			97232.13		
In	115	2	H2			238349.10		
In	115	2	H2			240847.28		
In	115	2	H2			236935.72		
Sc	45	3	He			38615.95		
Sc	45	3	He			38074.91		
Sc	45	3	He			37413.36		
Ge	72	3	He			64519.53		
Ge	72	3	He			64179.07		
Ge	72	3	He			64318.96		
In	115	3	He			50502.65		
In	115	3	He			50703.29		
In	115	3	He			51786.71		
Tb	159	3	He			185365.84		
Tb	159	3	He			186236.77		
Tb	159	3	He			187864.70		
Bi	209	3	He			137233.42		
Bi	209	3	He			140358.93		
Bi	209	3	He			138835.49		

Quantitation Report

Data File Name	351SMPL.d
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Sample Name	400-278317-AD-2-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

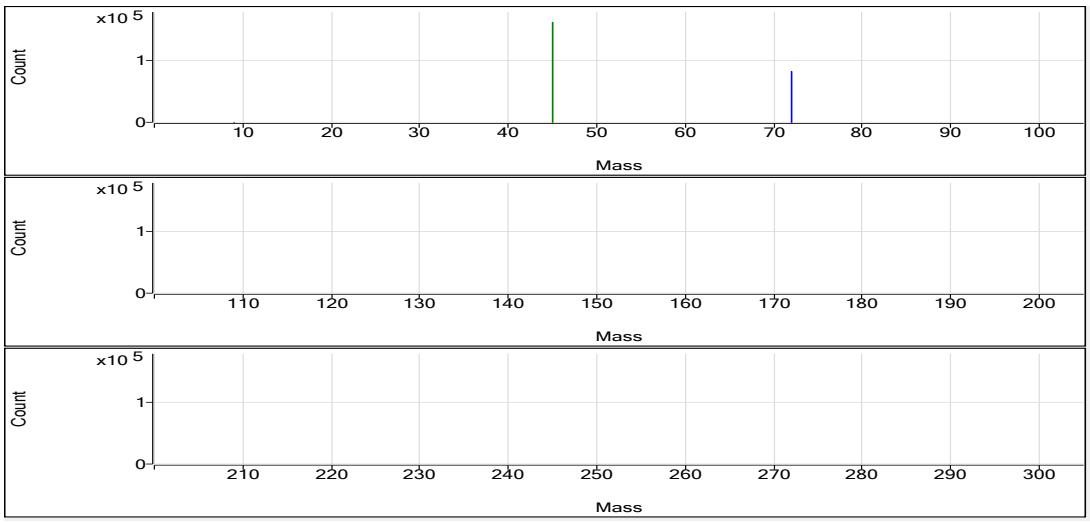
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.031	ppb	N/A	25.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.099	ppb	N/A	2.45	0.0000	Pulse	1.5000	3
Na	23	45	He	68565.572	ppb	2.7	6719403.02	171.6652	Analog	0.1000	3
Mg	24	45	He	42505.110	ppb	2.6	2015652.68	51.4946	Analog	0.1000	3
Al	27	45	He	-1.250	ppb	N/A	190.01	0.0049	Pulse	0.1000	3
K	39	45	He	2938.735	ppb	1.4	135025.03	3.4487	Pulse	0.5000	3
Ca	44	45	He	123851.093	ppb	2.7	255362.54	6.5239	Pulse	0.5000	3
Ti	47	45	He	-0.905	ppb	N/A	3.33	0.0001	Pulse	0.5000	3
V	51	45	He	-0.329	ppb	N/A	794.69	0.0203	Pulse	0.5000	3
Cr	52	45	He	-0.895	ppb	N/A	1220.08	0.0312	Pulse	0.1000	3
Mn	55	45	He	366.252	ppb	2.8	131082.66	3.3489	Pulse	0.5000	3
Fe	57	45	He	2566.779	ppb	2.5	40454.32	1.0335	Pulse	0.1000	3
Co	59	45	He	-0.048	ppb	N/A	157.33	0.0040	Pulse	0.5000	3
Ni	60	45	He	-0.323	ppb	N/A	310.00	0.0079	Pulse	0.5000	3
Cu	63	72	He	-0.435	ppb	N/A	390.01	0.0059	Pulse	0.5000	3
Zn	66	72	He	0.625	ppb	12.8	278.67	0.0042	Pulse	0.5000	3
As	75	72	He	2.490	ppb	3.8	386.01	0.0059	Pulse	0.5000	3
Sr	88	115	He	713.427	ppb	1.5	300634.07	5.8628	Pulse	0.1000	3
Mo	98	115	He	0.297	ppb	26.8	346.68	0.0068	Pulse	0.1000	3
Ag	107	115	He	-0.025	ppb	N/A	20.00	0.0004	Pulse	0.1000	3
Cd	111	115	He	-0.008	ppb	N/A	0.67	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.139	ppb	N/A	473.36	0.0092	Pulse	0.1000	3
Sb	121	115	He	0.031	ppb	59.3	37.78	0.0007	Pulse	0.3000	3
Ba	137	115	He	245.600	ppb	1.1	49156.48	0.9586	Pulse	0.1000	3
Tl	205	159	He	-0.057	ppb	N/A	50.00	0.0003	Pulse	0.1000	3
Pb	208	159	He	-0.015	ppb	N/A	213.34	0.0011	Pulse	0.1000	3
U	238	159	He	0.030	ppb	25.7	160.01	0.0008	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1625895.44	0.2	95.2	Analog	0.1000	3
No Gas	Ge	72	826768.19	0.8	95.7	Pulse	0.1000	3
H2	Sc	45	132642.90	1.3	99.3	Pulse	0.1000	3
H2	Ge	72	99520.14	0.2	100.5	Pulse	0.1000	3
H2	In	115	239768.62	0.8	93.4	Pulse	0.1000	3
He	Sc	45	39160.81	2.6	99.2	Pulse	0.1000	3
He	Ge	72	65942.04	1.9	96.8	Pulse	0.1000	3
He	In	115	51285.43	1.5	92.6	Pulse	0.1000	3
He	Tb	159	190224.34	0.4	92.9	Pulse	0.1000	3
He	Bi	209	139327.37	1.3	92.1	Pulse	0.1000	3

No Gas



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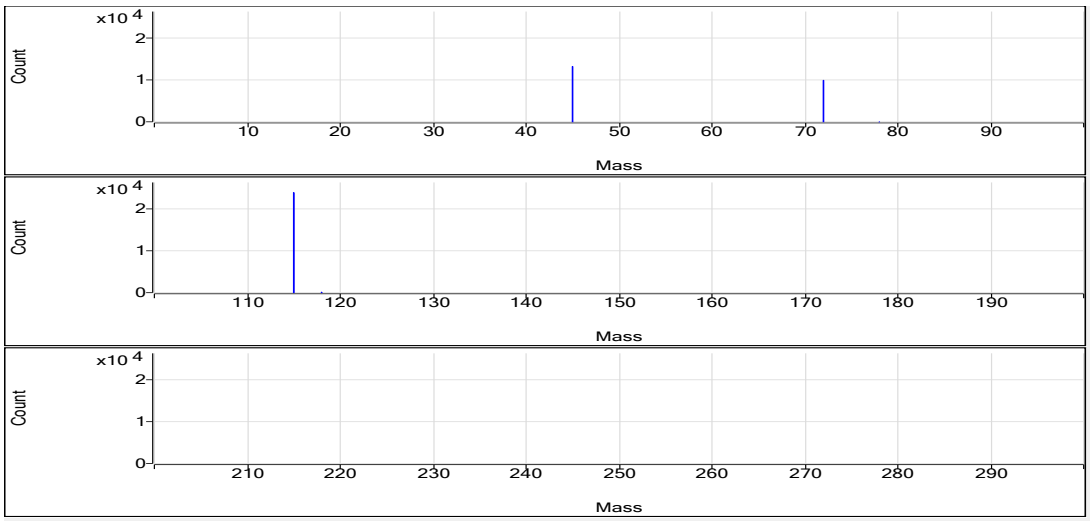
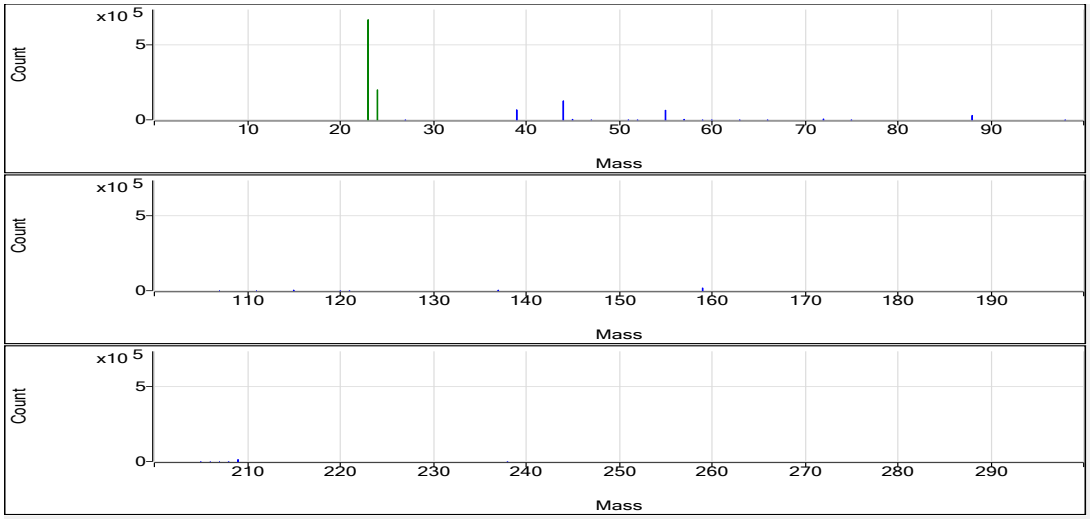


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.019	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.111	0	2.00	0.0004	6.3E-05
Se	78	2	H2	-0.093	0	2.67	0.0004	6.3E-05
Na	23	3	He	66415.898	166.3067	6708854.90	0.0025	0.7502
Na	23	3	He	69783.303	174.7007	6748029.27	0.0025	0.7502
Na	23	3	He	69497.515	173.9883	6701324.90	0.0025	0.7502
Mg	24	3	He	41218.846	49.937	2014473.56	0.0012	0.02618
Mg	24	3	He	43206.197	52.3435	2021831.38	0.0012	0.02618
Mg	24	3	He	43090.286	52.2031	2010653.10	0.0012	0.02618
Al	27	3	He	-2.299	0.0045	180.01	0.0004	0.005329
Al	27	3	He	-1.088	0.0049	190.01	0.0004	0.005329
Al	27	3	He	-0.362	0.0052	200.01	0.0004	0.005329
K	39	3	He	2890.045	3.4003	137170.55	0.001	0.5307
K	39	3	He	2968.451	3.4782	134349.45	0.001	0.5307
K	39	3	He	2957.71	3.4675	133555.09	0.001	0.5307
Ca	44	3	He	120023.749	6.3224	255048.52	0.0001	0.004441
Ca	44	3	He	125810.384	6.627	255977.45	0.0001	0.004441
Ca	44	3	He	125719.147	6.6222	255061.64	0.0001	0.004441
Ti	47	3	He	-0.993	0	2.00	0.0004	0.0004559
Ti	47	3	He	-0.861	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.861	0.0001	4.00	0.0004	0.0004559
V	51	3	He	-0.359	0.0198	798.03	0.0176	0.02609
V	51	3	He	-0.227	0.0221	854.03	0.0176	0.02609
V	51	3	He	-0.403	0.019	732.02	0.0176	0.02609
Cr	52	3	He	-0.949	0.03	1210.07	0.0217	0.05061
Cr	52	3	He	-0.911	0.0308	1190.08	0.0217	0.05061
Cr	52	3	He	-0.824	0.0327	1260.08	0.0217	0.05061
Mn	55	3	He	354.34	3.2404	130716.96	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	372.092	3.4022	131412.69	0.0091	0.01071
Mn	55	3	He	372.323	3.4043	131118.33	0.0091	0.01071
Fe	57	3	He	2494.213	1.0045	40521.16	0.0004	0.008452
Fe	57	3	He	2614.289	1.0524	40651.61	0.0004	0.008452
Fe	57	3	He	2591.835	1.0435	40190.18	0.0004	0.008452
Co	59	3	He	-0.059	0.0036	144.00	0.0413	0.006013
Co	59	3	He	-0.067	0.0033	126.00	0.0413	0.006013
Co	59	3	He	-0.019	0.0052	202.00	0.0413	0.006013
Ni	60	3	He	-0.373	0.0073	296.00	0.0117	0.01172
Ni	60	3	He	-0.283	0.0084	324.01	0.0117	0.01172
Ni	60	3	He	-0.312	0.008	310.00	0.0117	0.01172
Cu	63	3	He	-0.421	0.0062	402.01	0.0196	0.01443
Cu	63	3	He	-0.448	0.0057	372.01	0.0196	0.01443
Cu	63	3	He	-0.437	0.0059	396.01	0.0196	0.01443
Zn	66	3	He	0.716	0.0044	288.00	0.0023	0.002807
Zn	66	3	He	0.591	0.0042	272.00	0.0023	0.002807
Zn	66	3	He	0.567	0.0041	276.00	0.0023	0.002807
As	75	3	He	2.405	0.0057	370.01	0.0018	0.001271
As	75	3	He	2.593	0.006	396.01	0.0018	0.001271
As	75	3	He	2.471	0.0058	392.01	0.0018	0.001271
Sr	88	3	He	714.65	5.8729	302288.63	0.0082	0.00114
Sr	88	3	He	701.978	5.7687	299536.77	0.0082	0.00114
Sr	88	3	He	723.652	5.9468	300076.81	0.0082	0.00114
Mo	98	3	He	0.321	0.0072	370.02	0.0177	0.001504
Mo	98	3	He	0.209	0.0052	270.01	0.0177	0.001504
Mo	98	3	He	0.363	0.0079	400.02	0.0177	0.001504
Ag	107	3	He	-0.036	0	0.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	0.04	0.0115	590.03	0.0126	0.01097
Sn	120	3	He	-0.152	0.0091	470.02	0.0126	0.01097
Sn	120	3	He	-0.304	0.0071	360.02	0.0126	0.01097
Sb	121	3	He	0.051	0.001	50.00	0.012	0.0003595
Sb	121	3	He	0.029	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.014	0.0005	26.67	0.012	0.0003595
Ba	137	3	He	244.499	0.9543	49119.78	0.0039	0.0003633
Ba	137	3	He	243.507	0.9504	49350.16	0.0039	0.0003633
Ba	137	3	He	248.794	0.9711	48999.49	0.0039	0.0003633
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Tl	205	3	He	-0.057	0.0003	50.00	0.0189	0.001334
Pb	208	3	He	-0.015	0.0011	110.00	0.0252	0.001497
Pb	208	3	He	-0.007	0.0013	150.01	0.0252	0.001497
Pb	208	3	He	-0.022	0.0009	120.00	0.0252	0.001497
U	238	3	He	0.021	0.0006	120.00	0.0245	0.0001141
U	238	3	He	0.036	0.001	190.01	0.0245	0.0001141
U	238	3	He	0.032	0.0009	170.01	0.0245	0.0001141
Sc	45	1	No Gas			1624304.66		
Sc	45	1	No Gas			1623009.51		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1630372.16		
Ge	72	1	No Gas			827742.57		
Ge	72	1	No Gas			833191.86		
Ge	72	1	No Gas			819370.14		
Sc	45	2	H2			134557.48		
Sc	45	2	H2			131544.52		
Sc	45	2	H2			131826.71		
Ge	72	2	H2			99718.15		
Ge	72	2	H2			99294.90		
Ge	72	2	H2			99547.37		
In	115	2	H2			241706.54		
In	115	2	H2			239799.27		
In	115	2	H2			237800.04		
Sc	45	3	He			40340.26		
Sc	45	3	He			38626.23		
Sc	45	3	He			38515.95		
Ge	72	3	He			64931.06		
Ge	72	3	He			65523.92		
Ge	72	3	He			67371.13		
In	115	3	He			51476.27		
In	115	3	He			51927.41		
In	115	3	He			50462.56		
Tb	159	3	He			189475.13		
Tb	159	3	He			190963.45		
Tb	159	3	He			190234.43		
Bi	209	3	He			140027.18		
Bi	209	3	He			140612.36		
Bi	209	3	He			137342.58		

Quantitation Report

Data File Name	352SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 10:57:38 PM
Sample Name	400-278719-B-10-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

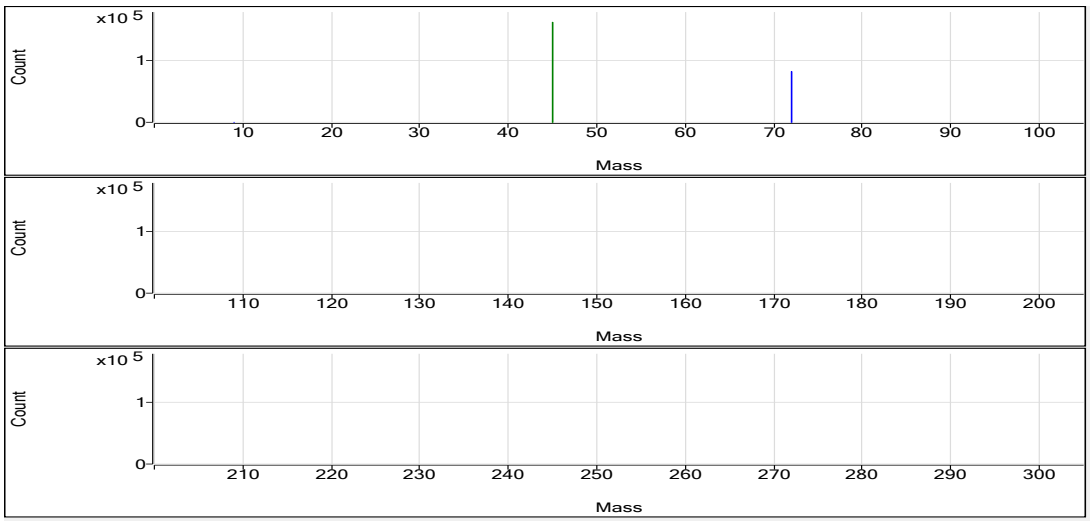
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.035	ppb	N/A	23.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.309	ppb	32.0	18.22	0.0002	Pulse	1.5000	3
Na	23	45	He	54755.272	ppb	1.4	5367105.13	137.2400	Analog	0.1000	3
Mg	24	45	He	33867.957	ppb	0.8	1604887.42	41.0360	Analog	0.1000	3
Al	27	45	He	4.646	ppb	119.3	276.68	0.0071	Pulse	0.1000	3
K	39	45	He	1919.289	ppb	3.6	95290.75	2.4364	Pulse	0.5000	3
Ca	44	45	He	91041.509	ppb	0.8	187598.21	4.7968	Pulse	0.5000	3
Ti	47	45	He	-0.866	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	0.593	ppb	14.2	1428.07	0.0365	Pulse	0.5000	3
Cr	52	45	He	-0.708	ppb	N/A	1376.77	0.0352	Pulse	0.1000	3
Mn	55	45	He	259.936	ppb	1.4	93072.65	2.3799	Pulse	0.5000	3
Fe	57	45	He	6.381	ppb	46.5	430.02	0.0110	Pulse	0.1000	3
Co	59	45	He	4.243	ppb	2.7	7086.24	0.1812	Pulse	0.5000	3
Ni	60	45	He	68.259	ppb	0.4	31812.99	0.8134	Pulse	0.5000	3
Cu	63	72	He	0.184	ppb	22.1	1204.05	0.0180	Pulse	0.5000	3
Zn	66	72	He	2.486	ppb	3.4	564.68	0.0085	Pulse	0.5000	3
As	75	72	He	4.603	ppb	3.3	650.69	0.0097	Pulse	0.5000	3
Sr	88	115	He	340.266	ppb	1.0	144272.01	2.7968	Pulse	0.1000	3
Mo	98	115	He	9.964	ppb	6.3	9179.60	0.1780	Pulse	0.1000	3
Ag	107	115	He	-0.017	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	0.007	ppb	1.5	4.00	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.070	ppb	N/A	520.03	0.0101	Pulse	0.1000	3
Sb	121	115	He	0.369	ppb	10.0	247.78	0.0048	Pulse	0.3000	3
Ba	137	115	He	561.884	ppb	2.2	113098.39	2.1926	Pulse	0.1000	3
Tl	205	159	He	-0.046	ppb	N/A	90.00	0.0005	Pulse	0.1000	3
Pb	208	159	He	0.044	ppb	25.2	493.35	0.0026	Pulse	0.1000	3
U	238	159	He	0.665	ppb	5.2	3123.78	0.0164	Pulse	0.1000	3

ISTD Table:

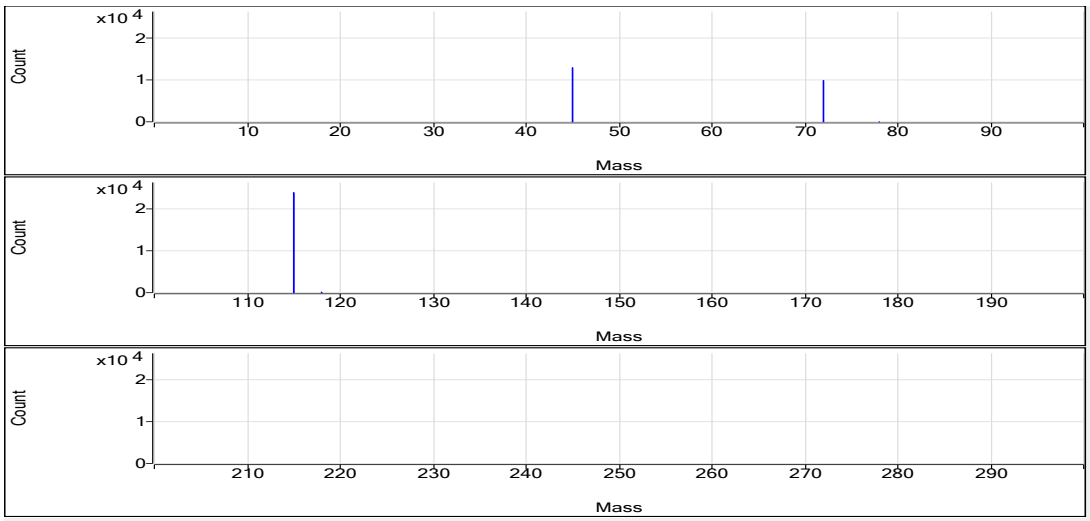
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1625040.70	0.4	95.1	Analog	0.1000	3
No Gas	Ge	72	825454.36	1.5	95.6	Pulse	0.1000	3
H2	Sc	45	130170.33	1.4	97.4	Pulse	0.1000	3
H2	Ge	72	99530.38	1.9	100.5	Pulse	0.1000	3
H2	In	115	240780.73	0.8	93.8	Pulse	0.1000	3
He	Sc	45	39110.82	0.9	99.1	Pulse	0.1000	3
He	Ge	72	66782.76	0.9	98.1	Pulse	0.1000	3
He	In	115	51585.92	0.6	93.1	Pulse	0.1000	3
He	Tb	159	190241.18	1.4	92.9	Pulse	0.1000	3
He	Bi	209	139653.58	1.3	92.3	Pulse	0.1000	3

No Gas

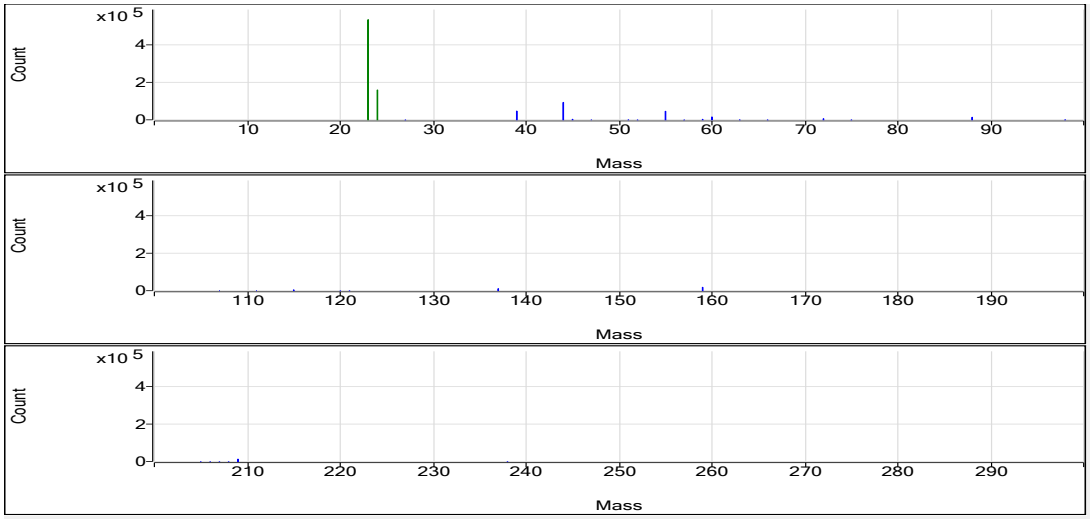


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.037	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Se	78	2	H2	0.414	0.0002	22.67	0.0004	6.3E-05
Se	78	2	H2	0.218	0.0001	14.67	0.0004	6.3E-05
Se	78	2	H2	0.295	0.0002	17.33	0.0004	6.3E-05
Na	23	3	He	54590.98	136.8304	5359331.80	0.0025	0.7502
Na	23	3	He	54096.101	135.5968	5349061.80	0.0025	0.7502
Na	23	3	He	55578.736	139.2926	5392921.79	0.0025	0.7502
Mg	24	3	He	33682.934	40.812	1598511.85	0.0012	0.02618
Mg	24	3	He	33759.147	40.9043	1613603.73	0.0012	0.02618
Mg	24	3	He	34161.791	41.3918	1602546.69	0.0012	0.02618
Al	27	3	He	9.565	0.0089	350.02	0.0004	0.005329
Al	27	3	He	-1.36	0.0048	190.01	0.0004	0.005329
Al	27	3	He	5.731	0.0075	290.01	0.0004	0.005329
K	39	3	He	1998.628	2.5152	98514.74	0.001	0.5307
K	39	3	He	1871.217	2.3887	94229.77	0.001	0.5307
K	39	3	He	1888.021	2.4054	93127.74	0.001	0.5307
Ca	44	3	He	90981.919	4.7937	187757.52	0.0001	0.004441
Ca	44	3	He	90348.229	4.7603	187786.70	0.0001	0.004441
Ca	44	3	He	91794.38	4.8365	187250.42	0.0001	0.004441
Ti	47	3	He	-0.74	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.743	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-1.115	0	0.00	0.0004	0.0004559
V	51	3	He	0.552	0.0358	1402.07	0.0176	0.02609
V	51	3	He	0.537	0.0355	1402.07	0.0176	0.02609
V	51	3	He	0.69	0.0382	1480.07	0.0176	0.02609
Cr	52	3	He	-0.414	0.0416	1630.13	0.0217	0.05061
Cr	52	3	He	-1.034	0.0281	1110.07	0.0217	0.05061
Cr	52	3	He	-0.677	0.0359	1390.11	0.0217	0.05061
Mn	55	3	He	261.108	2.3906	93633.80	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	255.875	2.3429	92423.06	0.0091	0.01071
Mn	55	3	He	262.825	2.4062	93161.10	0.0091	0.01071
Fe	57	3	He	8.246	0.0117	460.03	0.0004	0.008452
Fe	57	3	He	2.957	0.0096	380.02	0.0004	0.008452
Fe	57	3	He	7.941	0.0116	450.02	0.0004	0.008452
Co	59	3	He	4.167	0.178	6973.52	0.0413	0.006013
Co	59	3	He	4.19	0.179	7061.56	0.0413	0.006013
Co	59	3	He	4.373	0.1866	7223.65	0.0413	0.006013
Ni	60	3	He	68.213	0.8129	31839.05	0.0117	0.01172
Ni	60	3	He	68.015	0.8106	31975.28	0.0117	0.01172
Ni	60	3	He	68.548	0.8168	31624.65	0.0117	0.01172
Cu	63	3	He	0.137	0.0171	1148.05	0.0196	0.01443
Cu	63	3	He	0.208	0.0185	1222.05	0.0196	0.01443
Cu	63	3	He	0.207	0.0185	1242.06	0.0196	0.01443
Zn	66	3	He	2.477	0.0084	566.01	0.0023	0.002807
Zn	66	3	He	2.574	0.0087	572.01	0.0023	0.002807
Zn	66	3	He	2.406	0.0083	556.01	0.0023	0.002807
As	75	3	He	4.427	0.0094	632.02	0.0018	0.001271
As	75	3	He	4.704	0.0099	656.02	0.0018	0.001271
As	75	3	He	4.678	0.0099	664.02	0.0018	0.001271
Sr	88	3	He	344.133	2.8286	145025.51	0.0082	0.00114
Sr	88	3	He	337.299	2.7725	143732.82	0.0082	0.00114
Sr	88	3	He	339.367	2.7894	144057.69	0.0082	0.00114
Mo	98	3	He	10.677	0.1906	9773.33	0.0177	0.001504
Mo	98	3	He	9.523	0.1702	8822.63	0.0177	0.001504
Mo	98	3	He	9.692	0.1732	8942.85	0.0177	0.001504
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.059	0.0117	600.03	0.0126	0.01097
Sn	120	3	He	-0.09	0.0098	510.03	0.0126	0.01097
Sn	120	3	He	-0.179	0.0087	450.02	0.0126	0.01097
Sb	121	3	He	0.402	0.0052	266.67	0.012	0.0003595
Sb	121	3	He	0.376	0.0049	253.34	0.012	0.0003595
Sb	121	3	He	0.329	0.0043	223.34	0.012	0.0003595
Ba	137	3	He	574.74	2.2428	114988.81	0.0039	0.0003633
Ba	137	3	He	550.12	2.1467	111291.77	0.0039	0.0003633
Ba	137	3	He	560.793	2.1883	113014.60	0.0039	0.0003633
Tl	205	3	He	-0.038	0.0006	120.01	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	0.031	0.0023	240.01	0.0252	0.001497
Pb	208	3	He	0.05	0.0027	250.01	0.0252	0.001497
Pb	208	3	He	0.05	0.0028	240.01	0.0252	0.001497
U	238	3	He	0.626	0.0155	2990.41	0.0245	0.0001141
U	238	3	He	0.692	0.0171	3240.48	0.0245	0.0001141
U	238	3	He	0.676	0.0167	3140.44	0.0245	0.0001141
Sc	45	1	No Gas			1618286.69		
Sc	45	1	No Gas			1624435.91		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1632399.51		
Ge	72	1	No Gas			820879.36		
Ge	72	1	No Gas			816373.27		
Ge	72	1	No Gas			839110.46		
Sc	45	2	H2			131898.44		
Sc	45	2	H2			130454.86		
Sc	45	2	H2			128157.69		
Ge	72	2	H2			101459.19		
Ge	72	2	H2			99526.59		
Ge	72	2	H2			97605.36		
In	115	2	H2			240724.84		
In	115	2	H2			242834.10		
In	115	2	H2			238783.26		
Sc	45	3	He			39167.69		
Sc	45	3	He			39448.28		
Sc	45	3	He			38716.49		
Ge	72	3	He			67090.08		
Ge	72	3	He			66067.07		
Ge	72	3	He			67191.13		
In	115	3	He			51275.17		
In	115	3	He			51846.58		
In	115	3	He			51646.93		
Tb	159	3	He			193261.66		
Tb	159	3	He			189545.00		
Tb	159	3	He			187916.89		
Bi	209	3	He			139925.17		
Bi	209	3	He			137704.90		
Bi	209	3	He			141330.66		

Quantitation Report

Data File Name	353SMPL.d
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Acq Time	7/10/2025 10:59:50 PM
Sample Name	680-265283-I-1-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

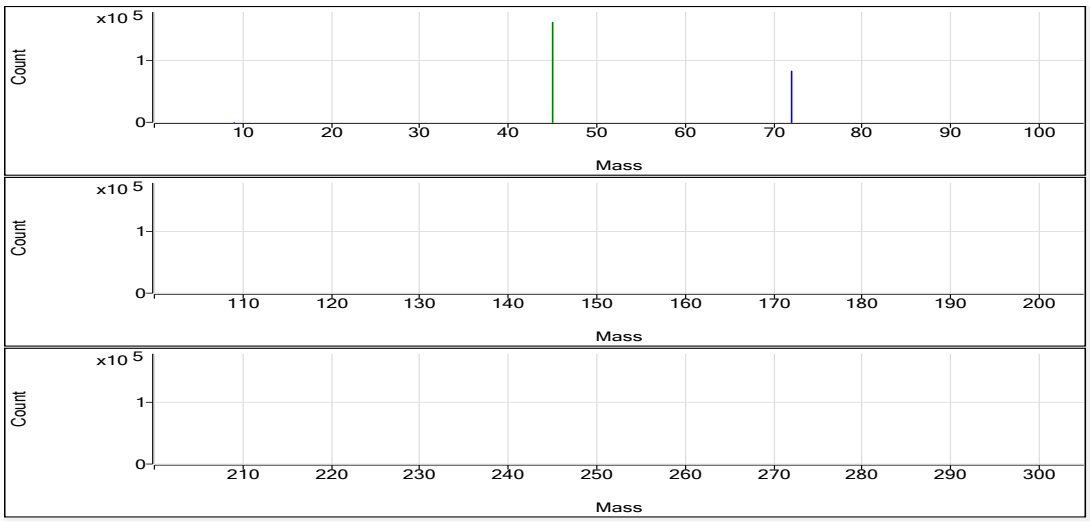
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.013	ppb	N/A	35.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.029	ppb	N/A	5.11	0.0001	Pulse	1.5000	3
Na	23	45	He	91272.660	ppb	0.3	8773565.70	228.2677	Analog	0.1000	3
Mg	24	45	He	11188.178	ppb	1.2	521686.83	13.5737	Pulse	0.1000	3
Al	27	45	He	2417.245	ppb	0.4	35241.25	0.9169	Pulse	0.1000	3
K	39	45	He	2970.217	ppb	3.4	133738.33	3.4799	Pulse	0.5000	3
Ca	44	45	He	34947.618	ppb	0.5	70876.60	1.8441	Pulse	0.5000	3
Ti	47	45	He	3.258	ppb	39.1	68.67	0.0018	Pulse	0.5000	3
V	51	45	He	1.281	ppb	13.1	1868.79	0.0486	Pulse	0.5000	3
Cr	52	45	He	3.734	ppb	10.9	5064.31	0.1317	Pulse	0.1000	3
Mn	55	45	He	143.175	ppb	0.6	50568.44	1.3157	Pulse	0.5000	3
Fe	57	45	He	6193.097	ppb	1.7	95382.35	2.4816	Pulse	0.1000	3
Co	59	45	He	2.399	ppb	1.9	4037.86	0.1051	Pulse	0.5000	3
Ni	60	45	He	11.691	ppb	2.3	5727.70	0.1490	Pulse	0.5000	3
Cu	63	72	He	94.918	ppb	0.3	126756.35	1.8712	Pulse	0.5000	3
Zn	66	72	He	105.387	ppb	1.5	16415.68	0.2423	Pulse	0.5000	3
As	75	72	He	1.122	ppb	15.7	226.00	0.0033	Pulse	0.5000	3
Sr	88	115	He	233.638	ppb	0.9	99536.91	1.9208	Pulse	0.1000	3
Mo	98	115	He	9.259	ppb	3.9	8572.61	0.1655	Pulse	0.1000	3
Ag	107	115	He	-0.011	ppb	N/A	46.67	0.0009	Pulse	0.1000	3
Cd	111	115	He	0.182	ppb	31.7	41.33	0.0008	Pulse	0.5000	3
Sn	120	115	He	0.361	ppb	20.9	803.38	0.0155	Pulse	0.1000	3
Sb	121	115	He	0.929	ppb	6.5	598.91	0.0116	Pulse	0.3000	3
Ba	137	115	He	58.735	ppb	3.1	11891.66	0.2295	Pulse	0.1000	3
Tl	205	159	He	-0.052	ppb	N/A	66.67	0.0004	Pulse	0.1000	3
Pb	208	159	He	14.973	ppb	1.3	71420.86	0.3782	Pulse	0.1000	3
U	238	159	He	0.092	ppb	36.4	446.69	0.0024	Pulse	0.1000	3

ISTD Table:

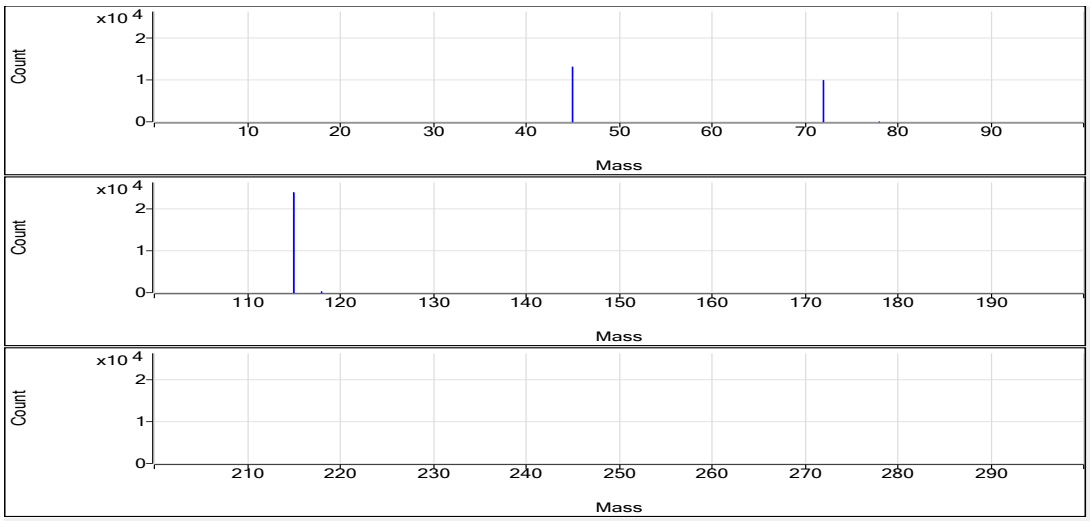
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1628064.56	1.9	95.3	Analog	0.1000	3
No Gas	Ge	72	834221.86	1.3	96.6	Pulse	0.1000	3
H2	Sc	45	131244.50	1.4	98.2	Pulse	0.1000	3
H2	Ge	72	99098.24	1.8	100.0	Pulse	0.1000	3
H2	In	115	239267.21	1.0	93.2	Pulse	0.1000	3
He	Sc	45	38435.70	0.7	97.4	Pulse	0.1000	3
He	Ge	72	67739.73	0.4	99.5	Pulse	0.1000	3
He	In	115	51824.86	2.1	93.5	Pulse	0.1000	3
He	Tb	159	188868.00	1.0	92.2	Pulse	0.1000	3
He	Bi	209	140326.27	0.2	92.8	Pulse	0.1000	3

No Gas

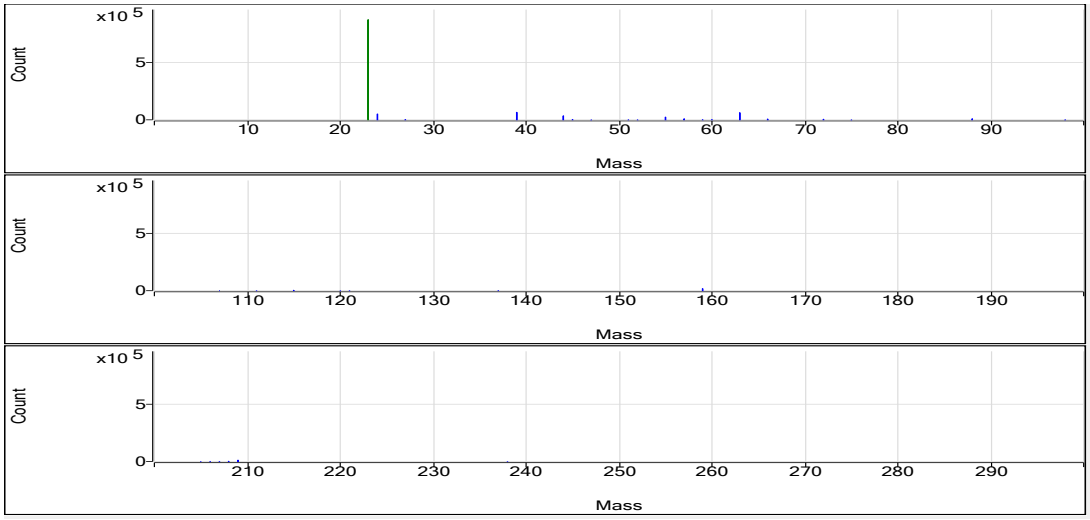


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.015	0	34.00	0.0003	2.616E-05
Be	9	1	No Gas	0.004	0	46.00	0.0003	2.616E-05
Se	78	2	H2	-0.094	0	2.67	0.0004	6.3E-05
Se	78	2	H2	-0.056	0	4.00	0.0004	6.3E-05
Se	78	2	H2	0.062	0.0001	8.67	0.0004	6.3E-05
Na	23	3	He	91304.968	228.3483	8721791.75	0.0025	0.7502
Na	23	3	He	91490.655	228.8111	8789891.74	0.0025	0.7502
Na	23	3	He	91022.358	227.6438	8809013.62	0.0025	0.7502
Mg	24	3	He	11328.44	13.7435	524934.99	0.0012	0.02618
Mg	24	3	He	11172.028	13.5541	520687.80	0.0012	0.02618
Mg	24	3	He	11064.067	13.4234	519437.69	0.0012	0.02618
Al	27	3	He	2406.624	0.9129	34867.19	0.0004	0.005329
Al	27	3	He	2421.767	0.9186	35287.73	0.0004	0.005329
Al	27	3	He	2423.343	0.9192	35568.83	0.0004	0.005329
K	39	3	He	3081.198	3.5901	137126.02	0.001	0.5307
K	39	3	He	2942.176	3.4521	132614.20	0.001	0.5307
K	39	3	He	2887.277	3.3976	131474.77	0.001	0.5307
Ca	44	3	He	35065.995	1.8503	70672.35	0.0001	0.004441
Ca	44	3	He	35014.411	1.8476	70975.77	0.0001	0.004441
Ca	44	3	He	34762.447	1.8343	70981.68	0.0001	0.004441
Ti	47	3	He	3.879	0.002	78.00	0.0004	0.0004559
Ti	47	3	He	4.105	0.0021	82.00	0.0004	0.0004559
Ti	47	3	He	1.792	0.0012	46.00	0.0004	0.0004559
V	51	3	He	1.467	0.0519	1982.13	0.0176	0.02609
V	51	3	He	1.24	0.0479	1840.12	0.0176	0.02609
V	51	3	He	1.138	0.0461	1784.11	0.0176	0.02609
Cr	52	3	He	3.733	0.1317	5030.98	0.0217	0.05061
Cr	52	3	He	3.327	0.1229	4720.85	0.0217	0.05061
Cr	52	3	He	4.143	0.1406	5441.10	0.0217	0.05061
Mn	55	3	He	144.195	1.325	50607.88	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	142.473	1.3093	50296.99	0.0091	0.01071
Mn	55	3	He	142.858	1.3128	50800.46	0.0091	0.01071
Fe	57	3	He	6249.861	2.5043	95650.33	0.0004	0.008452
Fe	57	3	He	6069.662	2.4323	93437.78	0.0004	0.008452
Fe	57	3	He	6259.768	2.5082	97058.93	0.0004	0.008452
Co	59	3	He	2.418	0.1058	4042.52	0.0413	0.006013
Co	59	3	He	2.348	0.1029	3954.50	0.0413	0.006013
Co	59	3	He	2.431	0.1064	4116.55	0.0413	0.006013
Ni	60	3	He	11.996	0.1526	5829.08	0.0117	0.01172
Ni	60	3	He	11.509	0.1469	5643.00	0.0117	0.01172
Ni	60	3	He	11.568	0.1476	5711.03	0.0117	0.01172
Cu	63	3	He	94.738	1.8677	126110.79	0.0196	0.01443
Cu	63	3	He	95.276	1.8782	127067.78	0.0196	0.01443
Cu	63	3	He	94.741	1.8678	127090.49	0.0196	0.01443
Zn	66	3	He	103.9	0.2389	16134.03	0.0023	0.002807
Zn	66	3	He	105.285	0.2421	16378.31	0.0023	0.002807
Zn	66	3	He	106.977	0.2459	16734.69	0.0023	0.002807
As	75	3	He	1.192	0.0035	234.00	0.0018	0.001271
As	75	3	He	1.253	0.0036	242.00	0.0018	0.001271
As	75	3	He	0.922	0.003	202.00	0.0018	0.001271
Sr	88	3	He	231.27	1.9013	100093.61	0.0082	0.00114
Sr	88	3	He	235.228	1.9338	100988.89	0.0082	0.00114
Sr	88	3	He	234.417	1.9272	97528.22	0.0082	0.00114
Mo	98	3	He	8.916	0.1594	8392.54	0.0177	0.001504
Mo	98	3	He	9.226	0.1649	8612.61	0.0177	0.001504
Mo	98	3	He	9.635	0.1722	8712.69	0.0177	0.001504
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.01	0.001	50.00	0.0368	0.001325
Ag	107	3	He	0.002	0.0014	70.00	0.0368	0.001325
Cd	111	3	He	0.248	0.0011	56.00	0.0041	4.798E-05
Cd	111	3	He	0.138	0.0006	32.00	0.0041	4.798E-05
Cd	111	3	He	0.162	0.0007	36.00	0.0041	4.798E-05
Sn	120	3	He	0.306	0.0148	780.04	0.0126	0.01097
Sn	120	3	He	0.331	0.0151	790.05	0.0126	0.01097
Sn	120	3	He	0.448	0.0166	840.05	0.0126	0.01097
Sb	121	3	He	0.901	0.0112	590.02	0.012	0.0003595
Sb	121	3	He	0.998	0.0124	646.69	0.012	0.0003595
Sb	121	3	He	0.889	0.0111	560.02	0.012	0.0003595
Ba	137	3	He	58.988	0.2305	12135.13	0.0039	0.0003633
Ba	137	3	He	56.813	0.222	11594.75	0.0039	0.0003633
Ba	137	3	He	60.404	0.236	11945.10	0.0039	0.0003633
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Tl	205	3	He	-0.054	0.0003	60.00	0.0189	0.001334
Pb	208	3	He	15.159	0.3828	38992.82	0.0252	0.001497
Pb	208	3	He	14.986	0.3785	37659.04	0.0252	0.001497
Pb	208	3	He	14.774	0.3732	38762.00	0.0252	0.001497
U	238	3	He	0.125	0.0032	600.04	0.0245	0.0001141
U	238	3	He	0.058	0.0015	290.01	0.0245	0.0001141
U	238	3	He	0.091	0.0024	450.03	0.0245	0.0001141
Sc	45	1	No Gas			1608138.26		
Sc	45	1	No Gas			1613092.79		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1662962.63		
Ge	72	1	No Gas			825296.24		
Ge	72	1	No Gas			831599.28		
Ge	72	1	No Gas			845770.07		
Sc	45	2	H2			132983.83		
Sc	45	2	H2			129285.63		
Sc	45	2	H2			131464.04		
Ge	72	2	H2			100442.69		
Ge	72	2	H2			97082.94		
Ge	72	2	H2			99769.08		
In	115	2	H2			239312.24		
In	115	2	H2			241625.41		
In	115	2	H2			236863.98		
Sc	45	3	He			38195.13		
Sc	45	3	He			38415.49		
Sc	45	3	He			38696.48		
Ge	72	3	He			67522.01		
Ge	72	3	He			67652.95		
Ge	72	3	He			68044.23		
In	115	3	He			52650.23		
In	115	3	He			52228.04		
In	115	3	He			50613.19		
Tb	159	3	He			188331.64		
Tb	159	3	He			187227.85		
Tb	159	3	He			191044.51		
Bi	209	3	He			140127.64		
Bi	209	3	He			140571.13		
Bi	209	3	He			140280.03		

Quantitation Report

Data File Name	355_CCV.d
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Sample Type	CCV
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

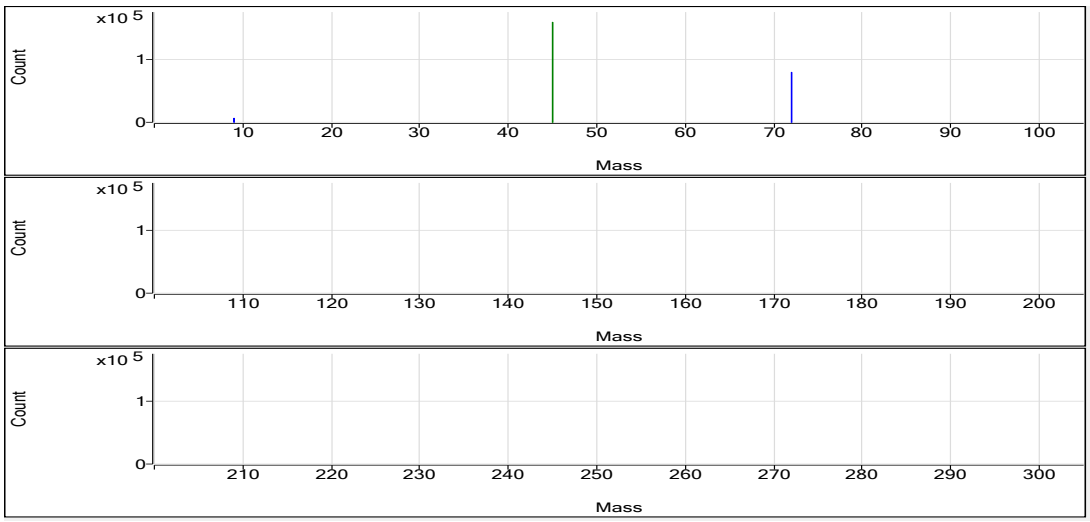
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	25.193	ppb	4.8	13584.82	0.0085	Pulse	0.5000	3
Se	78	72	H2	24.806	ppb	1.5	902.03	0.0097	Pulse	1.5000	3
Na	23	45	He	2535.179	ppb	0.8	269092.61	7.0697	Pulse	0.1000	3
Mg	24	45	He	2618.937	ppb	0.7	121708.37	3.1974	Pulse	0.1000	3
Al	27	45	He	2582.925	ppb	2.0	37272.58	0.9794	Pulse	0.1000	3
K	39	45	He	2590.791	ppb	2.8	118098.69	3.1032	Pulse	0.5000	3
Ca	44	45	He	2620.027	ppb	1.7	5418.92	0.1424	Pulse	0.5000	3
Ti	47	45	He	2569.034	ppb	1.1	40009.16	1.0511	Pulse	0.5000	3
V	51	45	He	258.941	ppb	0.9	174341.73	4.5805	Pulse	0.5000	3
Cr	52	45	He	258.699	ppb	0.9	215850.13	5.6708	Pulse	0.1000	3
Mn	55	45	He	257.552	ppb	1.4	89753.00	2.3582	Pulse	0.5000	3
Fe	57	45	He	2545.930	ppb	0.9	39020.84	1.0251	Pulse	0.1000	3
Co	59	45	He	256.014	ppb	0.8	402565.82	10.5765	Pulse	0.5000	3
Ni	60	45	He	256.528	ppb	0.8	115133.06	3.0247	Pulse	0.5000	3
Cu	63	72	He	254.609	ppb	0.8	318315.96	4.9951	Pulse	0.5000	3
Zn	66	72	He	256.069	ppb	1.0	37266.04	0.5848	Pulse	0.5000	3
As	75	72	He	251.464	ppb	0.3	29579.15	0.4642	Pulse	0.5000	3
Sr	88	115	He	25.369	ppb	8.4	10730.61	0.2096	Pulse	0.1000	3
Mo	98	115	He	25.802	ppb	1.8	23494.85	0.4585	Pulse	0.1000	3
Ag	107	115	He	25.390	ppb	1.7	47907.47	0.9350	Pulse	0.1000	3
Cd	111	115	He	26.056	ppb	3.5	5478.33	0.1069	Pulse	0.5000	3
Sn	120	115	He	25.870	ppb	0.5	17250.08	0.3366	Pulse	0.1000	3
Sb	121	115	He	24.857	ppb	3.1	15358.83	0.2998	Pulse	0.3000	3
Ba	137	115	He	250.091	ppb	2.8	50008.88	0.9761	Pulse	0.1000	3
Tl	205	159	He	24.734	ppb	1.9	87571.60	0.4698	Pulse	0.1000	3
Pb	208	159	He	25.349	ppb	0.9	119166.29	0.6392	Pulse	0.1000	3
U	238	159	He	25.914	ppb	2.7	118595.13	0.6363	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1597270.13	0.8	93.5	Analog	0.1000	3
No Gas	Ge	72	799279.26	0.9	92.5	Pulse	0.1000	3
H2	Sc	45	128752.48	1.2	96.4	Pulse	0.1000	3
H2	Ge	72	93169.57	1.3	94.1	Pulse	0.1000	3
H2	In	115	234724.86	1.3	91.4	Pulse	0.1000	3
He	Sc	45	38064.88	1.3	96.4	Pulse	0.1000	3
He	Ge	72	63726.89	0.5	93.6	Pulse	0.1000	3
He	In	115	51247.97	1.6	92.5	Pulse	0.1000	3
He	Tb	159	186441.54	1.5	91.0	Pulse	0.1000	3
He	Bi	209	138896.26	0.8	91.8	Pulse	0.1000	3

No Gas



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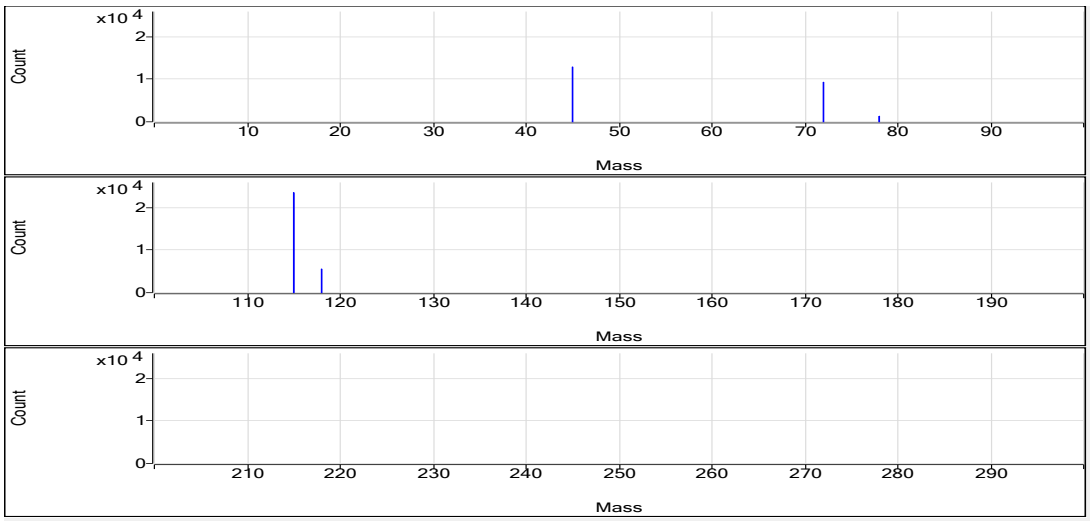
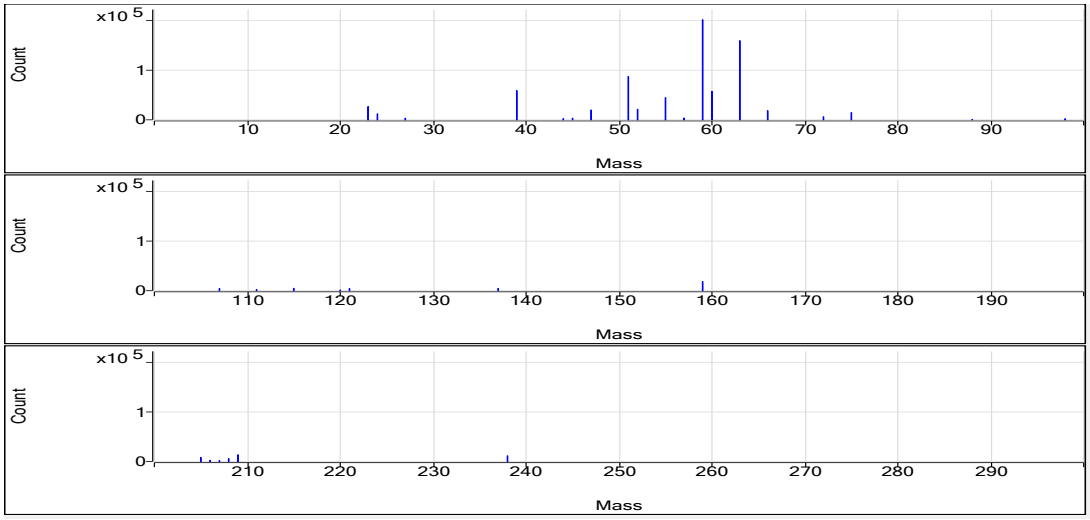


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	24.082	0.0081	12918.94	0.0003	2.616E-05
Be	9	1	No Gas	25.025	0.0084	13623.52	0.0003	2.616E-05
Be	9	1	No Gas	26.473	0.0089	14211.99	0.0003	2.616E-05
Se	78	2	H2	24.775	0.0097	903.36	0.0004	6.3E-05
Se	78	2	H2	24.444	0.0095	899.36	0.0004	6.3E-05
Se	78	2	H2	25.198	0.0098	903.36	0.0004	6.3E-05
Na	23	3	He	2550.354	7.1075	266699.39	0.0025	0.7502
Na	23	3	He	2543.413	7.0902	270741.64	0.0025	0.7502
Na	23	3	He	2511.771	7.0113	269836.79	0.0025	0.7502
Mg	24	3	He	2624.967	3.2047	120251.45	0.0012	0.02618
Mg	24	3	He	2597.841	3.1718	121117.65	0.0012	0.02618
Mg	24	3	He	2634.002	3.2156	123756.02	0.0012	0.02618
Al	27	3	He	2640.474	1.0011	37563.19	0.0004	0.005329
Al	27	3	He	2568.016	0.9737	37182.19	0.0004	0.005329
Al	27	3	He	2540.286	0.9633	37072.37	0.0004	0.005329
K	39	3	He	2672.445	3.1843	119485.32	0.001	0.5307
K	39	3	He	2570.917	3.0835	117742.73	0.001	0.5307
K	39	3	He	2529.013	3.0419	117068.03	0.001	0.5307
Ca	44	3	He	2598.31	0.1412	5298.88	0.0001	0.004441
Ca	44	3	He	2672.259	0.1451	5540.96	0.0001	0.004441
Ca	44	3	He	2589.511	0.1408	5416.93	0.0001	0.004441
Ti	47	3	He	2571.354	1.0521	39477.20	0.0004	0.0004559
Ti	47	3	He	2595.849	1.0621	40555.86	0.0004	0.0004559
Ti	47	3	He	2539.9	1.0392	39994.42	0.0004	0.0004559
V	51	3	He	261.186	4.62	173357.23	0.0176	0.02609
V	51	3	He	259.22	4.5854	175093.94	0.0176	0.02609
V	51	3	He	256.416	4.5361	174574.03	0.0176	0.02609
Cr	52	3	He	258.965	5.6765	213003.71	0.0217	0.05061
Cr	52	3	He	260.896	5.7185	218362.38	0.0217	0.05061
Cr	52	3	He	256.236	5.6173	216184.31	0.0217	0.05061
Mn	55	3	He	261.739	2.3963	89919.20	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	256.137	2.3453	89555.31	0.0091	0.01071
Mn	55	3	He	254.781	2.3329	89784.49	0.0091	0.01071
Fe	57	3	He	2545.222	1.0249	38456.21	0.0004	0.008452
Fe	57	3	He	2570.429	1.0349	39518.72	0.0004	0.008452
Fe	57	3	He	2522.14	1.0156	39087.58	0.0004	0.008452
Co	59	3	He	258.312	10.6714	400428.00	0.0413	0.006013
Co	59	3	He	255.172	10.5417	402537.66	0.0413	0.006013
Co	59	3	He	254.559	10.5164	404731.81	0.0413	0.006013
Ni	60	3	He	257.44	3.0354	113898.55	0.0117	0.01172
Ni	60	3	He	254.214	2.9975	114460.16	0.0117	0.01172
Ni	60	3	He	257.93	3.0411	117040.48	0.0117	0.01172
Cu	63	3	He	254.078	4.9847	317308.63	0.0196	0.01443
Cu	63	3	He	252.885	4.9614	317872.03	0.0196	0.01443
Cu	63	3	He	256.865	5.0392	319767.22	0.0196	0.01443
Zn	66	3	He	253.834	0.5797	36901.84	0.0023	0.002807
Zn	66	3	He	255.688	0.5839	37411.10	0.0023	0.002807
Zn	66	3	He	258.686	0.5907	37485.19	0.0023	0.002807
As	75	3	He	252.258	0.4656	29639.26	0.0018	0.001271
As	75	3	He	251.188	0.4636	29705.38	0.0018	0.001271
As	75	3	He	250.948	0.4632	29392.80	0.0018	0.001271
Sr	88	3	He	26.329	0.2175	11094.14	0.0082	0.00114
Sr	88	3	He	22.917	0.1894	9883.38	0.0082	0.00114
Sr	88	3	He	26.86	0.2218	11214.30	0.0082	0.00114
Mo	98	3	He	25.455	0.4524	23077.66	0.0177	0.001504
Mo	98	3	He	25.614	0.4552	23748.59	0.0177	0.001504
Mo	98	3	He	26.337	0.468	23658.30	0.0177	0.001504
Ag	107	3	He	25.526	0.94	47954.35	0.0368	0.001325
Ag	107	3	He	24.906	0.9172	47854.06	0.0368	0.001325
Ag	107	3	He	25.738	0.9478	47913.99	0.0368	0.001325
Cd	111	3	He	26.579	0.1091	5565.02	0.0041	4.798E-05
Cd	111	3	He	24.988	0.1026	5350.95	0.0041	4.798E-05
Cd	111	3	He	26.6	0.1092	5519.01	0.0041	4.798E-05
Sn	120	3	He	25.743	0.335	17089.89	0.0126	0.01097
Sn	120	3	He	25.99	0.3381	17640.47	0.0126	0.01097
Sn	120	3	He	25.876	0.3367	17019.88	0.0126	0.01097
Sb	121	3	He	25.472	0.3072	15671.33	0.012	0.0003595
Sb	121	3	He	23.981	0.2892	15090.78	0.012	0.0003595
Sb	121	3	He	25.118	0.3029	15314.37	0.012	0.0003595
Ba	137	3	He	251.02	0.9797	49981.60	0.0039	0.0003633
Ba	137	3	He	242.682	0.9472	49420.67	0.0039	0.0003633
Ba	137	3	He	256.571	1.0014	50624.37	0.0039	0.0003633
Tl	205	3	He	24.74	0.4699	87320.49	0.0189	0.001334
Tl	205	3	He	24.253	0.4607	87279.30	0.0189	0.001334
Tl	205	3	He	25.209	0.4788	88115.00	0.0189	0.001334
Pb	208	3	He	25.533	0.6438	62925.53	0.0252	0.001497
Pb	208	3	He	25.085	0.6326	63508.15	0.0252	0.001497
Pb	208	3	He	25.429	0.6412	63609.57	0.0252	0.001497
U	238	3	He	26.048	0.6396	118850.23	0.0245	0.0001141
U	238	3	He	25.147	0.6174	116974.99	0.0245	0.0001141
U	238	3	He	26.547	0.6518	119960.17	0.0245	0.0001141
Sc	45	1	No Gas			1588826.54		
Sc	45	1	No Gas			1612520.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1590463.57		
Ge	72	1	No Gas			803754.05		
Ge	72	1	No Gas			802748.27		
Ge	72	1	No Gas			791335.46		
Sc	45	2	H2			128540.78		
Sc	45	2	H2			130385.27		
Sc	45	2	H2			127331.38		
Ge	72	2	H2			93411.04		
Ge	72	2	H2			94245.49		
Ge	72	2	H2			91852.18		
In	115	2	H2			234225.37		
In	115	2	H2			238065.13		
In	115	2	H2			231884.08		
Sc	45	3	He			37523.59		
Sc	45	3	He			38185.27		
Sc	45	3	He			38485.79		
Ge	72	3	He			63656.12		
Ge	72	3	He			64069.11		
Ge	72	3	He			63455.45		
In	115	3	He			51134.83		
In	115	3	He			52298.50		
In	115	3	He			50672.82		
Tb	159	3	He			185829.94		
Tb	159	3	He			189454.43		
Tb	159	3	He			184040.25		
Bi	209	3	He			138654.67		
Bi	209	3	He			140086.39		
Bi	209	3	He			137947.73		

Quantitation Report

Data File Name	357_CCB.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 11:08:42 PM
Sample Name	CCB 7996167
Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

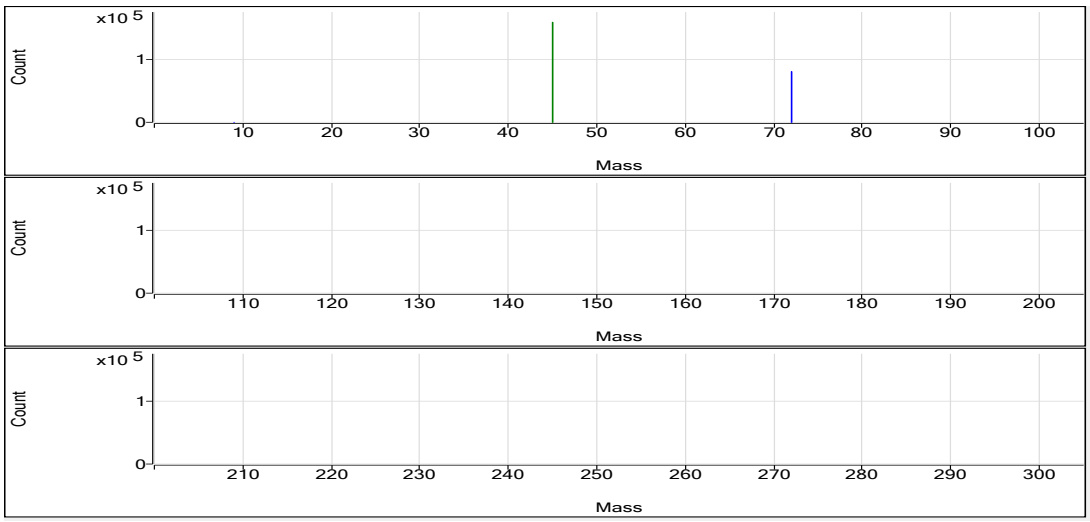
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.038	ppb	N/A	21.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.065	ppb	N/A	3.56	0.0000	Pulse	1.5000	3
Na	23	45	He	-87.313	ppb	N/A	20432.98	0.5325	Pulse	0.1000	3
Mg	24	45	He	-8.491	ppb	N/A	610.03	0.0159	Pulse	0.1000	3
Al	27	45	He	-2.620	ppb	N/A	166.67	0.0043	Pulse	0.1000	3
K	39	45	He	-2.875	ppb	N/A	20256.59	0.5278	Pulse	0.5000	3
Ca	44	45	He	-10.103	ppb	N/A	150.00	0.0039	Pulse	0.5000	3
Ti	47	45	He	-0.520	ppb	N/A	9.33	0.0002	Pulse	0.5000	3
V	51	45	He	0.018	ppb	388.4	1013.37	0.0264	Pulse	0.5000	3
Cr	52	45	He	-0.362	ppb	N/A	1640.14	0.0427	Pulse	0.1000	3
Mn	55	45	He	-0.361	ppb	N/A	284.67	0.0074	Pulse	0.5000	3
Fe	57	45	He	-8.106	ppb	N/A	200.01	0.0052	Pulse	0.1000	3
Co	59	45	He	0.005	ppb	234.3	238.67	0.0062	Pulse	0.5000	3
Ni	60	45	He	-0.064	ppb	N/A	420.68	0.0110	Pulse	0.5000	3
Cu	63	72	He	-0.311	ppb	N/A	533.34	0.0083	Pulse	0.5000	3
Zn	66	72	He	0.034	ppb	722.7	184.00	0.0029	Pulse	0.5000	3
As	75	72	He	0.387	ppb	21.6	126.67	0.0020	Pulse	0.5000	3
Sr	88	115	He	0.032	ppb	90.3	70.00	0.0014	Pulse	0.1000	3
Mo	98	115	He	-0.043	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Ag	107	115	He	-0.016	ppb	N/A	36.67	0.0007	Pulse	0.1000	3
Cd	111	115	He	-0.005	ppb	N/A	1.33	0.0000	Pulse	0.5000	3
Sn	120	115	He	-0.103	ppb	N/A	483.36	0.0097	Pulse	0.1000	3
Sb	121	115	He	0.047	ppb	42.6	46.67	0.0009	Pulse	0.3000	3
Ba	137	115	He	0.113	ppb	137.3	40.00	0.0008	Pulse	0.1000	3
Tl	205	159	He	-0.035	ppb	N/A	123.34	0.0007	Pulse	0.1000	3
Pb	208	159	He	-0.010	ppb	N/A	230.00	0.0013	Pulse	0.1000	3
U	238	159	He	0.003	ppb	97.4	36.67	0.0002	Pulse	0.1000	3

ISTD Table:

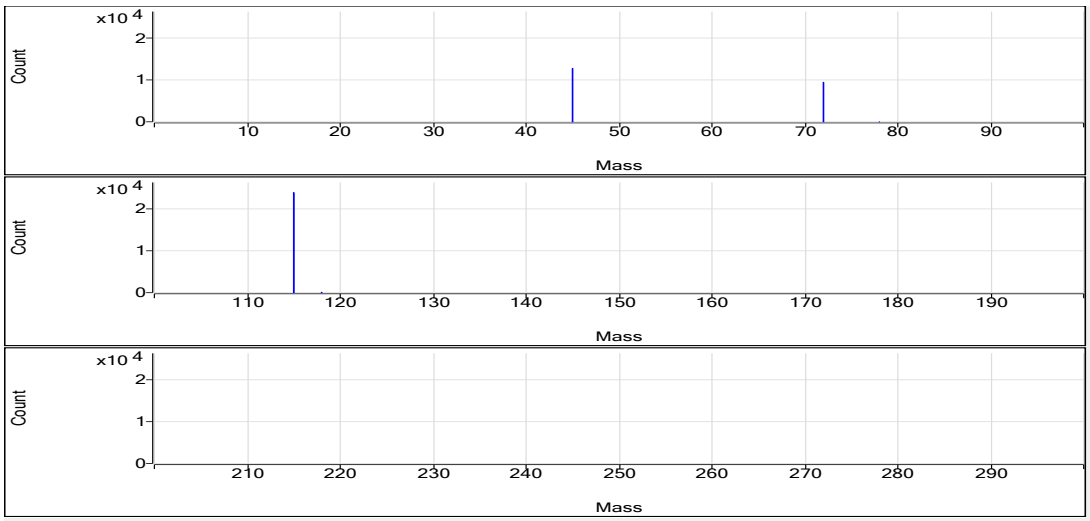
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1595046.85	0.4	93.4	Analog	0.1000	3
No Gas	Ge	72	808676.53	0.3	93.6	Pulse	0.1000	3
H2	Sc	45	127631.14	2.2	95.5	Pulse	0.1000	3
H2	Ge	72	94594.21	1.5	95.5	Pulse	0.1000	3
H2	In	115	238845.82	1.0	93.1	Pulse	0.1000	3
He	Sc	45	38368.87	0.4	97.2	Pulse	0.1000	3
He	Ge	72	63884.10	1.5	93.8	Pulse	0.1000	3
He	In	115	50131.31	2.7	90.5	Pulse	0.1000	3
He	Tb	159	183610.22	0.3	89.7	Pulse	0.1000	3
He	Bi	209	136167.38	1.9	90.0	Pulse	0.1000	3

No Gas

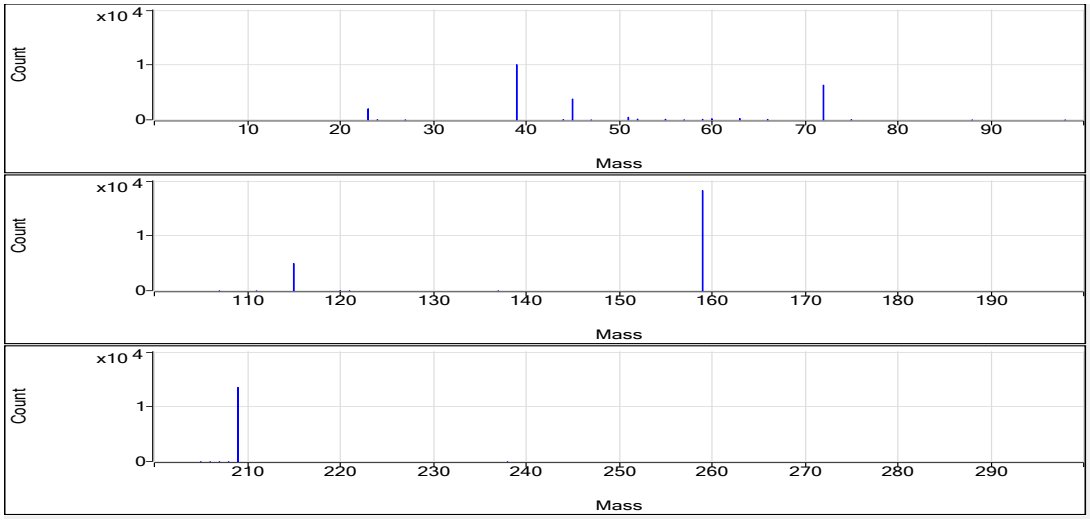


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.048	0	16.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.033	0	24.00	0.0003	2.616E-05
Se	78	2	H2	-0.055	0	4.00	0.0004	6.3E-05
Se	78	2	H2	-0.034	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.108	0	2.00	0.0004	6.3E-05
Na	23	3	He	-86.564	0.5344	20583.08	0.0025	0.7502
Na	23	3	He	-87.089	0.5331	20383.00	0.0025	0.7502
Na	23	3	He	-88.284	0.5301	20332.86	0.0025	0.7502
Mg	24	3	He	-7.685	0.0169	650.03	0.0012	0.02618
Mg	24	3	He	-6.286	0.0186	710.04	0.0012	0.02618
Mg	24	3	He	-11.502	0.0123	470.03	0.0012	0.02618
Al	27	3	He	-0.362	0.0052	200.01	0.0004	0.005329
Al	27	3	He	-5.81	0.0031	120.00	0.0004	0.005329
Al	27	3	He	-1.687	0.0047	180.01	0.0004	0.005329
K	39	3	He	76.811	0.6069	23376.57	0.001	0.5307
K	39	3	He	-27.413	0.5034	19249.24	0.001	0.5307
K	39	3	He	-58.022	0.473	18143.97	0.001	0.5307
Ca	44	3	He	-4.461	0.0042	162.00	0.0001	0.004441
Ca	44	3	He	-8.843	0.004	152.00	0.0001	0.004441
Ca	44	3	He	-17.004	0.0035	136.00	0.0001	0.004441
Ti	47	3	He	-0.353	0.0003	12.00	0.0004	0.0004559
Ti	47	3	He	-0.603	0.0002	8.00	0.0004	0.0004559
Ti	47	3	He	-0.605	0.0002	8.00	0.0004	0.0004559
V	51	3	He	0.084	0.0276	1062.04	0.0176	0.02609
V	51	3	He	0.024	0.0265	1014.04	0.0176	0.02609
V	51	3	He	-0.055	0.0251	964.04	0.0176	0.02609
Cr	52	3	He	-0.19	0.0465	1790.16	0.0217	0.05061
Cr	52	3	He	-0.584	0.0379	1450.12	0.0217	0.05061
Cr	52	3	He	-0.313	0.0438	1680.14	0.0217	0.05061
Mn	55	3	He	-0.36	0.0074	286.00	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.394	0.0071	272.00	0.0091	0.01071
Mn	55	3	He	-0.328	0.0077	296.00	0.0091	0.01071
Fe	57	3	He	-9.462	0.0047	180.01	0.0004	0.008452
Fe	57	3	He	-3.482	0.0071	270.01	0.0004	0.008452
Fe	57	3	He	-11.372	0.0039	150.01	0.0004	0.008452
Co	59	3	He	0.003	0.0061	236.00	0.0413	0.006013
Co	59	3	He	0.018	0.0067	258.00	0.0413	0.006013
Co	59	3	He	-0.005	0.0058	222.00	0.0413	0.006013
Ni	60	3	He	-0.113	0.0104	400.01	0.0117	0.01172
Ni	60	3	He	-0.076	0.0108	414.01	0.0117	0.01172
Ni	60	3	He	-0.003	0.0117	448.01	0.0117	0.01172
Cu	63	3	He	-0.296	0.0087	544.01	0.0196	0.01443
Cu	63	3	He	-0.284	0.0089	576.01	0.0196	0.01443
Cu	63	3	He	-0.354	0.0075	480.01	0.0196	0.01443
Zn	66	3	He	0.234	0.0033	210.00	0.0023	0.002807
Zn	66	3	He	-0.244	0.0023	146.00	0.0023	0.002807
Zn	66	3	He	0.113	0.0031	196.00	0.0023	0.002807
As	75	3	He	0.398	0.002	126.00	0.0018	0.001271
As	75	3	He	0.299	0.0018	118.00	0.0018	0.001271
As	75	3	He	0.465	0.0021	136.00	0.0018	0.001271
Sr	88	3	He	0.06	0.0016	80.00	0.0082	0.00114
Sr	88	3	He	0.033	0.0014	70.00	0.0082	0.00114
Sr	88	3	He	0.003	0.0012	60.00	0.0082	0.00114
Mo	98	3	He	-0.027	0.001	50.00	0.0177	0.001504
Mo	98	3	He	-0.051	0.0006	30.00	0.0177	0.001504
Mo	98	3	He	-0.052	0.0006	30.00	0.0177	0.001504
Ag	107	3	He	-0.008	0.001	50.00	0.0368	0.001325
Ag	107	3	He	-0.014	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	0.052	0.0116	570.03	0.0126	0.01097
Sn	120	3	He	-0.167	0.0089	440.02	0.0126	0.01097
Sn	120	3	He	-0.195	0.0085	440.02	0.0126	0.01097
Sb	121	3	He	0.032	0.0007	36.67	0.012	0.0003595
Sb	121	3	He	0.07	0.0012	60.00	0.012	0.0003595
Sb	121	3	He	0.04	0.0008	43.33	0.012	0.0003595
Ba	137	3	He	0.116	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.268	0.0014	70.00	0.0039	0.0003633
Ba	137	3	He	-0.044	0.0002	10.00	0.0039	0.0003633
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Tl	205	3	He	-0.033	0.0007	130.01	0.0189	0.001334
Tl	205	3	He	-0.027	0.0008	150.01	0.0189	0.001334
Pb	208	3	He	-0.012	0.0012	120.01	0.0252	0.001497
Pb	208	3	He	-0.01	0.0013	80.00	0.0252	0.001497
Pb	208	3	He	-0.008	0.0013	80.00	0.0252	0.001497
U	238	3	He	0.004	0.0002	40.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0	0.0001	20.00	0.0245	0.0001141
Sc	45	1	No Gas			1598622.94		
Sc	45	1	No Gas			1588050.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1598466.85		
Ge	72	1	No Gas			808017.10		
Ge	72	1	No Gas			806962.96		
Ge	72	1	No Gas			811049.52		
Sc	45	2	H2			126878.23		
Sc	45	2	H2			125316.67		
Sc	45	2	H2			130698.51		
Ge	72	2	H2			96197.85		
Ge	72	2	H2			93460.78		
Ge	72	2	H2			94123.99		
In	115	2	H2			240450.19		
In	115	2	H2			236053.14		
In	115	2	H2			240034.14		
Sc	45	3	He			38515.96		
Sc	45	3	He			38235.24		
Sc	45	3	He			38355.42		
Ge	72	3	He			62883.47		
Ge	72	3	He			64811.10		
Ge	72	3	He			63957.73		
In	115	3	He			49057.62		
In	115	3	He			49679.82		
In	115	3	He			51666.63		
Tb	159	3	He			184281.31		
Tb	159	3	He			183065.84		
Tb	159	3	He			183483.51		
Bi	209	3	He			137543.59		
Bi	209	3	He			133173.90		
Bi	209	3	He			137784.64		

Quantitation Report

Data File Name	358SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 11:10:54 PM
Sample Name	680-265284-I-1-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

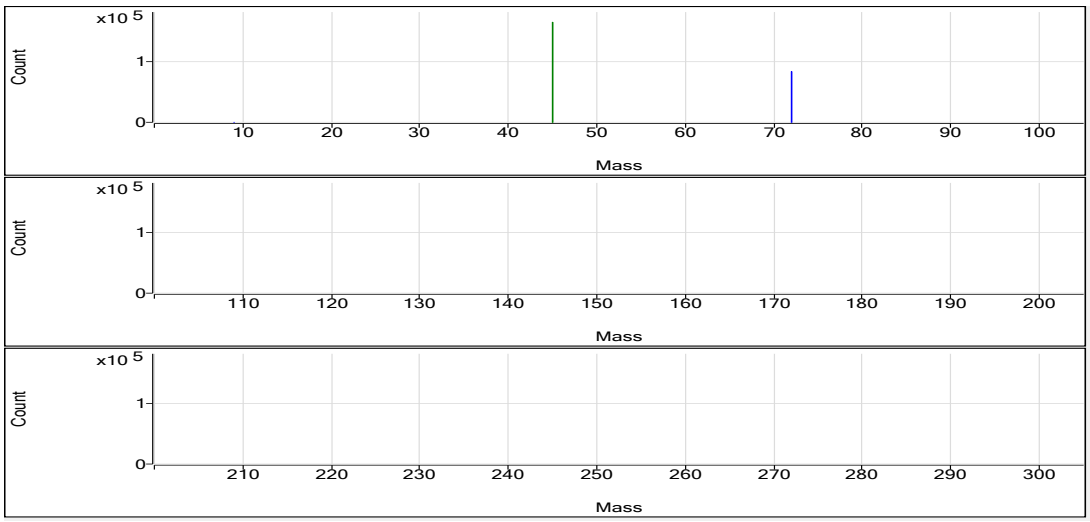
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.037	ppb	N/A	22.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.029	ppb	N/A	5.11	0.0001	Pulse	1.5000	3
Na	23	45	He	18890.008	ppb	2.5	1845744.61	47.8378	Analog	0.1000	3
Mg	24	45	He	6637.016	ppb	2.2	311093.91	8.0628	Pulse	0.1000	3
Al	27	45	He	17105.807	ppb	2.7	249074.36	6.4559	Pulse	0.1000	3
K	39	45	He	14844.424	ppb	1.7	589237.10	15.2705	Pulse	0.5000	3
Ca	44	45	He	22376.114	ppb	2.0	45620.18	1.1823	Pulse	0.5000	3
Ti	47	45	He	4.597	ppb	15.0	90.00	0.0023	Pulse	0.5000	3
V	51	45	He	3.034	ppb	32.1	3070.36	0.0795	Pulse	0.5000	3
Cr	52	45	He	0.988	ppb	35.1	2780.33	0.0721	Pulse	0.1000	3
Mn	55	45	He	52.259	ppb	3.5	18787.52	0.4870	Pulse	0.5000	3
Fe	57	45	He	1719.315	ppb	3.2	26815.98	0.6950	Pulse	0.1000	3
Co	59	45	He	0.328	ppb	8.8	755.36	0.0196	Pulse	0.5000	3
Ni	60	45	He	3.092	ppb	1.4	1853.45	0.0480	Pulse	0.5000	3
Cu	63	72	He	13.188	ppb	0.9	18244.94	0.2724	Pulse	0.5000	3
Zn	66	72	He	26.979	ppb	2.4	4294.59	0.0641	Pulse	0.5000	3
As	75	72	He	1.268	ppb	29.2	241.33	0.0036	Pulse	0.5000	3
Sr	88	115	He	138.780	ppb	4.0	59395.07	1.1414	Pulse	0.1000	3
Mo	98	115	He	4.211	ppb	6.9	3957.30	0.0761	Pulse	0.1000	3
Ag	107	115	He	0.006	ppb	408.7	80.00	0.0016	Pulse	0.1000	3
Cd	111	115	He	0.131	ppb	54.0	30.67	0.0006	Pulse	0.5000	3
Sn	120	115	He	0.277	ppb	48.7	753.38	0.0145	Pulse	0.1000	3
Sb	121	115	He	0.768	ppb	6.3	500.02	0.0096	Pulse	0.3000	3
Ba	137	115	He	44.010	ppb	10.7	8942.88	0.1721	Pulse	0.1000	3
Tl	205	159	He	-0.050	ppb	N/A	73.33	0.0004	Pulse	0.1000	3
Pb	208	159	He	10.571	ppb	1.1	50863.12	0.2674	Pulse	0.1000	3
U	238	159	He	0.085	ppb	9.8	416.69	0.0022	Pulse	0.1000	3

ISTD Table:

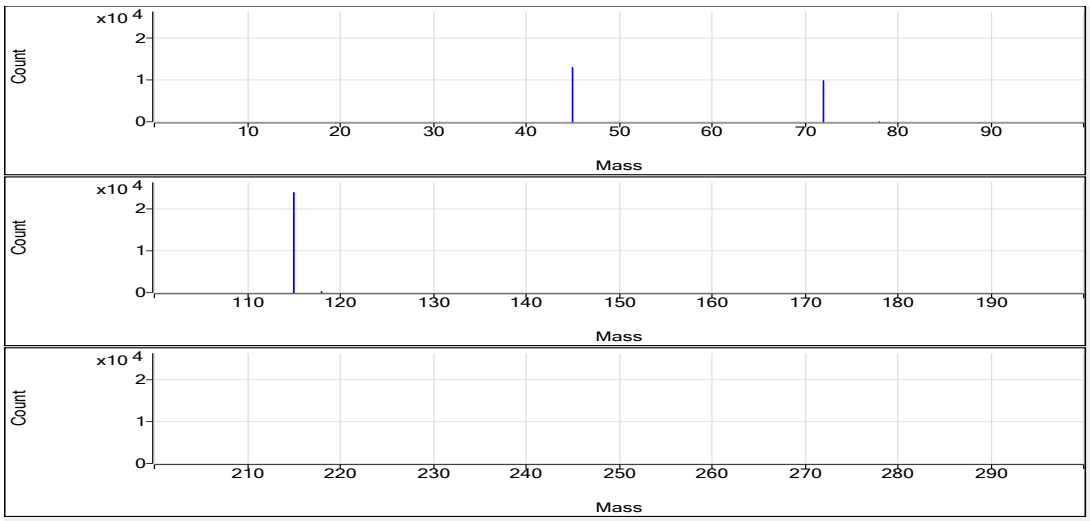
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1654220.81	1.4	96.8	Analog	0.1000	3
No Gas	Ge	72	839353.95	0.5	97.2	Pulse	0.1000	3
H2	Sc	45	130294.38	1.4	97.5	Pulse	0.1000	3
H2	Ge	72	98621.63	0.6	99.6	Pulse	0.1000	3
H2	In	115	239841.63	0.8	93.4	Pulse	0.1000	3
He	Sc	45	38595.99	2.3	97.8	Pulse	0.1000	3
He	Ge	72	66973.03	0.3	98.3	Pulse	0.1000	3
He	In	115	52072.61	2.7	94.0	Pulse	0.1000	3
He	Tb	159	190194.33	0.4	92.9	Pulse	0.1000	3
He	Bi	209	140790.09	1.9	93.1	Pulse	0.1000	3

No Gas

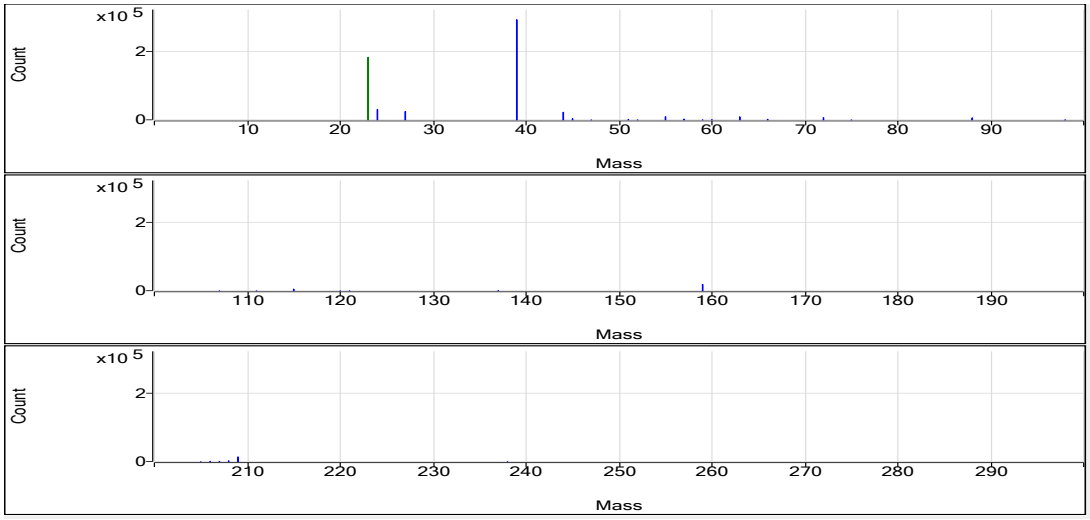


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.039	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.035	0	24.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.038	0	22.00	0.0003	2.616E-05
Se	78	2	H2	-0.04	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.006	0.0001	6.00	0.0004	6.3E-05
Se	78	2	H2	-0.041	0	4.67	0.0004	6.3E-05
Na	23	3	He	18943.286	47.9706	1869259.03	0.0025	0.7502
Na	23	3	He	18396.61	46.6079	1827842.63	0.0025	0.7502
Na	23	3	He	19330.128	48.9349	1840132.16	0.0025	0.7502
Mg	24	3	He	6529.189	7.9322	309092.87	0.0012	0.02618
Mg	24	3	He	6579.131	7.9927	313453.06	0.0012	0.02618
Mg	24	3	He	6802.728	8.2634	310735.80	0.0012	0.02618
Al	27	3	He	16786.795	6.3356	246879.94	0.0004	0.005329
Al	27	3	He	16885.132	6.3727	249922.52	0.0004	0.005329
Al	27	3	He	17645.493	6.6595	250420.62	0.0004	0.005329
K	39	3	He	14784.582	15.211	592725.63	0.001	0.5307
K	39	3	He	14629.651	15.0572	590505.69	0.001	0.5307
K	39	3	He	15119.041	15.5431	584480.00	0.001	0.5307
Ca	44	3	He	22015.016	1.1633	45330.08	0.0001	0.004441
Ca	44	3	He	22250.675	1.1757	46108.20	0.0001	0.004441
Ca	44	3	He	22862.65	1.2079	45422.25	0.0001	0.004441
Ti	47	3	He	4.282	0.0022	86.00	0.0004	0.0004559
Ti	47	3	He	4.123	0.0021	84.00	0.0004	0.0004559
Ti	47	3	He	5.388	0.0027	100.00	0.0004	0.0004559
V	51	3	He	4.158	0.0992	3866.61	0.0176	0.02609
V	51	3	He	2.463	0.0694	2722.24	0.0176	0.02609
V	51	3	He	2.481	0.0697	2622.22	0.0176	0.02609
Cr	52	3	He	0.589	0.0634	2470.26	0.0217	0.05061
Cr	52	3	He	1.204	0.0768	3010.37	0.0217	0.05061
Cr	52	3	He	1.172	0.0761	2860.35	0.0217	0.05061
Mn	55	3	He	51.597	0.481	18742.83	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	50.851	0.4742	18596.60	0.0091	0.01071
Mn	55	3	He	54.328	0.5059	19023.12	0.0091	0.01071
Fe	57	3	He	1737.957	0.7025	27373.52	0.0004	0.008452
Fe	57	3	He	1658.277	0.6707	26301.76	0.0004	0.008452
Fe	57	3	He	1761.709	0.712	26772.66	0.0004	0.008452
Co	59	3	He	0.299	0.0184	716.02	0.0413	0.006013
Co	59	3	He	0.357	0.0208	814.03	0.0413	0.006013
Co	59	3	He	0.328	0.0196	736.02	0.0413	0.006013
Ni	60	3	He	3.054	0.0476	1854.12	0.0117	0.01172
Ni	60	3	He	3.084	0.0479	1880.12	0.0117	0.01172
Ni	60	3	He	3.137	0.0486	1826.11	0.0117	0.01172
Cu	63	3	He	13.316	0.2749	18464.54	0.0196	0.01443
Cu	63	3	He	13.076	0.2702	18034.02	0.0196	0.01443
Cu	63	3	He	13.172	0.2721	18236.26	0.0196	0.01443
Zn	66	3	He	27.425	0.0651	4374.62	0.0023	0.002807
Zn	66	3	He	27.289	0.0648	4326.59	0.0023	0.002807
Zn	66	3	He	26.224	0.0624	4182.56	0.0023	0.002807
As	75	3	He	0.846	0.0028	190.00	0.0018	0.001271
As	75	3	He	1.54	0.0041	274.00	0.0018	0.001271
As	75	3	He	1.417	0.0039	260.00	0.0018	0.001271
Sr	88	3	He	139.228	1.1451	60224.88	0.0082	0.00114
Sr	88	3	He	133.068	1.0945	58186.87	0.0082	0.00114
Sr	88	3	He	144.042	1.1846	59773.47	0.0082	0.00114
Mo	98	3	He	4.156	0.0751	3950.62	0.0177	0.001504
Mo	98	3	He	3.951	0.0715	3800.57	0.0177	0.001504
Mo	98	3	He	4.526	0.0817	4120.70	0.0177	0.001504
Ag	107	3	He	0	0.0013	70.00	0.0368	0.001325
Ag	107	3	He	-0.016	0.0008	40.00	0.0368	0.001325
Ag	107	3	He	0.034	0.0026	130.00	0.0368	0.001325
Cd	111	3	He	0.211	0.0009	48.00	0.0041	4.798E-05
Cd	111	3	He	0.108	0.0005	26.00	0.0041	4.798E-05
Cd	111	3	He	0.075	0.0004	18.00	0.0041	4.798E-05
Sn	120	3	He	0.171	0.0131	690.04	0.0126	0.01097
Sn	120	3	He	0.429	0.0164	870.06	0.0126	0.01097
Sn	120	3	He	0.231	0.0139	700.04	0.0126	0.01097
Sb	121	3	He	0.712	0.0089	470.01	0.012	0.0003595
Sb	121	3	He	0.798	0.01	530.02	0.012	0.0003595
Sb	121	3	He	0.793	0.0099	500.03	0.012	0.0003595
Ba	137	3	He	43.195	0.1689	8882.87	0.0039	0.0003633
Ba	137	3	He	39.74	0.1554	8262.47	0.0039	0.0003633
Ba	137	3	He	49.094	0.1919	9683.30	0.0039	0.0003633
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.048	0.0004	80.00	0.0189	0.001334
Pb	208	3	He	10.504	0.2657	27506.75	0.0252	0.001497
Pb	208	3	He	10.701	0.2707	27386.20	0.0252	0.001497
Pb	208	3	He	10.508	0.2658	26384.86	0.0252	0.001497
U	238	3	He	0.081	0.0021	400.02	0.0245	0.0001141
U	238	3	He	0.079	0.0021	390.02	0.0245	0.0001141
U	238	3	He	0.094	0.0024	460.02	0.0245	0.0001141
Sc	45	1	No Gas			1675526.54		
Sc	45	1	No Gas			1657171.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629964.35		
Ge	72	1	No Gas			835061.86		
Ge	72	1	No Gas			842314.60		
Ge	72	1	No Gas			840685.38		
Sc	45	2	H2			129386.65		
Sc	45	2	H2			129045.28		
Sc	45	2	H2			132451.21		
Ge	72	2	H2			97967.30		
Ge	72	2	H2			99025.22		
Ge	72	2	H2			98872.37		
In	115	2	H2			239454.86		
In	115	2	H2			241873.65		
In	115	2	H2			238196.38		
Sc	45	3	He			38966.79		
Sc	45	3	He			39217.48		
Sc	45	3	He			37603.71		
Ge	72	3	He			67160.63		
Ge	72	3	He			66738.62		
Ge	72	3	He			67019.85		
In	115	3	He			52599.76		
In	115	3	He			53171.15		
In	115	3	He			50462.73		
Tb	159	3	He			191114.84		
Tb	159	3	He			189862.95		
Tb	159	3	He			189605.19		
Bi	209	3	He			142893.07		
Bi	209	3	He			141692.62		
Bi	209	3	He			137784.58		

Quantitation Report

Data File Name	359SMPL.d
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Acq Time	7/10/2025 11:13:06 PM
Sample Name	400-278777-B-1-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

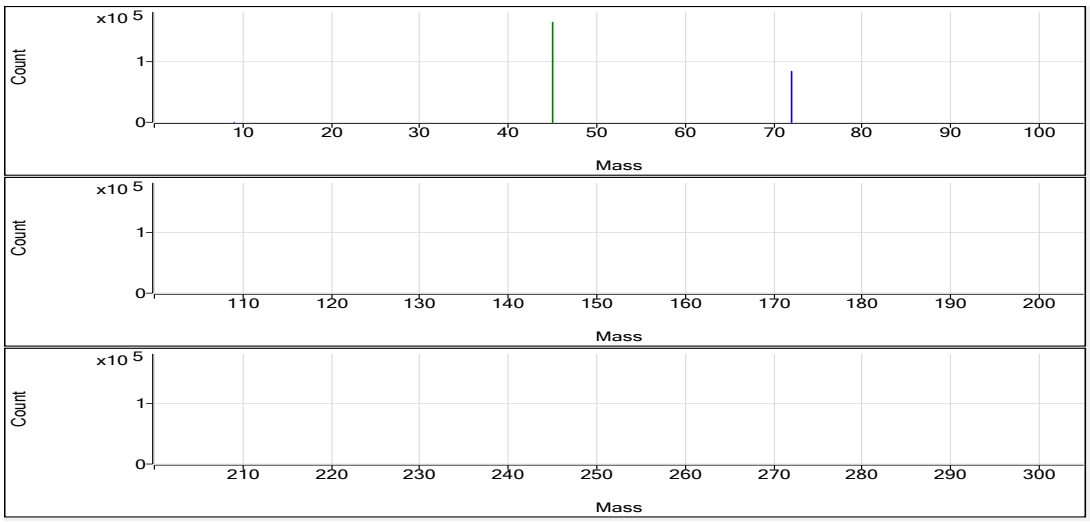
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.339	ppb	15.0	232.00	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.312	ppb	33.7	18.67	0.0002	Pulse	1.5000	3
Na	23	45	He	31855.709	ppb	0.9	3060209.85	80.1577	Analog	0.1000	3
Mg	24	45	He	4482.775	ppb	2.0	208217.97	5.4543	Pulse	0.1000	3
Al	27	45	He	5584.387	ppb	1.7	80596.32	2.1112	Pulse	0.1000	3
K	39	45	He	11906.930	ppb	1.2	471616.62	12.3537	Pulse	0.5000	3
Ca	44	45	He	69006.246	ppb	1.3	138845.20	3.6369	Pulse	0.5000	3
Ti	47	45	He	95.544	ppb	3.1	1509.42	0.0395	Pulse	0.5000	3
V	51	45	He	6.540	ppb	2.2	5387.59	0.1411	Pulse	0.5000	3
Cr	52	45	He	55.424	ppb	3.1	47894.26	1.2547	Pulse	0.1000	3
Mn	55	45	He	407.107	ppb	0.9	142067.25	3.7213	Pulse	0.5000	3
Fe	57	45	He	10703.915	ppb	1.5	163510.59	4.2829	Pulse	0.1000	3
Co	59	45	He	11.620	ppb	0.9	18545.93	0.4858	Pulse	0.5000	3
Ni	60	45	He	127.586	ppb	0.6	57656.09	1.5102	Pulse	0.5000	3
Cu	63	72	He	381.450	ppb	0.8	496663.68	7.4764	Pulse	0.5000	3
Zn	66	72	He	1230.977	ppb	0.6	186040.45	2.8005	Pulse	0.5000	3
As	75	72	He	3.769	ppb	0.8	545.34	0.0082	Pulse	0.5000	3
Sr	88	115	He	264.075	ppb	1.0	113796.07	2.1708	Pulse	0.1000	3
Mo	98	115	He	8.609	ppb	1.8	8072.33	0.1540	Pulse	0.1000	3
Ag	107	115	He	1.317	ppb	5.6	2606.98	0.0497	Pulse	0.1000	3
Cd	111	115	He	3.036	ppb	1.5	655.35	0.0125	Pulse	0.5000	3
Sn	120	115	He	10.513	ppb	7.4	7508.70	0.1433	Pulse	0.1000	3
Sb	121	115	He	8.079	ppb	6.2	5118.90	0.0977	Pulse	0.3000	3
Ba	137	115	He	105.960	ppb	3.6	21686.13	0.4138	Pulse	0.1000	3
Tl	205	159	He	-0.010	ppb	N/A	216.68	0.0011	Pulse	0.1000	3
Pb	208	159	He	37.767	ppb	0.8	180518.61	0.9516	Pulse	0.1000	3
U	238	159	He	0.471	ppb	3.1	2216.93	0.0117	Pulse	0.1000	3

ISTD Table:

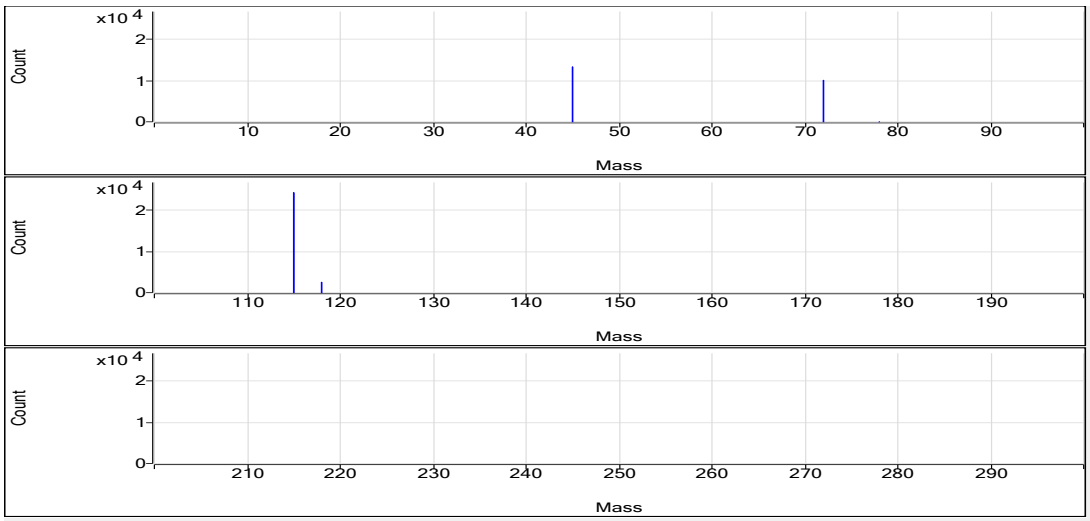
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1655493.99	1.1	96.9	Analog	0.1000	3
No Gas	Ge	72	843053.32	0.9	97.6	Pulse	0.1000	3
H2	Sc	45	133611.17	1.4	100.0	Pulse	0.1000	3
H2	Ge	72	101250.94	2.2	102.2	Pulse	0.1000	3
H2	In	115	243367.77	1.0	94.8	Pulse	0.1000	3
He	Sc	45	38178.37	0.8	96.7	Pulse	0.1000	3
He	Ge	72	66434.33	1.1	97.5	Pulse	0.1000	3
He	In	115	52419.95	0.8	94.6	Pulse	0.1000	3
He	Tb	159	189698.75	0.6	92.6	Pulse	0.1000	3
He	Bi	209	140346.55	0.8	92.8	Pulse	0.1000	3

No Gas

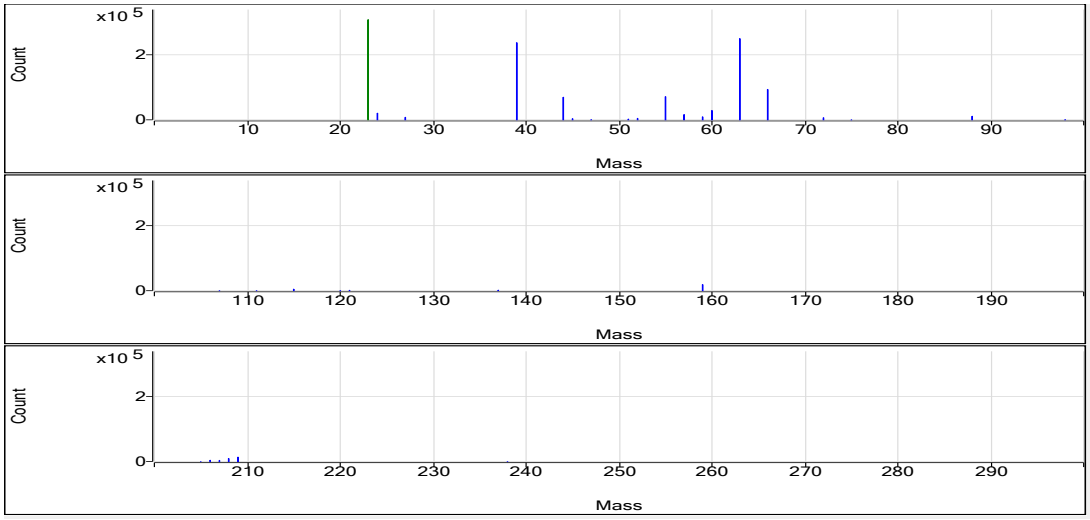


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.293	0.0001	208.00	0.0003	2.616E-05
Be	9	1	No Gas	0.33	0.0001	224.00	0.0003	2.616E-05
Be	9	1	No Gas	0.393	0.0002	264.00	0.0003	2.616E-05
Se	78	2	H2	0.196	0.0001	14.00	0.0004	6.3E-05
Se	78	2	H2	0.401	0.0002	22.67	0.0004	6.3E-05
Se	78	2	H2	0.339	0.0002	19.33	0.0004	6.3E-05
Na	23	3	He	31838.531	80.1149	3037527.45	0.0025	0.7502
Na	23	3	He	31571.214	79.4485	3057611.52	0.0025	0.7502
Na	23	3	He	32157.38	80.9097	3085490.58	0.0025	0.7502
Mg	24	3	He	4588.609	5.5824	211655.31	0.0012	0.02618
Mg	24	3	He	4430.11	5.3905	207455.49	0.0012	0.02618
Mg	24	3	He	4429.605	5.3899	205543.12	0.0012	0.02618
Al	27	3	He	5691.668	2.1517	81579.62	0.0004	0.005329
Al	27	3	He	5511.491	2.0837	80192.87	0.0004	0.005329
Al	27	3	He	5550.003	2.0982	80016.48	0.0004	0.005329
K	39	3	He	12036.289	12.4821	473255.41	0.001	0.5307
K	39	3	He	11759.175	12.207	469790.38	0.001	0.5307
K	39	3	He	11925.325	12.3719	471804.06	0.001	0.5307
Ca	44	3	He	69039.02	3.6386	137957.06	0.0001	0.004441
Ca	44	3	He	68124.291	3.5905	138180.84	0.0001	0.004441
Ca	44	3	He	69855.426	3.6816	140397.69	0.0001	0.004441
Ti	47	3	He	92.144	0.0381	1446.07	0.0004	0.0004559
Ti	47	3	He	97.624	0.0404	1554.09	0.0004	0.0004559
Ti	47	3	He	96.865	0.0401	1528.10	0.0004	0.0004559
V	51	3	He	6.657	0.1432	5428.94	0.0176	0.02609
V	51	3	He	6.377	0.1383	5320.91	0.0176	0.02609
V	51	3	He	6.586	0.1419	5412.92	0.0176	0.02609
Cr	52	3	He	56.64	1.2811	48572.55	0.0217	0.05061
Cr	52	3	He	53.427	1.2113	46617.02	0.0217	0.05061
Cr	52	3	He	56.204	1.2716	48493.20	0.0217	0.05061
Mn	55	3	He	409.104	3.7395	141782.06	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	402.749	3.6816	141687.31	0.0091	0.01071
Mn	55	3	He	409.467	3.7428	142732.38	0.0091	0.01071
Fe	57	3	He	10650.985	4.2618	161584.22	0.0004	0.008452
Fe	57	3	He	10574.219	4.2311	162837.01	0.0004	0.008452
Fe	57	3	He	10886.542	4.3559	166110.54	0.0004	0.008452
Co	59	3	He	11.736	0.4906	18600.65	0.0413	0.006013
Co	59	3	He	11.595	0.4848	18656.74	0.0413	0.006013
Co	59	3	He	11.528	0.482	18380.39	0.0413	0.006013
Ni	60	3	He	128.429	1.5201	57635.41	0.0117	0.01172
Ni	60	3	He	126.825	1.5013	57777.88	0.0117	0.01172
Ni	60	3	He	127.502	1.5092	57554.99	0.0117	0.01172
Cu	63	3	He	379.279	7.4339	496056.16	0.0196	0.01443
Cu	63	3	He	384.753	7.541	494794.97	0.0196	0.01443
Cu	63	3	He	380.319	7.4543	499139.91	0.0196	0.01443
Zn	66	3	He	1226.413	2.7901	186181.33	0.0023	0.002807
Zn	66	3	He	1240.043	2.8211	185103.25	0.0023	0.002807
Zn	66	3	He	1226.474	2.7903	186836.77	0.0023	0.002807
As	75	3	He	3.738	0.0082	544.01	0.0018	0.001271
As	75	3	He	3.797	0.0083	542.01	0.0018	0.001271
As	75	3	He	3.772	0.0082	550.01	0.0018	0.001271
Sr	88	3	He	263.787	2.1685	112676.95	0.0082	0.00114
Sr	88	3	He	261.567	2.1502	113141.85	0.0082	0.00114
Sr	88	3	He	266.87	2.1938	115569.41	0.0082	0.00114
Mo	98	3	He	8.512	0.1523	7912.24	0.0177	0.001504
Mo	98	3	He	8.791	0.1572	8272.50	0.0177	0.001504
Mo	98	3	He	8.523	0.1525	8032.25	0.0177	0.001504
Ag	107	3	He	1.393	0.0525	2730.32	0.0368	0.001325
Ag	107	3	He	1.246	0.0471	2480.30	0.0368	0.001325
Ag	107	3	He	1.311	0.0496	2610.33	0.0368	0.001325
Cd	111	3	He	3.047	0.0125	652.02	0.0041	4.798E-05
Cd	111	3	He	3.074	0.0127	666.02	0.0041	4.798E-05
Cd	111	3	He	2.987	0.0123	648.02	0.0041	4.798E-05
Sn	120	3	He	11.379	0.1542	8012.27	0.0126	0.01097
Sn	120	3	He	10.29	0.1405	7391.99	0.0126	0.01097
Sn	120	3	He	9.869	0.1352	7121.84	0.0126	0.01097
Sb	121	3	He	8.531	0.1031	5358.32	0.012	0.0003595
Sb	121	3	He	8.165	0.0987	5194.26	0.012	0.0003595
Sb	121	3	He	7.541	0.0912	4804.13	0.012	0.0003595
Ba	137	3	He	110.334	0.4308	22387.21	0.0039	0.0003633
Ba	137	3	He	104.369	0.4076	21445.64	0.0039	0.0003633
Ba	137	3	He	103.176	0.4029	21225.55	0.0039	0.0003633
Tl	205	3	He	-0.003	0.0013	240.01	0.0189	0.001334
Tl	205	3	He	-0.015	0.001	200.01	0.0189	0.001334
Tl	205	3	He	-0.012	0.0011	210.01	0.0189	0.001334
Pb	208	3	He	37.831	0.9532	96176.30	0.0252	0.001497
Pb	208	3	He	37.447	0.9436	96971.18	0.0252	0.001497
Pb	208	3	He	38.024	0.9581	97142.00	0.0252	0.001497
U	238	3	He	0.482	0.0119	2250.27	0.0245	0.0001141
U	238	3	He	0.455	0.0113	2150.26	0.0245	0.0001141
U	238	3	He	0.478	0.0118	2250.26	0.0245	0.0001141
Sc	45	1	No Gas			1666930.91		
Sc	45	1	No Gas			1633766.54		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1665784.51		
Ge	72	1	No Gas			842528.97		
Ge	72	1	No Gas			835866.71		
Ge	72	1	No Gas			850764.28		
Sc	45	2	H2			132402.25		
Sc	45	2	H2			135697.01		
Sc	45	2	H2			132734.26		
Ge	72	2	H2			100613.02		
Ge	72	2	H2			103682.87		
Ge	72	2	H2			99456.92		
In	115	2	H2			240581.52		
In	115	2	H2			244359.74		
In	115	2	H2			245162.05		
Sc	45	3	He			37914.66		
Sc	45	3	He			38485.45		
Sc	45	3	He			38135.01		
Ge	72	3	He			66728.73		
Ge	72	3	He			65613.90		
Ge	72	3	He			66960.37		
In	115	3	He			52017.56		
In	115	3	He			52670.17		
In	115	3	He			52729.80		
Tb	159	3	He			188421.74		
Tb	159	3	He			190621.46		
Tb	159	3	He			190053.04		
Bi	209	3	He			140783.49		
Bi	209	3	He			141165.91		
Bi	209	3	He			139090.25		

Quantitation Report

Data File Name	360SMPL.d
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Acq Time	7/10/2025 11:15:18 PM
Sample Name	400-278790-G-3-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

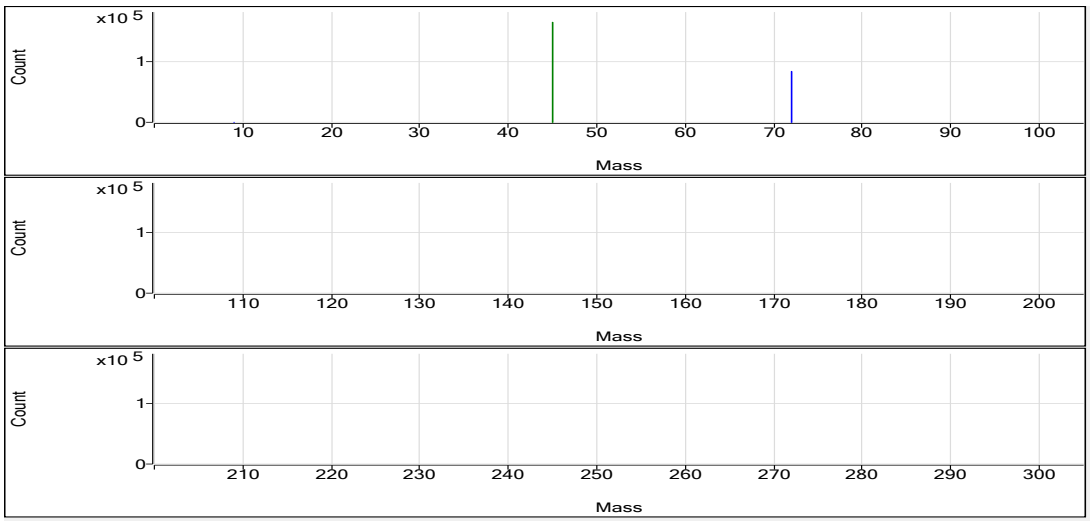
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	0.118	ppb	44.3	108.67	0.0001	Pulse	0.5000	3
Se	78	72	H2	0.749	ppb	16.9	35.33	0.0004	Pulse	1.5000	3
Na	23	45	He	32363.574	ppb	2.5	3168400.89	81.4236	Analog	0.1000	3
Mg	24	45	He	12445.610	ppb	2.1	587456.37	15.0963	Pulse	0.1000	3
Al	27	45	He	3225.744	ppb	2.5	47541.89	1.2218	Pulse	0.1000	3
K	39	45	He	38131.765	ppb	2.8	1493915.38	38.3937	Analog	0.5000	3
Ca	44	45	He	254013.352	ppb	1.9	520515.91	13.3756	Pulse	0.5000	3
Ti	47	45	He	117.371	ppb	20.5	1888.69	0.0485	Pulse	0.5000	3
V	51	45	He	10.038	ppb	2.5	7885.94	0.2026	Pulse	0.5000	3
Cr	52	45	He	29.655	ppb	17.9	26978.06	0.6949	Pulse	0.1000	3
Mn	55	45	He	511.356	ppb	2.4	181778.02	4.6715	Pulse	0.5000	3
Fe	57	45	He	4986.003	ppb	2.8	77802.96	1.9995	Pulse	0.1000	3
Co	59	45	He	3.278	ppb	2.8	5500.29	0.1413	Pulse	0.5000	3
Ni	60	45	He	13.321	ppb	3.1	6544.02	0.1682	Pulse	0.5000	3
Cu	63	72	He	96.625	ppb	0.6	129953.14	1.9046	Pulse	0.5000	3
Zn	66	72	He	444.973	ppb	1.1	69191.89	1.0141	Pulse	0.5000	3
As	75	72	He	48.838	ppb	2.8	6221.23	0.0912	Pulse	0.5000	3
Sr	88	115	He	667.975	ppb	1.5	284961.15	5.4894	Pulse	0.1000	3
Mo	98	115	He	16.393	ppb	1.9	15151.06	0.2919	Pulse	0.1000	3
Ag	107	115	He	0.589	ppb	20.5	1193.41	0.0230	Pulse	0.1000	3
Cd	111	115	He	0.573	ppb	10.7	124.67	0.0024	Pulse	0.5000	3
Sn	120	115	He	1.598	ppb	17.7	1613.47	0.0311	Pulse	0.1000	3
Sb	121	115	He	3.403	ppb	0.9	2146.84	0.0413	Pulse	0.3000	3
Ba	137	115	He	137.139	ppb	0.9	27795.86	0.5354	Pulse	0.1000	3
Tl	205	159	He	0.010	ppb	216.0	290.01	0.0015	Pulse	0.1000	3
Pb	208	159	He	93.880	ppb	0.5	447649.80	2.3633	Pulse	0.1000	3
U	238	159	He	0.893	ppb	3.4	4174.09	0.0220	Pulse	0.1000	3

ISTD Table:

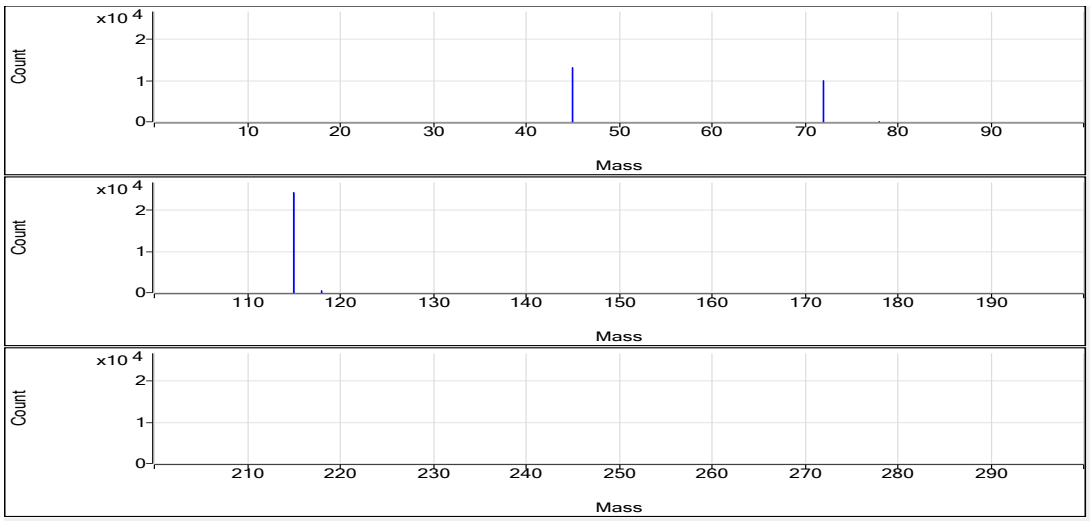
Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1657622.68	1.7	97.0	Analog	0.1000	3
No Gas	Ge	72	843649.31	0.9	97.7	Pulse	0.1000	3
H2	Sc	45	131459.38	1.0	98.4	Pulse	0.1000	3
H2	Ge	72	99802.25	1.3	100.7	Pulse	0.1000	3
H2	In	115	242819.75	0.7	94.6	Pulse	0.1000	3
He	Sc	45	38926.91	2.4	98.6	Pulse	0.1000	3
He	Ge	72	68231.96	0.6	100.2	Pulse	0.1000	3
He	In	115	51916.07	0.9	93.7	Pulse	0.1000	3
He	Tb	159	189424.50	0.8	92.5	Pulse	0.1000	3
He	Bi	209	143699.14	0.3	95.0	Pulse	0.1000	3

No Gas

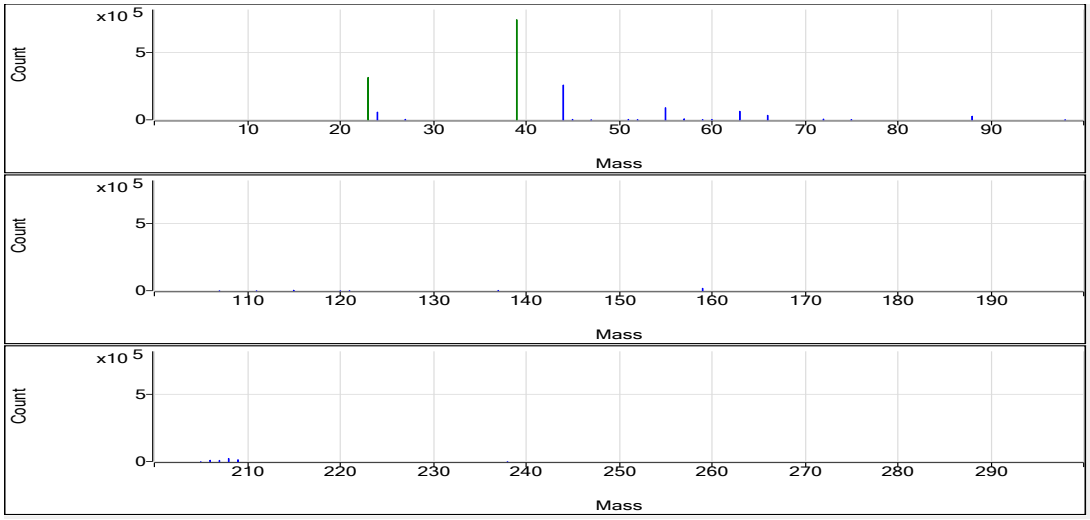


H2



Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	0.091	0.0001	96.00	0.0003	2.616E-05
Be	9	1	No Gas	0.084	0.0001	90.00	0.0003	2.616E-05
Be	9	1	No Gas	0.178	0.0001	140.00	0.0003	2.616E-05
Se	78	2	H2	0.874	0.0004	40.67	0.0004	6.3E-05
Se	78	2	H2	0.62	0.0003	30.00	0.0004	6.3E-05
Se	78	2	H2	0.754	0.0004	35.33	0.0004	6.3E-05
Na	23	3	He	32184.806	80.978	3195239.64	0.0025	0.7502
Na	23	3	He	33247.307	83.6265	3166483.08	0.0025	0.7502
Na	23	3	He	31658.609	79.6664	3143479.95	0.0025	0.7502
Mg	24	3	He	12297.66	14.9171	588600.97	0.0012	0.02618
Mg	24	3	He	12747.883	15.4623	585472.34	0.0012	0.02618
Mg	24	3	He	12291.289	14.9094	588295.81	0.0012	0.02618
Al	27	3	He	3213.442	1.2171	48025.34	0.0004	0.005329
Al	27	3	He	3313.173	1.2547	47509.85	0.0004	0.005329
Al	27	3	He	3150.617	1.1934	47090.47	0.0004	0.005329
K	39	3	He	37330.201	37.5978	1483536.88	0.001	0.5307
K	39	3	He	39330.427	39.5839	1498827.25	0.001	0.5307
K	39	3	He	37734.668	37.9994	1499382.00	0.001	0.5307
Ca	44	3	He	250831.386	13.2081	521165.88	0.0001	0.004441
Ca	44	3	He	259522.168	13.6656	517440.50	0.0001	0.004441
Ca	44	3	He	251686.502	13.2531	522941.34	0.0001	0.004441
Ti	47	3	He	144.998	0.0598	2357.85	0.0004	0.0004559
Ti	47	3	He	106.348	0.0439	1664.11	0.0004	0.0004559
Ti	47	3	He	100.768	0.0417	1644.10	0.0004	0.0004559
V	51	3	He	9.836	0.1991	7855.93	0.0176	0.02609
V	51	3	He	10.315	0.2075	7857.93	0.0176	0.02609
V	51	3	He	9.963	0.2013	7943.95	0.0176	0.02609
Cr	52	3	He	26.869	0.6343	25029.66	0.0217	0.05061
Cr	52	3	He	35.764	0.8276	31335.62	0.0217	0.05061
Cr	52	3	He	26.332	0.6227	24568.91	0.0217	0.05061
Mn	55	3	He	502.19	4.5879	181031.44	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	525.507	4.8005	181767.78	0.0091	0.01071
Mn	55	3	He	506.371	4.626	182534.84	0.0091	0.01071
Fe	57	3	He	4889.902	1.9612	77384.15	0.0004	0.008452
Fe	57	3	He	5143.109	2.0623	78087.63	0.0004	0.008452
Fe	57	3	He	4924.999	1.9752	77937.09	0.0004	0.008452
Co	59	3	He	3.276	0.1413	5574.98	0.0413	0.006013
Co	59	3	He	3.369	0.1451	5494.96	0.0413	0.006013
Co	59	3	He	3.188	0.1376	5430.94	0.0413	0.006013
Ni	60	3	He	13.294	0.1679	6623.39	0.0117	0.01172
Ni	60	3	He	13.743	0.1731	6555.35	0.0117	0.01172
Ni	60	3	He	12.927	0.1635	6453.31	0.0117	0.01172
Cu	63	3	He	95.976	1.8919	129894.12	0.0196	0.01443
Cu	63	3	He	97.197	1.9158	129918.19	0.0196	0.01443
Cu	63	3	He	96.703	1.9062	130047.12	0.0196	0.01443
Zn	66	3	He	440.25	1.0034	68889.36	0.0023	0.002807
Zn	66	3	He	449.742	1.025	69505.70	0.0023	0.002807
Zn	66	3	He	444.927	1.014	69180.61	0.0023	0.002807
As	75	3	He	49.454	0.0923	6337.28	0.0018	0.001271
As	75	3	He	47.257	0.0883	5985.14	0.0018	0.001271
As	75	3	He	49.803	0.0929	6341.28	0.0018	0.001271
Sr	88	3	He	659.459	5.4194	283316.48	0.0082	0.00114
Sr	88	3	He	665.596	5.4698	284841.32	0.0082	0.00114
Sr	88	3	He	678.87	5.5789	286725.64	0.0082	0.00114
Mo	98	3	He	16.036	0.2855	14927.51	0.0177	0.001504
Mo	98	3	He	16.512	0.294	15307.91	0.0177	0.001504
Mo	98	3	He	16.632	0.2961	15217.77	0.0177	0.001504
Ag	107	3	He	0.5	0.0197	1030.06	0.0368	0.001325
Ag	107	3	He	0.726	0.028	1460.11	0.0368	0.001325
Ag	107	3	He	0.541	0.0212	1090.07	0.0368	0.001325
Cd	111	3	He	0.548	0.0023	120.00	0.0041	4.798E-05
Cd	111	3	He	0.644	0.0027	140.00	0.0041	4.798E-05
Cd	111	3	He	0.529	0.0022	114.00	0.0041	4.798E-05
Sn	120	3	He	1.348	0.0279	1460.11	0.0126	0.01097
Sn	120	3	He	1.906	0.035	1820.16	0.0126	0.01097
Sn	120	3	He	1.541	0.0304	1560.13	0.0126	0.01097
Sb	121	3	He	3.422	0.0416	2173.51	0.012	0.0003595
Sb	121	3	He	3.419	0.0415	2163.51	0.012	0.0003595
Sb	121	3	He	3.368	0.0409	2103.49	0.012	0.0003595
Ba	137	3	He	135.838	0.5303	27725.73	0.0039	0.0003633
Ba	137	3	He	137.404	0.5365	27936.15	0.0039	0.0003633
Ba	137	3	He	138.175	0.5395	27725.70	0.0039	0.0003633
Tl	205	3	He	-0.009	0.0012	220.01	0.0189	0.001334
Tl	205	3	He	0.005	0.0014	270.01	0.0189	0.001334
Tl	205	3	He	0.035	0.002	380.02	0.0189	0.001334
Pb	208	3	He	93.951	2.365	238635.17	0.0252	0.001497
Pb	208	3	He	94.301	2.3738	239312.67	0.0252	0.001497
Pb	208	3	He	93.389	2.3509	238042.22	0.0252	0.001497
U	238	3	He	0.86	0.0212	4020.72	0.0245	0.0001141
U	238	3	He	0.899	0.0222	4170.76	0.0245	0.0001141
U	238	3	He	0.919	0.0227	4330.80	0.0245	0.0001141
Sc	45	1	No Gas			1687056.85		
Sc	45	1	No Gas			1656115.76		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629695.44		
Ge	72	1	No Gas			852152.64		
Ge	72	1	No Gas			841941.86		
Ge	72	1	No Gas			836853.43		
Sc	45	2	H2			132671.96		
Sc	45	2	H2			131674.30		
Sc	45	2	H2			130031.89		
Ge	72	2	H2			101218.15		
Ge	72	2	H2			98832.60		
Ge	72	2	H2			99355.99		
In	115	2	H2			244349.80		
In	115	2	H2			243223.82		
In	115	2	H2			240885.62		
Sc	45	3	He			39458.11		
Sc	45	3	He			37864.57		
Sc	45	3	He			39458.06		
Ge	72	3	He			68657.36		
Ge	72	3	He			67813.63		
Ge	72	3	He			68224.89		
In	115	3	He			52288.45		
In	115	3	He			52087.83		
In	115	3	He			51405.80		
Tb	159	3	He			189395.11		
Tb	159	3	He			187956.27		
Tb	159	3	He			190922.11		
Bi	209	3	He			144146.98		
Bi	209	3	He			143752.92		
Bi	209	3	He			143197.52		

Quantitation Report

Data File Name	361SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 11:17:30 PM
Sample Name	410-231035-AE-1-A
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

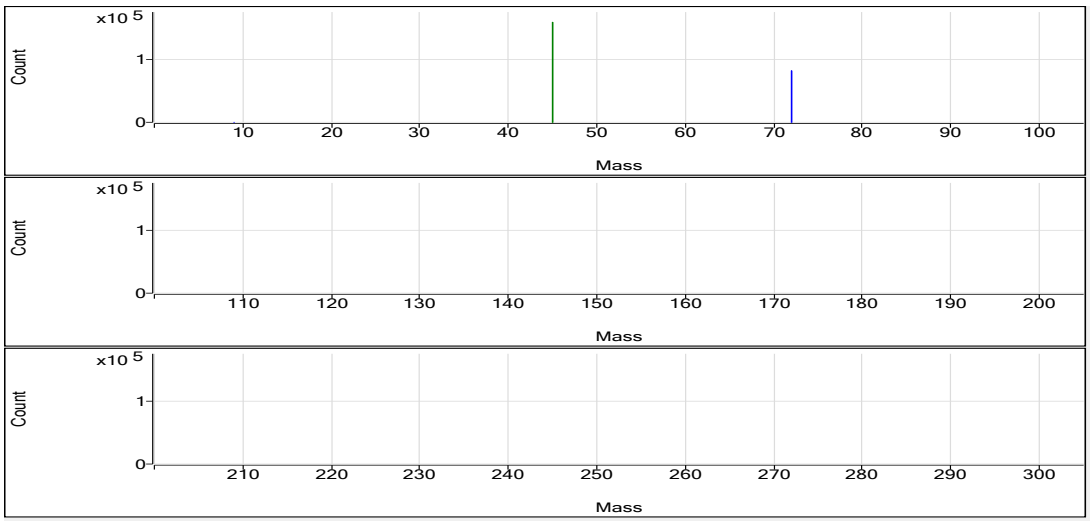
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.032	ppb	N/A	24.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.046	ppb	135.8	8.00	0.0001	Pulse	1.5000	3
Na	23	45	He	23862.267	ppb	1.5	2331685.85	60.2322	Analog	0.1000	3
Mg	24	45	He	8482.624	ppb	1.8	398638.25	10.2976	Pulse	0.1000	3
Al	27	45	He	3.781	ppb	283.1	260.03	0.0068	Pulse	0.1000	3
K	39	45	He	2319.146	ppb	5.5	109654.03	2.8335	Pulse	0.5000	3
Ca	44	45	He	35035.936	ppb	0.8	71570.27	1.8487	Pulse	0.5000	3
Ti	47	45	He	-0.904	ppb	N/A	3.33	0.0001	Pulse	0.5000	3
V	51	45	He	0.042	ppb	86.9	1038.71	0.0268	Pulse	0.5000	3
Cr	52	45	He	-0.661	ppb	N/A	1403.44	0.0363	Pulse	0.1000	3
Mn	55	45	He	14.712	ppb	2.8	5605.00	0.1448	Pulse	0.5000	3
Fe	57	45	He	-1.130	ppb	N/A	310.01	0.0080	Pulse	0.1000	3
Co	59	45	He	-0.047	ppb	N/A	157.33	0.0041	Pulse	0.5000	3
Ni	60	45	He	0.435	ppb	4.4	651.35	0.0168	Pulse	0.5000	3
Cu	63	72	He	12.893	ppb	0.7	17659.62	0.2667	Pulse	0.5000	3
Zn	66	72	He	40.046	ppb	3.4	6212.56	0.0938	Pulse	0.5000	3
As	75	72	He	1.229	ppb	6.8	234.00	0.0035	Pulse	0.5000	3
Sr	88	115	He	1178.778	ppb	2.2	505514.82	9.6862	Pulse	0.1000	3
Mo	98	115	He	0.760	ppb	20.2	780.04	0.0150	Pulse	0.1000	3
Ag	107	115	He	-0.014	ppb	N/A	43.33	0.0008	Pulse	0.1000	3
Cd	111	115	He	0.029	ppb	16.9	8.67	0.0002	Pulse	0.5000	3
Sn	120	115	He	0.032	ppb	538.9	593.37	0.0114	Pulse	0.1000	3
Sb	121	115	He	0.200	ppb	10.5	144.45	0.0028	Pulse	0.3000	3
Ba	137	115	He	187.316	ppb	4.0	38161.68	0.7312	Pulse	0.1000	3
Tl	205	159	He	-0.039	ppb	N/A	110.00	0.0006	Pulse	0.1000	3
Pb	208	159	He	1.520	ppb	2.6	7451.00	0.0397	Pulse	0.1000	3
U	238	159	He	5.395	ppb	2.0	24845.60	0.1325	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1598427.16	2.9	93.6	Analog	0.1000	3
No Gas	Ge	72	823757.75	2.0	95.4	Pulse	0.1000	3
H2	Sc	45	131600.57	1.5	98.5	Pulse	0.1000	3
H2	Ge	72	98776.01	0.2	99.7	Pulse	0.1000	3
H2	In	115	242104.22	0.9	94.3	Pulse	0.1000	3
He	Sc	45	38716.58	1.5	98.1	Pulse	0.1000	3
He	Ge	72	66229.96	0.9	97.2	Pulse	0.1000	3
He	In	115	52203.84	1.9	94.2	Pulse	0.1000	3
He	Tb	159	187444.23	0.3	91.5	Pulse	0.1000	3
He	Bi	209	138600.74	0.4	91.6	Pulse	0.1000	3

No Gas



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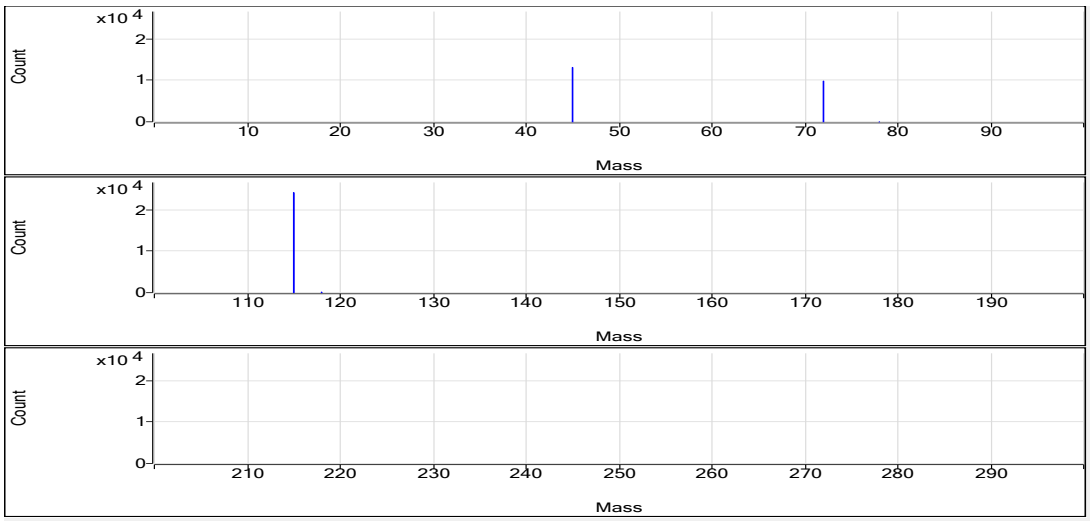
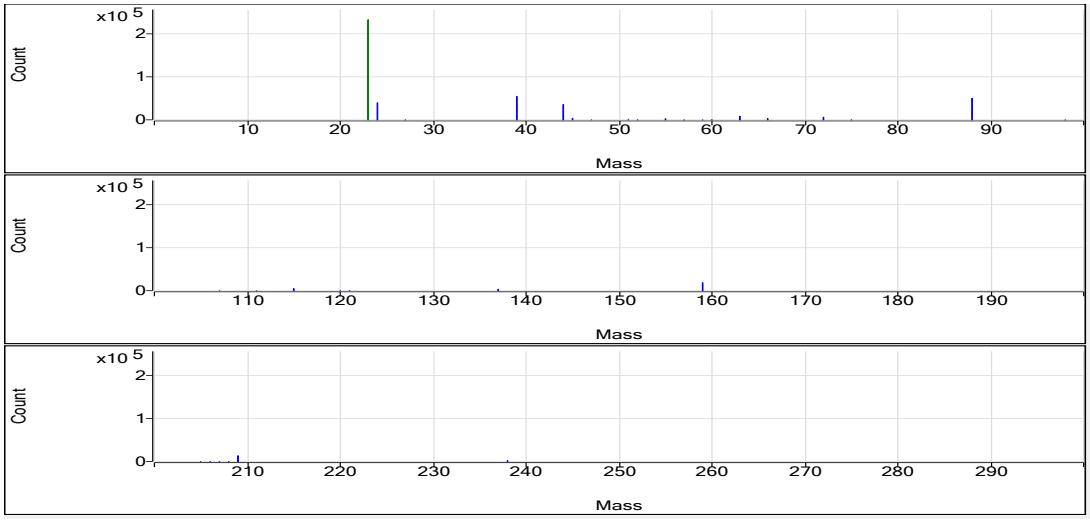


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.016	0	32.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.049	0	16.00	0.0003	2.616E-05
Se	78	2	H2	0.099	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	-0.023	0.0001	5.33	0.0004	6.3E-05
Se	78	2	H2	0.064	0.0001	8.67	0.0004	6.3E-05
Na	23	3	He	24246.982	61.1912	2329249.81	0.0025	0.7502
Na	23	3	He	23532.603	59.4105	2316272.78	0.0025	0.7502
Na	23	3	He	23807.217	60.095	2349534.96	0.0025	0.7502
Mg	24	3	He	8592.222	10.4303	397029.96	0.0012	0.02618
Mg	24	3	He	8552.72	10.3825	404787.26	0.0012	0.02618
Mg	24	3	He	8302.93	10.08	394097.53	0.0012	0.02618
Al	27	3	He	15.828	0.0113	430.06	0.0004	0.005329
Al	27	3	He	0.152	0.0054	210.01	0.0004	0.005329
Al	27	3	He	-4.636	0.0036	140.01	0.0004	0.005329
K	39	3	He	2464.564	2.9779	113352.41	0.001	0.5307
K	39	3	He	2272.685	2.7873	108671.33	0.001	0.5307
K	39	3	He	2220.19	2.7352	106938.34	0.001	0.5307
Ca	44	3	He	35358.482	1.8657	71017.82	0.0001	0.004441
Ca	44	3	He	34936.904	1.8435	71873.76	0.0001	0.004441
Ca	44	3	He	34812.422	1.8369	71819.23	0.0001	0.004441
Ti	47	3	He	-0.858	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.864	0.0001	4.00	0.0004	0.0004559
Ti	47	3	He	-0.99	0.0001	2.00	0.0004	0.0004559
V	51	3	He	0.028	0.0266	1012.04	0.0176	0.02609
V	51	3	He	0.083	0.0275	1074.04	0.0176	0.02609
V	51	3	He	0.014	0.0263	1030.04	0.0176	0.02609
Cr	52	3	He	-0.6	0.0376	1430.10	0.0217	0.05061
Cr	52	3	He	-0.736	0.0346	1350.11	0.0217	0.05061
Cr	52	3	He	-0.646	0.0366	1430.10	0.0217	0.05061
Mn	55	3	He	15.136	0.1487	5659.02	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	14.682	0.1445	5635.01	0.0091	0.01071
Mn	55	3	He	14.318	0.1412	5520.96	0.0091	0.01071
Fe	57	3	He	-2.745	0.0074	280.01	0.0004	0.008452
Fe	57	3	He	-2.539	0.0074	290.01	0.0004	0.008452
Fe	57	3	He	1.893	0.0092	360.02	0.0004	0.008452
Co	59	3	He	-0.041	0.0043	164.00	0.0413	0.006013
Co	59	3	He	-0.044	0.0042	164.00	0.0413	0.006013
Co	59	3	He	-0.056	0.0037	144.00	0.0413	0.006013
Ni	60	3	He	0.425	0.0167	636.02	0.0117	0.01172
Ni	60	3	He	0.457	0.0171	666.02	0.0117	0.01172
Ni	60	3	He	0.422	0.0167	652.02	0.0117	0.01172
Cu	63	3	He	12.978	0.2683	17707.67	0.0196	0.01443
Cu	63	3	He	12.905	0.2669	17551.50	0.0196	0.01443
Cu	63	3	He	12.796	0.2648	17719.70	0.0196	0.01443
Zn	66	3	He	40.282	0.0944	6227.23	0.0023	0.002807
Zn	66	3	He	41.285	0.0966	6355.28	0.0023	0.002807
Zn	66	3	He	38.572	0.0905	6055.16	0.0023	0.002807
As	75	3	He	1.17	0.0034	226.00	0.0018	0.001271
As	75	3	He	1.325	0.0037	244.00	0.0018	0.001271
As	75	3	He	1.193	0.0035	232.00	0.0018	0.001271
Sr	88	3	He	1156.869	9.5062	503597.49	0.0082	0.00114
Sr	88	3	He	1208.264	9.9285	507250.03	0.0082	0.00114
Sr	88	3	He	1171.2	9.624	505696.95	0.0082	0.00114
Mo	98	3	He	0.714	0.0142	750.04	0.0177	0.001504
Mo	98	3	He	0.932	0.018	920.06	0.0177	0.001504
Mo	98	3	He	0.635	0.0128	670.03	0.0177	0.001504
Ag	107	3	He	-0.005	0.0011	60.00	0.0368	0.001325
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	-0.015	0.0008	40.00	0.0368	0.001325
Cd	111	3	He	0.034	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	0.026	0.0002	8.00	0.0041	4.798E-05
Cd	111	3	He	0.025	0.0002	8.00	0.0041	4.798E-05
Sn	120	3	He	0.194	0.0134	710.04	0.0126	0.01097
Sn	120	3	He	0.046	0.0115	590.04	0.0126	0.01097
Sn	120	3	He	-0.145	0.0091	480.02	0.0126	0.01097
Sb	121	3	He	0.216	0.003	156.67	0.012	0.0003595
Sb	121	3	He	0.176	0.0025	126.67	0.012	0.0003595
Sb	121	3	He	0.207	0.0029	150.00	0.012	0.0003595
Ba	137	3	He	189.957	0.7415	39281.21	0.0039	0.0003633
Ba	137	3	He	193.146	0.7539	38519.11	0.0039	0.0003633
Ba	137	3	He	178.847	0.6982	36684.71	0.0039	0.0003633
Tl	205	3	He	-0.039	0.0006	110.00	0.0189	0.001334
Tl	205	3	He	-0.034	0.0007	130.00	0.0189	0.001334
Tl	205	3	He	-0.045	0.0005	90.00	0.0189	0.001334
Pb	208	3	He	1.494	0.0391	3990.66	0.0252	0.001497
Pb	208	3	He	1.567	0.0409	4220.79	0.0252	0.001497
Pb	208	3	He	1.5	0.0392	3900.63	0.0252	0.001497
U	238	3	He	5.497	0.135	25293.05	0.0245	0.0001141
U	238	3	He	5.407	0.1328	24972.47	0.0245	0.0001141
U	238	3	He	5.281	0.1297	24271.29	0.0245	0.0001141
Sc	45	1	No Gas			1547508.88		
Sc	45	1	No Gas			1608398.41		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1639374.19		
Ge	72	1	No Gas			808151.55		
Ge	72	1	No Gas			821802.88		
Ge	72	1	No Gas			841318.82		
Sc	45	2	H2			130183.52		
Sc	45	2	H2			133911.98		
Sc	45	2	H2			130706.21		
Ge	72	2	H2			98591.29		
Ge	72	2	H2			98873.56		
Ge	72	2	H2			98863.17		
In	115	2	H2			244329.51		
In	115	2	H2			241727.07		
In	115	2	H2			240256.07		
Sc	45	3	He			38065.10		
Sc	45	3	He			38987.62		
Sc	45	3	He			39097.01		
Ge	72	3	He			65995.37		
Ge	72	3	He			65764.73		
Ge	72	3	He			66929.77		
In	115	3	He			52980.56		
In	115	3	He			51094.47		
In	115	3	He			52548.94		
Tb	159	3	He			187289.12		
Tb	159	3	He			187979.45		
Tb	159	3	He			187064.12		
Bi	209	3	He			139209.94		
Bi	209	3	He			138026.63		
Bi	209	3	He			138565.65		

Quantitation Report

Data File Name	362SMPL.d
Acq/Data Batch	C:\Agilent\ICPMH\1\DATA\25G10A00.b
Acq Time	7/10/2025 11:19:43 PM
Sample Name	410-231035-T-1-A DU
Sample Type	Sample
Comment	C4
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

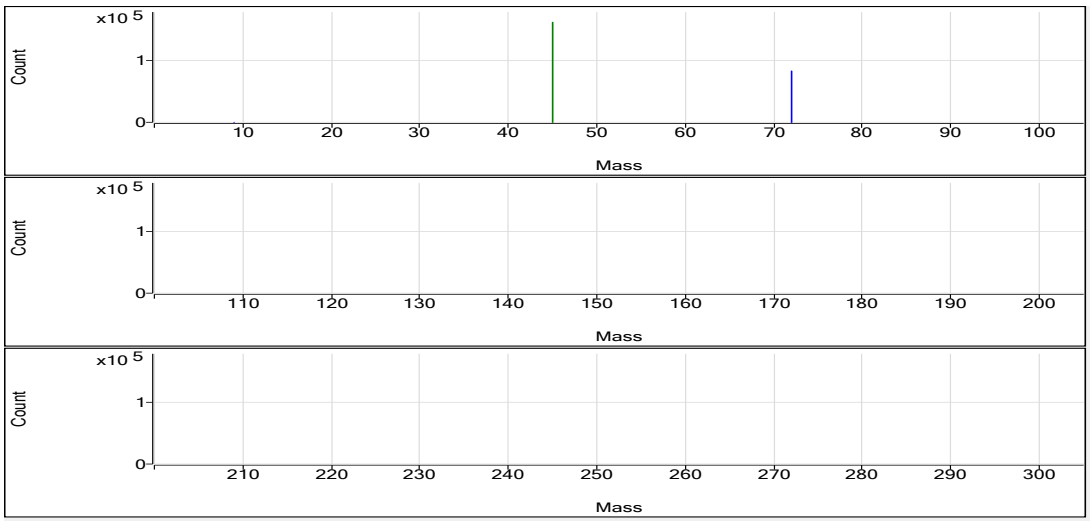
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.028	ppb	N/A	27.33	0.0000	Pulse	0.5000	3
Se	78	72	H2	0.114	ppb	15.1	10.44	0.0001	Pulse	1.5000	3
Na	23	45	He	23244.770	ppb	3.0	2262887.67	58.6930	Analog	0.1000	3
Mg	24	45	He	8508.535	ppb	1.6	398295.95	10.3290	Pulse	0.1000	3
Al	27	45	He	-1.736	ppb	N/A	180.01	0.0047	Pulse	0.1000	3
K	39	45	He	2316.383	ppb	2.3	109159.31	2.8307	Pulse	0.5000	3
Ca	44	45	He	34881.778	ppb	1.8	70973.16	1.8406	Pulse	0.5000	3
Ti	47	45	He	-0.862	ppb	N/A	4.00	0.0001	Pulse	0.5000	3
V	51	45	He	0.083	ppb	82.1	1062.71	0.0276	Pulse	0.5000	3
Cr	52	45	He	-0.873	ppb	N/A	1220.09	0.0316	Pulse	0.1000	3
Mn	55	45	He	14.538	ppb	4.7	5520.96	0.1432	Pulse	0.5000	3
Fe	57	45	He	-5.331	ppb	N/A	243.34	0.0063	Pulse	0.1000	3
Co	59	45	He	-0.063	ppb	N/A	132.00	0.0034	Pulse	0.5000	3
Ni	60	45	He	-0.123	ppb	N/A	396.01	0.0103	Pulse	0.5000	3
Cu	63	72	He	5.742	ppb	3.5	8358.86	0.1268	Pulse	0.5000	3
Zn	66	72	He	9.674	ppb	3.1	1635.43	0.0248	Pulse	0.5000	3
As	75	72	He	1.329	ppb	6.4	245.33	0.0037	Pulse	0.5000	3
Sr	88	115	He	1181.941	ppb	1.1	504472.02	9.7122	Pulse	0.1000	3
Mo	98	115	He	0.643	ppb	14.0	670.04	0.0129	Pulse	0.1000	3
Ag	107	115	He	-0.027	ppb	N/A	16.67	0.0003	Pulse	0.1000	3
Cd	111	115	He	0.013	ppb	147.7	5.33	0.0001	Pulse	0.5000	3
Sn	120	115	He	0.118	ppb	116.5	646.71	0.0124	Pulse	0.1000	3
Sb	121	115	He	0.197	ppb	8.6	142.22	0.0027	Pulse	0.3000	3
Ba	137	115	He	187.334	ppb	0.6	37984.63	0.7313	Pulse	0.1000	3
Tl	205	159	He	-0.031	ppb	N/A	140.01	0.0007	Pulse	0.1000	3
Pb	208	159	He	1.678	ppb	3.5	8177.91	0.0437	Pulse	0.1000	3
U	238	159	He	5.602	ppb	2.5	25750.54	0.1376	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1626382.42	0.7	95.2	Analog	0.1000	3
No Gas	Ge	72	834644.52	0.5	96.6	Pulse	0.1000	3
H2	Sc	45	129105.29	2.8	96.6	Pulse	0.1000	3
H2	Ge	72	97300.36	1.1	98.2	Pulse	0.1000	3
H2	In	115	242086.32	0.2	94.3	Pulse	0.1000	3
He	Sc	45	38566.23	1.6	97.7	Pulse	0.1000	3
He	Ge	72	65969.07	2.0	96.9	Pulse	0.1000	3
He	In	115	51946.05	1.1	93.8	Pulse	0.1000	3
He	Tb	159	187082.22	0.1	91.4	Pulse	0.1000	3
He	Bi	209	139494.37	1.0	92.2	Pulse	0.1000	3

No Gas



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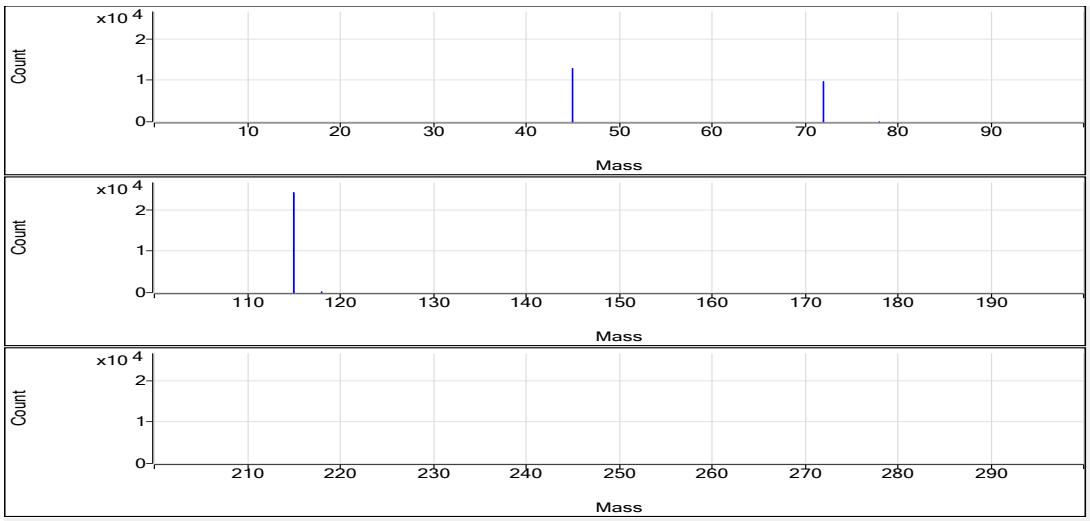
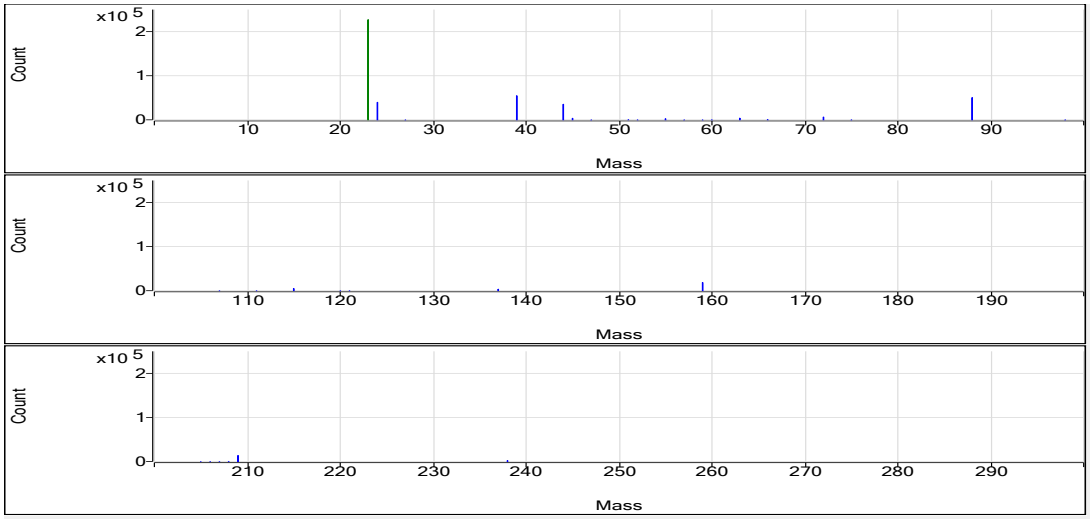


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.026	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.027	0	28.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.03	0	26.00	0.0003	2.616E-05
Se	78	2	H2	0.105	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	0.104	0.0001	10.00	0.0004	6.3E-05
Se	78	2	H2	0.134	0.0001	11.33	0.0004	6.3E-05
Na	23	3	He	22576.749	57.0278	2224513.72	0.0025	0.7502
Na	23	3	He	23986.026	60.5407	2293555.12	0.0025	0.7502
Na	23	3	He	23171.535	58.5104	2270594.18	0.0025	0.7502
Mg	24	3	He	8352.319	10.1398	395528.51	0.0012	0.02618
Mg	24	3	He	8616.597	10.4598	396264.41	0.0012	0.02618
Mg	24	3	He	8556.688	10.3873	403094.92	0.0012	0.02618
Al	27	3	He	-5.295	0.0033	130.00	0.0004	0.005329
Al	27	3	He	-0.132	0.0053	200.01	0.0004	0.005329
Al	27	3	He	0.218	0.0054	210.01	0.0004	0.005329
K	39	3	He	2337.266	2.8515	111228.27	0.001	0.5307
K	39	3	He	2356.621	2.8707	108754.04	0.001	0.5307
K	39	3	He	2255.263	2.77	107495.63	0.001	0.5307
Ca	44	3	He	34203.935	1.8049	70405.45	0.0001	0.004441
Ca	44	3	He	35467.098	1.8714	70897.48	0.0001	0.004441
Ca	44	3	He	34974.3	1.8455	71616.55	0.0001	0.004441
Ti	47	3	He	-0.739	0.0002	6.00	0.0004	0.0004559
Ti	47	3	He	-0.986	0.0001	2.00	0.0004	0.0004559
Ti	47	3	He	-0.863	0.0001	4.00	0.0004	0.0004559
V	51	3	He	0.114	0.0281	1096.04	0.0176	0.02609
V	51	3	He	0.131	0.0284	1076.04	0.0176	0.02609
V	51	3	He	0.005	0.0262	1016.04	0.0176	0.02609
Cr	52	3	He	-0.713	0.0351	1370.11	0.0217	0.05061
Cr	52	3	He	-0.799	0.0333	1260.10	0.0217	0.05061
Cr	52	3	He	-1.108	0.0265	1030.07	0.0217	0.05061
Mn	55	3	He	14.089	0.1391	5426.92	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	15.318	0.1503	5695.01	0.0091	0.01071
Mn	55	3	He	14.208	0.1402	5440.94	0.0091	0.01071
Fe	57	3	He	-3.832	0.0069	270.01	0.0004	0.008452
Fe	57	3	He	-0.674	0.0082	310.01	0.0004	0.008452
Fe	57	3	He	-11.486	0.0039	150.01	0.0004	0.008452
Co	59	3	He	-0.064	0.0034	132.00	0.0413	0.006013
Co	59	3	He	-0.054	0.0038	144.00	0.0413	0.006013
Co	59	3	He	-0.071	0.0031	120.00	0.0413	0.006013
Ni	60	3	He	-0.072	0.0109	424.01	0.0117	0.01172
Ni	60	3	He	-0.134	0.0101	384.01	0.0117	0.01172
Ni	60	3	He	-0.164	0.0098	380.01	0.0117	0.01172
Cu	63	3	He	5.967	0.1312	8460.25	0.0196	0.01443
Cu	63	3	He	5.584	0.1237	8288.16	0.0196	0.01443
Cu	63	3	He	5.675	0.1254	8328.17	0.0196	0.01443
Zn	66	3	He	9.694	0.0248	1602.09	0.0023	0.002807
Zn	66	3	He	9.361	0.0241	1614.09	0.0023	0.002807
Zn	66	3	He	9.966	0.0255	1690.10	0.0023	0.002807
As	75	3	He	1.247	0.0036	230.00	0.0018	0.001271
As	75	3	He	1.417	0.0039	260.00	0.0018	0.001271
As	75	3	He	1.323	0.0037	246.00	0.0018	0.001271
Sr	88	3	He	1188.905	9.7694	502853.98	0.0082	0.00114
Sr	88	3	He	1189.385	9.7734	505785.50	0.0082	0.00114
Sr	88	3	He	1167.533	9.5938	504776.59	0.0082	0.00114
Mo	98	3	He	0.551	0.0113	580.03	0.0177	0.001504
Mo	98	3	He	0.646	0.0129	670.04	0.0177	0.001504
Mo	98	3	He	0.731	0.0144	760.05	0.0177	0.001504
Ag	107	3	He	-0.025	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.026	0.0004	20.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	0.036	0.0002	10.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Cd	111	3	He	0.007	0.0001	4.00	0.0041	4.798E-05
Sn	120	3	He	-0.007	0.0109	560.03	0.0126	0.01097
Sn	120	3	He	0.265	0.0143	740.04	0.0126	0.01097
Sn	120	3	He	0.095	0.0122	640.05	0.0126	0.01097
Sb	121	3	He	0.212	0.0029	150.00	0.012	0.0003595
Sb	121	3	He	0.179	0.0025	130.00	0.012	0.0003595
Sb	121	3	He	0.202	0.0028	146.67	0.012	0.0003595
Ba	137	3	He	188.168	0.7345	37807.22	0.0039	0.0003633
Ba	137	3	He	187.7	0.7327	37917.86	0.0039	0.0003633
Ba	137	3	He	186.134	0.7266	38228.82	0.0039	0.0003633
Tl	205	3	He	-0.028	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.028	0.0008	150.01	0.0189	0.001334
Tl	205	3	He	-0.037	0.0006	120.00	0.0189	0.001334
Pb	208	3	He	1.697	0.0442	4650.90	0.0252	0.001497
Pb	208	3	He	1.725	0.0449	4760.98	0.0252	0.001497
Pb	208	3	He	1.613	0.0421	4250.78	0.0252	0.001497
U	238	3	He	5.441	0.1337	24992.44	0.0245	0.0001141
U	238	3	He	5.709	0.1403	26224.67	0.0245	0.0001141
U	238	3	He	5.657	0.139	26034.51	0.0245	0.0001141
Sc	45	1	No Gas			1613956.54		
Sc	45	1	No Gas			1635909.19		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1629281.54		
Ge	72	1	No Gas			830164.52		
Ge	72	1	No Gas			834954.52		
Ge	72	1	No Gas			838814.52		
Sc	45	2	H2			126464.32		
Sc	45	2	H2			127704.34		
Sc	45	2	H2			133147.22		
Ge	72	2	H2			96417.70		
Ge	72	2	H2			96941.80		
Ge	72	2	H2			98541.57		
In	115	2	H2			241584.80		
In	115	2	H2			242307.48		
In	115	2	H2			242366.68		
Sc	45	3	He			39007.54		
Sc	45	3	He			37884.50		
Sc	45	3	He			38806.66		
Ge	72	3	He			64499.64		
Ge	72	3	He			67020.31		
Ge	72	3	He			66387.27		
In	115	3	He			51476.09		
In	115	3	He			51756.52		
In	115	3	He			52619.13		
Tb	159	3	He			186953.36		
Tb	159	3	He			186965.33		
Tb	159	3	He			187327.97		
Bi	209	3	He			139169.32		
Bi	209	3	He			138289.06		
Bi	209	3	He			141024.72		

Quantitation Report

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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

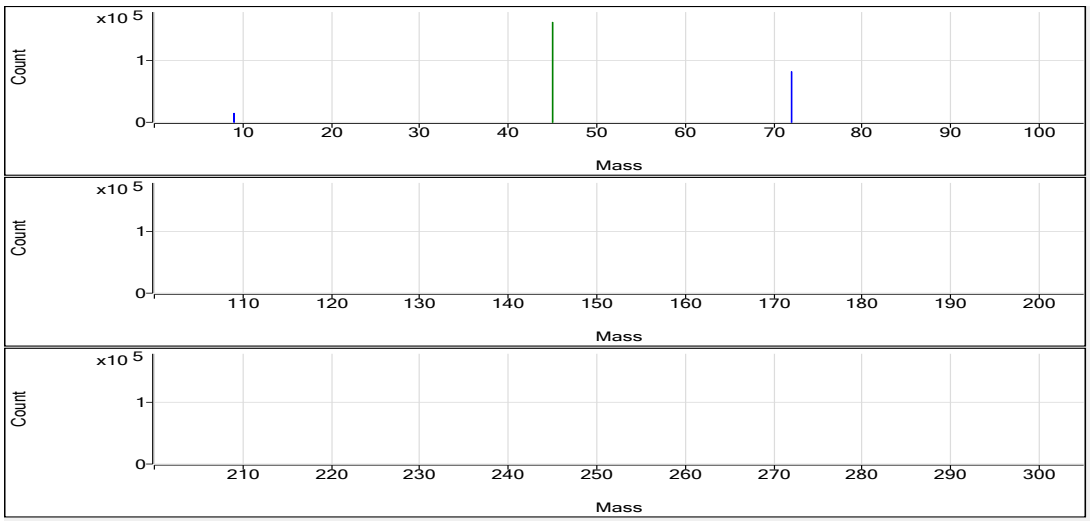
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	54.398	ppb	3.7	29947.77	0.0183	Pulse	0.5000	3
Se	78	72	H2	102.819	ppb	0.8	3891.81	0.0399	Pulse	1.5000	3
Na	23	45	He	27851.043	ppb	0.3	2775537.25	70.1751	Analog	0.1000	3
Mg	24	45	He	13497.832	ppb	1.4	647448.45	16.3704	Pulse	0.1000	3
Al	27	45	He	5317.252	ppb	2.5	79513.15	2.0105	Pulse	0.1000	3
K	39	45	He	7457.287	ppb	1.4	313845.72	7.9354	Pulse	0.5000	3
Ca	44	45	He	39329.206	ppb	2.0	82054.01	2.0747	Pulse	0.5000	3
Ti	47	45	He	528.604	ppb	1.1	8568.27	0.2166	Pulse	0.5000	3
V	51	45	He	521.952	ppb	0.5	364126.38	9.2064	Pulse	0.5000	3
Cr	52	45	He	521.974	ppb	1.4	450496.17	11.3903	Pulse	0.1000	3
Mn	55	45	He	530.099	ppb	0.2	191521.73	4.8423	Pulse	0.5000	3
Fe	57	45	He	5204.927	ppb	1.0	82545.99	2.0870	Pulse	0.1000	3
Co	59	45	He	511.001	ppb	0.5	834708.31	21.1045	Pulse	0.5000	3
Ni	60	45	He	511.348	ppb	0.6	238001.91	6.0176	Pulse	0.5000	3
Cu	63	72	He	519.825	ppb	0.4	672077.75	10.1833	Pulse	0.5000	3
Zn	66	72	He	529.463	ppb	1.2	79603.86	1.2061	Pulse	0.5000	3
As	75	72	He	522.108	ppb	0.6	63512.43	0.9623	Pulse	0.5000	3
Sr	88	115	He	1235.688	ppb	1.3	527069.59	10.1538	Pulse	0.1000	3
Mo	98	115	He	51.518	ppb	4.1	47438.78	0.9140	Pulse	0.1000	3
Ag	107	115	He	52.419	ppb	1.2	100124.81	1.9289	Pulse	0.1000	3
Cd	111	115	He	53.228	ppb	2.2	11336.80	0.2184	Pulse	0.5000	3
Sn	120	115	He	103.883	ppb	1.6	68444.60	1.3185	Pulse	0.1000	3
Sb	121	115	He	104.149	ppb	1.4	65141.24	1.2549	Pulse	0.3000	3
Ba	137	115	He	712.659	ppb	0.6	144357.47	2.7809	Pulse	0.1000	3
Tl	205	159	He	103.817	ppb	1.2	371347.94	1.9676	Pulse	0.1000	3
Pb	208	159	He	54.571	ppb	1.1	259387.54	1.3744	Pulse	0.1000	3
U	238	159	He	59.945	ppb	1.3	277742.80	1.4717	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1633719.04	1.3	95.6	Analog	0.1000	3
No Gas	Ge	72	827593.69	0.4	95.8	Pulse	0.1000	3
H2	Sc	45	129427.21	1.7	96.9	Pulse	0.1000	3
H2	Ge	72	97457.70	2.3	98.4	Pulse	0.1000	3
H2	In	115	241000.91	1.1	93.9	Pulse	0.1000	3
He	Sc	45	39551.74	0.5	100.2	Pulse	0.1000	3
He	Ge	72	65998.94	0.6	96.9	Pulse	0.1000	3
He	In	115	51909.70	0.6	93.7	Pulse	0.1000	3
He	Tb	159	188756.08	1.7	92.2	Pulse	0.1000	3
He	Bi	209	139701.66	0.5	92.4	Pulse	0.1000	3

No Gas



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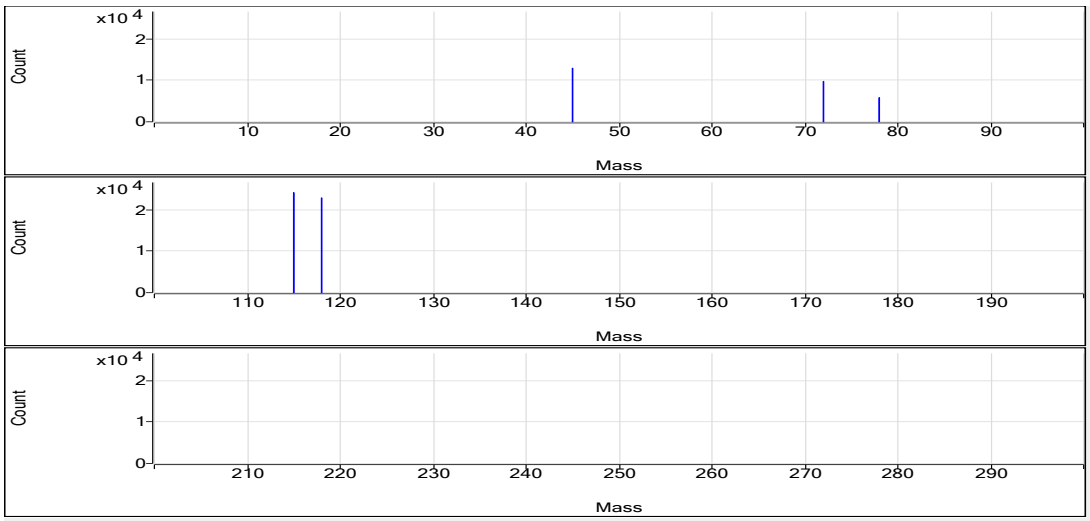
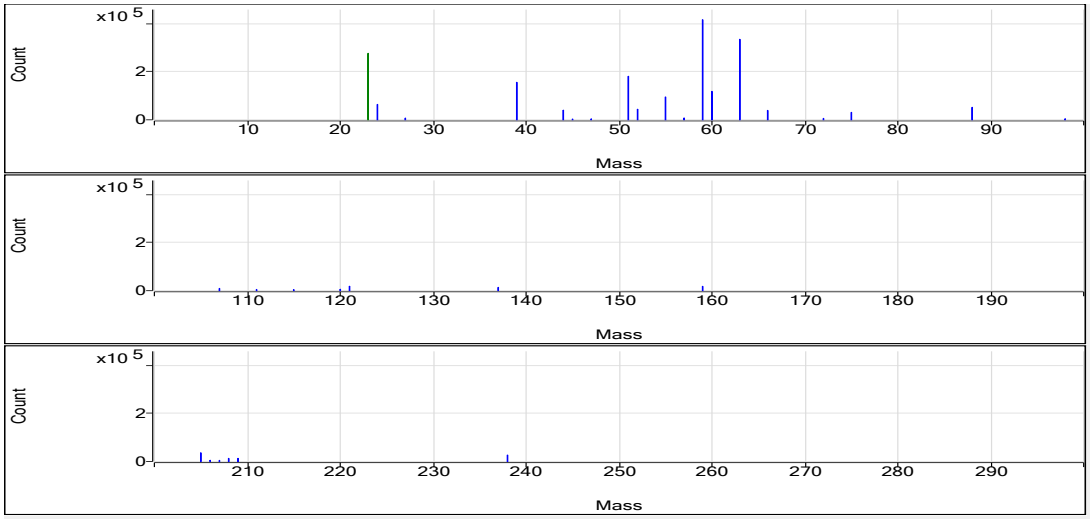


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	52.478	0.0177	28904.58	0.0003	2.616E-05
Be	9	1	No Gas	54.265	0.0183	30273.04	0.0003	2.616E-05
Be	9	1	No Gas	56.452	0.019	30665.70	0.0003	2.616E-05
Se	78	2	H2	102.298	0.0397	3867.14	0.0004	6.3E-05
Se	78	2	H2	102.42	0.0398	3967.83	0.0004	6.3E-05
Se	78	2	H2	103.739	0.0403	3840.46	0.0004	6.3E-05
Na	23	3	He	27933.036	70.3795	2785517.77	0.0025	0.7502
Na	23	3	He	27856.994	70.19	2761837.46	0.0025	0.7502
Na	23	3	He	27763.098	69.9559	2779256.52	0.0025	0.7502
Mg	24	3	He	13423.786	16.2807	644366.32	0.0012	0.02618
Mg	24	3	He	13710.433	16.6278	654271.24	0.0012	0.02618
Mg	24	3	He	13359.278	16.2026	643707.80	0.0012	0.02618
Al	27	3	He	5193.973	1.964	77731.54	0.0004	0.005329
Al	27	3	He	5460.089	2.0643	81227.54	0.0004	0.005329
Al	27	3	He	5297.694	2.0031	79580.37	0.0004	0.005329
K	39	3	He	7467.273	7.9453	314463.50	0.001	0.5307
K	39	3	He	7555.454	8.0329	316077.50	0.001	0.5307
K	39	3	He	7349.134	7.828	310996.16	0.001	0.5307
Ca	44	3	He	38739.27	2.0437	80884.91	0.0001	0.004441
Ca	44	3	He	40222.474	2.1217	83485.97	0.0001	0.004441
Ca	44	3	He	39025.874	2.0587	81791.16	0.0001	0.004441
Ti	47	3	He	522.918	0.2143	8482.23	0.0004	0.0004559
Ti	47	3	He	534.32	0.219	8616.31	0.0004	0.0004559
Ti	47	3	He	528.573	0.2166	8606.28	0.0004	0.0004559
V	51	3	He	519.122	9.1566	362406.59	0.0176	0.02609
V	51	3	He	524.638	9.2537	364113.31	0.0176	0.02609
V	51	3	He	522.095	9.2089	365859.25	0.0176	0.02609
Cr	52	3	He	514.087	11.219	444030.50	0.0217	0.05061
Cr	52	3	He	529.08	11.5447	454260.74	0.0217	0.05061
Cr	52	3	He	522.756	11.4073	453197.26	0.0217	0.05061
Mn	55	3	He	528.862	4.831	191205.66	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	531.049	4.851	190876.58	0.0091	0.01071
Mn	55	3	He	530.386	4.8449	192482.95	0.0091	0.01071
Fe	57	3	He	5207.487	2.088	82639.79	0.0004	0.008452
Fe	57	3	He	5153.666	2.0665	81312.83	0.0004	0.008452
Fe	57	3	He	5253.627	2.1064	83685.34	0.0004	0.008452
Co	59	3	He	509.609	21.047	833010.56	0.0413	0.006013
Co	59	3	He	513.81	21.2205	834985.69	0.0413	0.006013
Co	59	3	He	509.583	21.046	836128.69	0.0413	0.006013
Ni	60	3	He	508.015	5.9784	236616.88	0.0117	0.01172
Ni	60	3	He	514.617	6.056	238290.00	0.0117	0.01172
Ni	60	3	He	511.41	6.0183	239098.86	0.0117	0.01172
Cu	63	3	He	519.657	10.18	668868.75	0.0196	0.01443
Cu	63	3	He	521.8	10.2219	672651.13	0.0196	0.01443
Cu	63	3	He	518.017	10.1479	674713.38	0.0196	0.01443
Zn	66	3	He	523.446	1.1925	78349.79	0.0023	0.002807
Zn	66	3	He	536.135	1.2213	80367.51	0.0023	0.002807
Zn	66	3	He	528.807	1.2046	80094.28	0.0023	0.002807
As	75	3	He	522.136	0.9624	63233.34	0.0018	0.001271
As	75	3	He	525.083	0.9678	63687.20	0.0018	0.001271
As	75	3	He	519.106	0.9568	63616.75	0.0018	0.001271
Sr	88	3	He	1232.676	10.1291	523030.62	0.0082	0.00114
Sr	88	3	He	1252.951	10.2956	534047.92	0.0082	0.00114
Sr	88	3	He	1221.436	10.0367	524130.23	0.0082	0.00114
Mo	98	3	He	52.281	0.9275	47893.27	0.0177	0.001504
Mo	98	3	He	53.136	0.9427	48896.64	0.0177	0.001504
Mo	98	3	He	49.136	0.8718	45526.43	0.0177	0.001504
Ag	107	3	He	52.712	1.9397	100158.47	0.0368	0.001325
Ag	107	3	He	52.827	1.9439	100832.92	0.0368	0.001325
Ag	107	3	He	51.717	1.9031	99383.03	0.0368	0.001325
Cd	111	3	He	53.267	0.2186	11286.10	0.0041	4.798E-05
Cd	111	3	He	54.353	0.223	11568.29	0.0041	4.798E-05
Cd	111	3	He	52.064	0.2136	11156.01	0.0041	4.798E-05
Sn	120	3	He	102.731	1.304	67336.27	0.0126	0.01097
Sn	120	3	He	105.771	1.3423	69626.62	0.0126	0.01097
Sn	120	3	He	103.146	1.3093	68370.90	0.0126	0.01097
Sb	121	3	He	104.247	1.2561	64861.23	0.012	0.0003595
Sb	121	3	He	105.607	1.2725	66005.99	0.012	0.0003595
Sb	121	3	He	102.595	1.2362	64556.50	0.012	0.0003595
Ba	137	3	He	709.065	2.7668	142870.46	0.0039	0.0003633
Ba	137	3	He	711.191	2.7751	143949.88	0.0039	0.0003633
Ba	137	3	He	717.722	2.8006	146252.08	0.0039	0.0003633
Tl	205	3	He	104.798	1.9862	371742.81	0.0189	0.001334
Tl	205	3	He	102.457	1.9418	373884.56	0.0189	0.001334
Tl	205	3	He	104.196	1.9748	368416.44	0.0189	0.001334
Pb	208	3	He	54.691	1.3774	138723.60	0.0252	0.001497
Pb	208	3	He	53.921	1.358	140721.85	0.0252	0.001497
Pb	208	3	He	55.102	1.3877	138129.38	0.0252	0.001497
U	238	3	He	60.276	1.4798	276967.09	0.0245	0.0001141
U	238	3	He	59.031	1.4492	279040.89	0.0245	0.0001141
U	238	3	He	60.526	1.4859	277220.41	0.0245	0.0001141
Sc	45	1	No Gas			1634128.41		
Sc	45	1	No Gas			1655207.32		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1611821.38		
Ge	72	1	No Gas			831468.35		
Ge	72	1	No Gas			825176.16		
Ge	72	1	No Gas			826136.55		
Sc	45	2	H2			130283.48		
Sc	45	2	H2			131009.33		
Sc	45	2	H2			126988.82		
Ge	72	2	H2			97323.63		
Ge	72	2	H2			99738.34		
Ge	72	2	H2			95311.14		
In	115	2	H2			239505.02		
In	115	2	H2			243994.27		
In	115	2	H2			239503.43		
Sc	45	3	He			39578.52		
Sc	45	3	He			39348.03		
Sc	45	3	He			39728.68		
Ge	72	3	He			65704.19		
Ge	72	3	He			65804.81		
Ge	72	3	He			66487.83		
In	115	3	He			52107.95		
In	115	3	He			52358.61		
In	115	3	He			52699.88		
Tb	159	3	He			187165.39		
Tb	159	3	He			192541.64		
Tb	159	3	He			186561.21		
Bi	209	3	He			138937.58		
Bi	209	3	He			140270.54		
Bi	209	3	He			139896.86		

Quantitation Report

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Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

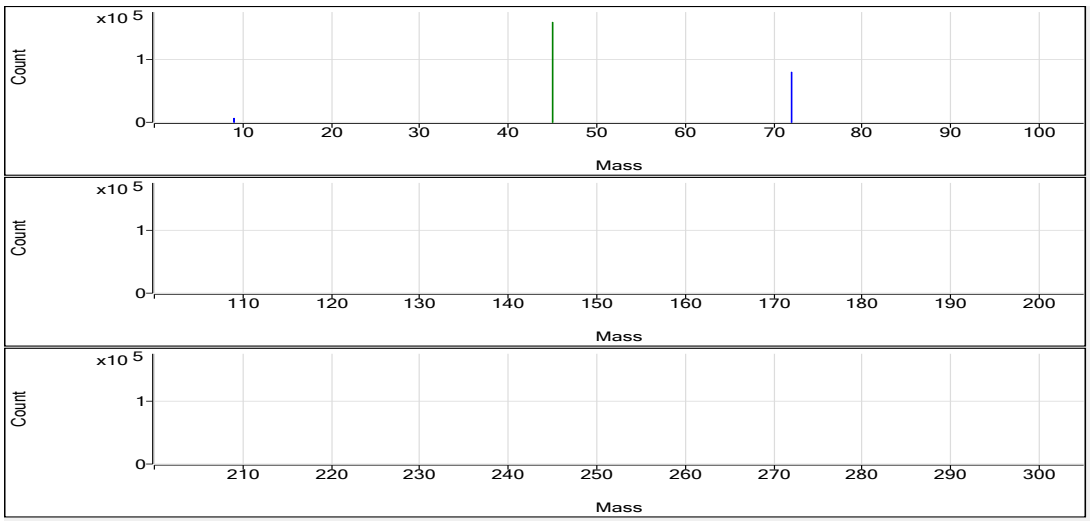
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	24.741	ppb	4.0	13284.59	0.0084	Pulse	0.5000	3
Se	78	72	H2	25.066	ppb	2.8	918.70	0.0098	Pulse	1.5000	3
Na	23	45	He	2490.731	ppb	1.6	264273.80	6.9589	Pulse	0.1000	3
Mg	24	45	He	2581.417	ppb	1.2	119706.52	3.1520	Pulse	0.1000	3
Al	27	45	He	2606.689	ppb	1.6	37536.39	0.9883	Pulse	0.1000	3
K	39	45	He	2606.570	ppb	4.1	118414.91	3.1189	Pulse	0.5000	3
Ca	44	45	He	2555.810	ppb	2.7	5278.20	0.1390	Pulse	0.5000	3
Ti	47	45	He	2572.024	ppb	1.6	39963.07	1.0523	Pulse	0.5000	3
V	51	45	He	258.144	ppb	1.6	173410.79	4.5664	Pulse	0.5000	3
Cr	52	45	He	256.003	ppb	2.2	213107.19	5.6122	Pulse	0.1000	3
Mn	55	45	He	258.229	ppb	1.6	89785.83	2.3644	Pulse	0.5000	3
Fe	57	45	He	2584.156	ppb	1.0	39515.34	1.0404	Pulse	0.1000	3
Co	59	45	He	254.361	ppb	1.8	399035.67	10.5082	Pulse	0.5000	3
Ni	60	45	He	254.608	ppb	2.0	113999.19	3.0021	Pulse	0.5000	3
Cu	63	72	He	251.909	ppb	1.0	315606.10	4.9423	Pulse	0.5000	3
Zn	66	72	He	252.544	ppb	1.0	36831.68	0.5768	Pulse	0.5000	3
As	75	72	He	248.496	ppb	1.0	29291.28	0.4587	Pulse	0.5000	3
Sr	88	115	He	24.972	ppb	4.4	10527.15	0.2063	Pulse	0.1000	3
Mo	98	115	He	24.614	ppb	4.9	22329.82	0.4375	Pulse	0.1000	3
Ag	107	115	He	25.137	ppb	1.2	47248.63	0.9257	Pulse	0.1000	3
Cd	111	115	He	25.480	ppb	1.7	5337.61	0.1046	Pulse	0.5000	3
Sn	120	115	He	24.597	ppb	4.3	16362.49	0.3206	Pulse	0.1000	3
Sb	121	115	He	24.899	ppb	3.2	15324.30	0.3003	Pulse	0.3000	3
Ba	137	115	He	254.095	ppb	2.6	50614.14	0.9917	Pulse	0.1000	3
Tl	205	159	He	24.907	ppb	3.3	87997.70	0.4731	Pulse	0.1000	3
Pb	208	159	He	25.356	ppb	1.0	118959.85	0.6394	Pulse	0.1000	3
U	238	159	He	25.701	ppb	1.4	117398.90	0.6310	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1590225.65	0.5	93.1	Analog	0.1000	3
No Gas	Ge	72	798787.98	0.5	92.5	Pulse	0.1000	3
H2	Sc	45	129888.16	0.8	97.2	Pulse	0.1000	3
H2	Ge	72	93890.66	1.0	94.8	Pulse	0.1000	3
H2	In	115	235377.64	1.7	91.7	Pulse	0.1000	3
He	Sc	45	37981.48	1.7	96.2	Pulse	0.1000	3
He	Ge	72	63860.63	0.6	93.8	Pulse	0.1000	3
He	In	115	51050.15	1.8	92.1	Pulse	0.1000	3
He	Tb	159	186064.19	1.3	90.9	Pulse	0.1000	3
He	Bi	209	138781.01	0.5	91.7	Pulse	0.1000	3

No Gas



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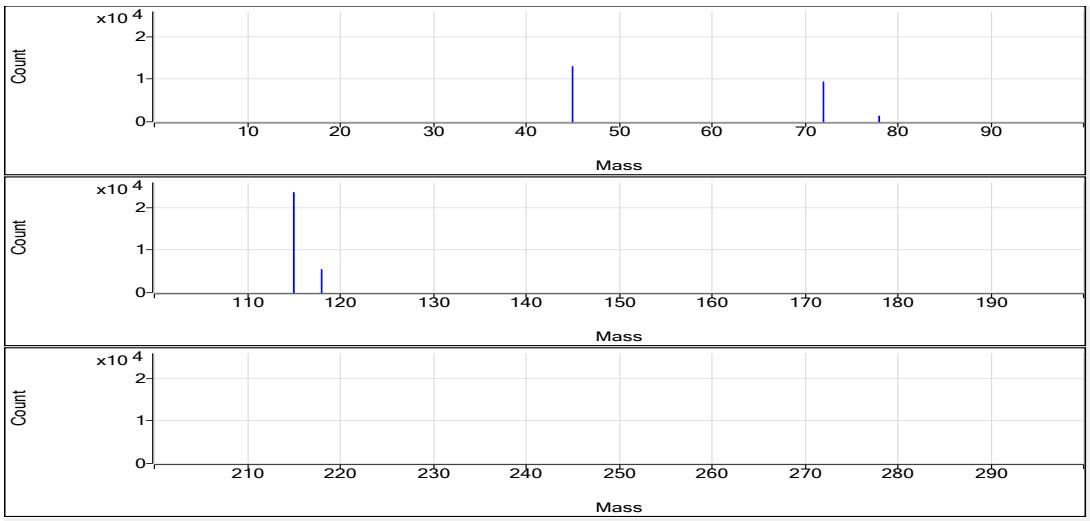
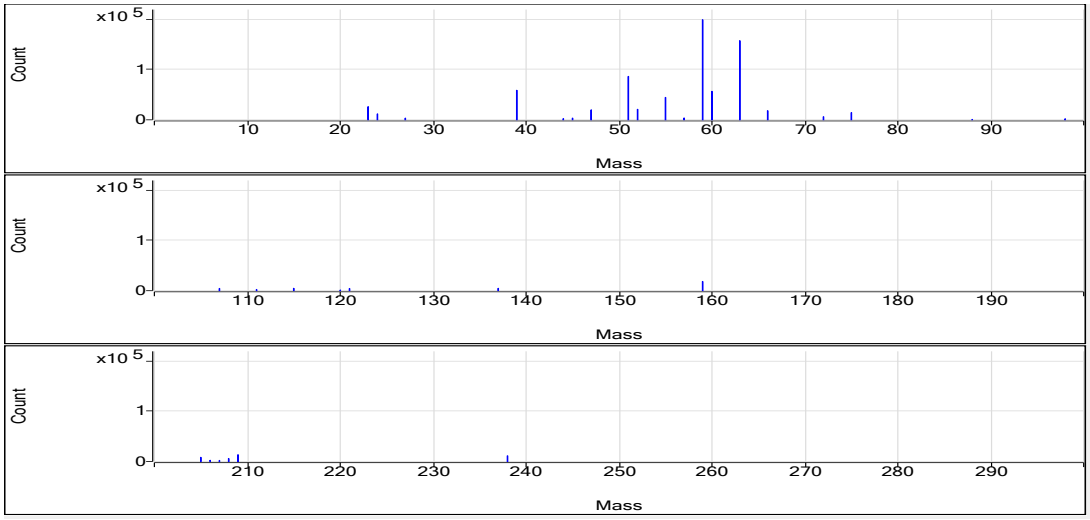


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	23.69	0.008	12678.80	0.0003	2.616E-05
Be	9	1	No Gas	24.897	0.0084	13341.28	0.0003	2.616E-05
Be	9	1	No Gas	25.637	0.0087	13833.69	0.0003	2.616E-05
Se	78	2	H2	25.23	0.0098	934.70	0.0004	6.3E-05
Se	78	2	H2	24.293	0.0095	883.36	0.0004	6.3E-05
Se	78	2	H2	25.676	0.01	938.03	0.0004	6.3E-05
Na	23	3	He	2536.292	7.0725	263895.05	0.0025	0.7502
Na	23	3	He	2462.153	6.8877	261904.20	0.0025	0.7502
Na	23	3	He	2473.75	6.9166	267022.14	0.0025	0.7502
Mg	24	3	He	2612.674	3.1898	119021.32	0.0012	0.02618
Mg	24	3	He	2551.99	3.1163	118498.72	0.0012	0.02618
Mg	24	3	He	2579.588	3.1497	121599.53	0.0012	0.02618
Al	27	3	He	2635.487	0.9992	37282.26	0.0004	0.005329
Al	27	3	He	2560.031	0.9707	36911.81	0.0004	0.005329
Al	27	3	He	2624.548	0.995	38415.10	0.0004	0.005329
K	39	3	He	2727.343	3.2388	120848.87	0.001	0.5307
K	39	3	He	2566.924	3.0795	117098.34	0.001	0.5307
K	39	3	He	2525.444	3.0383	117297.51	0.001	0.5307
Ca	44	3	He	2607.338	0.1417	5286.88	0.0001	0.004441
Ca	44	3	He	2476.958	0.1348	5126.81	0.0001	0.004441
Ca	44	3	He	2583.134	0.1404	5420.92	0.0001	0.004441
Ti	47	3	He	2596.643	1.0624	39641.61	0.0004	0.0004559
Ti	47	3	He	2596.212	1.0622	40391.47	0.0004	0.0004559
Ti	47	3	He	2523.216	1.0324	39856.14	0.0004	0.0004559
V	51	3	He	262.986	4.6516	173565.70	0.0176	0.02609
V	51	3	He	255.999	4.5287	172205.52	0.0176	0.02609
V	51	3	He	255.446	4.519	174461.14	0.0176	0.02609
Cr	52	3	He	261.275	5.7267	213681.27	0.0217	0.05061
Cr	52	3	He	256.56	5.6243	213864.49	0.0217	0.05061
Cr	52	3	He	250.173	5.4855	211775.80	0.0217	0.05061
Mn	55	3	He	262.04	2.3991	89517.03	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	258.688	2.3685	90063.89	0.0091	0.01071
Mn	55	3	He	253.96	2.3254	89776.56	0.0091	0.01071
Fe	57	3	He	2574.497	1.0365	38676.66	0.0004	0.008452
Fe	57	3	He	2614.352	1.0525	40020.00	0.0004	0.008452
Fe	57	3	He	2563.618	1.0322	39849.35	0.0004	0.008452
Co	59	3	He	259.073	10.7028	399353.00	0.0413	0.006013
Co	59	3	He	254.098	10.4974	399164.03	0.0413	0.006013
Co	59	3	He	249.911	10.3245	398589.97	0.0413	0.006013
Ni	60	3	He	260.41	3.0703	114561.08	0.0117	0.01172
Ni	60	3	He	252.899	2.982	113392.88	0.0117	0.01172
Ni	60	3	He	250.513	2.954	114043.63	0.0117	0.01172
Cu	63	3	He	253.884	4.9809	316621.00	0.0196	0.01443
Cu	63	3	He	248.912	4.8837	313817.72	0.0196	0.01443
Cu	63	3	He	252.932	4.9623	316379.59	0.0196	0.01443
Zn	66	3	He	254.485	0.5812	36943.98	0.0023	0.002807
Zn	66	3	He	249.699	0.5703	36647.24	0.0023	0.002807
Zn	66	3	He	253.446	0.5788	36903.83	0.0023	0.002807
As	75	3	He	249.908	0.4613	29322.66	0.0018	0.001271
As	75	3	He	245.617	0.4534	29134.29	0.0018	0.001271
As	75	3	He	249.964	0.4614	29416.88	0.0018	0.001271
Sr	88	3	He	25.393	0.2098	10583.88	0.0082	0.00114
Sr	88	3	He	25.793	0.2131	10784.00	0.0082	0.00114
Sr	88	3	He	23.729	0.1961	10213.57	0.0082	0.00114
Mo	98	3	He	23.655	0.4205	21214.75	0.0177	0.001504
Mo	98	3	He	25.971	0.4615	23358.09	0.0177	0.001504
Mo	98	3	He	24.215	0.4304	22416.62	0.0177	0.001504
Ag	107	3	He	25.286	0.9312	46981.37	0.0368	0.001325
Ag	107	3	He	25.341	0.9332	47231.88	0.0368	0.001325
Ag	107	3	He	24.783	0.9126	47532.65	0.0368	0.001325
Cd	111	3	He	25.551	0.1049	5290.92	0.0041	4.798E-05
Cd	111	3	He	25.885	0.1062	5376.96	0.0041	4.798E-05
Cd	111	3	He	25.005	0.1026	5344.96	0.0041	4.798E-05
Sn	120	3	He	25.756	0.3352	16909.89	0.0126	0.01097
Sn	120	3	He	23.707	0.3094	15658.44	0.0126	0.01097
Sn	120	3	He	24.327	0.3172	16519.13	0.0126	0.01097
Sb	121	3	He	25.503	0.3076	15517.85	0.012	0.0003595
Sb	121	3	He	25.209	0.304	15387.66	0.012	0.0003595
Sb	121	3	He	23.987	0.2893	15067.39	0.012	0.0003595
Ba	137	3	He	260.694	1.0175	51336.49	0.0039	0.0003633
Ba	137	3	He	254.284	0.9925	50232.98	0.0039	0.0003633
Ba	137	3	He	247.309	0.9653	50272.95	0.0039	0.0003633
Tl	205	3	He	24.013	0.4561	85942.36	0.0189	0.001334
Tl	205	3	He	25.654	0.4872	89493.61	0.0189	0.001334
Tl	205	3	He	25.055	0.4759	88557.12	0.0189	0.001334
Pb	208	3	He	25.235	0.6363	63800.12	0.0252	0.001497
Pb	208	3	He	25.654	0.6469	63478.75	0.0252	0.001497
Pb	208	3	He	25.18	0.635	63036.88	0.0252	0.001497
U	238	3	He	25.299	0.6212	117035.47	0.0245	0.0001141
U	238	3	He	25.993	0.6382	117228.38	0.0245	0.0001141
U	238	3	He	25.811	0.6337	117932.86	0.0245	0.0001141
Sc	45	1	No Gas			1584988.41		
Sc	45	1	No Gas			1587240.29		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1598448.26		
Ge	72	1	No Gas			803372.33		
Ge	72	1	No Gas			797183.43		
Ge	72	1	No Gas			795808.19		
Sc	45	2	H2			131060.50		
Sc	45	2	H2			128965.13		
Sc	45	2	H2			129638.84		
Ge	72	2	H2			94919.48		
Ge	72	2	H2			93140.03		
Ge	72	2	H2			93612.47		
In	115	2	H2			237800.37		
In	115	2	H2			230631.03		
In	115	2	H2			237701.52		
Sc	45	3	He			37313.05		
Sc	45	3	He			38025.18		
Sc	45	3	He			38606.21		
Ge	72	3	He			63566.65		
Ge	72	3	He			64258.70		
Ge	72	3	He			63756.54		
In	115	3	He			50572.75		
In	115	3	He			50723.50		
In	115	3	He			52197.81		
Tb	159	3	He			188412.42		
Tb	159	3	He			183687.07		
Tb	159	3	He			186093.08		
Bi	209	3	He			138137.99		
Bi	209	3	He			139531.14		
Bi	209	3	He			138673.89		

Quantitation Report

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Sample Type	CCB
Comment	---
Prep Dilution	1.0000
Auto Dilution	1.0000
Total Dilution	1.0000
Operator Name	us19_usr_ins23851
Acq Mode	Spectrum
Cal Title	---
Cal Type	External Calibration
Last Calib	7/10/2025 10:24:01 AM
Bkg File	---
Bkg Mode	Count Subtraction except for ISTD
FQ BlankFile	---
VIS Fit	Point to Point

FullQuant Table

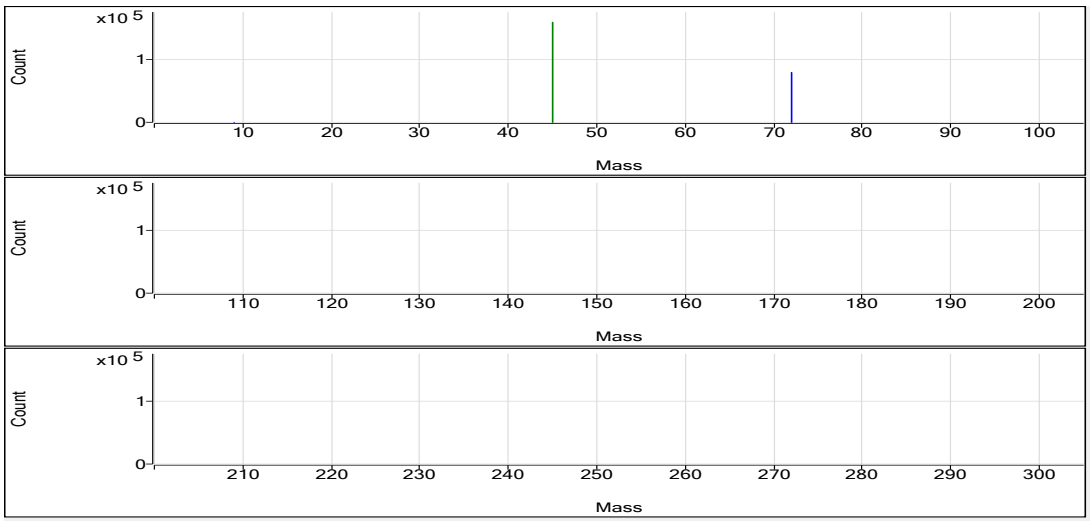
Element	Mass	ISTD	Tune Mode	Conc.	Units	RSD(%)	CPS	Ratio	Det.	Time(sec)	Rep
Be	9	45	No Gas	-0.021	ppb	N/A	30.67	0.0000	Pulse	0.5000	3
Se	78	72	H2	-0.033	ppb	N/A	4.67	0.0001	Pulse	1.5000	3
Na	23	45	He	-102.492	ppb	N/A	18987.93	0.4947	Pulse	0.1000	3
Mg	24	45	He	-10.489	ppb	N/A	516.69	0.0135	Pulse	0.1000	3
Al	27	45	He	-2.404	ppb	N/A	170.01	0.0044	Pulse	0.1000	3
K	39	45	He	-3.762	ppb	N/A	20226.56	0.5269	Pulse	0.5000	3
Ca	44	45	He	-9.767	ppb	N/A	150.67	0.0039	Pulse	0.5000	3
Ti	47	45	He	0.242	ppb	155.8	21.33	0.0006	Pulse	0.5000	3
V	51	45	He	0.003	ppb	1550.3	1003.37	0.0261	Pulse	0.5000	3
Cr	52	45	He	-0.375	ppb	N/A	1630.15	0.0425	Pulse	0.1000	3
Mn	55	45	He	-0.298	ppb	N/A	306.67	0.0080	Pulse	0.5000	3
Fe	57	45	He	-6.391	ppb	N/A	226.68	0.0059	Pulse	0.1000	3
Co	59	45	He	0.015	ppb	54.8	254.00	0.0066	Pulse	0.5000	3
Ni	60	45	He	-0.183	ppb	N/A	367.34	0.0096	Pulse	0.5000	3
Cu	63	72	He	-0.266	ppb	N/A	592.01	0.0092	Pulse	0.5000	3
Zn	66	72	He	0.038	ppb	524.2	186.00	0.0029	Pulse	0.5000	3
As	75	72	He	0.381	ppb	33.3	126.67	0.0020	Pulse	0.5000	3
Sr	88	115	He	-0.019	ppb	N/A	50.00	0.0010	Pulse	0.1000	3
Mo	98	115	He	-0.037	ppb	N/A	43.33	0.0009	Pulse	0.1000	3
Ag	107	115	He	-0.015	ppb	N/A	40.00	0.0008	Pulse	0.1000	3
Cd	111	115	He	0.001	ppb	1581.3	2.67	0.0001	Pulse	0.5000	3
Sn	120	115	He	-0.041	ppb	N/A	533.36	0.0105	Pulse	0.1000	3
Sb	121	115	He	0.053	ppb	39.9	51.11	0.0010	Pulse	0.3000	3
Ba	137	115	He	0.107	ppb	46.0	40.00	0.0008	Pulse	0.1000	3
Tl	205	159	He	-0.037	ppb	N/A	116.67	0.0006	Pulse	0.1000	3
Pb	208	159	He	-0.015	ppb	N/A	206.67	0.0011	Pulse	0.1000	3
U	238	159	He	0.010	ppb	63.2	66.67	0.0004	Pulse	0.1000	3

ISTD Table:

Quantitation Report

Tune Mode	Element	Mass	CPS	RSD(%)	ISTD Recovery %	Det.	Time(seq)	Rep
No Gas	Sc	45	1593790.18	1.6	93.3	Analog	0.1000	3
No Gas	Ge	72	794131.39	0.5	91.9	Pulse	0.1000	3
H2	Sc	45	127888.15	0.5	95.7	Pulse	0.1000	3
H2	Ge	72	93149.56	0.5	94.0	Pulse	0.1000	3
H2	In	115	236014.41	0.3	92.0	Pulse	0.1000	3
He	Sc	45	38378.73	1.2	97.2	Pulse	0.1000	3
He	Ge	72	64145.29	1.9	94.2	Pulse	0.1000	3
He	In	115	51084.12	1.8	92.2	Pulse	0.1000	3
He	Tb	159	186113.99	0.5	90.9	Pulse	0.1000	3
He	Bi	209	136773.15	0.4	90.4	Pulse	0.1000	3

No Gas



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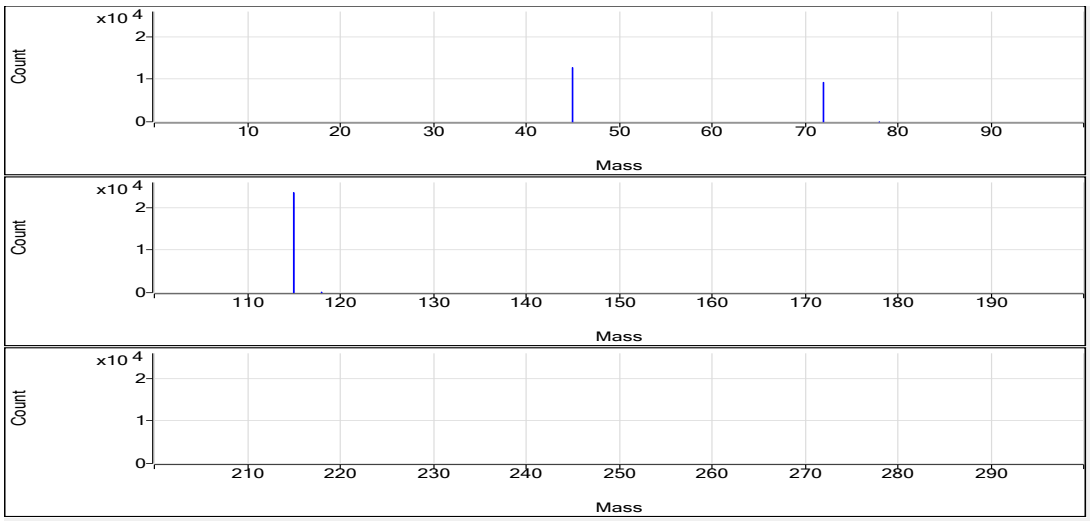
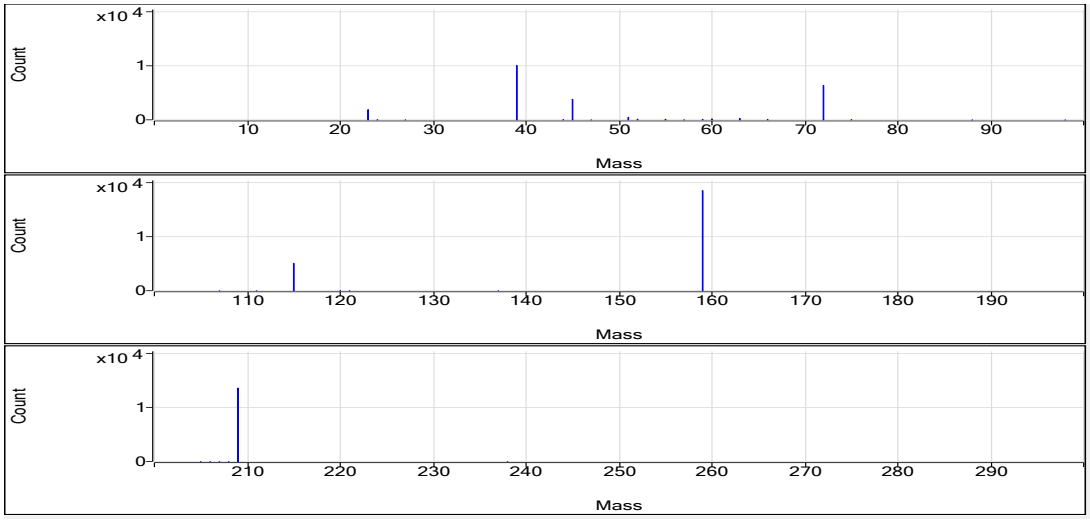


Quantitation Report

He



Replicate:

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Be	9	1	No Gas	-0.036	0	22.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.022	0	30.00	0.0003	2.616E-05
Be	9	1	No Gas	-0.004	0	40.00	0.0003	2.616E-05
Se	78	2	H2	-0.034	0	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.033	0.0001	4.67	0.0004	6.3E-05
Se	78	2	H2	-0.033	0.0001	4.67	0.0004	6.3E-05
Na	23	3	He	-96.638	0.5093	19682.17	0.0025	0.7502
Na	23	3	He	-105.415	0.4874	18450.55	0.0025	0.7502
Na	23	3	He	-105.423	0.4874	18831.08	0.0025	0.7502
Mg	24	3	He	-10.937	0.0129	500.02	0.0012	0.02618
Mg	24	3	He	-8.314	0.0161	610.03	0.0012	0.02618
Mg	24	3	He	-12.217	0.0114	440.02	0.0012	0.02618
Al	27	3	He	-0.408	0.0052	200.01	0.0004	0.005329
Al	27	3	He	-5.026	0.0034	130.00	0.0004	0.005329
Al	27	3	He	-1.777	0.0047	180.01	0.0004	0.005329
K	39	3	He	66.979	0.5972	23078.22	0.001	0.5307
K	39	3	He	-17.458	0.5133	19431.45	0.001	0.5307
K	39	3	He	-60.806	0.4703	18170.00	0.001	0.5307
Ca	44	3	He	-6.696	0.0041	158.00	0.0001	0.004441
Ca	44	3	He	-7.078	0.0041	154.00	0.0001	0.004441
Ca	44	3	He	-15.527	0.0036	140.00	0.0001	0.004441
Ti	47	3	He	0.657	0.0007	28.00	0.0004	0.0004559
Ti	47	3	He	-0.081	0.0004	16.00	0.0004	0.0004559
Ti	47	3	He	0.151	0.0005	20.00	0.0004	0.0004559
V	51	3	He	0.02	0.0264	1022.04	0.0176	0.02609
V	51	3	He	0.039	0.0268	1014.04	0.0176	0.02609
V	51	3	He	-0.05	0.0252	974.04	0.0176	0.02609
Cr	52	3	He	-0.245	0.0453	1750.17	0.0217	0.05061
Cr	52	3	He	-0.445	0.041	1550.13	0.0217	0.05061
Cr	52	3	He	-0.435	0.0412	1590.16	0.0217	0.05061
Mn	55	3	He	-0.301	0.008	308.01	0.0091	0.01071

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Mn	55	3	He	-0.242	0.0085	322.01	0.0091	0.01071
Mn	55	3	He	-0.351	0.0075	290.00	0.0091	0.01071
Fe	57	3	He	-6.91	0.0057	220.01	0.0004	0.008452
Fe	57	3	He	-8.596	0.005	190.01	0.0004	0.008452
Fe	57	3	He	-3.666	0.007	270.01	0.0004	0.008452
Co	59	3	He	0.007	0.0063	244.00	0.0413	0.006013
Co	59	3	He	0.023	0.007	264.00	0.0413	0.006013
Co	59	3	He	0.014	0.0066	254.00	0.0413	0.006013
Ni	60	3	He	-0.165	0.0098	378.01	0.0117	0.01172
Ni	60	3	He	-0.188	0.0095	360.01	0.0117	0.01172
Ni	60	3	He	-0.195	0.0094	364.01	0.0117	0.01172
Cu	63	3	He	-0.281	0.0089	566.01	0.0196	0.01443
Cu	63	3	He	-0.303	0.0085	558.01	0.0196	0.01443
Cu	63	3	He	-0.213	0.0103	652.02	0.0196	0.01443
Zn	66	3	He	0	0.0028	178.00	0.0023	0.002807
Zn	66	3	He	0.255	0.0034	222.00	0.0023	0.002807
Zn	66	3	He	-0.141	0.0025	158.00	0.0023	0.002807
As	75	3	He	0.389	0.002	126.00	0.0018	0.001271
As	75	3	He	0.503	0.0022	144.00	0.0018	0.001271
As	75	3	He	0.25	0.0017	110.00	0.0018	0.001271
Sr	88	3	He	-0.069	0.0006	30.00	0.0082	0.00114
Sr	88	3	He	-0.019	0.001	50.00	0.0082	0.00114
Sr	88	3	He	0.031	0.0014	70.00	0.0082	0.00114
Mo	98	3	He	-0.063	0.0004	20.00	0.0177	0.001504
Mo	98	3	He	-0.029	0.001	50.00	0.0177	0.001504
Mo	98	3	He	-0.018	0.0012	60.00	0.0177	0.001504
Ag	107	3	He	-0.02	0.0006	30.00	0.0368	0.001325
Ag	107	3	He	0.007	0.0016	80.00	0.0368	0.001325
Ag	107	3	He	-0.031	0.0002	10.00	0.0368	0.001325
Cd	111	3	He	0.016	0.0001	6.00	0.0041	4.798E-05
Cd	111	3	He	-0.012	0	0.00	0.0041	4.798E-05
Cd	111	3	He	-0.002	0	2.00	0.0041	4.798E-05
Sn	120	3	He	-0.093	0.0098	510.03	0.0126	0.01097
Sn	120	3	He	-0.154	0.009	460.02	0.0126	0.01097
Sn	120	3	He	0.125	0.0125	630.04	0.0126	0.01097
Sb	121	3	He	0.076	0.0013	66.67	0.012	0.0003595
Sb	121	3	He	0.035	0.0008	40.00	0.012	0.0003595
Sb	121	3	He	0.047	0.0009	46.67	0.012	0.0003595
Ba	137	3	He	0.104	0.0008	40.00	0.0039	0.0003633
Ba	137	3	He	0.158	0.001	50.00	0.0039	0.0003633
Ba	137	3	He	0.06	0.0006	30.00	0.0039	0.0003633
Tl	205	3	He	-0.025	0.0009	160.01	0.0189	0.001334
Tl	205	3	He	-0.051	0.0004	70.00	0.0189	0.001334
Tl	205	3	He	-0.036	0.0006	120.00	0.0189	0.001334
Pb	208	3	He	-0.019	0.001	120.00	0.0252	0.001497
Pb	208	3	He	-0.013	0.0012	100.01	0.0252	0.001497
Pb	208	3	He	-0.014	0.0011	140.01	0.0252	0.001497
U	238	3	He	0.017	0.0005	100.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
U	238	3	He	0.006	0.0003	50.00	0.0245	0.0001141
Sc	45	1	No Gas			1564634.51		
Sc	45	1	No Gas			1611341.69		

Quantitation Report

Name	Mass	Tune Step	Tune Mode	Calc Conc.	Ratio	CPS	a	b (blank)
Sc	45	1	No Gas			1605394.35		
Ge	72	1	No Gas			790907.41		
Ge	72	1	No Gas			793124.36		
Ge	72	1	No Gas			798362.41		
Sc	45	2	H2			127482.58		
Sc	45	2	H2			127551.78		
Sc	45	2	H2			128630.10		
Ge	72	2	H2			93712.53		
Ge	72	2	H2			92736.52		
Ge	72	2	H2			92999.64		
In	115	2	H2			236765.02		
In	115	2	H2			235265.06		
In	115	2	H2			236013.14		
Sc	45	3	He			38646.08		
Sc	45	3	He			37853.91		
Sc	45	3	He			38636.19		
Ge	72	3	He			63395.41		
Ge	72	3	He			65524.09		
Ge	72	3	He			63516.38		
In	115	3	He			52057.85		
In	115	3	He			50933.71		
In	115	3	He			50271.99		
Tb	159	3	He			186608.34		
Tb	159	3	He			186641.77		
Tb	159	3	He			185091.87		
Bi	209	3	He			136806.36		
Bi	209	3	He			137271.78		
Bi	209	3	He			136241.30		

EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL (ELLE), Mercury RAW Data Report

Please note that this is raw data as received from the instrument, which does not account for weights, volumes, and dilution factors.

Sample ID	Average Intensity	%R	%RE	Average Conc.	Conc. Units	Sample Type	SLOPE	INTERCEPT	CORR COEFF	Curve Type	Flags	INSTR	Time Stamp	Ele
Calibration Blank	226.16	NA	NA	0	ug/L	Standard	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:11	Hg
Standard #1 (0.2 ug/L)	1079.2	91.91%	-8.09%	0.2	ug/L	Standard	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:13	Hg
Standard #2 (0.5 ug/L)	2373.5	97.10%	-2.90%	0.5	ug/L	Standard	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:15	Hg
Standard #3 (1.0 ug/L)	4501.9	99.79%	-0.21%	1	ug/L	Standard	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:16	Hg
Standard #4 (2.5 ug/L)	10530	104.99%	4.99%	2.5	ug/L	Standard	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:18	Hg
Standard #5 (5.0 ug/L)	22245	98.87%	-1.13%	5	ug/L	Standard	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:20	Hg
ICV	11220			2.538	ug/L	ICV	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:22	Hg
ICB	206.22			0.02	ug/L	ICB	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:24	Hg
CRA	1147.1			0.235	ug/L	IPR	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:26	Hg
CCV	4513.7			1.005	ug/L	CCV	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:28	Hg
CCB	281.7			0.038	ug/L	CCB	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:30	Hg
MB 410-668919/1-A	27.239			-0.02	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:32	Hg
LCS 410-668919/2-A	4979.7			1.111	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:33	Hg
410-229895-K-4-A	10.422			-0.024	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:35	Hg
410-229895-I-4-A DU	54.737			-0.014	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:37	Hg
410-229895-K-4-B MS	4664.1			1.039	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:39	Hg
410-229895-K-4-C MSD	4751.3			1.059	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:41	Hg
410-229815-J-9-A	31.572			-0.019	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:43	Hg
410-229972-T-10-A	53.9			-0.014	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:45	Hg
410-229533-O-3-A	56.422			-0.014	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:47	Hg
410-230017-T-1-A	52.247			-0.015	ug/L	Unknown	4375.532984	116.809425	0.998971112	Linear		M10	7/14/2025 19:48	Hg
CCV	4572.6			1.018	ug/L	CCV							7/14/2025 19:50	
CCB	304.56			0.043	ug/L	CCB							7/14/2025 19:52	
410-229713-S-1-A	39.568			-0.018	ug/L	Unknown							7/14/2025 19:54	
180-191817-S-2-A	50.712			-0.015	ug/L	Unknown							7/14/2025 19:56	
410-229474-N-4-A	42.453			-0.017	ug/L	Unknown							7/14/2025 19:58	
410-229474-L-5-A	44.717			-0.016	ug/L	Unknown							7/14/2025 20:00	
410-229895-H-8-A	54.114			-0.014	ug/L	Unknown							7/14/2025 20:02	
410-229895-J-10-A	47.24			-0.016	ug/L	Unknown							7/14/2025 20:04	
410-229895-H-7-A	46.769			-0.016	ug/L	Unknown							7/14/2025 20:05	
410-229895-H-9-A	58.326			-0.013	ug/L	Unknown							7/14/2025 20:07	
410-229895-T-3-A	133.34			0.004	ug/L	Unknown							7/14/2025 20:09	
410-229895-K-1-A	67.598			-0.011	ug/L	Unknown							7/14/2025 20:11	
CCV	4583.6			1.021	ug/L	CCV							7/14/2025 20:13	
CCB	296.8			0.041	ug/L	CCB							7/14/2025 20:15	
410-229895-H-6-A	6996.1			1.572	ug/L	Unknown							7/14/2025 20:17	
410-229895-H-5-A	2.4			-0.026	ug/L	Unknown							7/14/2025 20:19	
410-229895-H-11-A	53.87			-0.014	ug/L	Unknown							7/14/2025 20:21	
180-192470-C-1-A	95.447			-0.005	ug/L	Unknown							7/14/2025 20:23	
410-229895-H-2-A	89.166			-0.006	ug/L	Unknown							7/14/2025 20:24	
MB 410-669761/1-A	147.47			0.007	ug/L	Unknown							7/14/2025 20:26	
LCS 410-669761/2-A	3673.7			0.813	ug/L	Unknown							7/14/2025 20:28	
410-230905-C-1-O	130.92			0.003	ug/L	Unknown							7/14/2025 20:30	
410-230905-C-1-P DU	190.13			0.017	ug/L	Unknown							7/14/2025 20:32	
410-230905-C-1-Q MS	8197.1			1.847	ug/L	Unknown							7/14/2025 20:34	
CCV	4431.1			0.986	ug/L	CCV							7/14/2025 20:36	
CCB	321.5			0.047	ug/L	CCB							7/14/2025 20:38	
410-230905-C-1-R MSD	8307.3			1.872	ug/L	Unknown							7/14/2025 20:40	
LB 410-668755/1-E	31.787			-0.019	ug/L	Unknown							7/14/2025 20:41	
410-230910-B-1-E	86.765			-0.007	ug/L	Unknown							7/14/2025 20:43	
410-230910-B-2-E	109.8			-0.002	ug/L	Unknown							7/14/2025 20:45	
410-230913-B-1-I	91.045			-0.006	ug/L	Unknown							7/14/2025 20:47	

410-230913-B-2-I	78.888			-0.009	ug/L	Unknown							7/14/2025 20:49	
410-230910-B-3-E	149.53			0.007	ug/L	Unknown							7/14/2025 20:51	
180-192708-B-1-G	198.65			0.019	ug/L	Unknown							7/14/2025 20:53	
180-192708-B-1-H MS	10065			2.274	ug/L	Unknown							7/14/2025 20:55	
LB 410-668759/1-C	2.361			-0.026	ug/L	Unknown							7/14/2025 20:57	
CCV	4583.6			1.021	ug/L	CCV							7/14/2025 20:59	
CCV	301.51			0.042	ug/L	CCB							7/14/2025 21:00	
LB 410-669493/1-C	41.814			-0.017	ug/L	Unknown							7/14/2025 21:02	
MB 410-670079/1-A	58.846			-0.013	ug/L	Unknown							7/14/2025 21:04	
LCS 410-670079/2-A	4762.7			1.062	ug/L	Unknown							7/14/2025 21:06	
180-191976-A-28-B	104.82			-0.003	ug/L	Unknown							7/14/2025 21:08	
180-191976-A-28-C DU	113.59			-0.001	ug/L	Unknown							7/14/2025 21:10	
180-191976-A-28-D MS	4855.1			1.083	ug/L	Unknown							7/14/2025 21:12	
180-191976-A-28-E MSD	4907.3			1.095	ug/L	Unknown							7/14/2025 21:14	
180-191976-A-27-E	15.791			-0.023	ug/L	Unknown							7/14/2025 21:16	
410-228096-A-1-B	106.4			-0.002	ug/L	Unknown							7/14/2025 21:18	
MB 410-670052/1-A	81.663			-0.008	ug/L	Unknown							7/14/2025 21:20	
CCV	4540.2			1.011	ug/L	CCV							7/14/2025 21:21	
CCB	318.4			0.046	ug/L	CCB							7/14/2025 21:23	
LCS 410-670052/2-A	4889.2			1.091	ug/L	Unknown							7/14/2025 21:25	
LCSD 410-670052/3-A	4873.1			1.087	ug/L	Unknown							7/14/2025 21:27	
410-225405-A-1-B	27.98			-0.02	ug/L	Unknown							7/14/2025 21:29	
CCV	4506.6			1.003	ug/L	CCV							7/14/2025 21:31	
CCB	304.44			0.043	ug/L	CCB							7/14/2025 21:33	

Shipping and Receiving Documents

Laboratory: Eurofins Lancaster Laboratories Environmental, LLC , 2425 New Holland Pike, Lancaster, PA, 17605-2425/ Barb Weyandt, Manager/ (717) 656-2300; cell 717-556-7264

Client: 0 **Attn:** 0 **Address:** 0 0 **Phone:** 0 **Fax:** 0 **Fax:** 0	**Consultant:** TRC Engineers, Inc, (fmr Draper Aden Associate) **Attn:** Janet C. Frazier **Address:** 2200 South Main Street Suite A Blacksburg, Virginia 24060 **Phone:** (540) 552-0444 **Fax:** (540) 552-0291	**Sample Site:** RFAAP, Radford, Virginia **Location:** HWMU16 **Event:** 2Q 2025 - Semiannual Monitoring Event **DAA JN:** 0 **Lab JN:**	**Project Specific (PS) QC:** Yes **Sample Collection for Project Complete?** YES **Carrier:** UPS **Tracking Number:** 1Z 75J 02X 40 7330 1137 1Z 75J 02X 40 7901 5856 0

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 3: Filtered/Unfiltered
F Filtered; U Unfiltered

Box 4: Sample Type
G Grab; C Composite

Box 5: Sample Container Type
P Plastic; AG Amber Glass; V VOA; CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on Ice: YES

Box 4 - Sample Type						G	G	G	G	G				
Box 3 - Filtered/Unfiltered						U	U	U	U	U				
Required pH of Sample						<2	<2	<2	<2					
Box 2 - Preservative						A	B	B	A	H				
Box 5 - Sample Container Type						3-40ml V	1-500 ml P		3-40ml V	2-250 ml AG				
Sample ID	Date: 2025	Time	Box 1: Matrix	Number of Bottles		8260D/5030C - 25 ml purge	ICP/MS 6020B/3005A Metals Total	1-250 ABP (6/25/25) 7470A- Mercury Total	8260D/5030C - 25 ml purge- Additional volume if needed	8270E/3510C (Semivolatiles)				
16C1	6/26	1215	GW	9		X	X	X	X	X				
16MW8	6/25	1205	GW	6		X	X	X		X				
16MW9	6/26	1100	GW	18		X	X	X	X	X				
16WC1A	6/26	0945	GW	27		X	X	X		X				
16WDUP	6/26	0900	GW	6		X	X	X		X				
16WC1B	6/26	1120	GW	6		X	X	X		X				
16-2	6/25	1115	GW	6		X	X	X		X				
16-3	6/25	1300	GW	6		X	X	X		X				
16-5	6/25	0915	GW	6		X	X	X		X				
16WC2B	6/25	1020	GW	6		X	X	X		X				
16SPRING	6/25	0925	GW	6		X	X	X		X				
Trip Blank1	6/26	———	GW	3		X								
~~Trip Blank2~~	6/25	———	GW	3		X								
~~Trip Blank3~~			GW	3		X								

GENERAL NOTES:
1. Old DAA EDD required. ERIS Deliverable required
2. Full deliverable required.
3. See attached target analyte list. VELAP REQUIRED.
4. 1 Trip Blank to be analyzed per day of sample collection.
5. Project required LOQs attached. Please report these LOQs.
6. Report to at or above project QL.

VELAP # 13454 OK JVR 6.17.25 Ex. 6.14.26

8. upload invoice to TRC portal. PO# _____

Additional volume for dilution, if needed.

Additional volume for dilution if needed

USE FOR QC

DAY1 Not needed.
DAY2
DAY3 - delete if not needed JVR 6.17.25

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Alexa Prater	Date: 6/25/25	#1 Relinquished by (Signature): Alexa Prater	6/26/25	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Alexa Prater	Time: 0730	Company Name: TRC	Time: 1700	Company Name:	Time:	
Sampler Name (Print): Lydia Beardsley	Date: 6/25/25	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature: Lydia Beardsley	Time: 0730	Company Name:	Time:	Company Name:	Time:	

VELAP ✓; MDLs ✓ JVR 6.17.25

(K) Added - Mixing TB for 6/25/2025 JVR 6/11/25 JVR 6.17.25

C+A1:AA40HAIN OF CUSTODY RECORD

Laboratory: Eurofins Lancaster Laboratories Environmental, LLC , 2425 New Holland Pike, Lancaster, PA, 17605-2425/ Barb Weyandt, Manager/ (717) 656-2300; cell 717-556-7264

Client: 0	Consultant: TRC Engineers, Inc, (fmr Draper Aden Associate)	Sample Site: RFAAP, Radford, Virginia	Project Specific (PS) QC: Yes
Attn: 0	Attn: Janet C. Frazier	Location: HWMU16	Sample Collection for Project Complete? YES
Address: 0	Address: 2200 South Main Street Suite A, Blacksburg, Virginia 24060	Event: 2Q 2025 - Semiannual Monitoring Event	Carrier: UPS
0	Phone: (540) 552-0444	DAA JN: 0	Tracking Number: 1Z 75J 02X 40 7330 1127
Phone: 0	Fax: (540) 552-0291	Lab JN:	1Z 75J 02X 40 7401 5856
Fax: 0			
Fax: 0			

Box 1: Matrix
SW Surface Water; GW Groundwater; L Leachate; S Soil; T Trip Blank; E Equipment Blank; P Product; O Other

Box 2: Preservative
A HCL; B HNO_3; C H_2SO_4; D $Na_2S_2O_3$; E NaOH; F ZnAc; G Other (Specify); H None

Box 3: Filtered/Unfiltered
F Filtered; U Unfiltered

Box 4: Sample Type
G Grab; C Composite

Box 5: Sample Container Type
P Plastic; V VOA; AG Amber Glass; CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on Ice: YES

Box 4 - Sample Type	G	G	G	G	G
Box 3 - Filtered/Unfiltered	U	U	U	U	U
Required pH of Sample	<2	<2	<2	<2	
Box 2 - Preservative	A	B	B	A	H
Box 5 - Sample Container Type	3-40ml V	1-500 ml P	1-250 (ABP 6/25/25)	3-40ml V	2-250 ml AG

Sample ID	Date: 2025	Time	Box 1: Matrix	Number of Bottles		8260D/5030C - 25 ml purge	ICP/MS 6020B/3005A Metals Total	7470A- Mercury Total	8260D/5030C - 25 ml purge - Additional volume if needed	8270E/3510C (Semivolatiles)				
16C1	6/26	1215	GW	9		X	X	X	X	X				
16MW8	6/25	1205	GW	6		X	X	X		X				
16MW9	6/26	1100	GW	18		X	X	X	X	X				
16WC1A	6/26	0945	GW	27		X	X	X		X				
16WDUP	6/26	0900	GW	6		X	X	X		X				
16WC1B	6/26	1120	GW	6		X	X	X		X				
16-2	6/25	1115	GW	6		X	X	X		X				
16-3	6/25	1300	GW	6		X	X	X		X				
16-5	6/25	0915	GW	6		X	X	X		X				
16WC2B	6/25	1020	GW	6		X	X	X		X				
16SPRING	6/25	0925	GW	6		X	X	X		X				
Trip Blank1	6/26	———	GW	3		X								
~~Trip Blank2~~			GW	3		X								
~~Trip Blank3~~			GW	3		X								

GENERAL NOTES:

1. Old DAA EDD required. ERIS Deliverable required
2. Full deliverable required.
3. See attached target analyte list. VELAP REQUIRED.
4. 1 Trip Blank to be analyzed per day of sample collection.
5. Project required LOQs attached. Please report these LOQs.
6. Report to at or above project QL.

7. VELAP # 1345A OK JLR 6.17.25 ex. 6.14.26
8. Upload Invoice to TRC portal. PO# ———

Additional volume for dilution, if needed.

Additional volume for dilution if needed

USE FOR QC

410-229895-01 Chain of Custody

DAY 1 Not needed.
DAY 2
DAY 3 - delete if not needed. JLR 6.17.25

Clients Special Instructions:

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No
Describe problems, if any:

Sampler Name (Print): Alexa Prater	Date: 6/25/25	#1 Relinquished by (Signature): Alexa Prater	Date: 6/26/25	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Alexa Prater	Time: 0730	Company Name: TRC	Time: 1700	Company Name:	Time:	
Sampler Name (Print): Lydia Beardsley	Date: 6/25/25	#1 Received by (Signature):	Date:	#2 Received by (Signature):	Date: 6/27/25	30 DYS ORG/6 MTHS INORG
Sampler Signature: Lydia Beardsley	Time: 0730	Company Name:	Time:	Company Name: EWT	Time: 1095	

VELAP ✓; MDLs ✓ JLR 6.17.25

Day 1, 2, 3 cor! 7 JLR 6.17.25

Page 1 of 1

KAH

410-229895-02 Chain of Custody

HWMU16
Radford Army Ammunition Plant (RFAAP)
Semiannual Monitoring Event

JCF rev 1 4/22/24 2/4.

ANALYTICAL METHOD: 8260D/5030C 25 ml purge volume OK JCF 6.17.25
TYPE METHOD: GCMS
CLASS: VOLATILE

VELAP 6.17.25

No.	ANALYTE	CAS RN	Required LOQ (µg/l)
1.	Carbon tetrachloride	56-23-5	1
2.	chloromethane ; (Methyl chloride)	74-87-3	1
3.	2-butanone (methyl ethyl ketone - MEK)	78-93-3	10
4.	1,1-dichloroethane	75-34-3	1
5.	Dichlorodifluoromethane	75-71-8	1
6.	Ethylbenzene	100-41-4	1
7.	Tetrachloroethene	127-18-4	1
8.	Toluene (methyl benzene)	108-88-3	1
9.	1,1,1-trichloroethane (methyl chloroform)	71-55-6	1
10.	Trichloroethene	79-01-6	1
11.	Trichlorofluoromethane (CFC-11)	75-69-4	1
12.	Xylenes (total)	1330-20-7	3
13	Chloroethane	75-00-3	1
14	Diethyl ether	60-29-7	12.5 (10 ok)
15	Dimethyl ether — see note 22	115-10-6	12.5 (10 ok)
16	Methylene chloride	75-09-2	1
17	1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	1
18	Benzene	71-43-2	1
19	1,1-Dichloroethene	75-35-4	1
20	Tetrahydrofuran		25
21	Vinyl Chloride		1

↑ OK to report to 10 µg/L. JCF. 6.17.25

Notes
13-16 added 10/03. JCF
Revised 10/31/03 JCF

17 added 0704. Revised 7/28/2004
10/2008 JCF
18 added 04 2011. JCF
19 added 04 2014 KPO
20 added 04 2016 JCF
21 added 08 2020 JCF –

22. Lab can now analyze by 8260D due to VELAP accreditation. Formerly analyzed by 8260C. JCF 6.17.25

ok JCF 6.17.25

Current as of 2021 Permit Mod. JCF 9-13-2021
Current as of 05/09/2023 JCF 5-9-23
Current as of 4-18-24 JCF – noted ok to report to 10 due to rounding issues.

.t:\environmental\bbg\databases\raap\sample event set up\semi-annual events\hwmu-16\hwmu16-target analyte list-sa current as of 04-18-24.docx

25 ml purge volume

ANALYTICAL METHOD: 8270E/3510C
TYPE METHOD: GCMS
CLASS: ~~SEMIVOLATILE~~

No.	ANALYTE	CAS RN	Required LOQ (µg/l)
1.	2,4-dinitrotoluene	121-14-2	10
2.	2,6-dinitrotoluene	606-20-2	10
3.	Diethylphthalate		5

10/13 – diethylphthate added
Current as of 2021 Permit Mod. JCF 9-13-2021
Current as of 05/09/2023 JCF 5-9-23
Current as of 4-18-2024 JCF- note SVOCs moved to ELLE. Extraction method updated to 3510C.

ok JCF 6.17.25

rev 1 4/22/24 JKF pg 4/24

ANALYTICAL METHOD: SEE BELOW
TYPE METHOD: SEE BELOW
CLASS: TOTAL

Method SW 846-6020B/3005A (ICP/MS)

No.	ANALYTE	CAS RN	Required LOQ/QL (µg/l)
1.	Arsenic	7440-38-2	10
2.	Barium	7440-39-3	10
3.	Beryllium	7440-41-7	1
4.	Cadmium	7440-43-9	1
5.	Chromium	7440-47-3	5
6.	Cobalt	7440-48-4	5
7.	Copper	7440-50-8	5
8.	Lead	7440-92-1	3
9.	Nickel	7440-02-0	10
10.	Vanadium	7440-62-2	10
11.	Zinc	7440-66-6	30
12	Silver	7440-22-4	2

Note * Silver added as of 4/24. JKF 4/22/24

Method SW 7470A/CVAA

12	Mercury	7439-97-6 2/7470A	2

Notes.

- Antimony, selenium and silver deleted 4-6,2012.
- 11 Zinc QL increased 11 2016, lead increased to 2 ppb.
- 10/2016 JCF- rev 102017
- **10/2018 – Changed to 6020 "B" for Shealy. 6020 "A" can still be used. No other changes. Still current.**
- **Current as of 2021 Permit Mod. JCF 9-13-2021**
- **Current as of 05/09/2023 JCF 5-9-23**
- **24 0422 – updated to include silver detected 3Q23. Waiting on final permit mod**

Report to at or above QL only. JCF 4-18-2024

ok JCF 6.17.25
RLS ✓
JKF 6.17.25

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Login Sample Receipt Checklist

Client: TRC, Engineers, Inc.

Job Number: 410-229895-1

Login Number: 229895
List Number: 1
Creator: Metzger, Katherine A

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

Question	Answer	Comment
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	True	
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	

Comprehensive Data Validation Report

Radford Army Ammunition Plant (RFAAP), Radford, Virginia

Sample/Blind Field Duplicate Results Greater Than the Quantitation Limit

Facility: HWMU-16 Monitoring Event: Second Quarter 2025

Analyte	Sample ID	Laboratory Result (ug/L)	Q	Validated Result (ug/L)	Q	QL (ug/L)	Validation Notes
Method: 6020B							
Laboratory: ELLE, Lancaster, PA							
Barium	16WC1A	360		360		10	No action taken.
	16WDUP	360		360		10	No action taken. Blind field duplicate of 16WC1A. RPD 0.0.
Cobalt	16WC1A	12		12		5	No action taken.
	16WDUP	11		11		5	No action taken. Blind field duplicate of 16WC1A. RPD 8.7.
Method: 8260D							
Laboratory: ELLE, Lancaster, PA							
Chloroethane	16WC1A	1.2		1.2		1	No action taken.
	16WDUP	1.1		1.1		1	No action taken. Blind field duplicate of 16WC1A. RPD 8.7%.
1,1-Dichloroethane	16WC1A	2		2.0		1	No action taken.
	16WDUP	1.9		1.9		1	No action taken. Blind duplicate submitted or 16WC1A. RPD 5.1%.
Diethyl ether	16WC1A	16		16	J	10	MSD recovered low (56%).
	16WDUP	15		15	J	10	MSD recovered low (56%). Blind field duplicate of 16WC1A. RPD 6.4%.

Definitions:

Data Validation Qualifiers:

QL Denotes permit quantitation limit. **Q** Denotes data qualifier.

J Denotes analyte reported at or above quantitation limit and associated result is estimated.

See last page of this report for definitions.

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF GENERAL SERVICES
DIVISION OF CONSOLIDATED LABORATORY SERVICES

Certifies that

VA Laboratory ID#: 460182
Eurofins Lancaster Laboratories Environment Testing, LLC

2425 New Holland Pike
Lancaster, PA 17601

Owner: EUROFINS LANCASTER LABORATORIES ENVIRONMENT TESTING, LLC
Responsible Official: RICHARD KARAM

Having met the requirements of 1 VAC 30-46 and
having been found compliant with the 2016 TNI Standard approved by The NELAC Institute
is hereby approved as an

Accredited Environmental Laboratory

As more fully described in the attached Scope of Accreditation

Effective Date: **June 15, 2025**
Expiration Date: **June 14, 2026**
Certificate # 13454

Denise M. Toney

Denise M. Toney, Ph.D., HCLD
DGS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.
Certificate to be conspicuously displayed at the laboratory.
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP) Scope of Accreditation.
Customers are urged to verify the laboratory's current accreditation status.

Certificate Not Transferable

Surrender Upon Revocation

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 13454

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601

Virginia Laboratory ID: 460182
Effective Date: June 15, 2025
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AIR

METHOD	ANALYTE	PRIMARY
EPA 18	TOTAL GASEOUS ORGANIC COMPOUNDS	LA DEQ
EPA TO-15 2nd Ed.	1,1,1-TRICHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	LA DEQ
EPA TO-15 2nd Ed.	1,1-DICHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,2,4-TRICHLOROBENZENE	LA DEQ
EPA TO-15 2nd Ed.	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLORO-1,1,2,2-TETRAFLUOR OETHANE (FREON-114)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	LA DEQ
EPA TO-15 2nd Ed.	1,3,5-TRIMETHYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	LA DEQ
EPA TO-15 2nd Ed.	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	LA DEQ
EPA TO-15 2nd Ed.	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	LA DEQ
EPA TO-15 2nd Ed.	ACROLEIN (PROPENAL)	LA DEQ
EPA TO-15 2nd Ed.	ALLYL CHLORIDE (3-CHLOROPROPENE)	LA DEQ
EPA TO-15 2nd Ed.	BENZYL CHLORIDE	LA DEQ
EPA TO-15 2nd Ed.	BROMOFORM	LA DEQ
EPA TO-15 2nd Ed.	CARBON TETRACHLORIDE	LA DEQ
EPA TO-15 2nd Ed.	CHLORODIBROMOMETHANE	LA DEQ
EPA TO-15 2nd Ed.	CHLOROFORM	LA DEQ
EPA TO-15 2nd Ed.	CIS-1,3-DICHLOROPROPENE	LA DEQ
EPA TO-15 2nd Ed.	DICHLORODIFLUOROMETHANE (FREON-12)	LA DEQ
EPA TO-15 2nd Ed.	ETHYL ACRYLATE	LA DEQ
EPA TO-15 2nd Ed.	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	LA DEQ
EPA TO-15 2nd Ed.	IODOMETHANE (METHYL IODIDE)	LA DEQ
EPA TO-15 2nd Ed.	M+P-XYLENE	LA DEQ
EPA TO-15 2nd Ed.	METHYL CHLORIDE (CHLOROMETHANE)	LA DEQ
EPA TO-15 2nd Ed.	METHYL TERT-BUTYL ETHER (MTBE)	LA DEQ
EPA TO-15 2nd Ed.	N-HEPTANE	LA DEQ
EPA TO-15 2nd Ed.	O-XYLENE	LA DEQ
EPA TO-15 2nd Ed.	STYRENE	LA DEQ

METHOD	ANALYTE	PRIMARY
EPA 25	TOTAL GASEOUS NONMETHANE ORGANIC COMPOUNDS (TGNMO)	LA DEQ
EPA TO-15 2nd Ed.	1,1,2,2-TETRACHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,1,2-TRICHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	1,1-DICHLOROETHYLENE	LA DEQ
EPA TO-15 2nd Ed.	1,2,4-TRIMETHYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	LA DEQ
EPA TO-15 2nd Ed.	1,2-DICHLOROPROPANE	LA DEQ
EPA TO-15 2nd Ed.	1,3-BUTADIENE	LA DEQ
EPA TO-15 2nd Ed.	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	LA DEQ
EPA TO-15 2nd Ed.	2-BUTANONE (METHYL ETHYL KETONE, MEK)	LA DEQ
EPA TO-15 2nd Ed.	ACETONITRILE	LA DEQ
EPA TO-15 2nd Ed.	ACRYLONITRILE	LA DEQ
EPA TO-15 2nd Ed.	BENZENE	LA DEQ
EPA TO-15 2nd Ed.	BROMODICHLOROMETHANE	LA DEQ
EPA TO-15 2nd Ed.	CARBON DISULFIDE	LA DEQ
EPA TO-15 2nd Ed.	CHLOROBENZENE	LA DEQ
EPA TO-15 2nd Ed.	CHLOROETHANE (ETHYL CHLORIDE)	LA DEQ
EPA TO-15 2nd Ed.	CIS-1,2-DICHLOROETHYLENE	LA DEQ
EPA TO-15 2nd Ed.	CYCLOHEXANE	LA DEQ
EPA TO-15 2nd Ed.	ETHYL ACETATE	LA DEQ
EPA TO-15 2nd Ed.	ETHYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	HEXACHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed.	ISOPROPYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	METHYL BROMIDE (BROMOMETHANE)	LA DEQ
EPA TO-15 2nd Ed.	METHYL METHACRYLATE	LA DEQ
EPA TO-15 2nd Ed.	METHYLENE CHLORIDE (DICHLOROMETHANE)	LA DEQ
EPA TO-15 2nd Ed.	N-HEXANE	LA DEQ
EPA TO-15 2nd Ed.	PROPYLENE (PROPENE)	LA DEQ

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

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Expiration Date: June 14, 2026

AIR

METHOD	ANALYTE	PRIMARY
EPA TO-15 2nd Ed.	TETRACHLOROETHENE (PERCHLOROETHENE)	LA DEQ
EPA TO-15 2nd Ed.	TOLUENE	LA DEQ
EPA TO-15 2nd Ed.	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	LA DEQ
EPA TO-15 2nd Ed.	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	LA DEQ
EPA TO-15 2nd Ed.	VINYL BROMIDE (BROMOETHENE)	LA DEQ
EPA TO-15 2nd Ed.	XYLENE (TOTAL)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	2-CHLOROTOLUENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	4-ETHYLTOLUENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ACETONE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ETHANOL	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ISOOCTANE (2,2,4-TRIMETHYLPENTANE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-BUTYLBENZENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-PENTANE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	NAPHTHALENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	TERT-AMYL METHYL ETHER (TAME)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	TERT-BUTYLBENZENE	LA DEQ
EPA TO-15 2nd Ed.	TETRAHYDROFURAN (THF)	LA DEQ
EPA TO-15 2nd Ed.	TRANS-1,2-DICHLOROETHENE	LA DEQ
EPA TO-15 2nd Ed.	TRICHLOROETHENE (TRICHLOROETHYLENE)	LA DEQ
EPA TO-15 2nd Ed.	VINYL ACETATE	LA DEQ
EPA TO-15 2nd Ed.	VINYL CHLORIDE (CHLOROETHENE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	1,1,1,2-TETRACHLOROETHANE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	2-HEXANONE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	CHLORODIFLUOROMETHANE (FREON-22)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	DICHLOROFLUOROMETHANE (FREON 21)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-OCTANE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	N-PROPYLBENZENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	SEC-BUTYLBENZENE	LA DEQ
EPA TO-15 2nd Ed. - EXTENDED	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	LA DEQ

DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 200.7 REV 4.4	BARIUM	PA
EPA 200.7 REV 4.4	CHROMIUM	PA
EPA 200.7 REV 4.4	IRON	PA
EPA 200.7 REV 4.4	MANGANESE	PA
EPA 200.7 REV 4.4	SILVER	PA
EPA 200.7 REV 4.4	ZINC	PA
EPA 200.8 REV 5.4	ANTIMONY	PA
EPA 180.1 REV 2	TURBIDITY	PA
EPA 200.7 REV 4.4	CALCIUM	PA
EPA 200.7 REV 4.4	COPPER	PA
EPA 200.7 REV 4.4	MAGNESIUM	PA
EPA 200.7 REV 4.4	NICKEL	PA
EPA 200.7 REV 4.4	SODIUM	PA
EPA 200.8 REV 5.4	ALUMINUM	PA
EPA 200.8 REV 5.4	ARSENIC	PA

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DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	BARIUM	PA
EPA 200.8 REV 5.4	CADMIUM	PA
EPA 200.8 REV 5.4	COPPER	PA
EPA 200.8 REV 5.4	LEAD	PA
EPA 200.8 REV 5.4	NICKEL	PA
EPA 200.8 REV 5.4	SODIUM	PA
EPA 200.8 REV 5.4	ZINC	PA
EPA 300.0 REV 2.1	CHLORIDE	PA
EPA 300.0 REV 2.1	NITRATE AS N	PA
EPA 300.0 REV 2.1	SULFATE	PA
EPA 353.2 REV 2	NITRATE AS N	PA
EPA 353.2 REV 2	NITRITE AS N	PA
EPA 524.2 REV 4.1	1,1,2-TRICHLOROETHANE	PA
EPA 524.2 REV 4.1	1,2,4-TRICHLOROBENZENE	PA
EPA 524.2 REV 4.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 524.2 REV 4.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 524.2 REV 4.1	BROMODICHLOROMETHANE	PA
EPA 524.2 REV 4.1	CARBON TETRACHLORIDE	PA
EPA 524.2 REV 4.1	CHLORODIBROMOMETHANE	PA
EPA 524.2 REV 4.1	CIS-1,2-DICHLOROETHYLENE	PA
EPA 524.2 REV 4.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 524.2 REV 4.1	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 524.2 REV 4.1	TOTAL TRIHALOMETHANES (TTHMS)	PA
EPA 524.2 REV 4.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 524.2 REV 4.1	XYLENE (TOTAL)	PA
EPA 531.1 REV 3.1	OXAMYL	PA
EPA 533	PERFLUORO-1-BUTANESULFONIC ACID (PFBS)	PA
EPA 533	PERFLUORO-1-OCTANESULFONIC ACID (PFOS)	PA
EPA 533	PERFLUOROOCTANOIC ACID (PFOA)	PA
EPA 537.1 REV 2	PERFLUORO-1-BUTANESULFONIC ACID (PFBS)	PA
EPA 537.1 REV 2	PERFLUORO-1-OCTANESULFONIC ACID (PFOS)	PA

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4	BERYLLIUM	PA
EPA 200.8 REV 5.4	CHROMIUM	PA
EPA 200.8 REV 5.4	IRON	PA
EPA 200.8 REV 5.4	MANGANESE	PA
EPA 200.8 REV 5.4	SELENIUM	PA
EPA 200.8 REV 5.4	THALLIUM	PA
EPA 245.1 REV 3	MERCURY	PA
EPA 300.0 REV 2.1	FLUORIDE	PA
EPA 300.0 REV 2.1	NITRITE AS N	PA
EPA 335.4 REV 1.0	CYANIDE	PA
EPA 353.2 REV 2	NITRATE-NITRITE AS N	PA
EPA 524.2 REV 4.1	1,1,1-TRICHLOROETHANE	PA
EPA 524.2 REV 4.1	1,1-DICHLOROETHYLENE	PA
EPA 524.2 REV 4.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 524.2 REV 4.1	1,2-DICHLOROPROPANE	PA
EPA 524.2 REV 4.1	BENZENE	PA
EPA 524.2 REV 4.1	BROMOFORM	PA
EPA 524.2 REV 4.1	CHLOROBENZENE	PA
EPA 524.2 REV 4.1	CHLOROFORM	PA
EPA 524.2 REV 4.1	ETHYLBENZENE	PA
EPA 524.2 REV 4.1	STYRENE	PA
EPA 524.2 REV 4.1	TOLUENE	PA
EPA 524.2 REV 4.1	TRANS-1,2-DICHLOROETHENE	PA
EPA 524.2 REV 4.1	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 531.1 REV 3.1	CARBOFURAN (FURADEN)	PA
EPA 533	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA, GENX)	PA
EPA 533	PERFLUORO-1-HEXANESULFONIC ACID (PFHXS)	PA
EPA 533	PERFLUORONONANOIC ACID (PFNA)	PA
EPA 537.1 REV 2	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA, GENX)	PA
EPA 537.1 REV 2	PERFLUORO-1-HEXANESULFONIC ACID (PFHXS)	PA
EPA 537.1 REV 2	PERFLUORONONANOIC ACID (PFNA)	PA

Commonwealth of Virginia

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Virginia Laboratory ID: 460182
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DRINKING WATER

METHOD	ANALYTE	PRIMARY
EPA 537.1 REV 2	PERFLUOROOCTANOIC ACID (PFOA)	PA
SM 2130 B-2020	TURBIDITY	PA
SM 2510 B-2021	CONDUCTIVITY	PA
SM 4500-F⁻ C-2021	FLUORIDE	PA
SM 4500-P E-2021	ORTHOPHOSPHATE AS P	PA
SM 5310 C-2014	DISSOLVED ORGANIC CARBON (DOC)	PA
SM 5540 C-2021	SURFACTANTS - MBAS	PA
SM 2120 B-2021	COLOR	PA
SM 2320 B-2021	ALKALINITY AS CACO3	PA
SM 2540 C-2020	RESIDUE-FILTERABLE (TDS)	PA
SM 4500-H+ B-2021	PH	PA
SM 4500-SIO2 C-2021	SILICA AS SIO2	PA
SM 5310 C-2014	TOTAL ORGANIC CARBON (TOC)	PA

NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1010 A	FLASHPOINT	PA
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 1613 B	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 1613 B	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 1613 B	TOTAL HEPTACHLORODIBENZOFURAN (HPCDF, TOTAL)	PA
EPA 1613 B	TOTAL HEXACHLORODIBENZOFURAN (HXCDF, TOTAL)	PA
EPA 1613 B	TOTAL PENTACHLORODIBENZOFURAN (PECDF, TOTAL)	PA
EPA 1613 B	TOTAL TETRACHLORODIBENZOFURAN (TCDF, TOTAL)	PA
EPA 1010 B	FLASHPOINT	PA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 1613 B	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 1613 B	TOTAL HEPTACHLORODIBENZO-P-DIOXIN (HPCDD, TOTAL)	PA
EPA 1613 B	TOTAL HEXACHLORODIBENZO-P-DIOXIN (HXCDD, TOTAL)	PA
EPA 1613 B	TOTAL PENTACHLORODIBENZO-P-DIOXIN (PECDD, TOTAL)	PA
EPA 1613 B	TOTAL TETRACHLORODIBENZO-P-DIOXIN (TCDD, TOTAL)	PA
EPA 1621	ADSORBABLE ORGANOFLUORINE (AOF) AS FLUORIDE	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1633A	11-CHLOROEICOSAFLUORO-3-OXA UNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	PA
EPA 1633A	1H, 1H, 2H, 2H-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	PA
EPA 1633A	2H,2H,3H,3H-PERFLUOROOCTANOI C ACID (5:3 FTCA)	PA
EPA 1633A	3-PERFLUOROPROPYL PROPANOIC ACID (3:3 FTCA)	PA
EPA 1633A	9-CHLOROHEXADECAFLUORO-3-OX ANONANE-1-SULFONIC ACID (9CL-PF3ONS)	PA
EPA 1633A	N-ETHYL PERFLUOROOCTANESULFONAMID E (NETFOSA, ETFOSAM)	PA
EPA 1633A	N-ETHYLPERFLUORO-1-OCTANESU LFONAMIDOACETIC ACID (N-ETFOSAA)	PA
EPA 1633A	N-METHYL PERFLUOROOCTANESULFONAMID OETHANOL (NMEFOSE, MEFOSE)	PA
EPA 1633A	NONAFLUORO-3,6-DIOXAHEPTANOI C ACID (NFDHA)	PA
EPA 1633A	PERFLUORO-1-BUTANESULFONIC ACID (PFBS)	PA
EPA 1633A	PERFLUORO-1-HEPTANESULFONIC ACID (PFHPS)	PA
EPA 1633A	PERFLUORO-1-NONANESULFONIC ACID (PFNS)	PA
EPA 1633A	PERFLUORO-1-OCTANESULFONIC ACID (PFOS)	PA
EPA 1633A	PERFLUORO-3-METHOXYPROPANO IC ACID (PFMPA)	PA
EPA 1633A	PERFLUOROBUTANOIC ACID (PFBA)	PA
EPA 1633A	PERFLUORODODECANESULFONIC ACID (PFDOS)	PA
EPA 1633A	PERFLUOROHEPTANOIC ACID (PFHPA)	PA
EPA 1633A	PERFLUORONONANOIC ACID (PFNA)	PA
EPA 1633A	PERFLUOROPENTANOIC ACID (PFPEA)	PA
EPA 1633A	PERFLUOROTRIDECANOIC ACID (PFTRDA)	PA
EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	PA
EPA 1666 A	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 1633A	1H, 1H, 2H, 2H-PERFLUORODECANE SULFONIC ACID (8:2 FTS)	PA
EPA 1633A	1H, 1H, 2H, 2H-PERFLUOROOCTANE SULFONIC ACID (6:2 FTS)	PA
EPA 1633A	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3 FTCA)	PA
EPA 1633A	4,8-DIOXA-3H-PERFLUORONONANO IC ACID (ADONA, DONA)	PA
EPA 1633A	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA, GENX)	PA
EPA 1633A	N-ETHYL PERFLUOROOCTANESULFONAMID OETHANOL (NETFOSE, ETFOSE)	PA
EPA 1633A	N-METHYL PERFLUOROOCTANESULFONAMID E (NMEFOSA, MEFOSA)	PA
EPA 1633A	N-METHYLPERFLUORO-1-OCTANES ULFONAMIDOACETIC ACID (N-MEFOSAA)	PA
EPA 1633A	PERFLUORO(2-ETHOXYETHANE)SU LFONIC ACID (PFEESA)	PA
EPA 1633A	PERFLUORO-1-DECANESULFONIC ACID (PFDS)	PA
EPA 1633A	PERFLUORO-1-HEXANESULFONIC ACID (PFHXS)	PA
EPA 1633A	PERFLUORO-1-OCTANESULFONAMI DE (PFOSA, PFOSAM)	PA
EPA 1633A	PERFLUORO-1-PENTANESULFONIC ACID (PFPES)	PA
EPA 1633A	PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	PA
EPA 1633A	PERFLUORODECANOIC ACID (PFDA)	PA
EPA 1633A	PERFLUORODODECANOIC ACID (PFDOA, PFDODA)	PA
EPA 1633A	PERFLUOROHEXANOIC ACID (PFHXA)	PA
EPA 1633A	PERFLUOROOCTANOIC ACID (PFOA)	PA
EPA 1633A	PERFLUOROTETRADECANOIC ACID (PFTA, PFTDA, PFTEDA)	PA
EPA 1633A	PERFLUOROUNDECANOIC ACID (PFUNA, PFUNDA)	PA
EPA 1664 B	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	PA
EPA 1666 A	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1666 A	ETHYL ACETATE	PA
EPA 1666 A	ISOPROPYL ACETATE	PA
EPA 1666 A	M+P-XYLENE	PA
EPA 1666 A	N-AMYL ACETATE	PA
EPA 1666 A	N-BUTYL-ACETATE	PA
EPA 1666 A	N-HEXANE	PA
EPA 1666 A	TETRAHYDROFURAN (THF)	PA
EPA 1668 A	2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL (BZ-206)	PA
EPA 1668 A	2,2',3,3',4,4',5,6'-OCTACHLOROBIPHENYL (BZ-196)	PA
EPA 1668 A	2,2',3,3',4,4',5,6-OCTACHLOROBIPHENYL BZ-195)	PA
EPA 1668 A	2,2',3,3',4,4',6,6'-OCTACHLOROBIPHENYL (BZ-197)	PA
EPA 1668 A	2,2',3,3',4,4'-HEXACHLOROBIPHENYL (BZ-128)	PA
EPA 1668 A	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL (BZ-201)	PA
EPA 1668 A	2,2',3,3',4,5'-HEXACHLOROBIPHENYL (BZ-130)	PA
EPA 1668 A	2,2',3,3',4,5,5',6,6'-NONACHLOROBIPHENYL (BZ-208)	PA
EPA 1668 A	2,2',3,3',4,5,5'-HEPTACHLOROBIPHENYL (BZ-172)	PA
EPA 1668 A	2,2',3,3',4,5,6,6'-OCTACHLOROBIPHENYL (BZ-200)	PA
EPA 1668 A	2,2',3,3',4,5-HEXACHLOROBIPHENYL (BZ-129)	PA
EPA 1668 A	2,2',3,3',4,6,6'-HEPTACHLOROBIPHENYL (BZ-176)	PA
EPA 1668 A	2,2',3,3',4-PENTACHLOROBIPHENYL (BZ-82)	PA
EPA 1668 A	2,2',3,3',5,5',6-HEPTACHLOROBIPHENYL (BZ-178)	PA
EPA 1668 A	2,2',3,3',5,6'-HEXACHLOROBIPHENYL (BZ-135)	PA
EPA 1668 A	2,2',3,3',5,6-HEXACHLOROBIPHENYL (BZ-134)	PA
EPA 1668 A	2,2',3,3',6,6'-HEXACHLOROBIPHENYL (BZ-136)	PA
EPA 1668 A	2,2',3,3'-TETRACHLOROBIPHENYL (BZ-40)	PA
EPA 1668 A	2,2',3,4',5'-PENTACHLOROBIPHENYL (BZ-97)	PA
EPA 1668 A	2,2',3,4',5,5'-HEXACHLOROBIPHENYL (BZ-146)	PA
EPA 1666 A	ISOBUTYRALDEHYDE	PA
EPA 1666 A	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 1666 A	METHYL FORMATE	PA
EPA 1666 A	N-AMYL ALCOHOL	PA
EPA 1666 A	N-HEPTANE	PA
EPA 1666 A	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 1666 A	XYLENE (TOTAL)	PA
EPA 1668 A	2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL (BZ-194)	PA
EPA 1668 A	2,2',3,3',4,4',5,6,6'-NONACHLOROBIPHENYL (BZ-207)	PA
EPA 1668 A	2,2',3,3',4,4',5-HEPTACHLOROBIPHENYL (BZ-170)	PA
EPA 1668 A	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL (BZ-171)	PA
EPA 1668 A	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL (BZ-177)	PA
EPA 1668 A	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL (BZ-175)	PA
EPA 1668 A	2,2',3,3',4,5,5',6'-OCTACHLOROBIPHENYL (BZ-199)	PA
EPA 1668 A	2,2',3,3',4,5,5',6-OCTACHLOROBIPHENYL (BZ-198)	PA
EPA 1668 A	2,2',3,3',4,5,6'-HEPTACHLOROBIPHENYL (BZ-174)	PA
EPA 1668 A	2,2',3,3',4,5,6-HEPTACHLOROBIPHENYL (BZ-173)	PA
EPA 1668 A	2,2',3,3',4,6'-HEXACHLOROBIPHENYL (BZ-132)	PA
EPA 1668 A	2,2',3,3',4,6-HEXACHLOROBIPHENYL (BZ-131)	PA
EPA 1668 A	2,2',3,3',5,5',6,6'-OCTACHLOROBIPHENYL (BZ-202)	PA
EPA 1668 A	2,2',3,3',5,5'-HEXACHLOROBIPHENYL (BZ-133)	PA
EPA 1668 A	2,2',3,3',5,6,6'-HEPTACHLOROBIPHENYL (BZ-179)	PA
EPA 1668 A	2,2',3,3',5-PENTACHLOROBIPHENYL (BZ-83)	PA
EPA 1668 A	2,2',3,3',6-PENTACHLOROBIPHENYL (BZ-84)	PA
EPA 1668 A	2,2',3,4',5',6-HEXACHLOROBIPHENYL (BZ-149)	PA
EPA 1668 A	2,2',3,4',5,5',6-HEPTACHLOROBIPHENYL (BZ-187)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',3,4',5,6'-HEXACHLOROBIPHENYL (BZ-148)	PA
EPA 1668 A	2,2',3,4',5,6-HEXACHLOROBIPHENYL (BZ-147)	PA
EPA 1668 A	2,2',3,4',6'-PENTACHLOROBIPHENYL (BZ-98)	PA
EPA 1668 A	2,2',3,4',6-PENTACHLOROBIPHENYL (BZ-91)	PA
EPA 1668 A	2,2',3,4,4',5',6-HEPTACHLOROBIPHENYL (BZ-183)	PA
EPA 1668 A	2,2',3,4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-203)	PA
EPA 1668 A	2,2',3,4,4',5,6'-HEPTACHLOROBIPHENYL (BZ-182)	PA
EPA 1668 A	2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL (BZ-181)	PA
EPA 1668 A	2,2',3,4,4',6'-HEXACHLOROBIPHENYL (BZ-140)	PA
EPA 1668 A	2,2',3,4,4',6-HEXACHLOROBIPHENYL (BZ-139)	PA
EPA 1668 A	2,2',3,4,5',6-HEXACHLOROBIPHENYL (BZ-144)	PA
EPA 1668 A	2,2',3,4,5,5',6-HEPTACHLOROBIPHENYL (BZ-185)	PA
EPA 1668 A	2,2',3,4,5,6'-HEXACHLOROBIPHENYL (BZ-143)	PA
EPA 1668 A	2,2',3,4,5,6-HEXACHLOROBIPHENYL (BZ-142)	PA
EPA 1668 A	2,2',3,4,6'-PENTACHLOROBIPHENYL (BZ-89)	PA
EPA 1668 A	2,2',3,4,6-PENTACHLOROBIPHENYL (BZ-88)	PA
EPA 1668 A	2,2',3,5',6-PENTACHLOROBIPHENYL (BZ-95)	PA
EPA 1668 A	2,2',3,5,5',6-HEXACHLOROBIPHENYL (BZ-151)	PA
EPA 1668 A	2,2',3,5,6'-PENTACHLOROBIPHENYL (BZ-94)	PA
EPA 1668 A	2,2',3,5,6-PENTACHLOROBIPHENYL (BZ-93)	PA
EPA 1668 A	2,2',3,6'-TETRACHLOROBIPHENYL (BZ-46)	PA
EPA 1668 A	2,2',3,6-TETRACHLOROBIPHENYL (BZ-45)	PA
EPA 1668 A	2,2',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-153)	PA
EPA 1668 A	2,2',4,4',5-PENTACHLOROBIPHENYL (BZ-99)	PA
EPA 1668 A	2,2',4,4',6-PENTACHLOROBIPHENYL (BZ-100)	PA
EPA 1668 A	2,2',3,4',5,6,6'-HEPTACHLOROBIPHENYL (BZ-188)	PA
EPA 1668 A	2,2',3,4',5-PENTACHLOROBIPHENYL (BZ-90)	PA
EPA 1668 A	2,2',3,4',6,6'-HEXACHLOROBIPHENYL (BZ-150)	PA
EPA 1668 A	2,2',3,4'-TETRACHLOROBIPHENYL (BZ-42)	PA
EPA 1668 A	2,2',3,4,4',5'-HEXACHLOROBIPHENYL (BZ-138)	PA
EPA 1668 A	2,2',3,4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-180)	PA
EPA 1668 A	2,2',3,4,4',5,6,6'-OCTACHLOROBIPHENYL (BZ-204)	PA
EPA 1668 A	2,2',3,4,4',5-HEXACHLOROBIPHENYL (BZ-137)	PA
EPA 1668 A	2,2',3,4,4',6,6'-HEPTACHLOROBIPHENYL (BZ-184)	PA
EPA 1668 A	2,2',3,4,4'-PENTACHLOROBIPHENYL (BZ-85)	PA
EPA 1668 A	2,2',3,4,5'-PENTACHLOROBIPHENYL (BZ-87)	PA
EPA 1668 A	2,2',3,4,5,5'-HEXACHLOROBIPHENYL (BZ-141)	PA
EPA 1668 A	2,2',3,4,5,6,6'-HEPTACHLOROBIPHENYL (BZ-186)	PA
EPA 1668 A	2,2',3,4,5-PENTACHLOROBIPHENYL (BZ-86)	PA
EPA 1668 A	2,2',3,4,6,6'-HEXACHLOROBIPHENYL (BZ-145)	PA
EPA 1668 A	2,2',3,4-TETRACHLOROBIPHENYL (BZ-41)	PA
EPA 1668 A	2,2',3,5'-TETRACHLOROBIPHENYL (BZ-44)	PA
EPA 1668 A	2,2',3,5,5'-PENTACHLOROBIPHENYL (BZ-92)	PA
EPA 1668 A	2,2',3,5,6,6'-HEXACHLOROBIPHENYL (BZ-152)	PA
EPA 1668 A	2,2',3,5-TETRACHLOROBIPHENYL (BZ-43)	PA
EPA 1668 A	2,2',3,6,6'-PENTACHLOROBIPHENYL (BZ-96)	PA
EPA 1668 A	2,2',3-TRICHLOROBIPHENYL (BZ-16)	PA
EPA 1668 A	2,2',4,4',5,6'-HEXACHLOROBIPHENYL (BZ-154)	PA
EPA 1668 A	2,2',4,4',6,6'-HEXACHLOROBIPHENYL (BZ-155)	PA
EPA 1668 A	2,2',4,4'-TETRACHLOROBIPHENYL (BZ-47)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',4,5',6-PENTACHLOROBIPHENYL (BZ-103)	PA
EPA 1668 A	2,2',4,5,5'-PENTACHLOROBIPHENYL (BZ-101)	PA
EPA 1668 A	2,2',4,5-TETRACHLOROBIPHENYL (BZ-48)	PA
EPA 1668 A	2,2',4,6,6'-PENTACHLOROBIPHENYL (BZ-104)	PA
EPA 1668 A	2,2',4-TRICHLOROBIPHENYL (BZ-17)	PA
EPA 1668 A	2,2',5,6'-TETRACHLOROBIPHENYL (BZ-53)	PA
EPA 1668 A	2,2',6,6'-TETRACHLOROBIPHENYL (BZ-54)	PA
EPA 1668 A	2,2'-DICHLOROBIPHENYL (BZ-4)	PA
EPA 1668 A	2,3',4',5'-TETRACHLOROBIPHENYL (BZ-76)	PA
EPA 1668 A	2,3',4',5-TETRACHLOROBIPHENYL (BZ-70)	PA
EPA 1668 A	2,3',4'-TRICHLOROBIPHENYL (BZ-33)	PA
EPA 1668 A	2,3',4,4',5'-PENTACHLOROBIPHENYL (BZ-123)	PA
EPA 1668 A	2,3',4,4',5-PENTACHLOROBIPHENYL (BZ-118)	PA
EPA 1668 A	2,3',4,4'-TETRACHLOROBIPHENYL (BZ-66)	PA
EPA 1668 A	2,3',4,5'-TETRACHLOROBIPHENYL (BZ-68)	PA
EPA 1668 A	2,3',4,5-TETRACHLOROBIPHENYL (BZ-67)	PA
EPA 1668 A	2,3',4-TRICHLOROBIPHENYL (BZ-25)	PA
EPA 1668 A	2,3',5'-TRICHLOROBIPHENYL (BZ-34)	PA
EPA 1668 A	2,3',5-TRICHLOROBIPHENYL (BZ-26)	PA
EPA 1668 A	2,3'-DICHLOROBIPHENYL (BZ-6)	PA
EPA 1668 A	2,3,3',4',5'-PENTACHLOROBIPHENYL (BZ-122)	PA
EPA 1668 A	2,3,3',4',5,5'-HEXACHLOROBIPHENYL (BZ-162)	PA
EPA 1668 A	2,3,3',4',5-PENTACHLOROBIPHENYL (BZ-107)	PA
EPA 1668 A	2,3,3',4'-TETRACHLOROBIPHENYL (BZ-56)	PA
EPA 1668 A	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (BZ-157)	PA
EPA 1668 A	2,2',4,5'-TETRACHLOROBIPHENYL (BZ-49)	PA
EPA 1668 A	2,2',4,5,6'-PENTACHLOROBIPHENYL (BZ-102)	PA
EPA 1668 A	2,2',4,6'-TETRACHLOROBIPHENYL (BZ-51)	PA
EPA 1668 A	2,2',4,6-TETRACHLOROBIPHENYL (BZ-50)	PA
EPA 1668 A	2,2',5,5'-TETRACHLOROBIPHENYL (BZ-52)	PA
EPA 1668 A	2,2',5-TRICHLOROBIPHENYL (BZ-18)	PA
EPA 1668 A	2,2',6-TRICHLOROBIPHENYL (BZ-19)	PA
EPA 1668 A	2,3',4',5,6-PENTACHLOROBIPHENYL (BZ-125)	PA
EPA 1668 A	2,3',4',5,5'-PENTACHLOROBIPHENYL (BZ-124)	PA
EPA 1668 A	2,3',4',6-TETRACHLOROBIPHENYL (BZ-71)	PA
EPA 1668 A	2,3',4,4',5',6-HEXACHLOROBIPHENYL (BZ-168)	PA
EPA 1668 A	2,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-167)	PA
EPA 1668 A	2,3',4,4',6-PENTACHLOROBIPHENYL (BZ-119)	PA
EPA 1668 A	2,3',4,5',6-PENTACHLOROBIPHENYL (BZ-121)	PA
EPA 1668 A	2,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-120)	PA
EPA 1668 A	2,3',4,6-TETRACHLOROBIPHENYL (BZ-69)	PA
EPA 1668 A	2,3',5',6-TETRACHLOROBIPHENYL (BZ-73)	PA
EPA 1668 A	2,3',5,5'-TETRACHLOROBIPHENYL (BZ-72)	PA
EPA 1668 A	2,3',6-TRICHLOROBIPHENYL (BZ-27)	PA
EPA 1668 A	2,3,3',4',5',6-HEXACHLOROBIPHENYL (BZ-164)	PA
EPA 1668 A	2,3,3',4',5,5',6-HEPTACHLOROBIPHENYL (BZ-193)	PA
EPA 1668 A	2,3,3',4',5,6-HEXACHLOROBIPHENYL (BZ-163)	PA
EPA 1668 A	2,3,3',4',6-PENTACHLOROBIPHENYL (BZ-110)	PA
EPA 1668 A	2,3,3',4,4',5',6-HEPTACHLOROBIPHENYL (BZ-191)	PA
EPA 1668 A	2,3,3',4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-205)	PA

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METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-189)	PA
EPA 1668 A	2,3,3',4,4',5-HEXACHLOROBIPHENYL (BZ-156)	PA
EPA 1668 A	2,3,3',4,4'-PENTACHLOROBIPHENYL (BZ-105)	PA
EPA 1668 A	2,3,3',4,5'-PENTACHLOROBIPHENYL (BZ-108)	PA
EPA 1668 A	2,3,3',4,5,5'-HEXACHLOROBIPHENYL (BZ-159)	PA
EPA 1668 A	2,3,3',4,5-PENTACHLOROBIPHENYL (BZ-106)	PA
EPA 1668 A	2,3,3',4-TETRACHLOROBIPHENYL (BZ-55)	PA
EPA 1668 A	2,3,3',5'-TETRACHLOROBIPHENYL (BZ-58)	PA
EPA 1668 A	2,3,3',5,5'-PENTACHLOROBIPHENYL (BZ-111)	PA
EPA 1668 A	2,3,3',5-TETRACHLOROBIPHENYL (BZ-57)	PA
EPA 1668 A	2,3,3'-TRICHLOROBIPHENYL (BZ-20)	PA
EPA 1668 A	2,3,4',5-TETRACHLOROBIPHENYL (BZ-63)	PA
EPA 1668 A	2,3,4'-TRICHLOROBIPHENYL (BZ-22)	PA
EPA 1668 A	2,3,4,4',5-PENTACHLOROBIPHENYL (BZ-114)	PA
EPA 1668 A	2,3,4,4'-TETRACHLOROBIPHENYL (BZ-60)	PA
EPA 1668 A	2,3,4,5-TETRACHLOROBIPHENYL (BZ-61)	PA
EPA 1668 A	2,3,4-TRICHLOROBIPHENYL (BZ-21)	PA
EPA 1668 A	2,3,5-TRICHLOROBIPHENYL (BZ-23)	PA
EPA 1668 A	2,3-DICHLOROBIPHENYL (BZ-5)	PA
EPA 1668 A	2,4',6-TRICHLOROBIPHENYL (BZ-32)	PA
EPA 1668 A	2,4,4',5-TETRACHLOROBIPHENYL (BZ-74)	PA
EPA 1668 A	2,4,4'-TRICHLOROBIPHENYL (BZ-28)	PA
EPA 1668 A	2,4,6-TRICHLOROBIPHENYL (BZ-30)	PA
EPA 1668 A	2,5-DICHLOROBIPHENYL (BZ-9)	PA
EPA 1668 A	2-CHLOROBIPHENYL (BZ-1)	PA
EPA 1668 A	3,3',4,4',5-PENTACHLOROBIPHENYL (BZ-126)	PA
EPA 1668 A	3,3',4,5'-TETRACHLOROBIPHENYL (BZ-79)	PA
EPA 1668 A	2,3,3',4,4',5,6-HEPTACHLOROBIPHENYL (BZ-190)	PA
EPA 1668 A	2,3,3',4,4',6-HEXACHLOROBIPHENYL (BZ-158)	PA
EPA 1668 A	2,3,3',4,5',6-HEXACHLOROBIPHENYL (BZ-161)	PA
EPA 1668 A	2,3,3',4,5,5',6-HEPTACHLOROBIPHENYL (BZ-192)	PA
EPA 1668 A	2,3,3',4,5,6-HEXACHLOROBIPHENYL (BZ-160)	PA
EPA 1668 A	2,3,3',4,6-PENTACHLOROBIPHENYL (BZ-109)	PA
EPA 1668 A	2,3,3',5',6-PENTACHLOROBIPHENYL (BZ-113)	PA
EPA 1668 A	2,3,3',5,5',6-HEXACHLOROBIPHENYL (BZ-165)	PA
EPA 1668 A	2,3,3',5,6-PENTACHLOROBIPHENYL (BZ-112)	PA
EPA 1668 A	2,3,3',6-TETRACHLOROBIPHENYL (BZ-59)	PA
EPA 1668 A	2,3,4',5,6-PENTACHLOROBIPHENYL (BZ-117)	PA
EPA 1668 A	2,3,4',6-TETRACHLOROBIPHENYL (BZ-64)	PA
EPA 1668 A	2,3,4,4',5,6-HEXACHLOROBIPHENYL (BZ-166)	PA
EPA 1668 A	2,3,4,4',6-PENTACHLOROBIPHENYL (BZ-115)	PA
EPA 1668 A	2,3,4,5,6-PENTACHLOROBIPHENYL (BZ-116)	PA
EPA 1668 A	2,3,4,6-TETRACHLOROBIPHENYL (BZ-62)	PA
EPA 1668 A	2,3,5,6-TETRACHLOROBIPHENYL (BZ-65)	PA
EPA 1668 A	2,3,6-TRICHLOROBIPHENYL (BZ-24)	PA
EPA 1668 A	2,4',5-TRICHLOROBIPHENYL (BZ-31)	PA
EPA 1668 A	2,4'-DICHLOROBIPHENYL (BZ-8)	PA
EPA 1668 A	2,4,4',6-TETRACHLOROBIPHENYL (BZ-75)	PA
EPA 1668 A	2,4,5-TRICHLOROBIPHENYL (BZ-29)	PA
EPA 1668 A	2,4-DICHLOROBIPHENYL (BZ-7)	PA
EPA 1668 A	2,6-DICHLOROBIPHENYL (BZ-10)	PA
EPA 1668 A	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-169)	PA
EPA 1668 A	3,3',4,4'-TETRACHLOROBIPHENYL (BZ-77)	PA
EPA 1668 A	3,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-127)	PA

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METHOD	ANALYTE	PRIMARY
EPA 1668 A	3,3',4,5-TETRACHLOROBIPHENYL (BZ-78)	PA
EPA 1668 A	3,3',5,5'-TETRACHLOROBIPHENYL (BZ-80)	PA
EPA 1668 A	3,3'-DICHLOROBIPHENYL (BZ-11)	PA
EPA 1668 A	3,4'-DICHLOROBIPHENYL (BZ-13)	PA
EPA 1668 A	3,4,4'-TRICHLOROBIPHENYL (BZ-37)	PA
EPA 1668 A	3,4-DICHLOROBIPHENYL (BZ-12)	PA
EPA 1668 A	3-CHLOROBIPHENYL (BZ-2)	PA
EPA 1668 A	4-CHLOROBIPHENYL (BZ-3)	PA
EPA 1671 A	2-METHOXYETHANOL (METHYL CELLOSOLVE)	PA
EPA 1671 A	DIETHYLAMINE	PA
EPA 1671 A	ETHANOL	PA
EPA 1671 A	N-PROPANOL (1-PROPANOL)	PA
EPA 180.1 REV 2	TURBIDITY	PA
EPA 200.7 REV 4.4	ANTIMONY	PA
EPA 200.7 REV 4.4	BARIUM	PA
EPA 200.7 REV 4.4	BORON	PA
EPA 200.7 REV 4.4	CALCIUM	PA
EPA 200.7 REV 4.4	COBALT	PA
EPA 200.7 REV 4.4	IRON	PA
EPA 200.7 REV 4.4	MAGNESIUM	PA
EPA 200.7 REV 4.4	MOLYBDENUM	PA
EPA 200.7 REV 4.4	POTASSIUM	PA
EPA 200.7 REV 4.4	SILVER	PA
EPA 200.7 REV 4.4	THALLIUM	PA
EPA 200.7 REV 4.4	TITANIUM	PA
EPA 200.7 REV 4.4	ZINC	PA
EPA 200.8 REV 5.4	ANTIMONY	PA
EPA 200.8 REV 5.4	BARIUM	PA
EPA 200.8 REV 5.4	CADMIUM	PA
EPA 200.8 REV 5.4	COBALT	PA
EPA 200.8 REV 5.4	LEAD	PA
EPA 200.8 REV 5.4	MOLYBDENUM	PA
EPA 200.8 REV 5.4	SELENIUM	PA
EPA 200.8 REV 5.4	THALLIUM	PA
EPA 200.8 REV 5.4	ZINC	PA
EPA 1668 A	3,3',4-TRICHLOROBIPHENYL (BZ-35)	PA
EPA 1668 A	3,3',5-TRICHLOROBIPHENYL (BZ-36)	PA
EPA 1668 A	3,4',5-TRICHLOROBIPHENYL (BZ-39)	PA
EPA 1668 A	3,4,4',5-TETRACHLOROBIPHENYL (BZ-81)	PA
EPA 1668 A	3,4,5-TRICHLOROBIPHENYL (BZ-38)	PA
EPA 1668 A	3,5-DICHLOROBIPHENYL (BZ-14)	PA
EPA 1668 A	4,4'-DICHLOROBIPHENYL (BZ-15)	PA
EPA 1668 A	DECACHLOROBIPHENYL (BZ-209)	PA
EPA 1671 A	ACETONITRILE	PA
EPA 1671 A	DIMETHYL SULFOXIDE	PA
EPA 1671 A	METHANOL	PA
EPA 1671 A	TRIETHYLAMINE	PA
EPA 200.7 REV 4.4	ALUMINUM	PA
EPA 200.7 REV 4.4	ARSENIC	PA
EPA 200.7 REV 4.4	BERYLLIUM	PA
EPA 200.7 REV 4.4	CADMIUM	PA
EPA 200.7 REV 4.4	CHROMIUM	PA
EPA 200.7 REV 4.4	COPPER	PA
EPA 200.7 REV 4.4	LEAD	PA
EPA 200.7 REV 4.4	MANGANESE	PA
EPA 200.7 REV 4.4	NICKEL	PA
EPA 200.7 REV 4.4	SELENIUM	PA
EPA 200.7 REV 4.4	SODIUM	PA
EPA 200.7 REV 4.4	TIN	PA
EPA 200.7 REV 4.4	VANADIUM	PA
EPA 200.8 REV 5.4	ALUMINUM	PA
EPA 200.8 REV 5.4	ARSENIC	PA
EPA 200.8 REV 5.4	BERYLLIUM	PA
EPA 200.8 REV 5.4	CHROMIUM	PA
EPA 200.8 REV 5.4	COPPER	PA
EPA 200.8 REV 5.4	MANGANESE	PA
EPA 200.8 REV 5.4	NICKEL	PA
EPA 200.8 REV 5.4	SILVER	PA
EPA 200.8 REV 5.4	VANADIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	CALCIUM	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4 - EXTENDED	IRON	PA
EPA 200.8 REV 5.4 - EXTENDED	POTASSIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	TIN	PA
EPA 218.6 REV 3.3	CHROMIUM VI	PA
EPA 300.0 REV 2.1	BROMIDE	PA
EPA 300.0 REV 2.1	FLUORIDE	PA
EPA 300.0 REV 2.1	NITRITE AS N	PA
EPA 3005 A	PREP: ACID DIGESTION OF WATERS FOR TOTAL RECOVERABLE OR DISSOLVED METALS	PA
EPA 3060 A	PREP: HEXAVALENT CHROMIUM	PA
EPA 350.1 REV 2	AMMONIA AS N	PA
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	PA
EPA 353.2 REV 2	NITRATE AS N	PA
EPA 353.2 REV 2	NITRITE AS N	PA
EPA 3630 C	PREP: SILICA GEL CLEANUP	PA
EPA 365.1 REV 2	PHOSPHORUS, TOTAL	PA
EPA 3660 B	PREP: SULFUR CLEANUP	PA
EPA 420.4 REV 1	TOTAL PHENOLICS	PA
EPA 6010 D	ALUMINUM	PA
EPA 6010 D	ARSENIC	PA
EPA 6010 D	BERYLLIUM	PA
EPA 6010 D	CADMIUM	PA
EPA 6010 D	CHROMIUM	PA
EPA 6010 D	COPPER	PA
EPA 6010 D	LEAD	PA
EPA 6010 D	MAGNESIUM	PA
EPA 6010 D	MOLYBDENUM	PA
EPA 6010 D	POTASSIUM	PA
EPA 6010 D	SILVER	PA
EPA 6010 D	STRONTIUM	PA
EPA 6010 D	TIN	PA
EPA 6010 D	VANADIUM	PA
EPA 6010 D - EXTENDED	SULFUR	PA
EPA 6010 D - EXTENDED	ZIRCONIUM	PA

METHOD	ANALYTE	PRIMARY
EPA 200.8 REV 5.4 - EXTENDED	MAGNESIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	SODIUM	PA
EPA 200.8 REV 5.4 - EXTENDED	TITANIUM	PA
EPA 245.1 REV 3	MERCURY	PA
EPA 300.0 REV 2.1	CHLORIDE	PA
EPA 300.0 REV 2.1	NITRATE AS N	PA
EPA 300.0 REV 2.1	SULFATE	PA
EPA 3010 A	PREP: ACID DIGESTION OF AQUEOUS SAMPLES AND EXTRACTS FOR TOTAL METALS	PA
EPA 335.4 REV 1.0	CYANIDE	PA
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	PA
EPA 3511	PREP: ORGANIC EXTRACTION AND SAMPLE PREPARATION	PA
EPA 353.2 REV 2	NITRATE-NITRITE AS N	PA
EPA 3620 C	PREP: FLORISIL CLEANUP	PA
EPA 3640 A	PREP: GEL PERMEATION CLEANUP	PA
EPA 365.3	ORTHOPHOSPHATE AS P	PA
EPA 410.4 REV 2	CHEMICAL OXYGEN DEMAND (COD)	PA
EPA 5030 C	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	PA
EPA 6010 D	ANTIMONY	PA
EPA 6010 D	BARIUM	PA
EPA 6010 D	BORON	PA
EPA 6010 D	CALCIUM	PA
EPA 6010 D	COBALT	PA
EPA 6010 D	IRON	PA
EPA 6010 D	LITHIUM	PA
EPA 6010 D	MANGANESE	PA
EPA 6010 D	NICKEL	PA
EPA 6010 D	SELENIUM	PA
EPA 6010 D	SODIUM	PA
EPA 6010 D	THALLIUM	PA
EPA 6010 D	TITANIUM	PA
EPA 6010 D	ZINC	PA
EPA 6010 D - EXTENDED	THORIUM	PA
EPA 6020 B	ALUMINUM	PA

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EPA 6020 B	ANTIMONY	PA
EPA 6020 B	BARIUM	PA
EPA 6020 B	CADMIUM	PA
EPA 6020 B	CHROMIUM	PA
EPA 6020 B	COPPER	PA
EPA 6020 B	LEAD	PA
EPA 6020 B	MANGANESE	PA
EPA 6020 B	NICKEL	PA
EPA 6020 B	SELENIUM	PA
EPA 6020 B	SODIUM	PA
EPA 6020 B	TIN	PA
EPA 6020 B	ZINC	PA
EPA 6020 B - EXTENDED	TITANIUM	PA
EPA 608.3	4,4'-DDD	PA
EPA 608.3	4,4'-DDT	PA
EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	PA
EPA 608.3	AROCLOR-1016 (PCB-1016)	PA
EPA 608.3	AROCLOR-1232 (PCB-1232)	PA
EPA 608.3	AROCLOR-1248 (PCB-1248)	PA
EPA 608.3	AROCLOR-1260 (PCB-1260)	PA
EPA 608.3	CHLORDANE, TOTAL	PA
EPA 608.3	DIELDRIN	PA
EPA 608.3	ENDOSULFAN II	PA
EPA 608.3	ENDRIN	PA
EPA 608.3	ENDRIN KETONE	PA
EPA 608.3	GAMMA-CHLORDANE (TRANS-CHLORDANE)	PA
EPA 608.3	HEPTACHLOR EPOXIDE	PA
EPA 608.3	MIREX	PA
EPA 624.1	1,1,1,2-TETRACHLOROETHANE	PA
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	PA
EPA 624.1	1,1,2-TRICHLOROETHANE	PA
EPA 624.1	1,1-DICHLOROETHYLENE	PA
EPA 624.1	1,2,3-TRICHLOROBENZENE	PA

METHOD	ANALYTE	PRIMARY
EPA 6020 B	ARSENIC	PA
EPA 6020 B	BERYLLIUM	PA
EPA 6020 B	CALCIUM	PA
EPA 6020 B	COBALT	PA
EPA 6020 B	IRON	PA
EPA 6020 B	MAGNESIUM	PA
EPA 6020 B	MOLYBDENUM	PA
EPA 6020 B	POTASSIUM	PA
EPA 6020 B	SILVER	PA
EPA 6020 B	THALLIUM	PA
EPA 6020 B	VANADIUM	PA
EPA 6020 B - EXTENDED	STRONTIUM	PA
EPA 6020 B - EXTENDED	URANIUM (MASS)	PA
EPA 608.3	4,4'-DDE	PA
EPA 608.3	ALDRIN	PA
EPA 608.3	ALPHA-CHLORDANE (CIS-CHLORDANE)	PA
EPA 608.3	AROCLOR-1221 (PCB-1221)	PA
EPA 608.3	AROCLOR-1242 (PCB-1242)	PA
EPA 608.3	AROCLOR-1254 (PCB-1254)	PA
EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	PA
EPA 608.3	DELTA-BHC	PA
EPA 608.3	ENDOSULFAN I	PA
EPA 608.3	ENDOSULFAN SULFATE	PA
EPA 608.3	ENDRIN ALDEHYDE	PA
EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	PA
EPA 608.3	HEPTACHLOR	PA
EPA 608.3	METHOXYCHLOR	PA
EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	PA
EPA 624.1	1,1,1-TRICHLOROETHANE	PA
EPA 624.1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	PA
EPA 624.1	1,1-DICHLOROETHANE	PA
EPA 624.1	1,1-DICHLOROPROPENE	PA
EPA 624.1	1,2,3-TRICHLOROPROPANE	PA

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EPA 624.1	1,2,4-TRIMETHYLBENZENE	PA
EPA 624.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 624.1	1,3,5-TRIMETHYLBENZENE	PA
EPA 624.1	1,3-DICHLOROPROPANE	PA
EPA 624.1	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 624.1	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 624.1	2-CHLOROTOLUENE	PA
EPA 624.1	4-CHLOROTOLUENE	PA
EPA 624.1	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 624.1	ACETONITRILE	PA
EPA 624.1	ACRYLONITRILE	PA
EPA 624.1	BENZYL CHLORIDE	PA
EPA 624.1	BROMOCHLOROMETHANE	PA
EPA 624.1	BROMOFORM	PA
EPA 624.1	CARBON TETRACHLORIDE	PA
EPA 624.1	CHLORODIBROMOMETHANE	PA
EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 624.1	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 624.1	CIS-1,3-DICHLOROPROPENE	PA
EPA 624.1	CYCLOHEXANE	PA
EPA 624.1	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 624.1	ETHYL ACETATE	PA
EPA 624.1	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 624.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 624.1	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 624.1	ISOPROPYLBENZENE	PA
EPA 624.1	METHACRYLONITRILE	PA
EPA 624.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 624.1	1,2-DICHLOROPROPANE	PA
EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 624.1	2,2-DICHLOROPROPANE	PA
EPA 624.1	2-CHLOROETHYL VINYL ETHER	PA
EPA 624.1	2-HEXANONE	PA
EPA 624.1	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 624.1	ACETONE	PA
EPA 624.1	ACROLEIN (PROPENAL)	PA
EPA 624.1	BENZENE	PA
EPA 624.1	BROMOBENZENE	PA
EPA 624.1	BROMODICHLOROMETHANE	PA
EPA 624.1	CARBON DISULFIDE	PA
EPA 624.1	CHLOROBENZENE	PA
EPA 624.1	CHLORODIFLUOROMETHANE (FREON-22)	PA
EPA 624.1	CHLOROFORM	PA
EPA 624.1	CIS-1,2-DICHLOROETHYLENE	PA
EPA 624.1	CIS-1,4-DICHLORO-2-BUTENE	PA
EPA 624.1	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 624.1	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 624.1	ETHYL METHACRYLATE	PA
EPA 624.1	ETHYLBENZENE	PA
EPA 624.1	IODOMETHANE (METHYL IODIDE)	PA
EPA 624.1	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 624.1	M+P-XYLENE	PA
EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 624.1	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 624.1	N-BUTYLBENZENE	PA
EPA 624.1	NAPHTHALENE	PA
EPA 624.1	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 624.1	STYRENE	PA
EPA 624.1	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 624.1	TERT-BUTYLBENZENE	PA
EPA 624.1	TETRAHYDROFURAN (THF)	PA
EPA 624.1	TRANS-1,2-DICHLOROETHENE	PA
EPA 624.1	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 624.1 EXTENDED	1,2,4-TRICHLOROBENZENE	PA
EPA 624.1 EXTENDED	N-HEXANE	PA
EPA 625.1	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 625.1	1,2-DIPHENYLHYDRAZINE	PA
EPA 625.1	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 625.1	2,4,5-TRICHLOROPHENOL	PA
EPA 625.1	2,4-DICHLOROPHENOL	PA
EPA 625.1	2,4-DINITROPHENOL	PA
EPA 625.1	2,6-DICHLOROPHENOL	PA
EPA 625.1	2-CHLORONAPHTHALENE	PA
EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 625.1	2-METHYLPHENOL (O-CRESOL)	PA
EPA 625.1	2-NITROPHENOL	PA
EPA 625.1	3,3'-DICHLOROBENZIDINE	PA
EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 625.1	4-CHLOROANILINE	PA
EPA 625.1	4-NITROANILINE	PA
EPA 625.1	ACENAPHTHENE	PA
EPA 625.1	ACETOPHENONE	PA

METHOD	ANALYTE	PRIMARY
EPA 624.1	METHYL METHACRYLATE	PA
EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 624.1	N-PROPYLBENZENE	PA
EPA 624.1	O-XYLENE	PA
EPA 624.1	SEC-BUTYLBENZENE	PA
EPA 624.1	TERT-AMYL ETHYL ETHER (TAEE)	PA
EPA 624.1	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 624.1	TOLUENE	PA
EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 624.1	VINYL ACETATE	PA
EPA 624.1	XYLENE (TOTAL)	PA
EPA 624.1 EXTENDED	ISOPROPYL ACETATE	PA
EPA 625.1	1,1'-BIPHENYL (BZ-0)	PA
EPA 625.1	1,2,4-TRICHLOROBENZENE	PA
EPA 625.1	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 625.1	2,3-DICHLOROANILINE	PA
EPA 625.1	2,4,6-TRICHLOROPHENOL	PA
EPA 625.1	2,4-DIMETHYLPHENOL	PA
EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 625.1	2-CHLOROPHENOL	PA
EPA 625.1	2-METHYLNAPHTHALENE	PA
EPA 625.1	2-NITROANILINE	PA
EPA 625.1	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 625.1	3-NITROANILINE	PA
EPA 625.1	4-CHLORO-3-METHYLPHENOL	PA
EPA 625.1	4-CHLOROPHENYL PHENYLETHER	PA
EPA 625.1	4-NITROPHENOL	PA
EPA 625.1	ACENAPHTHYLENE	PA
EPA 625.1	ALPHA-TERPINEOL	PA

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METHOD	ANALYTE	PRIMARY
EPA 625.1	ANILINE	PA
EPA 625.1	BENZIDINE	PA
EPA 625.1	BENZO(A)PYRENE	PA
EPA 625.1	BENZO(G,H,I)PERYLENE	PA
EPA 625.1	BENZOIC ACID	PA
EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 625.1	CARBAZOLE	PA
EPA 625.1	DI-N-BUTYL PHTHALATE	PA
EPA 625.1	DIBENZO(A,H) ANTHRACENE	PA
EPA 625.1	DIETHYL PHTHALATE	PA
EPA 625.1	DIPHENYL ETHER (DIPHENYL OXIDE)	PA
EPA 625.1	FLUORENE	PA
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 625.1	HEXACHLOROETHANE	PA
EPA 625.1	ISOPHORONE	PA
EPA 625.1	N-DOCOSANE	PA
EPA 625.1	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 625.1	N-NITROSODIETHYLAMINE	PA
EPA 625.1	N-NITROSODIPHENYLAMINE	PA
EPA 625.1	N-OCTADECANE	PA
EPA 625.1	NITROBENZENE	PA
EPA 625.1	PENTACHLOROBENZENE	PA
EPA 625.1	PHENANTHRENE	PA
EPA 625.1	PYRENE	PA
EPA 625.1 EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 7196 A	CHROMIUM VI	PA
EPA 7470 A	MERCURY	PA
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8015 C	ETHANOL	PA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 C	METHANOL	PA
EPA 8015 C - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8015 D	ETHANOL	PA
EPA 625.1	ANTHRACENE	PA
EPA 625.1	BENZO(A)ANTHRACENE	PA
EPA 625.1	BENZO(B)FLUORANTHENE	PA
EPA 625.1	BENZO(K)FLUORANTHENE	PA
EPA 625.1	BENZYL ALCOHOL	PA
EPA 625.1	BIS(2-CHLOROETHYL) ETHER	PA
EPA 625.1	BUTYL BENZYL PHTHALATE	PA
EPA 625.1	CHRYSENE	PA
EPA 625.1	DI-N-OCTYL PHTHALATE	PA
EPA 625.1	DIBENZOFURAN	PA
EPA 625.1	DIMETHYL PHTHALATE	PA
EPA 625.1	FLUORANTHENE	PA
EPA 625.1	HEXACHLOROBENZENE	PA
EPA 625.1	HEXACHLOROCYCLOPENTADIENE	PA
EPA 625.1	INDENO(1,2,3-CD) PYRENE	PA
EPA 625.1	N-DECANE	PA
EPA 625.1	N-HEXADECANE	PA
EPA 625.1	N-NITROSODI-N-PROPYLAMINE	PA
EPA 625.1	N-NITROSODIMETHYLAMINE	PA
EPA 625.1	N-NITROSOPYRROLIDINE	PA
EPA 625.1	NAPHTHALENE	PA
EPA 625.1	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 625.1	PENTACHLOROPHENOL	PA
EPA 625.1	PHENOL	PA
EPA 625.1	PYRIDINE	PA
EPA 6850	PERCHLORATE	PA
EPA 7199	CHROMIUM VI	PA
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 C	ETHYLENE GLYCOL	PA
EPA 8015 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 C - EXTENDED	PROPYLENE GLYCOL	PA
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8015 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 D	N-PROPANOL (1-PROPANOL)	PA
EPA 8015 D - EXTENDED	ETHYLENE GLYCOL	PA
EPA 8015 D - EXTENDED	PROPYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDD	PA
EPA 8081 B	4,4'-DDT	PA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	DELTA-BHC	PA
EPA 8081 B	ENDOSULFAN I	PA
EPA 8081 B	ENDOSULFAN SULFATE	PA
EPA 8081 B	ENDRIN ALDEHYDE	PA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	HEPTACHLOR	PA
EPA 8081 B	METHOXYCHLOR	PA
EPA 8081 B - EXTENDED	2,4'-DDD	PA
EPA 8081 B - EXTENDED	2,4'-DDT	PA
EPA 8081 B - EXTENDED	MIREX	PA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	PA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	PA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	PA
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	PA
EPA 8151 A	2,4,5-T	PA
EPA 8151 A	2,4-DB	PA
EPA 8151 A	DICAMBA	PA
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8151 A	MCPP	PA
EPA 8151 A	PICLORAM	PA
EPA 8260 C	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHANE	PA

METHOD	ANALYTE	PRIMARY
EPA 8015 D	METHANOL	PA
EPA 8015 D - EXTENDED	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8015 D - EXTENDED	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8015 D - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDE	PA
EPA 8081 B	ALDRIN	PA
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	PA
EPA 8081 B	CHLORDANE, TOTAL	PA
EPA 8081 B	DIELDRIN	PA
EPA 8081 B	ENDOSULFAN II	PA
EPA 8081 B	ENDRIN	PA
EPA 8081 B	ENDRIN KETONE	PA
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	PA
EPA 8081 B	HEPTACHLOR EPOXIDE	PA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	PA
EPA 8081 B - EXTENDED	2,4'-DDE	PA
EPA 8081 B - EXTENDED	KEPONE	PA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	PA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	PA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	PA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	PA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	PA
EPA 8151 A	2,4-D	PA
EPA 8151 A	DALAPON	PA
EPA 8151 A	DICHLOROPROP (DICHLORPROP)	PA
EPA 8151 A	MCPA	PA
EPA 8151 A	PENTACHLOROPHENOL	PA
EPA 8151 A	SILVEX (2,4,5-TP)	PA
EPA 8260 C	1,1,1-TRICHLOROETHANE	PA
EPA 8260 C	1,1,2-TRICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHYLENE	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 C	1,1-DICHLOROPROPENE	PA
EPA 8260 C	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 C	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 C	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 C	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 C	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 C	1,3-DICHLOROPROPANE	PA
EPA 8260 C	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 C	2,2-DICHLOROPROPANE	PA
EPA 8260 C	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 C	2-HEXANONE	PA
EPA 8260 C	4-CHLOROTOLUENE	PA
EPA 8260 C	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 C	ACETONITRILE	PA
EPA 8260 C	ACRYLONITRILE	PA
EPA 8260 C	BENZENE	PA
EPA 8260 C	BROMOBENZENE	PA
EPA 8260 C	BROMODICHLOROMETHANE	PA
EPA 8260 C	CARBON DISULFIDE	PA
EPA 8260 C	CHLOROBENZENE	PA
EPA 8260 C	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 C	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 C	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 C	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 C	DIETHYL ETHER	PA
EPA 8260 C	ETHYL ACETATE	PA
EPA 8260 C	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 C	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 C	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 C	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 C	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 C	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 C	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 C	1,2-DICHLOROPROPANE	PA
EPA 8260 C	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 C	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8260 C	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 C	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 C	2-CHLOROTOLUENE	PA
EPA 8260 C	2-NITROPROPANE	PA
EPA 8260 C	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 C	ACETONE	PA
EPA 8260 C	ACROLEIN (PROPENAL)	PA
EPA 8260 C	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 C	BENZYL CHLORIDE	PA
EPA 8260 C	BROMOCHLOROMETHANE	PA
EPA 8260 C	BROMOFORM	PA
EPA 8260 C	CARBON TETRACHLORIDE	PA
EPA 8260 C	CHLORODIBROMOMETHANE	PA
EPA 8260 C	CHLOROFORM	PA
EPA 8260 C	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 C	CYCLOHEXANE	PA
EPA 8260 C	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 C	ETHANOL	PA
EPA 8260 C	ETHYL METHACRYLATE	PA
EPA 8260 C	ETHYLBENZENE	PA
EPA 8260 C	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 C	ISOPROPYLBENZENE	PA
EPA 8260 C	METHACRYLONITRILE	PA
EPA 8260 C	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 C	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 C	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 C	N-PROPYLBENZENE	PA
EPA 8260 C	O-XYLENE	PA
EPA 8260 C	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 C	STYRENE	PA
EPA 8260 C	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 C	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 C	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 C	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 C	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 C	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 C - EXTENDED	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 C - EXTENDED	1,2-DICHLORO-1,1,2-TRIFLUOROET HANE (FREON 123A)	PA
EPA 8260 C - EXTENDED	1,3-BUTADIENE	PA
EPA 8260 C - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 C - EXTENDED	DIMETHYL ETHER	PA
EPA 8260 C - EXTENDED	METHYL ACETATE	PA
EPA 8260 C - EXTENDED	N-HEPTANE	PA
EPA 8260 C - EXTENDED	TERT-AMYL ALCOHOL (TAA)	PA
EPA 8260 C - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROETHYLENE	PA
EPA 8260 D	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 C	M+P-XYLENE	PA
EPA 8260 C	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 C	METHYL METHACRYLATE	PA
EPA 8260 C	METHYLCYCLOHEXANE	PA
EPA 8260 C	N-BUTYLBENZENE	PA
EPA 8260 C	NAPHTHALENE	PA
EPA 8260 C	PENTACHLOROETHANE	PA
EPA 8260 C	SEC-BUTYLBENZENE	PA
EPA 8260 C	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 C	TERT-BUTYLBENZENE	PA
EPA 8260 C	TOLUENE	PA
EPA 8260 C	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 C	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 C	VINYL ACETATE	PA
EPA 8260 C	XYLENE (TOTAL)	PA
EPA 8260 C - EXTENDED	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 C - EXTENDED	1,3,5-TRICHLOROBENZENE	PA
EPA 8260 C - EXTENDED	3,3-DIMETHYL-1-BUTANOL	PA
EPA 8260 C - EXTENDED	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 C - EXTENDED	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8260 C - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 C - EXTENDED	N-HEXANE	PA
EPA 8260 C - EXTENDED	TERT-BUTYL FORMATE	PA
EPA 8260 C SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	1,1,1-TRICHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 D	1,1-DICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROPROPENE	PA
EPA 8260 D	1,2,3-TRICHLOROPROPANE	PA

Scope of Accreditation

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Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 D	1,3-DICHLOROPROPANE	PA
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	1-CHLOROHEXANE	PA
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 D	2-CHLOROTOLUENE	PA
EPA 8260 D	2-NITROPROPANE	PA
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 D	ACETONE	PA
EPA 8260 D	ACROLEIN (PROPENAL)	PA
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 D	BENZYL CHLORIDE	PA
EPA 8260 D	BROMOCHLOROMETHANE	PA
EPA 8260 D	BROMOFORM	PA
EPA 8260 D	CARBON TETRACHLORIDE	PA
EPA 8260 D	CHLORODIBROMOMETHANE	PA
EPA 8260 D	CHLOROFORM	PA
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 D	CYCLOHEXANE	PA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 D	DIETHYL ETHER	PA
EPA 8260 D	ETHYL ACETATE	PA
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 D	1,2-DICHLOROPROPANE	PA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 D	2,2-DICHLOROPROPANE	PA
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 D	2-HEXANONE	PA
EPA 8260 D	4-CHLOROTOLUENE	PA
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 D	ACETONITRILE	PA
EPA 8260 D	ACRYLONITRILE	PA
EPA 8260 D	BENZENE	PA
EPA 8260 D	BROMOBENZENE	PA
EPA 8260 D	BROMODICHLOROMETHANE	PA
EPA 8260 D	CARBON DISULFIDE	PA
EPA 8260 D	CHLOROBENZENE	PA
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 D	ETHANOL	PA
EPA 8260 D	ETHYL METHACRYLATE	PA
EPA 8260 D	ETHYLBENZENE	PA
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8260 D	ISOPROPYLBENZENE	PA
EPA 8260 D	METHACRYLONITRILE	PA
EPA 8260 D	METHYL ACRYLATE	PA
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 D	N-PROPYLBENZENE	PA
EPA 8260 D	O-XYLENE	PA
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 D	STYRENE	PA
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 D - EXTENDED	1,2-DICHLORO-1,1,2-TRIFLUOROETHANE (FREON 123A)	PA
EPA 8260 D - EXTENDED	1,3-BUTADIENE	PA
EPA 8260 D - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 D - EXTENDED	DIMETHYL ETHER	PA
EPA 8260 D - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 D - EXTENDED	N-HEXANE	PA
EPA 8260 D - EXTENDED	TERT-BUTYL FORMATE	PA
EPA 8260 D SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 D	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 D	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 D	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8260 D	M+P-XYLENE	PA
EPA 8260 D	METHYL ACETATE	PA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 D	METHYL METHACRYLATE	PA
EPA 8260 D	METHYLCYCLOHEXANE	PA
EPA 8260 D	N-BUTYLBENZENE	PA
EPA 8260 D	NAPHTHALENE	PA
EPA 8260 D	PENTACHLOROETHANE	PA
EPA 8260 D	SEC-BUTYLBENZENE	PA
EPA 8260 D	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 D	TERT-BUTYLBENZENE	PA
EPA 8260 D	TOLUENE	PA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 D	VINYL ACETATE	PA
EPA 8260 D	XYLENE (TOTAL)	PA
EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	PA
EPA 8260 D - EXTENDED	1,3-DIETHYLBENZENE	PA
EPA 8260 D - EXTENDED	DICHLOROFLUOROMETHANE (FREON 21)	PA
EPA 8260 D - EXTENDED	ETHYL ACRYLATE	PA
EPA 8260 D - EXTENDED	N-HEPTANE	PA
EPA 8260 D - EXTENDED	TERT-AMYL ALCOHOL (TAA)	PA
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8260 D SIM	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8270 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 D	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-NAPHTHOQUINONE	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 D	1,4-PHENYLENEDIAMINE	PA
EPA 8270 D	1-NAPHTHYLAMINE	PA
EPA 8270 D	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 D	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DIMETHYLPHENOL	PA
EPA 8270 D	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 D	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 D	2-CHLORONAPHTHALENE	PA
EPA 8270 D	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 D	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 D	2-NITROANILINE	PA
EPA 8270 D	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 D	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 D	3-NITROANILINE	PA
EPA 8270 D	4-AMINOBIPHENYL	PA
EPA 8270 D	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 D	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 D	4-NITROANILINE	PA
EPA 8270 D	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 D	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 D	ACENAPHTHENE	PA
EPA 8270 D	ACETOPHENONE	PA
EPA 8270 D	ANTHRACENE	PA
EPA 8270 D	BENZIDINE	PA
EPA 8270 D	BENZO(A)PYRENE	PA
EPA 8270 D	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D	BENZOIC ACID	PA
EPA 8270 D	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 D	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 D	CHLOROBENZILATE	PA
EPA 8270 D	DI-N-BUTYL PHTHALATE	PA
EPA 8270 D	DIALLATE	PA
EPA 8270 D	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D	DIETHYL PHTHALATE	PA
EPA 8270 D	DIMETHYL PHTHALATE	PA

METHOD	ANALYTE	PRIMARY
EPA 8270 D	1-CHLORONAPHTHALENE	PA
EPA 8270 D	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 D	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DICHLOROPHENOL	PA
EPA 8270 D	2,4-DINITROPHENOL	PA
EPA 8270 D	2,6-DICHLOROPHENOL	PA
EPA 8270 D	2-ACETYLAMINOFLUORENE	PA
EPA 8270 D	2-CHLOROPHENOL	PA
EPA 8270 D	2-METHYLNAPHTHALENE	PA
EPA 8270 D	2-NAPHTHYLAMINE	PA
EPA 8270 D	2-NITROPHENOL	PA
EPA 8270 D	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 D	3-METHYLCHOLANTHRENE	PA
EPA 8270 D	4,4'-METHYLENEBIS-2-CHLOROANILINE	PA
EPA 8270 D	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 D	4-CHLOROANILINE	PA
EPA 8270 D	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 D	4-NITROPHENOL	PA
EPA 8270 D	5-NITRO-O-TOLUIDINE	PA
EPA 8270 D	A-A-DIMETHYLPHENETHYLAMINE	PA
EPA 8270 D	ACENAPHTHYLENE	PA
EPA 8270 D	ANILINE	PA
EPA 8270 D	ARAMITE	PA
EPA 8270 D	BENZO(A)ANTHRACENE	PA
EPA 8270 D	BENZO(B)FLUORANTHENE	PA
EPA 8270 D	BENZO(K)FLUORANTHENE	PA
EPA 8270 D	BENZYL ALCOHOL	PA
EPA 8270 D	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 D	BUTYL BENZYL PHTHALATE	PA
EPA 8270 D	CHRYSENE	PA
EPA 8270 D	DI-N-OCTYL PHTHALATE	PA
EPA 8270 D	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 D	DIBENZOFURAN	PA
EPA 8270 D	DIMETHOATE	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 D	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8270 D	DISULFOTON	PA
EPA 8270 D	FAMPHUR	PA
EPA 8270 D	FLUORENE	PA
EPA 8270 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 D	HEXACHLOROETHANE	PA
EPA 8270 D	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D	ISOPHORONE	PA
EPA 8270 D	KEPONE	PA
EPA 8270 D	METHYL METHANESULFONATE	PA
EPA 8270 D	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 D	N-NITROSODIETHYLAMINE	PA
EPA 8270 D	N-NITROSODIPHENYLAMINE	PA
EPA 8270 D	N-NITROSOMORPHOLINE	PA
EPA 8270 D	N-NITROSOPYRROLIDINE	PA
EPA 8270 D	NITROBENZENE	PA
EPA 8270 D	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 D	PENTACHLOROBENZENE	PA
EPA 8270 D	PENTACHLOROPHENOL	PA
EPA 8270 D	PHENANTHRENE	PA
EPA 8270 D	PHORATE	PA
EPA 8270 D	PRONAMIDE (KERB)	PA
EPA 8270 D	SAFROLE	PA
EPA 8270 D	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 D - EXTENDED	1,2,3,4-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D - EXTENDED	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 D - EXTENDED	ATRAZINE	PA
EPA 8270 D - EXTENDED	CAPROLACTAM	PA
EPA 8270 D - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 D - EXTENDED	N,N-DIMETHYLFORMAMIDE	PA
EPA 8270 D - EXTENDED	QUINOLINE	PA
EPA 8270 D SIM	ACENAPHTHENE	PA
EPA 8270 D	DIPHENYLAMINE	PA
EPA 8270 D	ETHYL METHANESULFONATE	PA
EPA 8270 D	FLUORANTHENE	PA
EPA 8270 D	HEXACHLOROBENZENE	PA
EPA 8270 D	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 D	HEXACHLOROPROPENE	PA
EPA 8270 D	ISODRIN	PA
EPA 8270 D	ISOSAFROLE	PA
EPA 8270 D	METHAPYRILENE	PA
EPA 8270 D	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 D	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 D	N-NITROSODIMETHYLAMINE	PA
EPA 8270 D	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 D	N-NITROSOPIPERIDINE	PA
EPA 8270 D	NAPHTHALENE	PA
EPA 8270 D	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 D	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 D	PENTACHLORONITROBENZENE	PA
EPA 8270 D	PHENACETIN	PA
EPA 8270 D	PHENOL	PA
EPA 8270 D	PHTHALIC ANHYDRIDE	PA
EPA 8270 D	PYRENE	PA
EPA 8270 D	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 D - EXTENDED	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 D - EXTENDED	1,2,3,5-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 D - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 D - EXTENDED	BENZALDEHYDE	PA
EPA 8270 D - EXTENDED	CARBAZOLE	PA
EPA 8270 D - EXTENDED	INDENE	PA
EPA 8270 D - EXTENDED	PYRIDINE	PA
EPA 8270 D SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 D SIM	ACENAPHTHYLENE	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 D SIM	ANTHRACENE	PA
EPA 8270 D SIM	BENZO(A)PYRENE	PA
EPA 8270 D SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D SIM	CHRYSENE	PA
EPA 8270 D SIM	FLUORANTHENE	PA
EPA 8270 D SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D SIM	PHENANTHRENE	PA
EPA 8270 D SIM - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 E	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1-CHLORONAPHTHALENE	PA
EPA 8270 E	1-NAPHTHYLAMINE	PA
EPA 8270 E	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DICHLOROPHENOL	PA
EPA 8270 E	2,4-DINITROPHENOL	PA
EPA 8270 E	2,6-DICHLOROPHENOL	PA
EPA 8270 E	2-ACETYLAMINOFLUORENE	PA
EPA 8270 E	2-CHLOROPHENOL	PA
EPA 8270 E	2-METHYLNAPHTHALENE	PA
EPA 8270 E	2-NAPHTHYLAMINE	PA
EPA 8270 E	2-NITROPHENOL	PA
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 E	3-NITROANILINE	PA
EPA 8270 E	4-AMINOBIPHENYL	PA
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 E	4-NITROPHENOL	PA
EPA 8270 E	5-NITRO-O-TOLUIDINE	PA
EPA 8270 D SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 D SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 D SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 D SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D SIM	FLUORENE	PA
EPA 8270 D SIM	NAPHTHALENE	PA
EPA 8270 D SIM	PYRENE	PA
EPA 8270 D SIM - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 E	1,4-NAPHTHOQUINONE	PA
EPA 8270 E	1-METHYLNAPHTHALENE	PA
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DIMETHYLPHENOL	PA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 E	2-CHLORONAPHTHALENE	PA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 E	2-NITROANILINE	PA
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 E	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 E	3-METHYLCHOLANTHRENE	PA
EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	PA
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 E	4-CHLOROANILINE	PA
EPA 8270 E	4-NITROANILINE	PA
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 E	ACENAPHTHYLENE	PA
EPA 8270 E	ANILINE	PA
EPA 8270 E	ARAMITE	PA
EPA 8270 E	BENZALDEHYDE	PA
EPA 8270 E	BENZO(A)ANTHRACENE	PA
EPA 8270 E	BENZO(B)FLUORANTHENE	PA
EPA 8270 E	BENZO(K)FLUORANTHENE	PA
EPA 8270 E	BENZYL ALCOHOL	PA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 E	BUTYL BENZYL PHTHALATE	PA
EPA 8270 E	CARBAZOLE	PA
EPA 8270 E	CHRYSENE	PA
EPA 8270 E	DI-N-OCTYL PHTHALATE	PA
EPA 8270 E	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 E	DIBENZOFURAN	PA
EPA 8270 E	DIMETHOATE	PA
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8270 E	DISULFOTON	PA
EPA 8270 E	FAMPHUR	PA
EPA 8270 E	FLUORENE	PA
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 E	HEXACHLOROETHANE	PA
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E	ISOPHORONE	PA
EPA 8270 E	KEPONE	PA
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 E	N-NITROSODIMETHYLAMINE	PA
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 E	N-NITROSOPIPERIDINE	PA
EPA 8270 E	NAPHTHALENE	PA
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 E	PARATHION (PARATHION - ETHYL)	PA

METHOD	ANALYTE	PRIMARY
EPA 8270 E	ACENAPHTHENE	PA
EPA 8270 E	ACETOPHENONE	PA
EPA 8270 E	ANTHRACENE	PA
EPA 8270 E	ATRAZINE	PA
EPA 8270 E	BENZIDINE	PA
EPA 8270 E	BENZO(A)PYRENE	PA
EPA 8270 E	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E	BENZOIC ACID	PA
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 E	CAPROLACTAM	PA
EPA 8270 E	CHLOROBENZILATE	PA
EPA 8270 E	DI-N-BUTYL PHTHALATE	PA
EPA 8270 E	DIALLATE	PA
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E	DIETHYL PHTHALATE	PA
EPA 8270 E	DIMETHYL PHTHALATE	PA
EPA 8270 E	DIPHENYLAMINE	PA
EPA 8270 E	ETHYL METHANESULFONATE	PA
EPA 8270 E	FLUORANTHENE	PA
EPA 8270 E	HEXACHLOROBENZENE	PA
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 E	HEXACHLOROPROPENE	PA
EPA 8270 E	ISODRIN	PA
EPA 8270 E	ISOSAFROLE	PA
EPA 8270 E	METHYL METHANESULFONATE	PA
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 E	N-NITROSODIETHYLAMINE	PA
EPA 8270 E	N-NITROSODIPHENYLAMINE	PA
EPA 8270 E	N-NITROSOMORPHOLINE	PA
EPA 8270 E	N-NITROSOPYRROLIDINE	PA
EPA 8270 E	NITROBENZENE	PA
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 E	PENTACHLOROBENZENE	PA

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EPA 8270 E	PENTACHLORONITROBENZENE	PA
EPA 8270 E	PHENACETIN	PA
EPA 8270 E	PHENOL	PA
EPA 8270 E	PRONAMIDE (KERB)	PA
EPA 8270 E	PYRIDINE	PA
EPA 8270 E	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 E - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 E - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 E - EXTENDED	QUINOLINE	PA
EPA 8270 E SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHYLENE	PA
EPA 8270 E SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E SIM	FLUORANTHENE	PA
EPA 8270 E SIM	HEXACHLOROBENZENE	PA
EPA 8270 E SIM	NAPHTHALENE	PA
EPA 8270 E SIM	PYRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 8290 A	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZO-P-DIOXIN (HPCDD, TOTAL)	PA
EPA 8270 E	PENTACHLOROPHENOL	PA
EPA 8270 E	PHENANTHRENE	PA
EPA 8270 E	PHORATE	PA
EPA 8270 E	PYRENE	PA
EPA 8270 E	SAFROLE	PA
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 E - EXTENDED	ALPHA-TERPINEOL	PA
EPA 8270 E - EXTENDED	INDENE	PA
EPA 8270 E - EXTENDED	TRIETHYLAMINE	PA
EPA 8270 E SIM	1-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHENE	PA
EPA 8270 E SIM	ANTHRACENE	PA
EPA 8270 E SIM	BENZO(A)PYRENE	PA
EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E SIM	CHRYSENE	PA
EPA 8270 E SIM	DIBENZOFURAN	PA
EPA 8270 E SIM	FLUORENE	PA
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E SIM	PHENANTHRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 8290 A	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 8290 A	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZOFURAN (HPCDF, TOTAL)	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZO-P-DIOXIN (HXCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZO-P-DIOXIN (PECDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZO-P-DIOXIN (TCDD, TOTAL)	PA
EPA 8315 A	ACETALDEHYDE	PA
EPA 8330 B	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8330 B	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	PA
EPA 8330 B	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8330 B	2-NITROTOLUENE	PA
EPA 8330 B	3-NITROTOLUENE	PA
EPA 8330 B	4-NITROTOLUENE	PA
EPA 8330 B	NITROBENZENE	PA
EPA 8330 B	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	PA
EPA 8330 B	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	PA
EPA 8330 B - EXTENDED	2,6-DIAMINO-4-NITROTOLUENE	PA
EPA 9040 C	PH	PA
EPA 9056 A	BROMIDE	PA
EPA 9056 A	FLUORIDE	PA
EPA 9056 A	NITRITE AS N	PA
EPA 9060 A	TOTAL ORGANIC CARBON (TOC)	PA
EPA 9095 B	FREE LIQUID	PA
OIA-1677-09	CYANIDE, FREE	PA
RSK-175	ETHENE (ETHYLENE)	PA
SM 2120 B-2021	COLOR	PA
SM 2310 B-2020	ACIDITY, AS CACO3	PA
SM 2340 C-2021	TOTAL HARDNESS AS CACO3	PA
SM 2540 B-2020	RESIDUE-TOTAL (TS)	PA
SM 2540 D-2020	RESIDUE-NONFILTERABLE (TSS)	PA
SM 3500-CR B-2020	CHROMIUM VI	PA
SM 4500-F^- B-2021	FLUORIDE	PA
SM 4500-NH3 B-2021	AMMONIA AS N	PA
SM 4500-NH3 D-2021	AMMONIA AS N	PA

METHOD	ANALYTE	PRIMARY
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZOFURAN (HXCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZOFURAN (PECDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZOFURAN (TCDF, TOTAL)	PA
EPA 8315 A	FORMALDEHYDE	PA
EPA 8330 B	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8330 B	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8330 B	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	PA
EPA 8330 B	3,5-DINITROANILINE	PA
EPA 8330 B	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	PA
EPA 8330 B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	PA
EPA 8330 B	NITROGLYCERIN	PA
EPA 8330 B	PENTAERYTHRITOLTETRANITRATE (PETN)	PA
EPA 8330 B - EXTENDED	2,4-DIAMINO-6-NITROTOLUENE	PA
EPA 9012 B	CYANIDE, TOTAL	PA
EPA 9050 A	CONDUCTIVITY	PA
EPA 9056 A	CHLORIDE	PA
EPA 9056 A	NITRATE AS N	PA
EPA 9056 A	SULFATE	PA
EPA 9066	TOTAL PHENOLICS	PA
OIA-1677-09	CYANIDE, AVAILABLE	PA
RSK-175	ETHANE	PA
RSK-175	METHANE	PA
SM 2130 B-2020	TURBIDITY	PA
SM 2320 B-2021	ALKALINITY AS CACO3	PA
SM 2510 B-2021	CONDUCTIVITY	PA
SM 2540 C-2020	RESIDUE-FILTERABLE (TDS)	PA
SM 2540 F-2020	RESIDUE-SETTLEABLE	PA
SM 4500-CL^- C-2021	CHLORIDE	PA
SM 4500-F^- C-2021	FLUORIDE	PA
SM 4500-NH3 C-2021	AMMONIA AS N	PA
SM 4500-P B 5-2021	PREP: TOTAL PHOSPHORUS	PA

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NON-POTABLE WATER

METHOD	ANALYTE	PRIMARY
SM 4500-P E-2021	ORTHOPHOSPHATE AS P	PA
SM 4500-S2¯ D-2021	SULFIDE	PA
SM 4500-SIO2 C-2021	SILICA AS SIO2	PA
SM 5210 B-2016	CARBONACEOUS BOD (CBOD)	PA
SM 5540 C-2021	SURFACTANTS - MBAS	PA
SM 4500-P F-2021	PHOSPHORUS, TOTAL	PA
SM 4500-S2¯ F-2021	SULFIDE	PA
SM 5210 B-2016	BIOCHEMICAL OXYGEN DEMAND (BOD)	PA
SM 5310 C-2014	TOTAL ORGANIC CARBON (TOC)	PA

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1010 B	FLASHPOINT	PA
EPA 1312	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 1613 B	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 1633A	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID (11CL-PF3OUDS)	PA
EPA 1633A	1H, 1H, 2H, 2H-PERFLUOROHEXANE SULFONIC ACID (4:2 FTS)	PA
EPA 1633A	2H,2H,3H,3H-PERFLUOROOCTANOIC ACID (5:3 FTCA)	PA
EPA 1633A	3-PERFLUOROPROPYL PROPANOIC ACID (3:3 FTCA)	PA
EPA 1633A	9-CHLOROHEXADECAFLUORO-3-OXANONANE-1-SULFONIC ACID (9CL-PF3ONS)	PA
EPA 1633A	N-ETHYL PERFLUOROOCTANESULFONAMIDE (NETFOSA, ETFOSAM)	PA
EPA 1633A	N-ETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (N-ETFOSAA)	PA
EPA 1311	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)	PA
EPA 1613 B	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 1613 B	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 1613 B	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 1613 B	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 1613 B	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 1613 B	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 1613 B	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 1613 B	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 1633A	1H, 1H, 2H, 2H-PERFLUORODECANE SULFONIC ACID (8:2 FTS)	PA
EPA 1633A	1H, 1H, 2H, 2H-PERFLUOROOCTANE SULFONIC ACID (6:2 FTS)	PA
EPA 1633A	3-PERFLUOROHEPTYL PROPANOIC ACID (7:3 FTCA)	PA
EPA 1633A	4,8-DIOXA-3H-PERFLUORONONANOIC ACID (ADONA, DONA)	PA
EPA 1633A	HEXAFLUOROPROPYLENE OXIDE DIMER ACID (HFPO-DA, GENX)	PA
EPA 1633A	N-ETHYL PERFLUOROOCTANESULFONAMIDOETHANOL (NETFOSE, ETFOSE)	PA
EPA 1633A	N-METHYL PERFLUOROOCTANESULFONAMIDE (NMEFOSA, MEFOSA)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1633A	N-METHYL PERFLUOROOCTANESULFONAMIDOETHANOL (NMEFOSE, MEFOSE)	PA
EPA 1633A	NONAFLUORO-3,6-DIOXAHEPTANOIC ACID (NFDHA)	PA
EPA 1633A	PERFLUORO-1-BUTANESULFONIC ACID (PFBS)	PA
EPA 1633A	PERFLUORO-1-HEPTANESULFONIC ACID (PFHPS)	PA
EPA 1633A	PERFLUORO-1-NONANESULFONIC ACID (PFNS)	PA
EPA 1633A	PERFLUORO-1-OCTANESULFONIC ACID (PFOS)	PA
EPA 1633A	PERFLUORO-3-METHOXYPROPANOIC ACID (PFMPA)	PA
EPA 1633A	PERFLUOROBUTANOIC ACID (PFBA)	PA
EPA 1633A	PERFLUORODODECANESULFONIC ACID (PFDOS)	PA
EPA 1633A	PERFLUOROHEPTANOIC ACID (PFHPA)	PA
EPA 1633A	PERFLUORONONANOIC ACID (PFNA)	PA
EPA 1633A	PERFLUOROPENTANOIC ACID (PFPEA)	PA
EPA 1633A	PERFLUOROTRIDECANOIC ACID (PFTRDA)	PA
EPA 1668 A	2,2',3,3',4,4',5,5',6-NONACHLOROBIPHENYL (BZ-206)	PA
EPA 1668 A	2,2',3,3',4,4',5,6'-OCTACHLOROBIPHENYL (BZ-196)	PA
EPA 1668 A	2,2',3,3',4,4',5,6-OCTACHLOROBIPHENYL BZ-195)	PA
EPA 1668 A	2,2',3,3',4,4',6,6'-OCTACHLOROBIPHENYL (BZ-197)	PA
EPA 1668 A	2,2',3,3',4,4'-HEXACHLOROBIPHENYL (BZ-128)	PA
EPA 1668 A	2,2',3,3',4,5',6,6'-OCTACHLOROBIPHENYL (BZ-201)	PA
EPA 1668 A	2,2',3,3',4,5'-HEXACHLOROBIPHENYL (BZ-130)	PA
EPA 1668 A	2,2',3,3',4,5,5',6,6'-NONACHLOROBIPHENYL (BZ-208)	PA
EPA 1668 A	2,2',3,3',4,5,5'-HEPTACHLOROBIPHENYL (BZ-172)	PA
EPA 1668 A	2,2',3,3',4,5,6,6'-OCTACHLOROBIPHENYL (BZ-200)	PA
EPA 1668 A	2,2',3,3',4,5-HEXACHLOROBIPHENYL (BZ-129)	PA
EPA 1633A	N-METHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID (N-MEFOSAA)	PA
EPA 1633A	PERFLUORO(2-ETHOXYETHANE)SULFONIC ACID (PFEESA)	PA
EPA 1633A	PERFLUORO-1-DECANESULFONIC ACID (PFDS)	PA
EPA 1633A	PERFLUORO-1-HEXANESULFONIC ACID (PFHXS)	PA
EPA 1633A	PERFLUORO-1-OCTANESULFONAMIDE (PFOSA, PFOSAM)	PA
EPA 1633A	PERFLUORO-1-PENTANESULFONIC ACID (PFPES)	PA
EPA 1633A	PERFLUORO-4-METHOXYBUTANOIC ACID (PFMBA)	PA
EPA 1633A	PERFLUORODECANOIC ACID (PFDA)	PA
EPA 1633A	PERFLUORODODECANOIC ACID (PFDOA, PFDODA)	PA
EPA 1633A	PERFLUOROHEXANOIC ACID (PFHXA)	PA
EPA 1633A	PERFLUOROOCTANOIC ACID (PFOA)	PA
EPA 1633A	PERFLUOROTETRADECANOIC ACID (PFTA, PFTDA, PFTEDA)	PA
EPA 1633A	PERFLUOROUNDECANOIC ACID (PFUNA, PFUNDA)	PA
EPA 1668 A	2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL (BZ-194)	PA
EPA 1668 A	2,2',3,3',4,4',5,6,6'-NONACHLOROBIPHENYL (BZ-207)	PA
EPA 1668 A	2,2',3,3',4,4',5-HEPTACHLOROBIPHENYL (BZ-170)	PA
EPA 1668 A	2,2',3,3',4,4',6-HEPTACHLOROBIPHENYL (BZ-171)	PA
EPA 1668 A	2,2',3,3',4,5',6'-HEPTACHLOROBIPHENYL (BZ-177)	PA
EPA 1668 A	2,2',3,3',4,5',6-HEPTACHLOROBIPHENYL (BZ-175)	PA
EPA 1668 A	2,2',3,3',4,5,5',6'-OCTACHLOROBIPHENYL (BZ-199)	PA
EPA 1668 A	2,2',3,3',4,5,5',6-OCTACHLOROBIPHENYL (BZ-198)	PA
EPA 1668 A	2,2',3,3',4,5,6'-HEPTACHLOROBIPHENYL (BZ-174)	PA
EPA 1668 A	2,2',3,3',4,5,6-HEPTACHLOROBIPHENYL (BZ-173)	PA
EPA 1668 A	2,2',3,3',4,6'-HEXACHLOROBIPHENYL (BZ-132)	PA

Scope of Accreditation

VELAP Certificate No.: 13454

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601

Virginia Laboratory ID: 460182
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',3,3',4,6,6'-HEPTACHLOROBIPHENYL (BZ-176)	PA
EPA 1668 A	2,2',3,3',4-PENTACHLOROBIPHENYL (BZ-82)	PA
EPA 1668 A	2,2',3,3',5,5',6-HEPTACHLOROBIPHENYL (BZ-178)	PA
EPA 1668 A	2,2',3,3',5,6'-HEXACHLOROBIPHENYL (BZ-135)	PA
EPA 1668 A	2,2',3,3',5,6-HEXACHLOROBIPHENYL (BZ-134)	PA
EPA 1668 A	2,2',3,3',6,6'-HEXACHLOROBIPHENYL (BZ-136)	PA
EPA 1668 A	2,2',3,3'-TETRACHLOROBIPHENYL (BZ-40)	PA
EPA 1668 A	2,2',3,4',5'-PENTACHLOROBIPHENYL (BZ-97)	PA
EPA 1668 A	2,2',3,4',5,5'-HEXACHLOROBIPHENYL (BZ-146)	PA
EPA 1668 A	2,2',3,4',5,6,6'-HEPTACHLOROBIPHENYL (BZ-188)	PA
EPA 1668 A	2,2',3,4',5-PENTACHLOROBIPHENYL (BZ-90)	PA
EPA 1668 A	2,2',3,4',6,6'-HEXACHLOROBIPHENYL (BZ-150)	PA
EPA 1668 A	2,2',3,4'-TETRACHLOROBIPHENYL (BZ-42)	PA
EPA 1668 A	2,2',3,4,4',5'-HEXACHLOROBIPHENYL (BZ-138)	PA
EPA 1668 A	2,2',3,4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-180)	PA
EPA 1668 A	2,2',3,4,4',5,6,6'-OCTACHLOROBIPHENYL (BZ-204)	PA
EPA 1668 A	2,2',3,4,4',5-HEXACHLOROBIPHENYL (BZ-137)	PA
EPA 1668 A	2,2',3,4,4',6,6'-HEPTACHLOROBIPHENYL (BZ-184)	PA
EPA 1668 A	2,2',3,4,4'-PENTACHLOROBIPHENYL (BZ-85)	PA
EPA 1668 A	2,2',3,4,5'-PENTACHLOROBIPHENYL (BZ-87)	PA
EPA 1668 A	2,2',3,4,5,5'-HEXACHLOROBIPHENYL (BZ-141)	PA
EPA 1668 A	2,2',3,4,5,6,6'-HEPTACHLOROBIPHENYL (BZ-186)	PA
EPA 1668 A	2,2',3,4,5-PENTACHLOROBIPHENYL (BZ-86)	PA
EPA 1668 A	2,2',3,4,6,6'-HEXACHLOROBIPHENYL (BZ-145)	PA
EPA 1668 A	2,2',3,4-TETRACHLOROBIPHENYL (BZ-41)	PA
EPA 1668 A	2,2',3,4,6-HEXACHLOROBIPHENYL (BZ-131)	PA
EPA 1668 A	2,2',3,3',5,5',6,6'-OCTACHLOROBIPHENYL (BZ-202)	PA
EPA 1668 A	2,2',3,3',5,5'-HEXACHLOROBIPHENYL (BZ-133)	PA
EPA 1668 A	2,2',3,3',5,6,6'-HEPTACHLOROBIPHENYL (BZ-179)	PA
EPA 1668 A	2,2',3,3',5-PENTACHLOROBIPHENYL (BZ-83)	PA
EPA 1668 A	2,2',3,3',6-PENTACHLOROBIPHENYL (BZ-84)	PA
EPA 1668 A	2,2',3,4',5',6-HEXACHLOROBIPHENYL (BZ-149)	PA
EPA 1668 A	2,2',3,4',5,5',6-HEPTACHLOROBIPHENYL (BZ-187)	PA
EPA 1668 A	2,2',3,4',5,6'-HEXACHLOROBIPHENYL (BZ-148)	PA
EPA 1668 A	2,2',3,4',5,6-HEXACHLOROBIPHENYL (BZ-147)	PA
EPA 1668 A	2,2',3,4',6'-PENTACHLOROBIPHENYL (BZ-98)	PA
EPA 1668 A	2,2',3,4',6-PENTACHLOROBIPHENYL (BZ-91)	PA
EPA 1668 A	2,2',3,4,4',5',6-HEPTACHLOROBIPHENYL (BZ-183)	PA
EPA 1668 A	2,2',3,4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-203)	PA
EPA 1668 A	2,2',3,4,4',5,6'-HEPTACHLOROBIPHENYL (BZ-182)	PA
EPA 1668 A	2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL (BZ-181)	PA
EPA 1668 A	2,2',3,4,4',6'-HEXACHLOROBIPHENYL (BZ-140)	PA
EPA 1668 A	2,2',3,4,4',6-HEXACHLOROBIPHENYL (BZ-139)	PA
EPA 1668 A	2,2',3,4,5',6-HEXACHLOROBIPHENYL (BZ-144)	PA
EPA 1668 A	2,2',3,4,5,5',6-HEPTACHLOROBIPHENYL (BZ-185)	PA
EPA 1668 A	2,2',3,4,5,6'-HEXACHLOROBIPHENYL (BZ-143)	PA
EPA 1668 A	2,2',3,4,5,6-HEXACHLOROBIPHENYL (BZ-142)	PA
EPA 1668 A	2,2',3,4,6'-PENTACHLOROBIPHENYL (BZ-89)	PA
EPA 1668 A	2,2',3,4,6-PENTACHLOROBIPHENYL (BZ-88)	PA
EPA 1668 A	2,2',3,5',6-PENTACHLOROBIPHENYL (BZ-95)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,2',3,5'-TETRACHLOROBIPHENYL (BZ-44)	PA
EPA 1668 A	2,2',3,5,5'-PENTACHLOROBIPHENYL (BZ-92)	PA
EPA 1668 A	2,2',3,5,6,6'-HEXACHLOROBIPHENYL (BZ-152)	PA
EPA 1668 A	2,2',3,5-TETRACHLOROBIPHENYL (BZ-43)	PA
EPA 1668 A	2,2',3,6,6'-PENTACHLOROBIPHENYL (BZ-96)	PA
EPA 1668 A	2,2',3-TRICHLOROBIPHENYL (BZ-16)	PA
EPA 1668 A	2,2',4,4',5,6'-HEXACHLOROBIPHENYL (BZ-154)	PA
EPA 1668 A	2,2',4,4',6,6'-HEXACHLOROBIPHENYL (BZ-155)	PA
EPA 1668 A	2,2',4,4'-TETRACHLOROBIPHENYL (BZ-47)	PA
EPA 1668 A	2,2',4,5'-TETRACHLOROBIPHENYL (BZ-49)	PA
EPA 1668 A	2,2',4,5,6'-PENTACHLOROBIPHENYL (BZ-102)	PA
EPA 1668 A	2,2',4,6'-TETRACHLOROBIPHENYL (BZ-51)	PA
EPA 1668 A	2,2',4,6-TETRACHLOROBIPHENYL (BZ-50)	PA
EPA 1668 A	2,2',5,5'-TETRACHLOROBIPHENYL (BZ-52)	PA
EPA 1668 A	2,2',5-TRICHLOROBIPHENYL (BZ-18)	PA
EPA 1668 A	2,2',6-TRICHLOROBIPHENYL (BZ-19)	PA
EPA 1668 A	2,3',4',5',6-PENTACHLOROBIPHENYL (BZ-125)	PA
EPA 1668 A	2,3',4',5,5'-PENTACHLOROBIPHENYL (BZ-124)	PA
EPA 1668 A	2,3',4',6-TETRACHLOROBIPHENYL (BZ-71)	PA
EPA 1668 A	2,3',4,4',5',6-HEXACHLOROBIPHENYL (BZ-168)	PA
EPA 1668 A	2,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-167)	PA
EPA 1668 A	2,3',4,4',6-PENTACHLOROBIPHENYL (BZ-119)	PA
EPA 1668 A	2,3',4,5',6-PENTACHLOROBIPHENYL (BZ-121)	PA
EPA 1668 A	2,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-120)	PA
EPA 1668 A	2,3',4,6-TETRACHLOROBIPHENYL (BZ-69)	PA
EPA 1668 A	2,2',3,5,5',6-HEXACHLOROBIPHENYL (BZ-151)	PA
EPA 1668 A	2,2',3,5,6'-PENTACHLOROBIPHENYL (BZ-94)	PA
EPA 1668 A	2,2',3,5,6-PENTACHLOROBIPHENYL (BZ-93)	PA
EPA 1668 A	2,2',3,6'-TETRACHLOROBIPHENYL (BZ-46)	PA
EPA 1668 A	2,2',3,6-TETRACHLOROBIPHENYL (BZ-45)	PA
EPA 1668 A	2,2',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-153)	PA
EPA 1668 A	2,2',4,4',5-PENTACHLOROBIPHENYL (BZ-99)	PA
EPA 1668 A	2,2',4,4',6-PENTACHLOROBIPHENYL (BZ-100)	PA
EPA 1668 A	2,2',4,5',6-PENTACHLOROBIPHENYL (BZ-103)	PA
EPA 1668 A	2,2',4,5,5'-PENTACHLOROBIPHENYL (BZ-101)	PA
EPA 1668 A	2,2',4,5-TETRACHLOROBIPHENYL (BZ-48)	PA
EPA 1668 A	2,2',4,6,6'-PENTACHLOROBIPHENYL (BZ-104)	PA
EPA 1668 A	2,2',4-TRICHLOROBIPHENYL (BZ-17)	PA
EPA 1668 A	2,2',5,6'-TETRACHLOROBIPHENYL (BZ-53)	PA
EPA 1668 A	2,2',6,6'-TETRACHLOROBIPHENYL (BZ-54)	PA
EPA 1668 A	2,2'-DICHLOROBIPHENYL (BZ-4)	PA
EPA 1668 A	2,3',4',5'-TETRACHLOROBIPHENYL (BZ-76)	PA
EPA 1668 A	2,3',4',5-TETRACHLOROBIPHENYL (BZ-70)	PA
EPA 1668 A	2,3',4'-TRICHLOROBIPHENYL (BZ-33)	PA
EPA 1668 A	2,3',4,4',5'-PENTACHLOROBIPHENYL (BZ-123)	PA
EPA 1668 A	2,3',4,4',5-PENTACHLOROBIPHENYL (BZ-118)	PA
EPA 1668 A	2,3',4,4'-TETRACHLOROBIPHENYL (BZ-66)	PA
EPA 1668 A	2,3',4,5'-TETRACHLOROBIPHENYL (BZ-68)	PA
EPA 1668 A	2,3',4,5-TETRACHLOROBIPHENYL (BZ-67)	PA
EPA 1668 A	2,3',4-TRICHLOROBIPHENYL (BZ-25)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,3',5',6-TETRACHLOROBIPHENYL (BZ-73)	PA
EPA 1668 A	2,3',5,5'-TETRACHLOROBIPHENYL (BZ-72)	PA
EPA 1668 A	2,3',6-TRICHLOROBIPHENYL (BZ-27)	PA
EPA 1668 A	2,3,3',4',5',6-HEXACHLOROBIPHENYL (BZ-164)	PA
EPA 1668 A	2,3,3',4',5,5',6-HEPTACHLOROBIPHENYL (BZ-193)	PA
EPA 1668 A	2,3,3',4',5,6-HEXACHLOROBIPHENYL (BZ-163)	PA
EPA 1668 A	2,3,3',4',6-PENTACHLOROBIPHENYL (BZ-110)	PA
EPA 1668 A	2,3,3',4,4',5',6-HEPTACHLOROBIPHENYL (BZ-191)	PA
EPA 1668 A	2,3,3',4,4',5,5',6-OCTACHLOROBIPHENYL (BZ-205)	PA
EPA 1668 A	2,3,3',4,4',5,6-HEPTACHLOROBIPHENYL (BZ-190)	PA
EPA 1668 A	2,3,3',4,4',6-HEXACHLOROBIPHENYL (BZ-158)	PA
EPA 1668 A	2,3,3',4,5',6-HEXACHLOROBIPHENYL (BZ-161)	PA
EPA 1668 A	2,3,3',4,5,5',6-HEPTACHLOROBIPHENYL (BZ-192)	PA
EPA 1668 A	2,3,3',4,5,6-HEXACHLOROBIPHENYL (BZ-160)	PA
EPA 1668 A	2,3,3',4,6-PENTACHLOROBIPHENYL (BZ-109)	PA
EPA 1668 A	2,3,3',5',6-PENTACHLOROBIPHENYL (BZ-113)	PA
EPA 1668 A	2,3,3',5,5',6-HEXACHLOROBIPHENYL (BZ-165)	PA
EPA 1668 A	2,3,3',5,6-PENTACHLOROBIPHENYL (BZ-112)	PA
EPA 1668 A	2,3,3',6-TETRACHLOROBIPHENYL (BZ-59)	PA
EPA 1668 A	2,3,4',5,6-PENTACHLOROBIPHENYL (BZ-117)	PA
EPA 1668 A	2,3,4',6-TETRACHLOROBIPHENYL (BZ-64)	PA
EPA 1668 A	2,3,4,4',5,6-HEXACHLOROBIPHENYL (BZ-166)	PA
EPA 1668 A	2,3,4,4',6-PENTACHLOROBIPHENYL (BZ-115)	PA
EPA 1668 A	2,3,4,5,6-PENTACHLOROBIPHENYL (BZ-116)	PA
EPA 1668 A	2,3,4,6-TETRACHLOROBIPHENYL (BZ-62)	PA
EPA 1668 A	2,3',5'-TRICHLOROBIPHENYL (BZ-34)	PA
EPA 1668 A	2,3',5-TRICHLOROBIPHENYL (BZ-26)	PA
EPA 1668 A	2,3'-DICHLOROBIPHENYL (BZ-6)	PA
EPA 1668 A	2,3,3',4',5'-PENTACHLOROBIPHENYL (BZ-122)	PA
EPA 1668 A	2,3,3',4',5,5'-HEXACHLOROBIPHENYL (BZ-162)	PA
EPA 1668 A	2,3,3',4',5-PENTACHLOROBIPHENYL (BZ-107)	PA
EPA 1668 A	2,3,3',4'-TETRACHLOROBIPHENYL (BZ-56)	PA
EPA 1668 A	2,3,3',4,4',5'-HEXACHLOROBIPHENYL (BZ-157)	PA
EPA 1668 A	2,3,3',4,4',5,5'-HEPTACHLOROBIPHENYL (BZ-189)	PA
EPA 1668 A	2,3,3',4,4',5-HEXACHLOROBIPHENYL (BZ-156)	PA
EPA 1668 A	2,3,3',4,4'-PENTACHLOROBIPHENYL (BZ-105)	PA
EPA 1668 A	2,3,3',4,5'-PENTACHLOROBIPHENYL (BZ-108)	PA
EPA 1668 A	2,3,3',4,5,5'-HEXACHLOROBIPHENYL (BZ-159)	PA
EPA 1668 A	2,3,3',4,5-PENTACHLOROBIPHENYL (BZ-106)	PA
EPA 1668 A	2,3,3',4-TETRACHLOROBIPHENYL (BZ-55)	PA
EPA 1668 A	2,3,3',5'-TETRACHLOROBIPHENYL (BZ-58)	PA
EPA 1668 A	2,3,3',5,5'-PENTACHLOROBIPHENYL (BZ-111)	PA
EPA 1668 A	2,3,3',5-TETRACHLOROBIPHENYL (BZ-57)	PA
EPA 1668 A	2,3,3'-TRICHLOROBIPHENYL (BZ-20)	PA
EPA 1668 A	2,3,4',5-TETRACHLOROBIPHENYL (BZ-63)	PA
EPA 1668 A	2,3,4'-TRICHLOROBIPHENYL (BZ-22)	PA
EPA 1668 A	2,3,4,4',5-PENTACHLOROBIPHENYL (BZ-114)	PA
EPA 1668 A	2,3,4,4'-TETRACHLOROBIPHENYL (BZ-60)	PA
EPA 1668 A	2,3,4,5-TETRACHLOROBIPHENYL (BZ-61)	PA
EPA 1668 A	2,3,4-TRICHLOROBIPHENYL (BZ-21)	PA

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 1668 A	2,3,5,6-TETRACHLOROBIPHENYL (BZ-65)	PA
EPA 1668 A	2,3,6-TRICHLOROBIPHENYL (BZ-24)	PA
EPA 1668 A	2,4',5-TRICHLOROBIPHENYL (BZ-31)	PA
EPA 1668 A	2,4'-DICHLOROBIPHENYL (BZ-8)	PA
EPA 1668 A	2,4,4',6-TETRACHLOROBIPHENYL (BZ-75)	PA
EPA 1668 A	2,4,5-TRICHLOROBIPHENYL (BZ-29)	PA
EPA 1668 A	2,4-DICHLOROBIPHENYL (BZ-7)	PA
EPA 1668 A	2,6-DICHLOROBIPHENYL (BZ-10)	PA
EPA 1668 A	3,3',4,4',5,5'-HEXACHLOROBIPHENYL (BZ-169)	PA
EPA 1668 A	3,3',4,4'-TETRACHLOROBIPHENYL (BZ-77)	PA
EPA 1668 A	3,3',4,5,5'-PENTACHLOROBIPHENYL (BZ-127)	PA
EPA 1668 A	3,3',4-TRICHLOROBIPHENYL (BZ-35)	PA
EPA 1668 A	3,3',5-TRICHLOROBIPHENYL (BZ-36)	PA
EPA 1668 A	3,4',5-TRICHLOROBIPHENYL (BZ-39)	PA
EPA 1668 A	3,4,4',5-TETRACHLOROBIPHENYL (BZ-81)	PA
EPA 1668 A	3,4,5-TRICHLOROBIPHENYL (BZ-38)	PA
EPA 1668 A	3,5-DICHLOROBIPHENYL (BZ-14)	PA
EPA 1668 A	4,4'-DICHLOROBIPHENYL (BZ-15)	PA
EPA 1668 A	DECACHLOROBIPHENYL (BZ-209)	PA
EPA 300.0 REV 2.1	FLUORIDE	PA
EPA 300.0 REV 2.1	NITRITE AS N	PA
EPA 3050 B	PREP: ACID DIGESTION OF SEDIMENTS, SLUDGES, AND SOILS	PA
EPA 3546	PREP: MICROWAVE EXTRACTION	PA
EPA 3580 A	PREP: WASTE DILUTION	PA
EPA 3630 C	PREP: SILICA GEL CLEANUP	PA
EPA 365.1 REV 2	PHOSPHORUS, TOTAL	PA
EPA 3665 A	SULFURIC ACID/PERMANGANATE CLEAN-UP	PA
EPA 5035 A	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	PA
EPA 6010 D	ANTIMONY	PA
EPA 6010 D	BARIUM	PA
EPA 6010 D	BORON	PA
EPA 6010 D	CALCIUM	PA
EPA 1668 A	2,3,5-TRICHLOROBIPHENYL (BZ-23)	PA
EPA 1668 A	2,3-DICHLOROBIPHENYL (BZ-5)	PA
EPA 1668 A	2,4',6-TRICHLOROBIPHENYL (BZ-32)	PA
EPA 1668 A	2,4,4',5-TETRACHLOROBIPHENYL (BZ-74)	PA
EPA 1668 A	2,4,4'-TRICHLOROBIPHENYL (BZ-28)	PA
EPA 1668 A	2,4,6-TRICHLOROBIPHENYL (BZ-30)	PA
EPA 1668 A	2,5-DICHLOROBIPHENYL (BZ-9)	PA
EPA 1668 A	2-CHLOROBIPHENYL (BZ-1)	PA
EPA 1668 A	3,3',4,4',5-PENTACHLOROBIPHENYL (BZ-126)	PA
EPA 1668 A	3,3',4,5'-TETRACHLOROBIPHENYL (BZ-79)	PA
EPA 1668 A	3,3',4,5-TETRACHLOROBIPHENYL (BZ-78)	PA
EPA 1668 A	3,3',5,5'-TETRACHLOROBIPHENYL (BZ-80)	PA
EPA 1668 A	3,3'-DICHLOROBIPHENYL (BZ-11)	PA
EPA 1668 A	3,4'-DICHLOROBIPHENYL (BZ-13)	PA
EPA 1668 A	3,4,4'-TRICHLOROBIPHENYL (BZ-37)	PA
EPA 1668 A	3,4-DICHLOROBIPHENYL (BZ-12)	PA
EPA 1668 A	3-CHLOROBIPHENYL (BZ-2)	PA
EPA 1668 A	4-CHLOROBIPHENYL (BZ-3)	PA
EPA 300.0 REV 2.1	CHLORIDE	PA
EPA 300.0 REV 2.1	NITRATE AS N	PA
EPA 300.0 REV 2.1	SULFATE	PA
EPA 351.2 REV 2	KJELDAHL NITROGEN - TOTAL (TKN)	PA
EPA 3550 C	PREP: ULTRASONIC EXTRACTION	PA
EPA 3620 C	PREP: FLORISIL CLEANUP	PA
EPA 3640 A	PREP: GEL PERMEATION CLEANUP	PA
EPA 3660 B	PREP: SULFUR CLEANUP	PA
EPA 5030	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	PA
EPA 6010 D	ALUMINUM	PA
EPA 6010 D	ARSENIC	PA
EPA 6010 D	BERYLLIUM	PA
EPA 6010 D	CADMIUM	PA
EPA 6010 D	CHROMIUM	PA

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 13454

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601

Virginia Laboratory ID: 460182
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 6010 D	COBALT	PA
EPA 6010 D	IRON	PA
EPA 6010 D	LITHIUM	PA
EPA 6010 D	MANGANESE	PA
EPA 6010 D	NICKEL	PA
EPA 6010 D	SELENIUM	PA
EPA 6010 D	SILVER	PA
EPA 6010 D	STRONTIUM	PA
EPA 6010 D	TIN	PA
EPA 6010 D	VANADIUM	PA
EPA 6010 D - EXTENDED	SULFUR	PA
EPA 6010 D - EXTENDED	ZIRCONIUM	PA
EPA 6020 B	ANTIMONY	PA
EPA 6020 B	BARIUM	PA
EPA 6020 B	CADMIUM	PA
EPA 6020 B	CHROMIUM	PA
EPA 6020 B	COPPER	PA
EPA 6020 B	LEAD	PA
EPA 6020 B	MANGANESE	PA
EPA 6020 B	NICKEL	PA
EPA 6020 B	SELENIUM	PA
EPA 6020 B	SODIUM	PA
EPA 6020 B	TIN	PA
EPA 6020 B	ZINC	PA
EPA 6020 B - EXTENDED	TITANIUM	PA
EPA 6850	PERCHLORATE	PA
EPA 7199	CHROMIUM VI	PA
EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 C	ETHYLENE GLYCOL	PA
EPA 8015 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 C - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8015 D	ETHANOL	PA
EPA 8015 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8015 D	N-PROPANOL (1-PROPANOL)	PA
EPA 6010 D	COPPER	PA
EPA 6010 D	LEAD	PA
EPA 6010 D	MAGNESIUM	PA
EPA 6010 D	MOLYBDENUM	PA
EPA 6010 D	POTASSIUM	PA
EPA 6010 D	SILICA AS SIO2	PA
EPA 6010 D	SODIUM	PA
EPA 6010 D	THALLIUM	PA
EPA 6010 D	TITANIUM	PA
EPA 6010 D	ZINC	PA
EPA 6010 D - EXTENDED	THORIUM	PA
EPA 6020 B	ALUMINUM	PA
EPA 6020 B	ARSENIC	PA
EPA 6020 B	BERYLLIUM	PA
EPA 6020 B	CALCIUM	PA
EPA 6020 B	COBALT	PA
EPA 6020 B	IRON	PA
EPA 6020 B	MAGNESIUM	PA
EPA 6020 B	MOLYBDENUM	PA
EPA 6020 B	POTASSIUM	PA
EPA 6020 B	SILVER	PA
EPA 6020 B	THALLIUM	PA
EPA 6020 B	VANADIUM	PA
EPA 6020 B - EXTENDED	STRONTIUM	PA
EPA 6020 B - EXTENDED	URANIUM (MASS)	PA
EPA 7196 A	CHROMIUM VI	PA
EPA 7471 B	MERCURY	PA
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8015 C	ETHANOL	PA
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 C	METHANOL	PA
EPA 8015 D	DIESEL RANGE ORGANICS (DRO)	PA
EPA 8015 D	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8015 D	METHANOL	PA
EPA 8015 D - EXTENDED	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8015 D - EXTENDED	ETHYLENE GLYCOL	PA
EPA 8015 D - EXTENDED	TRIETHYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDE	PA
EPA 8081 B	ALDRIN	PA
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	PA
EPA 8081 B	CHLORDANE, TOTAL	PA
EPA 8081 B	DIELDRIN	PA
EPA 8081 B	ENDOSULFAN II	PA
EPA 8081 B	ENDRIN	PA
EPA 8081 B	ENDRIN KETONE	PA
EPA 8081 B	GAMMA-CHLORDANE (TRANS-CHLORDANE)	PA
EPA 8081 B	HEPTACHLOR EPOXIDE	PA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	PA
EPA 8081 B - EXTENDED	2,4'-DDE	PA
EPA 8081 B - EXTENDED	KEPONE	PA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	PA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	PA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	PA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	PA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	PA
EPA 8151 A	2,4-D	PA
EPA 8151 A	DALAPON	PA
EPA 8151 A	DICHLOROPROP (DICHLORPROP)	PA
EPA 8151 A	MCPA	PA
EPA 8151 A	PENTACHLOROPHENOL	PA
EPA 8151 A	SILVEX (2,4,5-TP)	PA
EPA 8260 C	1,1,1-TRICHLOROETHANE	PA
EPA 8260 C	1,1,2-TRICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHYLENE	PA
EPA 8260 C	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 C	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 C	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8015 D - EXTENDED	PROPYLENE GLYCOL	PA
EPA 8081 B	4,4'-DDD	PA
EPA 8081 B	4,4'-DDT	PA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	DELTA-BHC	PA
EPA 8081 B	ENDOSULFAN I	PA
EPA 8081 B	ENDOSULFAN SULFATE	PA
EPA 8081 B	ENDRIN ALDEHYDE	PA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	PA
EPA 8081 B	HEPTACHLOR	PA
EPA 8081 B	METHOXYCHLOR	PA
EPA 8081 B - EXTENDED	2,4'-DDD	PA
EPA 8081 B - EXTENDED	2,4'-DDT	PA
EPA 8081 B - EXTENDED	MIREX	PA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	PA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	PA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	PA
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	PA
EPA 8151 A	2,4,5-T	PA
EPA 8151 A	2,4-DB	PA
EPA 8151 A	DICAMBA	PA
EPA 8151 A	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8151 A	MCPP	PA
EPA 8151 A	PICLORAM	PA
EPA 8260 C	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROETHANE	PA
EPA 8260 C	1,1-DICHLOROPROPENE	PA
EPA 8260 C	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 C	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 C	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 C	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 C	1,2-DICHLOROPROPANE	PA
EPA 8260 C	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 C	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8260 C	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 C	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 C	2-CHLOROTOLUENE	PA
EPA 8260 C	2-NITROPROPANE	PA
EPA 8260 C	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 C	ACETONE	PA
EPA 8260 C	ACROLEIN (PROPENAL)	PA
EPA 8260 C	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 C	BENZYL CHLORIDE	PA
EPA 8260 C	BROMOCHLOROMETHANE	PA
EPA 8260 C	BROMOFORM	PA
EPA 8260 C	CARBON TETRACHLORIDE	PA
EPA 8260 C	CHLORODIBROMOMETHANE	PA
EPA 8260 C	CHLOROFORM	PA
EPA 8260 C	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 C	CYCLOHEXANE	PA
EPA 8260 C	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 C	ETHYL ACETATE	PA
EPA 8260 C	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 C	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 C	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 C	ISOPROPYLBENZENE	PA
EPA 8260 C	METHACRYLONITRILE	PA
EPA 8260 C	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 C	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 C	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 C	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 C	1,3-DICHLOROPROPANE	PA
EPA 8260 C	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 C	2,2-DICHLOROPROPANE	PA
EPA 8260 C	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 C	2-HEXANONE	PA
EPA 8260 C	4-CHLOROTOLUENE	PA
EPA 8260 C	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 C	ACETONITRILE	PA
EPA 8260 C	ACRYLONITRILE	PA
EPA 8260 C	BENZENE	PA
EPA 8260 C	BROMOBENZENE	PA
EPA 8260 C	BROMODICHLOROMETHANE	PA
EPA 8260 C	CARBON DISULFIDE	PA
EPA 8260 C	CHLOROBENZENE	PA
EPA 8260 C	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 C	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 C	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 C	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 C	ETHANOL	PA
EPA 8260 C	ETHYL METHACRYLATE	PA
EPA 8260 C	ETHYLBENZENE	PA
EPA 8260 C	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 C	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8260 C	M+P-XYLENE	PA
EPA 8260 C	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 C	METHYL METHACRYLATE	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 C	METHYLCYCLOHEXANE	PA
EPA 8260 C	N-BUTYLBENZENE	PA
EPA 8260 C	NAPHTHALENE	PA
EPA 8260 C	PENTACHLOROETHANE	PA
EPA 8260 C	SEC-BUTYLBENZENE	PA
EPA 8260 C	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 C	TERT-BUTYLBENZENE	PA
EPA 8260 C	TOLUENE	PA
EPA 8260 C	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 C	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 C	VINYL ACETATE	PA
EPA 8260 C	XYLENE (TOTAL)	PA
EPA 8260 C - EXTENDED	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 C - EXTENDED	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 C - EXTENDED	METHYL ACETATE	PA
EPA 8260 C - EXTENDED	N-HEXANE	PA
EPA 8260 C - EXTENDED	TERT-BUTYL FORMATE	PA
EPA 8260 C SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8260 D	1,1,1-TRICHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 D	1,1-DICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROPROPENE	PA
EPA 8260 D	1,2,3-TRICHLOROPROPANE	PA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	PA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8260 D	1,2-DICHLOROPROPANE	PA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8260 D	1-BUTANOL (N-BUTANOL, N-BUTYL ALCOHOL)	PA
EPA 8260 C	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 C	N-PROPYLBENZENE	PA
EPA 8260 C	O-XYLENE	PA
EPA 8260 C	PROPIONITRILE (ETHYL CYANIDE)	PA
EPA 8260 C	STYRENE	PA
EPA 8260 C	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 C	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 C	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 C	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 C	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 C	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 C - EXTENDED	1,1,2-TRICHLORO-1,2,2-TRIFLUORO ETHANE (FREON 113)	PA
EPA 8260 C - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 C - EXTENDED	GASOLINE RANGE ORGANICS (GRO)	PA
EPA 8260 C - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 C - EXTENDED	TERT-AMYL ALCOHOL (TAA)	PA
EPA 8260 C - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	PA
EPA 8260 D	1,1,2-TRICHLOROETHANE	PA
EPA 8260 D	1,1-DICHLOROETHYLENE	PA
EPA 8260 D	1,2,3-TRICHLOROBENZENE	PA
EPA 8260 D	1,2,3-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2,4-TRIMETHYLBENZENE	PA
EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	PA
EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	PA
EPA 8260 D	1,3,5-TRIMETHYLBENZENE	PA
EPA 8260 D	1,3-DICHLOROPROPANE	PA
EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	1-CHLOROHEXANE	PA
EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	PA
EPA 8260 D	2-CHLOROTOLUENE	PA
EPA 8260 D	2-NITROPROPANE	PA
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	PA
EPA 8260 D	ACETONE	PA
EPA 8260 D	ACROLEIN (PROPENAL)	PA
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	PA
EPA 8260 D	BENZYL CHLORIDE	PA
EPA 8260 D	BROMOCHLOROMETHANE	PA
EPA 8260 D	BROMOFORM	PA
EPA 8260 D	CARBON TETRACHLORIDE	PA
EPA 8260 D	CHLORODIBROMOMETHANE	PA
EPA 8260 D	CHLOROFORM	PA
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	PA
EPA 8260 D	CYCLOHEXANE	PA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	PA
EPA 8260 D	ETHANOL	PA
EPA 8260 D	ETHYL METHACRYLATE	PA
EPA 8260 D	ETHYLBENZENE	PA
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	PA
EPA 8260 D	ISOPROPYL ALCOHOL (2-PROPANOL, ISOPROPANOL)	PA
EPA 8260 D	M+P-XYLENE	PA
EPA 8260 D	METHYL ACETATE	PA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	PA
EPA 8260 D	METHYL METHACRYLATE	PA
EPA 8260 D	METHYLCYCLOHEXANE	PA
EPA 8260 D	N-BUTYLBENZENE	PA
EPA 8260 D	NAPHTHALENE	PA
EPA 8260 D	PENTACHLOROETHANE	PA
EPA 8260 D	2,2-DICHLOROPROPANE	PA
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	PA
EPA 8260 D	2-HEXANONE	PA
EPA 8260 D	4-CHLOROTOLUENE	PA
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	PA
EPA 8260 D	ACETONITRILE	PA
EPA 8260 D	ACRYLONITRILE	PA
EPA 8260 D	BENZENE	PA
EPA 8260 D	BROMOBENZENE	PA
EPA 8260 D	BROMODICHLOROMETHANE	PA
EPA 8260 D	CARBON DISULFIDE	PA
EPA 8260 D	CHLOROBENZENE	PA
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	PA
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	PA
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	PA
EPA 8260 D	DI-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	PA
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	PA
EPA 8260 D	ETHYL ACETATE	PA
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	PA
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	PA
EPA 8260 D	ISOPROPYLBENZENE	PA
EPA 8260 D	METHACRYLONITRILE	PA
EPA 8260 D	METHYL ACRYLATE	PA
EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	PA
EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	PA
EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	PA
EPA 8260 D	N-PROPYLBENZENE	PA
EPA 8260 D	O-XYLENE	PA
EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8260 D	SEC-BUTYLBENZENE	PA
EPA 8260 D	TERT-AMYL METHYL ETHER (TAME)	PA
EPA 8260 D	TERT-BUTYLBENZENE	PA
EPA 8260 D	TOLUENE	PA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	PA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	PA
EPA 8260 D	VINYL ACETATE	PA
EPA 8260 D	XYLENE (TOTAL)	PA
EPA 8260 D - EXTENDED	1,4-DIETHYLBENZENE (P-DIETHYLBENZENE)	PA
EPA 8260 D - EXTENDED	ETHYL ACRYLATE	PA
EPA 8260 D - EXTENDED	N-BUTYL-ACETATE	PA
EPA 8260 D - EXTENDED	N-PENTANE	PA
EPA 8260 D SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 D	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA
EPA 8270 D	1,4-NAPHTHOQUINONE	PA
EPA 8270 D	1-CHLORONAPHTHALENE	PA
EPA 8270 D	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 D	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DICHLOROPHENOL	PA
EPA 8270 D	2,4-DINITROPHENOL	PA
EPA 8270 D	2,6-DICHLOROPHENOL	PA
EPA 8270 D	2-ACETYLAMINOFLUORENE	PA
EPA 8270 D	2-CHLOROPHENOL	PA
EPA 8270 D	2-METHYLNAPHTHALENE	PA
EPA 8270 D	2-NAPHTHYLAMINE	PA
EPA 8270 D	2-NITROPHENOL	PA
EPA 8270 D	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 D	3-METHYLCHOLANTHRENE	PA
EPA 8260 D	STYRENE	PA
EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	PA
EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	PA
EPA 8260 D	TRANS-1,2-DICHLOROETHENE	PA
EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	PA
EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	PA
EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	PA
EPA 8260 D - EXTENDED	1,3,5-TRICHLOROBENZENE	PA
EPA 8260 D - EXTENDED	CYCLOHEXANONE	PA
EPA 8260 D - EXTENDED	ISOPROPYL ACETATE	PA
EPA 8260 D - EXTENDED	N-HEXANE	PA
EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	PA
EPA 8270 D	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 D	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 D	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 D	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 D	1,4-PHENYLENEDIAMINE	PA
EPA 8270 D	1-NAPHTHYLAMINE	PA
EPA 8270 D	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 D	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 D	2,4-DIMETHYLPHENOL	PA
EPA 8270 D	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 D	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 D	2-CHLORONAPHTHALENE	PA
EPA 8270 D	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 D	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 D	2-NITROANILINE	PA
EPA 8270 D	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 D	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 D	3-NITROANILINE	PA

Scope of Accreditation

VELAP Certificate No.: 13454

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601

Virginia Laboratory ID: 460182
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 D	4,4'-METHYLENEBIS-2-CHLOROANILINE	PA
EPA 8270 D	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 D	4-CHLOROANILINE	PA
EPA 8270 D	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 D	4-NITROPHENOL	PA
EPA 8270 D	5-NITRO-O-TOLUIDINE	PA
EPA 8270 D	A-A-DIMETHYLPHENETHYLAMINE	PA
EPA 8270 D	ACENAPHTHYLENE	PA
EPA 8270 D	ANILINE	PA
EPA 8270 D	ARAMITE	PA
EPA 8270 D	BENZO(A)ANTHRACENE	PA
EPA 8270 D	BENZO(B)FLUORANTHENE	PA
EPA 8270 D	BENZO(K)FLUORANTHENE	PA
EPA 8270 D	BENZYL ALCOHOL	PA
EPA 8270 D	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 D	BUTYL BENZYL PHTHALATE	PA
EPA 8270 D	CHRYSENE	PA
EPA 8270 D	DI-N-OCTYL PHTHALATE	PA
EPA 8270 D	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 D	DIBENZOFURAN	PA
EPA 8270 D	DIMETHOATE	PA
EPA 8270 D	DIPHENYLAMINE	PA
EPA 8270 D	ETHYL METHANESULFONATE	PA
EPA 8270 D	FLUORANTHENE	PA
EPA 8270 D	HEXACHLOROBENZENE	PA
EPA 8270 D	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 D	HEXACHLOROPROPENE	PA
EPA 8270 D	ISODRIN	PA
EPA 8270 D	ISOSAFROLE	PA
EPA 8270 D	METHAPYRILENE	PA
EPA 8270 D	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 D	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 D	N-NITROSODIMETHYLAMINE	PA
EPA 8270 D	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 D	4-AMINOBIPHENYL	PA
EPA 8270 D	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 D	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 D	4-NITROANILINE	PA
EPA 8270 D	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 D	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 D	ACENAPHTHENE	PA
EPA 8270 D	ACETOPHENONE	PA
EPA 8270 D	ANTHRACENE	PA
EPA 8270 D	BENZIDINE	PA
EPA 8270 D	BENZO(A)PYRENE	PA
EPA 8270 D	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D	BENZOIC ACID	PA
EPA 8270 D	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 D	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 D	CHLOROBENZILATE	PA
EPA 8270 D	DI-N-BUTYL PHTHALATE	PA
EPA 8270 D	DIALLATE	PA
EPA 8270 D	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D	DIETHYL PHTHALATE	PA
EPA 8270 D	DIMETHYL PHTHALATE	PA
EPA 8270 D	DISULFOTON	PA
EPA 8270 D	FAMPHUR	PA
EPA 8270 D	FLUORENE	PA
EPA 8270 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 D	HEXACHLOROETHANE	PA
EPA 8270 D	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D	ISOPHORONE	PA
EPA 8270 D	KEPONE	PA
EPA 8270 D	METHYL METHANESULFONATE	PA
EPA 8270 D	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 D	N-NITROSODIETHYLAMINE	PA
EPA 8270 D	N-NITROSODIPHENYLAMINE	PA
EPA 8270 D	N-NITROSOMORPHOLINE	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 D	N-NITROSOPIPERIDINE	PA
EPA 8270 D	NAPHTHALENE	PA
EPA 8270 D	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 D	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 D	PENTACHLORONITROBENZENE	PA
EPA 8270 D	PHENACETIN	PA
EPA 8270 D	PHENOL	PA
EPA 8270 D	PHTHALIC ANHYDRIDE	PA
EPA 8270 D	PYRENE	PA
EPA 8270 D	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 D - EXTENDED	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 D - EXTENDED	1,2,3,5-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 D - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 D - EXTENDED	BENZALDEHYDE	PA
EPA 8270 D - EXTENDED	CARBAZOLE	PA
EPA 8270 D - EXTENDED	INDENE	PA
EPA 8270 D - EXTENDED	PYRIDINE	PA
EPA 8270 D SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 D SIM	ACENAPHTHYLENE	PA
EPA 8270 D SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 D SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 D SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 D SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 D SIM	FLUORENE	PA
EPA 8270 D SIM	NAPHTHALENE	PA
EPA 8270 D SIM	PYRENE	PA
EPA 8270 D SIM - EXTENDED	1-METHYLNAPHTHALENE	PA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	PA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	PA
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	PA
EPA 8270 D	N-NITROSOPYRROLIDINE	PA
EPA 8270 D	NITROBENZENE	PA
EPA 8270 D	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 D	PENTACHLOROBENZENE	PA
EPA 8270 D	PENTACHLOROPHENOL	PA
EPA 8270 D	PHENANTHRENE	PA
EPA 8270 D	PHORATE	PA
EPA 8270 D	PRONAMIDE (KERB)	PA
EPA 8270 D	SAFROLE	PA
EPA 8270 D	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 D - EXTENDED	1,2,3,4-TETRACHLOROBENZENE	PA
EPA 8270 D - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 D - EXTENDED	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 D - EXTENDED	ATRAZINE	PA
EPA 8270 D - EXTENDED	CAPROLACTAM	PA
EPA 8270 D - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 D - EXTENDED	N,N-DIMETHYLFORMAMIDE	PA
EPA 8270 D - EXTENDED	QUINOLINE	PA
EPA 8270 D SIM	ACENAPHTHENE	PA
EPA 8270 D SIM	ANTHRACENE	PA
EPA 8270 D SIM	BENZO(A)PYRENE	PA
EPA 8270 D SIM	BENZO(G,H,I)PERYLENE	PA
EPA 8270 D SIM	CHRYSENE	PA
EPA 8270 D SIM	FLUORANTHENE	PA
EPA 8270 D SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 D SIM	PHENANTHRENE	PA
EPA 8270 D SIM - EXTENDED	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	PA
EPA 8270 E	1,2,4-TRICHLOROBENZENE	PA
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	PA
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	PA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	PA

Commonwealth of Virginia

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E	1-CHLORONAPHTHALENE	PA
EPA 8270 E	1-NAPHTHYLAMINE	PA
EPA 8270 E	2,4,5-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DICHLOROPHENOL	PA
EPA 8270 E	2,4-DINITROPHENOL	PA
EPA 8270 E	2,6-DICHLOROPHENOL	PA
EPA 8270 E	2-ACETYLAMINOFLUORENE	PA
EPA 8270 E	2-CHLOROPHENOL	PA
EPA 8270 E	2-METHYLNAPHTHALENE	PA
EPA 8270 E	2-NAPHTHYLAMINE	PA
EPA 8270 E	2-NITROPHENOL	PA
EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	PA
EPA 8270 E	3,3'-DIMETHYLBENZIDINE	PA
EPA 8270 E	3-NITROANILINE	PA
EPA 8270 E	4-AMINOBIPHENYL	PA
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	PA
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	PA
EPA 8270 E	4-NITROPHENOL	PA
EPA 8270 E	5-NITRO-O-TOLUIDINE	PA
EPA 8270 E	ACENAPHTHENE	PA
EPA 8270 E	ACETOPHENONE	PA
EPA 8270 E	ANTHRACENE	PA
EPA 8270 E	BENZALDEHYDE	PA
EPA 8270 E	BENZO(A)ANTHRACENE	PA
EPA 8270 E	BENZO(B)FLUORANTHENE	PA
EPA 8270 E	BENZO(K)FLUORANTHENE	PA
EPA 8270 E	BENZYL ALCOHOL	PA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	PA
EPA 8270 E	BUTYL BENZYL PHTHALATE	PA
EPA 8270 E	CARBAZOLE	PA
EPA 8270 E	CHRYSENE	PA
EPA 8270 E	DI-N-OCTYL PHTHALATE	PA
EPA 8270 E	DIBENZ(A, J) ACRIDINE	PA
EPA 8270 E	1,4-NAPHTHOQUINONE	PA
EPA 8270 E	1-METHYLNAPHTHALENE	PA
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	PA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	PA
EPA 8270 E	2,4-DIMETHYLPHENOL	PA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8270 E	2-CHLORONAPHTHALENE	PA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	PA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	PA
EPA 8270 E	2-NITROANILINE	PA
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	PA
EPA 8270 E	3,3'-DICHLOROBENZIDINE	PA
EPA 8270 E	3-METHYLCHOLANTHRENE	PA
EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	PA
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	PA
EPA 8270 E	4-CHLOROANILINE	PA
EPA 8270 E	4-NITROANILINE	PA
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	PA
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	PA
EPA 8270 E	ACENAPHTHYLENE	PA
EPA 8270 E	ANILINE	PA
EPA 8270 E	ATRAZINE	PA
EPA 8270 E	BENZIDINE	PA
EPA 8270 E	BENZO(A)PYRENE	PA
EPA 8270 E	BENZO(G,H,I)PERYLENE	PA
EPA 8270 E	BENZOIC ACID	PA
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	PA
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	PA
EPA 8270 E	CAPROLACTAM	PA
EPA 8270 E	CHLOROBENZILATE	PA
EPA 8270 E	DI-N-BUTYL PHTHALATE	PA
EPA 8270 E	DIALLATE	PA
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E	DIBENZOFURAN	PA
EPA 8270 E	DIMETHOATE	PA
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	PA
EPA 8270 E	ETHYL METHANESULFONATE	PA
EPA 8270 E	FLUORENE	PA
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	PA
EPA 8270 E	HEXACHLOROETHANE	PA
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E	ISOPHORONE	PA
EPA 8270 E	METHAPYRILENE	PA
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	PA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	PA
EPA 8270 E	N-NITROSODIMETHYLAMINE	PA
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	PA
EPA 8270 E	N-NITROSOPIPERIDINE	PA
EPA 8270 E	NAPHTHALENE	PA
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	PA
EPA 8270 E	PARATHION (PARATHION - ETHYL)	PA
EPA 8270 E	PENTACHLORONITROBENZENE	PA
EPA 8270 E	PHENACETIN	PA
EPA 8270 E	PHENOL	PA
EPA 8270 E	PRONAMIDE (KERB)	PA
EPA 8270 E	PYRIDINE	PA
EPA 8270 E	SULFOTEP (TETRAETHYL DITHIOPYROPHOSPHATE, TEDP)	PA
EPA 8270 E	THIOPHENOL (BENZENETHIOL)	PA
EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	PA
EPA 8270 E - EXTENDED	DIBENZ(A,H) ACRIDINE	PA
EPA 8270 E - EXTENDED	INDENE	PA
EPA 8270 E SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	PA
EPA 8270 E SIM	2-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHYLENE	PA
EPA 8270 E SIM	BENZO(A)ANTHRACENE	PA
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	PA
EPA 8270 E	DIETHYL PHTHALATE	PA
EPA 8270 E	DIMETHYL PHTHALATE	PA
EPA 8270 E	DIPHENYLAMINE	PA
EPA 8270 E	FLUORANTHENE	PA
EPA 8270 E	HEXACHLOROBENZENE	PA
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	PA
EPA 8270 E	HEXACHLOROPROPENE	PA
EPA 8270 E	ISODRIN	PA
EPA 8270 E	ISOSAFROLE	PA
EPA 8270 E	METHYL METHANESULFONATE	PA
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	PA
EPA 8270 E	N-NITROSODIETHYLAMINE	PA
EPA 8270 E	N-NITROSODIPHENYLAMINE	PA
EPA 8270 E	N-NITROSOMORPHOLINE	PA
EPA 8270 E	N-NITROSOPYRROLIDINE	PA
EPA 8270 E	NITROBENZENE	PA
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	PA
EPA 8270 E	PENTACHLOROBENZENE	PA
EPA 8270 E	PENTACHLOROPHENOL	PA
EPA 8270 E	PHENANTHRENE	PA
EPA 8270 E	PHORATE	PA
EPA 8270 E	PYRENE	PA
EPA 8270 E	SAFROLE	PA
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	PA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	PA
EPA 8270 E - EXTENDED	6-METHYLCHRYSENE	PA
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	PA
EPA 8270 E - EXTENDED	QUINOLINE	PA
EPA 8270 E SIM	1-METHYLNAPHTHALENE	PA
EPA 8270 E SIM	ACENAPHTHENE	PA
EPA 8270 E SIM	ANTHRACENE	PA
EPA 8270 E SIM	BENZO(A)PYRENE	PA
EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	PA

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SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	PA
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	PA
EPA 8270 E SIM	FLUORENE	PA
EPA 8270 E SIM	NAPHTHALENE	PA
EPA 8270 E SIM	PYRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZOFURAN (OCDF)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (1,2,3,4,6,7,8-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,4,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN(1,2,3,6,7,8-HXCDD)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN (1,2,3,7,8,9-HXCDD)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (1,2,3,7,8-PECDD)	PA
EPA 8290 A	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN (2,3,4,6,7,8-HXCDF)	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (2,3,7,8-TCDD)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZO-P-DIOXIN (HPCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZO-P-DIOXIN (HXCDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZO-P-DIOXIN (PECDD, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZO-P-DIOXIN (TCDD, TOTAL)	PA
EPA 8315 A	ACETALDEHYDE	PA
EPA 8330 B	1,3,5-TRINITROBENZENE (1,3,5-TNB)	PA
EPA 8330 B	2,4,6-TRINITROTOLUENE (2,4,6-TNT)	PA
EPA 8330 B	2,6-DINITROTOLUENE (2,6-DNT)	PA
EPA 8330 B	2-NITROTOLUENE	PA
EPA 8330 B	3-NITROTOLUENE	PA
EPA 8330 B	4-NITROTOLUENE	PA
EPA 8330 B	NITROBENZENE	PA
EPA 8330 B	OCTAHYDRO-1,3,5,7-TETRANITRO-1,3,5,7-TETRAZOCINE (HMX)	PA
EPA 8270 E SIM	CHRYSENE	PA
EPA 8270 E SIM	FLUORANTHENE	PA
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	PA
EPA 8270 E SIM	PHENANTHRENE	PA
EPA 8290 A	1,2,3,4,6,7,8,9-OCTACHLORODIBENZO-P-DIOXIN (OCDD)	PA
EPA 8290 A	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (1,2,3,4,6,7,8-HPCDD)	PA
EPA 8290 A	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN (1,2,3,4,7,8,9-HPCDF)	PA
EPA 8290 A	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1,2,3,4,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN (1,2,3,6,7,8-HXCDF)	PA
EPA 8290 A	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN (1,2,3,7,8,9-HXCDF)	PA
EPA 8290 A	1,2,3,7,8-PENTACHLORODIBENZOFURAN (1,2,3,7,8-PECDF)	PA
EPA 8290 A	2,3,4,7,8-PENTACHLORODIBENZOFURAN	PA
EPA 8290 A	2,3,7,8-TETRACHLORODIBENZOFURAN (2,3,7,8-TCDF)	PA
EPA 8290 A - EXTENDED	TOTAL HEPTACHLORODIBENZOFURAN (HPCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL HEXACHLORODIBENZOFURAN (HXCDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL PENTACHLORODIBENZOFURAN (PECDF, TOTAL)	PA
EPA 8290 A - EXTENDED	TOTAL TETRACHLORODIBENZOFURAN (TCDF, TOTAL)	PA
EPA 8315 A	FORMALDEHYDE	PA
EPA 8330 B	1,3-DINITROBENZENE (1,3-DNB)	PA
EPA 8330 B	2,4-DINITROTOLUENE (2,4-DNT)	PA
EPA 8330 B	2-AMINO-4,6-DINITROTOLUENE (2-AM-DNT)	PA
EPA 8330 B	3,5-DINITROANILINE	PA
EPA 8330 B	4-AMINO-2,6-DINITROTOLUENE (4-AM-DNT)	PA
EPA 8330 B	METHYL-2,4,6-TRINITROPHENYLNITRAMINE (TETRYL)	PA
EPA 8330 B	NITROGLYCERIN	PA
EPA 8330 B	PENTAERYTHRITOLTETRANITRATE (PETN)	PA

Commonwealth of Virginia

Department of General Services
Division of Consolidated Laboratory Services

Scope of Accreditation

VELAP Certificate No.: 13454

Eurofins Lancaster Laboratories Environment Testing, LLC
2425 New Holland Pike
Lancaster, PA 17601

Virginia Laboratory ID: 460182
Effective Date: June 15, 2025
Expiration Date: June 14, 2026

SOLID AND CHEMICAL MATERIALS

METHOD	ANALYTE	PRIMARY
EPA 8330 B	RDX (HEXAHYDRO-1,3,5-TRINITRO-1,3,5-TRIAZINE)	PA
EPA 8330 B - EXTENDED	2,6-DIAMINO-4-NITROTOLUENE	PA
EPA 9045 D	PH	PA
EPA 9056 A	CHLORIDE	PA
EPA 9056 A	NITRATE AS N	PA
EPA 9056 A	SULFATE	PA
EPA 9095 B	FREE LIQUID	PA
SM 2540 G-2015	RESIDUE-VOLATILE	PA
SM 4500-NH3 C-2021	AMMONIA AS N	PA
EPA 8330 B - EXTENDED	2,4-DIAMINO-6-NITROTOLUENE	PA
EPA 9012 B	CYANIDE, TOTAL	PA
EPA 9050 A	CONDUCTIVITY	PA
EPA 9056 A	FLUORIDE	PA
EPA 9056 A	NITRITE AS N	PA
EPA 9071 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	PA
SM 2540 G-2015	RESIDUE-TOTAL (TS)	PA
SM 4500-NH3 B-2021	AMMONIA AS N	PA